FINANCIAL PREDICTORS OF FRAUD IN NONPROFIT ORGANIZATIONS

by

Dawn Marie Schwartz	

Doctoral Study Submitted in Partial Fulfillment

of the Requirements for the Degree of

Doctor of Business Administration

Liberty University, School of Business

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Abstract

Nonprofit organizations are especially vulnerable to fraud. Incidents of fraud can have devastating consequences on these organizations and the nonprofit sector overall. This applied doctoral research project examined the use of financial predictors for reported fraud in U.S. nonprofit organizations. The study utilized financial data from 2017 IRS Form 990 filings of 644 U.S. nonprofit organizations with a 501(c)(3) tax exempt status. The researcher performed logistic regression analysis to determine and evaluate any associations between the financial variables and the existence of reported fraud. Three of the financial variables, cash growth rate (p=.001), asset growth rate (p=.046), and the ratio of disqualified compensation to total compensation (p=.033), were found to be statistically significant as individual predictors for reported fraud in the sample analyzed. The prediction model using seven financial variables (revenue growth rate, program expense ratio, cash growth rate, the ratio of cash to total assets, asset growth rate, the ratio of top compensation to total expenses, and the ratio of disqualified compensation to total compensation) was found to be a significant prediction model (p=.001) for reported fraud in the sample analyzed. The model explained five percent (5%) of the variance in the likelihood of fraud and correctly classified 66.7% of the cases analyzed. The findings of this research are useful to auditors, policymakers, management, board members, donors, creditors, and other stakeholders of nonprofit organizations for evaluation of fraud risk, analysis, and development of effective internal controls to protect against fraud.

Keywords: financial fraud predictors, fraud risk, nonprofit organizations, nonprofit fraud

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Dr. Scott Stultz, Dissertation Chair	
Dr. Gene Sullivan, Dissertation Committee Member	
Dr. Edward Moore, DBA Program Director	
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Dedication

I would like to dedicate this dissertation to several people who have contributed to my success in graduate school. First, to my late mother, who always supported me and believed in me. Her deep sadness and regret for not being able to finish elementary school due to her family's need for her on the farm fueled her determination and love for learning. I thank her for instilling that in me. My mother taught me to stand up for what is right, which fuels my passion for fighting fraud and inspired this research.

To my husband, who has provided invaluable support and encouragement throughout this journey. I am thankful for your constant love and support. Without you, this would not have been possible. Thank you for being my rock.

I further want to dedicate this dissertation to my children, Caitlyn, Megan, Ezra, and Abigail. You are my inspiration and my reason for pushing myself to great success. Caitlyn and Megan, you have provided years of support throughout multiple graduate programs. Thank you both for always being my cheerleaders. Your love and support means more to me than you will ever know. Ezra and Abigail, you are so young and so full of life (and energy). Thank you for providing me with constant reminders of the most important things in life...my family, laughter, taking time to splash in puddles, coffee (lots of coffee), and sleep (as it has been scarce).

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This dissertation, as well as my success in graduate school, would not have been possible without the generous help and support of others. First, I would like to thank my husband, my rock, and biggest supporter. I would like to thank my four beautiful children, Caitlyn, Megan, Ezra, and Abigail, for their constant support and encouragement. I would also like to thank two individuals who have provided immense support and encouragement throughout this process, my niece and best friend, Somer, and my mentor and friend, Susan. Somer and Susan's constant support and guidance helped contribute to my perseverance and success in the graduate program. To all my family and friends who provided prayer, encouragement, and support, I extend my sincere appreciation.

I would like to thank the Liberty University faculty and staff for their continued support and prayer throughout my program. I would like to extend my sincere appreciation to my committee chair, Dr. Scott Stultz, for his guidance, recommendations, and encouragement during my dissertation process. I would also like to individually thank my committee member, Dr. Gene Sullivan, and the DBA director, Dr. Edward Moore, for their guidance and encouragement.

Above all, I thank God for His strength and guidance that made completion of this program possible. Jeremiah 29:11, "For I know the plans I have for you," declares the Lord, "plans to prosper you and not to harm you, plans to give you hope and future." Soli Deo Gloria!

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Section 1: Foundation of the Study

The prevalence of fraud, waste, and abuse in nonprofit organizations calls for action by the accounting field. The current body of knowledge does not provide a mechanism to utilize financial information as a fraud prediction tool. This research was conducted to help solve the problem in hopes to better fight fraud and decrease the resulting losses and damage.

Background of the Problem

Nonprofit organizations are increasingly targeted by volunteers and employees who perpetrate fraud and abuse of the organizations' assets (Crumbley, Fenton, Smith, & Heitger, 2017). These organizations are often more susceptible to fraud, waste, and abuse because of their trusting nature and size (Crumbley et al.). Many smaller nonprofit organizations do not have the ability to hire the amount of qualified staff necessary for appropriate segregation of duties and approvals for disbursements (Archambeault, Webber, & Greenlee, 2015). Instances of fraud, waste, and abuse in nonprofit organizations severely impact the nonprofit sector by damaging the public's trust in nonprofit organizations and threatening future support of the organizations (Archambeault & Webber, 2018; Adena, 2016; Kim, 2017; Peltier-Rivest & Lanoue, 2015). Without adequate support, these organizations may not be able to advance their missions, which could negatively impact society overall (Bradley, 2015; Gose, 2018).

Red flags have been identified for use by management, auditors, and donors for assessments of nonprofit organizations (Crumbley et al., 2017). However, often times these red flags do not appear until the incidents of fraud, waste, and abuse have already occurred and have grown large enough to be noticed. The longer fraud schemes go undetected, the greater the losses and impact tends to be (Association of Certified Fraud Examiners [ACFE], 2018). This

suggests the importance of fraud prevention, prediction, and earlier detection in nonprofit organizations.

There are many indicators that have been developed to attempt to predict fraud in forprofit organizations. Weske and Benuto (2015) discussed the use of share prices and price/earnings ratios as predictors of fraud in public companies. Beneish created a model with indicators that are utilized to assess fraud risk (Oltean, 2016) and detect instances of financial statement fraud and earnings manipulation (Repousis, 2016). However, there has been limited research for fraud, specifically fraud risk and predictability, in nonprofits.

There is a current gap in literature pertaining to indicators of fraud and fraud risk assessment techniques for nonprofit organizations. Scholarly research for nonprofit organizations primarily focuses on the transparency of the organizations (Hyndman & McConville, 2016; Jensen & Meisenbach, 2015), reporting requirements (Calabrese, 2011; Neely, 2011) efficiency assessment (Garven, Hofmann, & McSwain, 2016; Ryan & Irvine, 2012), financial characteristics of nonprofits with higher than expected program expense ratios (Trussel, 2003), and impact of information on donations (Li & McDougle, 2017; Parsons, 2007). Therefore, there is a need to research possible fraud risk indicators and predictors to further assist management and boards of nonprofit organizations with fraud prevention and discovery of fraud more quickly.

Problem Statement

The general problem to be addressed is fraud, waste, and abuse in nonprofit organizations. Nonprofit organizations are increasingly targeted by volunteers and employees who perpetrate fraud and abuse of the organizations' assets (Crumbley et al., 2017). Nonprofit organizations typically have more limited staff, a lack of sophisticated internal controls, and a

culture based on trust, which make them more susceptible to fraud, waste, and abuse scandals (Archambeault et al., 2015). Gordon, Hager, Pollack, Rooney, and Wing (2006) stated, "nonprofit financial reporting represents a potential ticking time bomb for the profession" (p. 14). This is primarily due to items being misrepresented in the financial reporting process (Gordon et al.). A nonprofit organization may have monetary losses from fraud, damage to its reputation, and decreased donations which could impact the ability of the organization to advance its mission. The longer a fraud goes undetected, the more damage it causes the organization (ACFE, 2016). Therefore, effective and efficient mechanisms for evaluation must be identified that would allow an assessment of fraud risk indicators for nonprofit organizations. The specific problem to be addressed is the need for financial predictors for fraud, waste, and abuse in nonprofit organizations. Fraud risk indicators could help to combat fraud by assisting with more timely identification of fraud, waste, and abuse instances. They may also assist with fraud prevention.

Purpose Statement

The purpose of this non-experimental quantitative study was to examine possible correlations between the change in financial indicators and incidents of fraud, waste, and abuse in nonprofit human services organizations in order to provide improved techniques for the evaluation of fraud risk in nonprofit organizations. The primary purpose of this study was to add to the body of knowledge through the development of new evaluation methods for fraud risk analysis of nonprofit organizations. This study was also designed to provide management, board of directors, donors, and auditors with additional tools to assess the fraud risk of nonprofits.

Scholarly research for nonprofit organizations primarily focuses on the transparency of the organizations (Hyndman & McConville, 2016; Jensen & Meisenbach, 2015), reporting

requirements (Calabrese, 2011; Neely, 2011) efficiency assessment (Garven et al., 2016; Ryan & Irvine, 2012), and impact of information on donations (Li & McDougle, 2017; Parsons, 2007). Parsons and Trussel (2007) proposed financial reporting factors (i.e., organizational efficiency, financial stability, information availability, and reputation) that relate to donations. This research study was designed to uncover additional relationships and techniques to assist donors with the analysis and evaluation of Parsons and Trussel's proposed factors.

Nature of the Study

The nature of this study was a quantitative, non-experimental, logistic regression method. Quantitative research is designed to investigate the existence of relationships among variables (Creswell, 2014). Non-experimental research is appropriate for research conducted to identify associative relationships, rather than cause and effect (Radhakrishnan, 2013). The goal of this study was to determine if associations exist between select financial indicators and instances of fraud. Therefore, non-experimental regression analysis was the method most useful for determining the existence of any associations between variables as well as any predictive value for fraud.

Discussion of Method

The researcher chose the quantitative method of data analysis for this study because it was the most appropriate method to provide an analysis of any relationship between selected financial indicators and instances of fraud, waste, and abuse in the nonprofit organizations studied (Creswell, 2014). This study utilized selected historical numerical data, which was best addressed through a quantitative method. Quantitative methods are used to gather numerical data rather than data gathered through words as employed from the qualitative method (Sekaran & Bougie, 2016). A qualitative method was not chosen for this study because it would not

address the research questions selected for this study. Qualitative research is typically designed to answer how things work or why they work by studying human perception and understanding of certain phenomenon (Stake, 2010). This form of research may be beneficial for future research to determine the perception and attitudes of donors about financial indicators. However, for the purpose of this study, it was not appropriate.

Mixed methods research is designed to answer questions and provide more information than what is available through the use of only a quantitative or qualitative research method (Sekaran & Bougie, 2016). The use of mixed methods research requires the researcher to conduct both quantitative and qualitative research integrating the data collected to explore a phenomenon in more detail (Halcomb & Hickman, 2015). This form of research may be beneficial for future research to examine the culture including the perceptions and attitudes of management, employees, and board members of the nonprofit organizations. However, mixed methods research was not selected for this study because it would not have been appropriate to answer the research questions.

Discussion of Design

The researcher selected the non-experimental logistic regression design for this study. A non-experimental approach was chosen because the purpose of the study was to uncover any correlations rather than to detect a cause and effect relationship (Sekaran & Bougie, 2016). Experimental designs require the manipulation of independent variables to test for a cause and effect relationship (Creswell, 2014; Sekaran & Bougie). This type of design was not chosen for this study because this study was not designed to test for cause and effect relationships. A non-experimental design is used to explore and describe existing phenomena (Radhakrishnan, 2013). The use of a non-experimental design does not require manipulations of the independent variable

(Radhakrishnan). Rather, the researcher is able to investigate the phenomena studied as it was in its current state.

A logistic regression design was chosen for this study because it was designed to investigate the existence of associations among the variables and predictive value. The goal of logistic regression analysis is to predict a dependent variable from a combination of independent variables (Leech, Barrett, & Morgan, 2014; Sekaran & Bougie, 2016). Other quantitative methods considered, but rejected were: (a) descriptive and (b) quasi-experimental. A descriptive design was not appropriate for this study because the research questions in this study require the analysis of relationships for multiple variables (Sekaran & Bougie). A quasi-experimental design was not appropriate for this study because it requires the use of experimental procedures which was not introduced and do not assist with answering the research questions (Kim & Steiner, 2016). In this study, the researcher examined historical financial data to determine the existence of relationships among the variables, which was best conducted through the use of non-experimental correlational study design.

Summary of the Nature of the Study

As discussed above, the nature of this study was a quantitative, non-experimental, correlational method. A quantitative method was chosen because this study is investigating the existence of relationships among variables (Creswell, 2014). The researcher chose a correlational method of analysis to determine if relationships exist between select financial indicators and instances of fraud, waste, and abuse.

Research Questions

The study addressed two research questions. The first research question was: Is there a statistically significant association between revenue growth rate; program expense ratio;

fundraising expense ratio; administration expense ratio; cash and cash equivalents growth rate; ratio of cash and cash equivalents to total assets; total asset growth rate; ratio of compensation to current, officers, directors, trustees, and key employees to total expenses; ratio of compensation of current officers, directors, trustees, and key employees to total compensation; ratio of disqualified compensation to total compensation and reported instances of fraud? Rapid growth has been linked to an increased risk of fraud in for-profit organizations (Crumbley et al., 2017). This question was intended to investigate any association between a nonprofit's annual revenue and asset growth rate and instances of fraud to identify if a higher revenue and/or asset growth rate would also increase the risk of fraud in nonprofit organizations.

A nonprofit organization's efficiency is often assessed through an evaluation of program expense ratio, administrative (management and general) expense ratio, and fundraising expense ratio (Hyndman & McConville, 2016). There is much public scrutiny pertaining to the amount of monies spent by nonprofits on program versus other administrative and fundraising expenses. This scrutiny and pressure to demonstrate an acceptable program expense ratio has caused some managers to practice questionable program expense management (Keating, Parsons, & Roberts, 2008; Krishnan & Yetman, 2011; Krishnan, Yetman, & Yetman, 2006).

Growth has been associated with increased fraud risk (Petrovits, Shakespeare, & Shih, 2011). Due to the liquidity of cash and ease of access, having large amounts of cash and cash equivalents on hand may increase the risk of fraud through embezzlement and misappropriation of assets (ACFE, 2016). Therefore, analyzing the cash and cash equivalents growth rate, and the proportion of cash and cash equivalents to total assets, may help to identify if there is a growth rate or proportion that increases fraud risk.

Executive compensation in nonprofit organizations is often scrutinized, particularly if public perception deems it too high. The IRS requires nonprofit organizations to report compensation to current officers, directors, trustees, and key employees separately from other employees on Form 990. Public perception of high executive compensation is often negative. However, there could be logical rationale for high compensation based on the person's expertise, experience, capabilities, and other assets. If executive pay is linked to performance, it increases the risk of fraudulent financial reporting because it may give executives an incentive to falsify results in order to receive higher compensation (ACFE, 2016). This project investigated any association of the ratio of top compensation to total expenses and the ratio of top compensation to total compensation with cases of reported fraud. Any associations may help identify new measures for nonprofit risk assessment and management.

The IRS requires nonprofit organizations to report any compensation to disqualified persons separately on Form 990. Disqualified persons include any person who was in a position of substantial influence of the nonprofit organization during a five-year period prior to the date of the compensation (IRS, 2017). According to the IRS, this would include executive employees, voting board members, and treasurers. Disqualified compensation would include any amounts paid to disqualified persons that are deemed above reasonable compensation. It would also include any excess benefit transactions. Excess benefit transactions include any transaction in which the disqualified person receives something of greater value than the consideration given (i.e., performance of services; IRS). The researcher investigated any association between the ratio of disqualified compensation to total compensation and reported instances of fraud in order to identify possible measures for nonprofit risk assessment and fraud prediction.

Hypotheses

The hypotheses for this study were as follows:

- H_01 . There is no statistically significant association between the revenue growth rate and reported instances of fraud.
- H_A1. There is a statistically significant association between the revenue growth rate and reported instances of fraud.
- H_02 . There is no statistically significant association between the program expense ratio and reported instances of fraud.
- H_A2 . There is a statistically significant association between the program expense ratio and reported instances of fraud.
- H_03 . There is no statistically significant association between the fundraising expense ratio and reported instances of fraud.
- H_A3. There a statistically significant association between the fundraising expense ratio and reported instances of fraud.
- H₀4. There is no statistically significant association between the administrative expense ratio and reported instances of fraud.
- H_A4 . There a statistically significant association between the administrative expense ratio and reported instances of fraud.
- H_05 . There is no statistically significant association between the cash and cash equivalents growth rate and reported instances of fraud.
- H_A5. There is a statistically significant association between the cash and cash equivalents growth rate and reported instances of fraud.

- H_06 . There is no statistically significant association between the ratio of cash and cash equivalents to total assets and reported instances of fraud.
- H_A6. There is a statistically significant association between the ratio of cash and cash equivalents to total assets and reported instances of fraud.
- H_0 7. There is no statistically significant association between the total asset growth rate and reported instances of fraud.
- H_A7. There is a statistically significant association between the total asset growth rate and reported instances of fraud.
- H₀8. There is no statistically significant association between the ratio of compensation to current officers, directors, trustees, and key employees to total expenses and reported instances of fraud.
- H_A8. There is a statistically significant association between the ratio of compensation to current officers, directors, trustees, and key employees to total expenses and reported instances of fraud.
- H₀9. There is no statistically significant association between the ratio of compensation to current officers, directors, trustees, and key employees to total compensation and reported instances of fraud.
- H_A9. There is a statistically significant association between the ratio of compensation to current officers, directors, trustees, and key employees to total compensation and reported instances of fraud.
- H_010 . There is no statistically significant association between the ratio of disqualified compensation to total compensation and reported instances of fraud.

- H_A10. There is a statistically significant association between the ratio of disqualified compensation to total compensation and reported instances of fraud.
- H_011 . No combination of the financial variables is able to predict fraud within the sample.
- $H_{A}11$. Some combination of the financial variables is able to predict fraud within the sample.

Theoretical Framework

The theoretical framework for this study was based on three theories from the current body of literature: agency theory, stewardship theory, and the fraud triangle. Figure 1 represents the impact of the three theories on incidents of fraud, waste, and abuse in nonprofit organizations. The framework includes the independent variables that were evaluated in this study. Each theory, and how they link to the study, will be explored and discussed in this section.

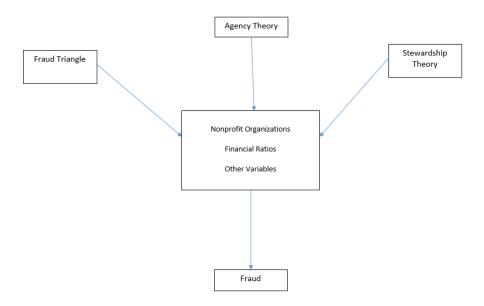


Figure 1. Theoretical Framework.

Agency Theory

Agency theory was first developed by Adam Smith who theorized if an organization is managed by someone other than the owners, there is a possibility they may not act in the best interest of the owners (Panda & Leepsa, 2017). The theory is based on a relationship between a principal and an agent. The principal delegates control to the agent to act on his/her behalf (Bernstein, Buse, & Bilimoria, 2016). In the case of nonprofit organizations, the donors are the principals who contribute to the organization for the organization to utilize for purposes of obtaining its mission. Donors typically do not have control over the how funds are utilized in a nonprofit organization unless there are contractual stipulations for the spending of such funds. Therefore, the donors trust management of the nonprofit organization to utilize the donations for achieving the mission of the organization. Sometimes the organization and the donors may have conflicting interests and the agent may act in self-interest (Jensen & Meckling, 1976). This is referred to as the agency problem (Jensen & Meckling).

The agency problem arises when the goals and desires of the principal and agent differ and when it is difficult for the principal to monitor the behavior of the agent (Eisenhardt, 1989). Eisenhardt made two recommendations to help alleviate the agency problem (a) have a contractual agreement that explicitly states the expected outcome and (b) have strong information sharing where the agents distribute information to the principal that explains the actions conducted on their behalf (Eisenhardt). Tan and Lee (2015) discussed how agency problems negatively impact customer loyalty. In order to alleviate the agency problem and improve customer trust and loyalty, Tan and Lee explained three types of risks to be addressed: (a) goal symmetry, (b) risk asymmetry, and (c) information asymmetry.

Goal asymmetry exists if the principal perceives the agent has differing goals and interests than the principal (Tan & Lee, 2015). Risk asymmetry exists if the principal perceives the agent has differing attitudes toward risk and risk-based decisions (Tan & Lee). The third type of risk explained by Tan and Lee, information asymmetry, exists when one party has information the other party desires. In the case of nonprofit organizations, the customers are donors (i.e., principals) who trust nonprofit management (i.e., agents) to have similar goals and interests as well as to make similar risk-based decisions. If donors perceive that they cannot trust the nonprofit management, they may decrease or stop donations/support of the organization.

In order to trust the management of nonprofit organizations, donors need to be able to evaluate management's performance and determine whether or not donor expectations are met. This requires adequate information sharing which also helps to address the information asymmetry discussed by Tan and Lee (2015). Some donors may have contractual agreements as discussed above that stipulate the spending of funds, which allows for monitoring and evaluation of the spending. However, many nonprofits rely on multiple donors and/or public support that may not have contractual stipulations. In those cases, the donors rely on the nonprofit organizations to provide information pertaining to the performance of the organization including support, spending, and impact. Some nonprofit organizations may provide information to donors via program flyers, newsletters, public advertising, and their websites. Though, without a contractual agreement, nonprofit organizations are not required to do so. The Internal Revenue Service (IRS) collects data from nonprofit organizations that is publicly available. Most nonprofit organizations, who meet the requirements, publish financial information on their IRS Form 990. This information can be utilized by the donors (i.e., principals) to understand the

financials of the organization and attempt to assess the three risks (i.e., goal asymmetry, risk asymmetry, and information asymmetry) explored by Tan and Lee.

Stewardship Theory

Donaldson and Davis (1991) theorized that there is no conflict (e.g., agency problem) between managers and the goals of the stakeholders. Instead, they theorized management behaviors are in alignment with the interests of the principals, which they called the stewardship theory (Donaldson & Davis). Thus, the stewardship theory holds that management will act in the best interest of the stakeholders and agents because they desire to be good stewards of the resources and to do their job well (Donaldson & Davis). This is a more optimistic view of the behavior of management/agents and implies that management/agents are committed to the mission of the organization. The stewardship theory helps to reduce two of the risks discussed by Tan and Lee (2015), goal asymmetry and risk asymmetry.

The management team members of nonprofit organizations are responsible for the appropriate use of resources to accomplish the mission of the organization. Donors trust that management will utilize the resources according to the best interests of the agents/stakeholders rather than their own self-interests. Brown and Yoshioka (2003) suggested the staff of nonprofit organizations are likely to be motivated by the nonprofit organization's mission and values. However, incidents of fraud, waste, and abuse indicate that this is not always the case.

Therefore, it would appear in some circumstances the stewardship theory may not hold true based on the individual and their personal motivation. Davis, Schoorman, and Donaldson (1997) explained that principals may have agency relationships and stewardship relationships that change over time as interest alignment changes.

Kluvers and Tippett's (2011) findings indicated stewards prioritize the collective goals of their organization over their personal goals and the interests of the principal over their self-interest. This commitment to the principal over self-interest is consistent with the stewardship theory. However, there are instances where the circumstance may change the agent's level of commitment. Brown and Yoshioka (2003) found perceptions of inadequate pay among staff at nonprofit organizations caused a reduction of commitment to the organization. A reduction in commitment to organizations could deter agents from the interests of the principals and cause them to focus more on their own self-interest. The fraud triangle, as discussed below, may explain how this could occur.

Fraud Triangle

Cressey (1973), who studied criminology, developed a theory known as the fraud triangle, to explain the circumstances that may lead to someone perpetrating fraud. Cressey's fraud triangle (Figure 2) is founded on the notion that in order to perpetrate fraud there must be three things present in the situation. A person must have (a) pressure to induce the action of fraud, (b) opportunity to perpetrate the fraud, and (c) the ability to rationalize the fraud (Cressey). The fraud triangle was developed from Cressey's (1973) hypothesis:

Trusted persons become trust violators when they conceive of themselves as having a financial problem which is non-sharable, are aware this problem can be secretly resolved by violation of the position of financial trust, and are able to apply to their own conduct in that situation verbalizations which enable them to adjust their conceptions of themselves as trusted persons with their conceptions of themselves as users of the entrusted funds or property. (p. 30)

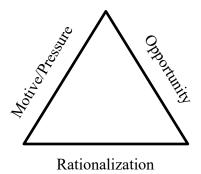


Figure 2. Fraud Triangle.

An organization has limited control over pressures that employees may encounter, nor can they control employees' ability to rationalize immoral behavior. However, organizations can control the opportunity employees have to perpetrate fraud. The best way organizations can protect themselves from fraud is to adopt and utilize a good system of internal controls that requires appropriate segregation of duties and approvals. Segregation of duties requires critical functions of a process be performed by more than one person or department (AICPA, 2018). This helps to deter and reduce incidents of fraud and abuse by not allowing one person to have the ability to perpetrate the fraud and conceal it. Without implementation of appropriate segregation of duties, detection can be more difficult.

Nonprofit organizations are more susceptible to fraud because they are typically built on a culture of trust which makes them inherently more at risk for people taking advantage of any weaknesses (Behn, DeVries, & Lin, 2010). They also typically do not have enough staff nor staff who are appropriately educated to conduct the duties (Behn et al.). Another internal control weakness of nonprofit organizations is that they do not have appropriate segregation of duties (Behn et al.). These weaknesses of nonprofit organizations provide an opportunity for individuals to perpetrate fraud.

Discussion of Relationships between Theories and Variables

The combination of agency theory, stewardship theory, and the fraud triangle provide the theoretical support for this study. Donors (i.e., principals) trust management of nonprofit organizations (i.e., agents) to utilize resources efficiently and effectively for the mission of the organization. Demski and Faltham (1978) have utilized agency theory in accounting research to help explain the use of budgetary mechanisms to mitigate the risk of the agency problem. For this study, it is important to understand the motivation of the management of nonprofit organizations with regard to changes in certain financial indicators and how that relates to the agency theory, the stewardship theory, and the fraud triangle.

Summary of the Theoretical Framework

There are situational and psychological factors that influence how one acts when serving as an agent or a principal (Davis et al., 1997; Pastoriza & Arino, 2008). These factors may change depending on the circumstances and the person. As organizations grow, the situational and psychological factors that management faces may change. This may increase the risk of management acting in their self-interest more than for the stakeholders of the organization. These factors influence fraud risk, specifically contributing to motive and pressure as explained in the fraud triangle.

Definition of Terms

Definitions of terms utilized throughout this study are listed below in order to provide a clear understanding of their meaning for purposes of this study.

Administrative (management and general) expense ratio: The administrative expense ratio is calculated as the total management and general expenses reported divided by the total expenses reported for that year (Charity Navigator, 2017).

Administrative (management and general) expenses: Administrative (management and general) expenses are expenses that are related to the nonprofit's operations and management; they are not program expenses or fundraising expenses (IRS, 2016). For example, administrative expenses would include the salaries and benefits of the nonprofit's executive officers and staff unless a portion of their time is allocated to specific program or fundraising activities (IRS).

Asset misappropriation: Asset misappropriation is the theft, waste, or abuse of organizational assets.

Corruption: Corruption is the wrongful use of one's influence in business transactions for their own personal benefit (Saksena, 2010).

Direct expenses: Direct expenses are expenses that are identified as specific to an activity or project of the nonprofit organization, so they are able to be charged to the appropriate program (IRS, 2016).

Disqualified compensation: Disqualified compensation is any compensation given to a disqualified person (IRS, 2017).

Disqualified person: A disqualified person according to the IRS is a person who was in a position of substantial influence of the nonprofit organization at any time during five years prior to the date of the disqualified compensation.

Financial statement fraud: Financial statement fraud is the manipulation, falsification, or alteration of accounting records. It includes any intentional omission or misrepresentation in the financial statements of data and/or disclosures and any intentional misapplication of accounting principles to misrepresent financial statements.

Fraud: Fraud is defined an intentional act to deceive another for one's personal gain (Greenlee, Fischer, Gordon, & Keating, 2007). According to Wells (2014) fraud consists of four

elements: a material false statement, knowledge that the statement was false, reliance by the victim on the false statements, and damages resulting from the false statement and the victim's reliance on that statement.

Fraud risk: Fraud risk is the risk that fraud may occur in an organization.

Fundraising expense ratio: The fundraising expense ratio is calculated as the total fundraising expenses reported divided by the total expenses reported for that year (Charity Navigator, 2017).

Fundraising expenses: Fundraising expenses are explained by the IRS as expenses a nonprofit incurs when soliciting case and noncash contributions, gifts, and grants. Some overhead expenses may also be reported as fundraising if they were incurred for fundraising campaigns and/or soliciting contributions.

Indirect expenses: Indirect expenses are expenses that cannot be identified specifically for an activity or project (IRS, 2016). The expenses may be for several different areas and may need to be allocated to the appropriate programs.

Internal control: Internal control is a process utilized to provide "reasonable assurance" that objectives related to the efficiency and effectiveness of operations, reliability of financial reporting, and compliance with applicable regulations are met (AICPA, 2013).

IRS Form 990: The IRS Form 990 is defined by the IRS (2016) as the annual information return of organizations exempt from income tax that has gross receipts of \$200,000 or more or total assets of \$500,000 or more.

Nonprofit organization: A nonprofit organization, also known as a not-for-profit organization and/or a nonprofit, is a tax-exempt business that serves a nonprofit purpose as

defined by the IRS (2016). Examples of tax-exempt purposes for nonprofit organizations are: charitable, religious, educational, scientific, literary, and social welfare (IRS).

Occupational fraud: Occupational fraud is the intentional misuse or misapplication by an employee of their company's assets and/or resources (Association of Certified Fraud Examiners [ACFE], 2018).

Percent change in total cash and cash equivalents balances: The change in total cash and cash equivalents ratio is defined for the purposes of this study as the current year ending net cash and cash equivalents balance minus the prior year ending cash and cash equivalents balance.

Then the change in total cash and cash equivalents is divided by the prior year ending cash and cash equivalents balance to obtain the percent change in total cash and cash equivalents.

Program expense ratio: The program expense ratio is calculated as the total program expenses reported divided by the total expenses reported for that year.

Program expenses: Program expenses are the activities that pertain to the nonprofit's exempt purpose (IRS, 2016).

Staff compensation and benefits expense ratio: The staff compensation and benefits expense ratio is calculated as the total staff compensation and benefits expenses reported divided by the total expenses reported for that year.

Top compensation: Top compensation is the compensation to current officers, directors, trustee, and key employees as reported on Form 990, part IX, line 5.

Assumptions, Limitations, Delimitations

Assumptions of a study help guide the reader to understand the assumptions the researcher relied upon throughout the research, findings, and conclusions (Sekaran & Bougie, 2016). Limitations provide the reader with information pertaining to the limits of the study. The

delimitations of the study help define the scope of the study for the reader. The assumptions, limitations, and delimitations of the study are discussed below in order to provide the reader with an understanding of those items and how they impact the study and findings.

Assumptions

The assumptions for the study were that the financial data gathered by the researcher accurately depicted the nonprofit organizations' expense ratios, data related to foundations and compensation, and information pertaining to incidents of fraud, waste, and abuse. The data were obtained from 2017 IRS Form 990s filed by the nonprofit organizations. IRS Form 990s are completed by the individual nonprofit organizations and submitted to the IRS. The researcher assumed the data provided by the nonprofit organizations used for the statistical analysis were free of material errors that would have impacted the integrity of this study. However, if this assumption is not true, then there is a risk that the results of this study may be incorrect which could lead to misleading results.

The assumption was made that the nonprofits without any publicly available information pertaining to incidents of fraud, did not have any incidents to report. However, there is no absolute assurance that the nonprofit organizations in the sample marked as no incidents of fraud did not have incidents of fraud. Therefore, there is a chance that the data utilized in the analysis and classified as no incidents of fraud did have incidents of fraud that had not been identified as such at the time of the research. In order to mitigate this risk, the researcher used the most recent data available through a third party, Candid (formerly known as GuideStar). Data reported through Candid are publicly available. Therefore, it is reasonable to assume if there were any instances of fraud not reported, the organization would update them as the information becomes available.

Limitations

The use of a sample limits this research to the results of the selected sample (Salkind, 2013). Sampling is necessary due to resource and time constraints. However, due to the use of a sample, the results of this study cannot be generalizable to all U.S. public nonprofit organizations.

Delimitations

Delimitations describe the boundaries and scope of a study. The scope of the study was public nonprofit organizations with a 501(c)(3) exempt status in the United States who filed a 2017 IRS Form 990. This study focused on U.S. nonprofit organizations to help ensure consistent and comparable reporting among the sample. The year 2017 was chosen in an effort to utilize the most recent reporting data available.

Significance of the Study

The researcher designed this project to assist with the development of new indicators for the assessment of fraud risk. Regulatory agencies, watchdogs, auditors, and members of the accounting profession may be able to use the framework to develop risk analysis, requirements for additional disclosures of information, and requirements for consistency and comparability among nonprofits. It may potentially provide guidance for donors, grantors, management, board members, and other users of financial information in the evaluation of nonprofit organizations. Krishnan et al. (2006) found positive association between misreporting behavior and managerial incentives. Therefore, this research may be used by board members and management to determine reasonable metrics for internal assessment and ensure incentives for management and executive compensation are not based solely on financial performance indicators to further prevent misconduct.

Reduction of Gaps

As previously stated, there is a current gap in literature pertaining to financial predictors of fraud for nonprofit organizations. Scholarly research for nonprofit organizations primarily focuses on the transparency of the organizations (Hyndman & McConville, 2016; Jensen & Meisenbach, 2015), reporting requirements (Calabrese, 2011; Neely, 2011), efficiency assessment (Garven et al., 2016; Ryan & Irvine 2012), and impact of information on donations (Li & McDougle, 2017; Parsons, 2007). Research focused on the development of financial fraud risk indicators would help to address this gap in current literature. It would also help the stakeholders of nonprofits more effectively evaluate the organizations. Financial indicators of fraud could also be utilized by the management and board of directors of nonprofit organizations to identify fraud risk, prevent incidents of fraud, waste and abuse, and detect incidents fraud, waste, and abuse more quickly.

Implications for Biblical Integration

The Bible provides standards of truth and justice that should govern Christians in both their work and personal lives. Biblical standards provide that everyone is accountable to God for their actions and that everyone should live lives that are pleasing to God. The Bible plainly states, "You shall not lie. You shall not give false testimony against your neighbor" (Exodus 20:15, NIV). Fraud is lying and/or knowingly misrepresenting something to someone who is relying on that misrepresentation. Therefore, we know that fraud is displeasing to God and goes directly against the Ten Commandments.

God desires for everyone to follow His Word and purpose for their lives. God accomplishes His purpose for the world by providing everyone with skills, talents, and abilities to use serving others (Cawley & Snyder, 2015). When serving as an agent and/or steward it is

imperative that the agent or steward does so in a way that is pleasing to both the principal and God. This includes exhibiting a high level of integrity, using resources effectively and appropriately, following the wishes of the donors, striving to serve the mission of the organization, and appropriately guard organizational resources.

As stewards or agents of an organization, individuals must understand their purpose and manage their duties in accordance with God's desires. As stated by Van Duzer (2010), God wants organizations to serve the community and remain sustainable. Therefore, it is imperative that organizations seek to conduct operations that serve in a sustainable manner. It is the duty of nonprofit organization's management to ensure that the strategic allocation of resources is sustainable for the organization as well as fulfilling God's purpose. In order to do so, management of nonprofit organizations must exercise caution to ensure they manage the resources of the nonprofit in the most effective and efficient way, guard the organization against fraud, and reduce fraud risk. The use of financial indicators of fraud may help to evaluate fraud risk, detect incidents of fraud more quickly, and deter fraud. Once nonprofit organizations have a mechanism to utilize that can help them predict fraud, then they may be able stop the fraud before it starts. The use of indicators may also assist auditors with more timely detection of fraudulent activities.

It is important for individuals and society overall to strive to be honest and live by biblical principles in order to reap good rewards. The Bible says in Jeremiah, "Great are your purposes and mighty are your deeds. Your eyes are open to the ways of all mankind; you reward each person according to their conduct and as their deeds deserve" (Jeremiah 32:19, NIV). Each person is going to receive the punishment and/or rewards that they deserve. Whether or not a person is caught or persecuted by man, the act will not go unnoticed by God. The person will

still have to account for their sins to God. Therefore, it is important if a person wants to live a life that is pleasing to God that they strive to abide by the biblical principles.

As stated in Proverbs, "Righteousness exalts a nation, but sin condemns any people" (Proverbs 14:34, NIV). Therefore, if society does not strive to live according to biblical principles, then it may continue to see an increase in bad actions, including fraud. If society encourages good, biblical behavior, then society may reap the rewards of pleasing God.

Relationship to Field of Study

The subject of fraud and indicators of fraud risk are well aligned with the study of accounting. The purpose of accounting is to provide users of financial information, relevant, reliable financial information upon which to base decisions (Duska, Duska, & Ragatz, 2011). Fraudulent information can deceive the users of financial information and potentially cause them to make a decision that they would not have made if they had accurate information. Certified Public Accountants (CPAs) are governed by the American Institute of Certified Public Accountants (AICPA) which provides a code of ethics and standards such as the Generally Accepted Auditing Standards (GAAS). AU Section 316 is the generally accepted auditing standard that requires auditors to consider fraud in the course of their financial statement audits (American Institute of Certified Public Accountants [AICPA], 2007). This statement requires that auditors utilize necessary guidelines to detect and document risk factors pertaining to fraud. The intentions of this study are to provide additional indictors for fraud risk that may be utilized by auditors to further analyze risk factors and their ability to detect fraud during the course of their audits.

Summary of the Significance of the Study

This study was designed to address the general problem of fraud, waste, and abuse in nonprofit organizations, and the specific problem of the need for financial predictors for fraud in nonprofit organizations. There is currently a lack of research pertaining to financial predictors and/or indicators of fraud in nonprofit organizations. This study was designed to address that gap. Financial predictors of fraud would allow management of nonprofit organizations to monitor more effectively with indicators for fraud risk. It would also allow auditors, board members, regulatory agencies, donors, and other stakeholders to more effectively assess the financials of a nonprofit organization and attempt to assess the three risks: (a) goal asymmetry, (b) risk asymmetry, and (c) information asymmetry discussed by Tan and Lee (2015).

A Review of the Professional and Academic Literature

A review of professional and academic literature was conducted by the researcher to determine the available research and any gaps in research that were central to the theoretical framework of the study. This review allowed the researcher to determine gaps in the current literature that the study could address. The literature review consists of key topics and concepts related to the study and how the study will fit in the current body of literature (Creswell, 2014). The literature review is organized into nine main areas: (a) an introduction and discussion of nonprofit organizations; (b) discussion of issues and weaknesses in nonprofit organizations; (c) introduction and discussion of fraud; (d) discussion of contributing factors for fraud in nonprofit organizations; (e) discussion of the significance of fraud as a problem; (f) discussion of the significance of fraud in nonprofit organizations as a problem; (g) discussion of the role of management in combatting fraud; (h) discussion of current research and the gap in research for indicators, specifically financial, for use with the detection and prevention of fraud in nonprofit

organizations; and (i) discussion of current research and the gap in research for indicators, specifically financial, for use in the prediction of fraud in nonprofit organizations.

Nonprofit Organizations

A nonprofit organization, also known as a not-for-profit organization and/or a nonprofit, may be public or private and tax-exempt or not tax-exempt, depending on the purpose and structure of the organization. Cornell Law School's Legal Information Institute described a nonprofit organization as an organization created to serve a purpose other than generating a profit that does not distribute any of the organization's income to its members, directors, or officers ("Non-profit Organizations," n.d.). U.S. nonprofit organizations are organized under state law and if desired, must apply for tax-exempt status with the IRS. Public nonprofit organizations receive a majority of their funding from public support in the form of donations from individuals, governmental grants, and grants from private foundations (Wolf, 2018). In contrast, private nonprofit organizations have few sources of funding primarily from a single individual, family, or corporation (Wolf). The focus of this study was U.S. public, tax-exempt, Section 501(c)(3) nonprofit organizations.

Tax Exempt Organizations Under Section 501(c)(3)

A nonprofit organization, domiciled in the U.S., with a tax exemption under IRC Section 501(c)(3) is considered a tax-exempt business that serves a nonprofit purpose as defined by the IRS (2017). Examples of tax-exempt purposes for nonprofit organizations are: charitable, religious, educational, scientific, literary, and social welfare (IRS). A nonprofit organization is not allowed to distribute profits to its owners; instead, the profits must remain in the organization, where they must be used for the tax-exempt mission of the nonprofit. In addition, nonprofit organizations are not currently permitted to participate in political campaigns, operate

for a purpose other than ones that are related to its tax-exempt purpose, operate for the benefits of any private interests, be involved in any illegal activities or purpose, nor to violate public policy (Clevenger, 2009). The primary benefits of an IRS 501(c)(3) status is to be tax exempt and eligible to receive tax-deductible contributions from donors (Charity Navigator, 2018). U.S. nonprofit organizations with a 501(c)(3) status were chosen for this study due to their importance to the general public.

Accounting and Reporting Requirements

Private, tax-exempt nonprofit organizations must follow the financial accounting standards as set by the Financial Accounting Standards Board (FASB) and the AICPA *Not-for-Profit Organizations* guide (Copley, 2015). They are also required to follow any IRS filing and documentation requirements. Not all nonprofit organizations are required to have an independent audit. Due to the cost of an audit, some nonprofit organizations may choose to forgo an annual audit. However, some instances may require a nonprofit organization to receive an independent audit. Examples of those situations include contractual agreements, federal, state, or local government requests, spending of \$750,000 or more of Federal funds, grant proposals, and banks (National Council of Nonprofits, 2018).

Financial reporting requirements under FASB. Nonprofit organizations are required to prepare three annual financial statements: (a) statement of financial position, (b) statement of activities, and (c) statement of cash flows (FASB, 1993). The statement of financial position and the statement of activities are prepared on the accrual basis. The purpose of the financial statements is to provide relevant information for donors, creditors, and others who provide resources to the organizations (FASB). Information presented in the financial statements should assist users with assessment of the services provided, the organization's ability to continue to

provide those services, and management's performance, including their stewardship responsibilities.

The statement of financial position reports the nonprofit organization's assets, liabilities, and net assets as of the end of the fiscal year. Assets and liabilities are reported in order of liquidity. Net assets represent the amount of assets in excess of liabilities (Copley, 2015). Prior to fiscal years beginning after December 15, 2017, net assets were classified in three categories: permanently restricted, temporarily restricted, and unrestricted net assets. This allowed users of the financial statements to see the resources that were available for use and the amounts that were restricted temporarily and permanently pertaining to their use. In an effort to simplify the net asset categories, FASB issued new rules for nonprofit organizations that reduced the net asset classifications from three categories to two for fiscal years beginning after December 15, 2017 (FASB, 2016). The new net asset categories are net assets with donor restrictions and net assets without donor restrictions (Mulherin, 2016; Tysiac, 2016). This change is intended to allow users of the financial statements to see the resources that are available for use and the amounts that are restricted pertaining to their use without the confusion of temporary or permanent restrictions (FASB).

The statement of activities reports revenues (including support), expenses, gains, losses, and reclassifications that occurred during the nonprofit organization's fiscal year (Copley, 2015). The revenues, expenses, gains, losses, and reclassifications are required to be provided for each class of net assets (FASB, 1993). Revenues, gains, and support are required to be reported by type. Expenses are required to be reported by functional classification directly on the statement, as a separate statement, or in the accompanied footnotes for either all fiscal years beginning on or before December 15, 2017 (FASB, 1993, 2016). The new FASB rules require expenses be

reported by both functional classification and the nature of the expense as well as an analysis of expenses by both functional classification and nature (Tysiac, 2016). The nonprofit organizations may choose to report on the face of the statement of activities, as a separate statement, or in the accompanied footnotes (FASB, 2016).

The statement of cash flows reports the net cash used by or provided by operating, investing, and financing during the fiscal year (Copley, 2015). The statement provides users with information pertaining to the cash receipts and payments during the period reported that could be analyzed with the statement of activities for the same period (Patton, Patton, & Ives, 2019). Prior to the new FASB rules, nonprofit organizations were allowed to utilize either the direct or the indirect method, but were required to include the indirect reconciliation when using the direct method (FASB, 2016). The new FASB rules continue to allow nonprofit organizations to utilize either the direct or the indirect method for the statement of cash flows, but removes the requirement to provide the indirect reconciliation with the direct method (FASB).

Summary. The data gathered for this study were from fiscal years beginning on or before December 15, 2017. The new FASB changes did not affect the data analysis and findings. Therefore, the format of the data utilized was consistently prepared based on the prior reporting regulations.

IRS reporting requirements. Nonprofit organizations are required to file an annual information return with the IRS. This return provides information to the IRS pertaining to the organization's activities and financials and is required to be available for public inspection. The nonprofit organizations are also required to disclose any "significant" asset diversion identified during the year (IRS, 2017). There are three reporting options for the IRS annual information return filing requirements: Form 990, Form 990-EZ, and Form 990-N depending on the nonprofit

organization's gross receipts and assets. Form 990 is required if a nonprofit organization has gross receipts of \$200,000 or more or total assets of \$500,000 or more. If a nonprofit organization typically has gross receipts of \$50,000 or less, it is required to submit Form 990-N, which is an electronic notice. A nonprofit organization with gross receipts of more than \$50,000 but less than \$200,000 or total assets of less than \$500,000 is required to file Form 990-EZ. However, certain nonprofit organizations, such as churches and specific church-affiliated organizations are granted an exception for the filing requirements (IRS).

Summary. The U.S. nonprofit organizations utilized for this study were all subject to the same FASB and IRS reporting requirements. Therefore, the financial information provided by the nonprofit organizations should be reported in a consistent manner with the FASB and IRS reporting requirements. Thus, the data collected by the researcher should be comparable among the sample of nonprofit organizations.

Sources of Revenues and Support

Nonprofit organizations rely on support from diverse sources (Wilsker & Young, 2010). The different forms of income and support vary depending on the purpose and mission of the nonprofit organization. Von Schnurbein and Fritz (2017) discussed four main categories of income sources: (a) contributions from private individuals and corporations, (b) governmental income from grants, contracts, and services, (c) income generated, and (d) investment income.

Public, tax-exempt nonprofit organizations depend largely on public support. They may have revenues and support in the form of cash and noncash including contributions, gifts, grants, and program revenues. The IRS requires nonprofit organizations to report revenues and support in the following categories: contributions and grants, program service revenue, investment income, and other revenue (IRS, 2017). For federal tax reporting purposes, nonprofit

organizations must report the amount received from the general public and other foundations separate from amounts received from the government. This helps users to distinguish the support received from individuals, corporations, trusts, estates, and other nongovernmental entities versus governmental units and related organizations.

Nonprofit organizations may receive program revenue, which includes income earned by the organization for providing goods and services. Other sources of income for nonprofit organizations may include investment income, royalties, rental income, gains (and losses) on investments, fundraising events, and sales of inventory. The income received each year is reported by source on the organization's annual IRS Form 990, part VIII.

Summary. It is valuable for nonprofit organization stakeholders to access this financial data in order to understand the sources of income and support for the organizations.

Management utilizes this data for fiscal management and planning purposes. Donors and other stakeholders also use this data to assess the financial health and stability of the organization as well as management's performance.

Functional Expense Classifications

The three main expense functional classifications used by nonprofit organizations for both FASB and IRS requirements are program service, management and general (administrative), and fundraising. These classifications depict the primary purpose of the expenses, which helps facilitate assessment of efficiency. Program service (or program) expenses consist of expenses for activities directly related to furthering the organization's mission/purpose (IRS, 2017). For example, management and general (administrative) expenses consist of expenses related to the organization's operations and management (IRS). These

expenses are often referred to as the administrative or overhead expenses. Fundraising expenses consist of expenses related to soliciting contributions, gifts, and grants (IRS).

Summary. It is very important for organizations to report expenses in the appropriate category because those categories are often used to assess the organization's efficiency (Bourassa & Stang, 2016; Copley, 2015; Kim, 2017; Tinkelman & Donabedian, 2007). There is much public scrutiny for nonprofit organization spending. In general, it is favorable to spend the majority of a nonprofit's funds on program expenses, rather than administrative and fundraising expenses (Copley, 2015). The program expense ratio is most commonly used as a means of assessing a nonprofit organization's efficiency (Copley).

Issues and Challenges in Nonprofit Organizations

Nonprofit organizations face unique issues and challenges due to their nature and purpose. Management of nonprofit organizations face the challenge of balancing the needs of all stakeholders with the needs of the organizations. The management of nonprofit organizations also have a duty to be a good steward and agent of the resources contributed by donors. This may be difficult to assess for some nonprofit organizations due to limited information available. If donors perceive mismanagement or issues that negatively impact a nonprofit organization, then they may stop supporting the organization. This section provides a discussion of the following issues and challenges facing nonprofit organizations: (a) agency problem, (b) stewardship and nonprofit management conflicts, (c) revenue and expense management, (d) pressure to manage expense ratios, (e) weak internal controls, (f) limited data for assessment, (g) regulatory issues, and (h) donor signals.

Agency Problem

The agency problem, also referred to as the principal-agent problem, may arise when the goals and desires of the principal and agent differ and it is difficult to verify the behavior of the agent (Eisenhardt, 1989). The principal delegates control over something to the agent who is trusted to carry out duties in the best interest of the principal (Bernstein et al., 2016). In the case of nonprofit organizations, the principals are the donors, and the agents are the management of the nonprofit organizations. Management of nonprofit organizations are entrusted with resources and expected to utilize them in the manner set forth by the principals either via a contract or according to the accepted practices based on the missions of the organizations. Jensen and Meckling (1976) explained if both the principal and agent are "utility maximizers" then they may act in their own self-interest, which could result in the agent not acting in the best interest of the principal. There are many issues that may impact the agency problem including: (a) goal asymmetry, (b) risk asymmetry, (c) information asymmetry, (d) management incentives, and (e) financial management pressure.

Goal and risk asymmetry. Tan and Lee (2015) described three types of risk that should be addressed to help alleviate the agency problem: (a) goal asymmetry, (b) risk asymmetry, and (c) information asymmetry. Goal asymmetry occurs when the principal perceives that the agent's goals and interests differ from those of the principal (Tan & Lee). Risk asymmetry exists when the principal perceived that the agent's attitudes towards risk differ from those of the principal (Tan & Lee). For nonprofits, donors (i.e., principals) expect management of nonprofits (i.e., agents) to have similar goals and interests and to makes similar risk-based decisions. If donors perceive that is not the case, then it may cause them to lose trust in the nonprofit

management. The loss of trust could cause donors to decrease or stop their support of the nonprofit organizations.

Information asymmetry. The agency problem is further exacerbated due to information asymmetry (Tan & Lee, 2015). Information asymmetry can arise in nonprofits due to agents having possession of the information and the principals only having access to limited information as disseminated by the agents (Tan & Lee). Newton (2015) explained how weaker monitoring mechanisms in the nonprofit sector can cause more severe agency problems. As discussed above, the only required publicly available information is the IRS Form 990 unless there is a contractual agreement for additional information. This makes it difficult to monitor spending and to assess the overall efficiency of the nonprofit organization.

Tillotson and Tropman (2014) discussed the ability of nonprofit management to create information asymmetries for the donors and for the board of directors. The board of directors is responsible for management and oversight of CEO performance including oversight of financial management, legal responsibilities, and alignment of activities with the organization's mission. If management of nonprofit organizations are able to create additional information asymmetry perhaps through trust in their relationship with the board of directors, it could make effective monitoring by the board more difficult. If the board is not able to effectively monitor management's behavior and the performance of the organization, then it could lead to instances of problematic executive behavior, including fraud, waste, and abuse (Tillotson & Tropman).

Findings of Felix, Gaynor, and Williams (2017) indicate trust in the nonprofit setting may provide opportunities for management of nonprofit organizations to engage in opportunistic behaviors. Felix et al. discussed how a lack of adequate oversight may further exacerbate the opportunistic behaviors. A lack of monitoring and enforcement in nonprofit organizations may

contribute to a lower incentive for management to respect the trust relationship. The study found areas with higher trust were more likely to overspend on administrative costs which may indicate inefficient resource allocation (Felix et al.). Spillan and Ziemnowicz (2011) discussed five cases of fraud in nonprofit organizations where the character and competence of the CEOs and board of directors were a weakness. In these cases, the pursuit of the executive's personal gain (opportunistic behavior) overshadowed the goals of the nonprofit organizations (Spillan & Ziemnowicz). The boards were unaware of any wrongdoing perhaps due to the lack and/or inefficiency of internal controls to monitor performance.

The inability to effectively monitor performance contributes to "opportunity" in the fraud triangle. The fraud triangle is a theory created by Cressey (1973) to explain the circumstances that are conducive to the perpetration of fraud. According to the fraud triangle theory, in order to perpetrate fraud a person must have (a) pressure to perpetrate fraud, (b) opportunity to perpetrate fraud, and (c) ability to rationalize fraud (Cressey). Opportunity to perpetrate fraud is the means in which the perpetrator is able to commit and conceal the fraud. Dellaportas (2013) described some perceived opportunities to commit and conceal fraud such as lack of internal controls, ability to circumvent internal controls, inability to assess performance, and information asymmetry due to lack of access. Ndofor, Wesley, and Priem (2015) explained opportunities for fraud might arise due to information asymmetries, referred to as "lack of transparency" between upper management and shareholders (p. 1774). In the case of nonprofit organizations, the information asymmetry or lack of transparency can make it difficult to monitor and hold management accountable, which contributes to the opportunity for management to commit and conceal fraud.

Dellaportas (2013) discussed how a perpetrator's privileged position could create an opportunity and capacity to perpetrate fraud. Lenz and Graycar (2016) discussed a fraud case where the corporate governance had a high level of trust in the offender and as such did not demand accountability. They explained that the pre-trial judge considered this lack of oversight combined with the high level of trust as a "golden opportunity" for the perpetrator to commit and conceal the fraud (Lenz & Graycar). This highlights the importance of adequate information sharing and oversight of the management of nonprofits.

De Armond and Zack (2017) discussed fraud risk in nonprofit organizations and steps that can be taken to reduce the risk. One way to combat fraud, they explained, is to have more guidance and oversight from leaders, including a board of directors, of nonprofit organizations (De Armond & Zack). More involvement will help leaders, including board members, to provide appropriate oversight and increased communication. If the nonprofit organization obtains an audit, the board should have open discussions with external auditors about any internal control weaknesses and any opportunities for management override of controls (De Armond & Zack). Another step to help reduce the opportunity for fraud would be to have an audit committee to provide further financial oversight (Morales & Carabello, 2014).

Management incentives and pressures. The agency problem poses a risk that people could behave in an opportunistic way to benefit themselves at the expense of the principal (Dion, 2016). Some examples of this would be compensation and bonus incentives, contracts, and other business relationships. Management incentives are very important to the agency problem and fraud risk. Financial management pressures and unethical practices could lead one to perpetrate fraud while acting in self-interest. As discussed by Dion, management may try to obtain their annual bonus at any cost, including unethical decisions made in self-interest. One example is

negotiating a business contract that has short-term benefits, but is not favorable long-term to the nonprofit organization in order to obtain favorable results and receive a bonus. Therefore, it is important to design management incentives that are tied closely to the mission and goals of the nonprofit organization in an effort to align the agent's interests with that of the principal. This may help to alleviate the agency problem and decrease fraud risk.

Stewardship and Nonprofit Management

As previously discussed, management of nonprofit organizations are responsible for the appropriate use of resources to accomplish the organizations' missions. Donors trust that management will appropriately utilize resources according to the best interests of the agents/stakeholders rather than their own self-interests. Donaldson and Davis (1991) explained their theory that management will act in the best interest of the stakeholders and agents because of their desire to be good stewards of the resources entrusted to them and to do their job well. This is referred to as the stewardship theory and implies that management is committed to the mission of the organization above his or her own self-interest. Davis et al. (1997) discussed how principals might evolve to and from agency and stewardship relationships over time as their interest alignment changes.

Summary. In nonprofit organizations it is imperative that management act in the best interest of the organization and its stakeholders. According to the stewardship theory, management will be committed to the mission of the organization above their own self-interest in order to do their job well. However, management may not always act in the best interest of the organization rather than their own self-interest. In order to instill and foster a stewardship relationship for management of nonprofit organizations, steps should be taken to tie management

compensation and rewards to the desired behavior. Ensuring appropriate alignment of management incentives and organizational objectives may help to reduce fraud risk.

Revenue and Expense Management

Management of nonprofit organizations are responsible for management of the organizational resources in a manner that is sustainable and achieves the missions of the organizations. They must focus on both financial stability and capacity (for growth; Von Schnurbein & Fritz, 2017). Financial management and planning for nonprofit organizations may include analysis and management of revenues and expenses. There is a common misconception that nonprofit organizations are not allowed to, nor should, generate a surplus of revenues and support over expenses. However, there are many reasons for nonprofits organizations to do so including: the need for working capital, reserves for long-term planning (including expansion and growth), maintenance of assets, retirement of debt, and long-term viability (Mayer, Wang, Egginton, & Flint, 2014). Donations may also be less predictable, so management may desire to strategically save funds in years of large donations in order to "smooth revenues" (Duquette, 2017).

Duquette (2017) discussed the challenges revenue volatility can create for nonprofit organizations, particularly their sustainability. Donations may be dependent upon the economy, popular issues, critical issues, and other areas. Grants may be short-term and dependent on certain outcomes. If nonprofit organizations do not have consistent and sufficient funding, they may not survive (Kim, 2017). Chang and Tuckman (1994) explained how vital it is for nonprofits to diversify their revenues among contributions/donations, program revenues, and other sources to help mitigate volatility. However, it may be difficult for nonprofit organizations to diversify their revenue sources because they may be specific to their sector and out of their

control (Wicker, Longley, & Breuer, 2015). For example, the nonprofit organization may not have the ability to generate program revenues nor be eligible for grants due to the nature of the organization. Organizations that are reliant on mostly donations have greater revenue volatility (Carroll & Stater, 2009). Therefore, reputation and appropriate management of donor monies is even more vital to these organizations, and steps should be taken to ensure appropriate management of the resources.

Summary. Nonprofit organizations must generate adequate revenues and control expenses in order to maintain sufficient current and future cash flows for continued operations. Due to the reliance on public support, it is imperative that nonprofit organizations are good stewards of their resources. If the organization's reputation is damaged due to a case of fraud, it may further damage the organization by causing donors to decrease or stop their funding.

Pressure to Manage Expense Ratios

Nonprofit organizations face pressures and incentives to meet financial performance levels for public perception including governing boards, donors, governmental agencies, and internal management (Bradach, Tierney, & Stone, 2008). One of the most common financial efficiency measures is the program expense ratio. This ratio provides the proportion of expenses that are spent directly on the programs of the nonprofit organization's mission and is often used by watchdog agencies to assess nonprofit organizations. Chikoto and Neely (2014) discussed the tendency of nonprofit watchdogs to perceive high overhead costs and non-program expenses as indicators of inefficiency and waste. These perceived inefficiencies have been associated with reduced donor confidence and support (Greenlee & Brown 1999; Jacobs & Marudas, 2009; Mankaney & Tinkleman, 2007). Kim (2017) explained donors generally prefer lower overhead expenses. Previous studies have demonstrated nonprofit organizations considered to be more

efficient receive larger contributions (Greenlee & Brown, 1999; Jacobs & Marudas, 2009; Mankaney & Tinkleman, 2007; Marudas, 2004; Tinkleman, 1998; Trussel & Parsons, 2008). Thus, resulting in pressure for management of nonprofit organizations to manage overhead expenses and expense ratios in order to retain donor support and remain sustainable.

The intense competition among nonprofit organizations for resources makes expense management very important. However, this focus can lead to management of nonprofit organizations manipulating the numbers to appear as favorable as possible (Garven et al., 2016). Wing, Gordon, Hager, Pollack, and Rooney (2006) explained that functional expense reporting represents a ticking time bomb due to problematic accounting methods that may misrepresent the amounts reported for functional expenses. Nonprofit organizations may achieve more favorable financial indicators by misreporting or misclassifying expenses (Garven et al.). Nonprofit organizations may attempt to increase their program expense ratio by reporting zero fundraising and/or administrative expenses (Yetman & Yetman, 2012). Krishnan et al. (2006) found evidence of intentional misreporting of fundraising expenses in the nonprofit organizations studied who reported zero fundraising expenses. Results also demonstrated a positive association of expense misreporting to managerial incentive measures (Krishnan et al.).

Lecy and Searing (2015) explained that the intense pressure to manage the program expense ratio may cause a practice of cost-cutting which could in turn harm the organization. They further explain how this practice of cost-cutting is considered a starvation cycle to reduce overhead expenses in order to gain a competitive advantage (Lecy & Searing). The starvation cycle arises from donor expectations becoming more unrealistic over time which in turn cause the nonprofit organization to continually cut overhead expenses until the organization is not able to function appropriately (Lecy & Searing).

Summary. Management may have pressure to manage expense ratios in order to remain favorable under public scrutiny. This project provides analyses of expense ratios and reported instances of fraud. The researcher investigated any association with expense ratios and reported fraud in order to better address fraud risk assessment and the prediction of fraud.

Weak Internal Controls

As previously discussed, internal control is a process utilized to provide "reasonable assurance" that objectives related to the efficiency and effectiveness of operations, reliability of financial reporting, and compliance with applicable regulations are met (AICPA, 2013). Internal controls are the specific processes in place related to functions in an organization to help ensure the organization's objectives are met. Mangala and Kumari (2017) described the purpose of internal controls as to secure the organization's assets, improve the reliability of accounting records, and to prevent and detect fraud.

Due to their nature, nonprofit organizations generally have weaker internal controls as compared to for-profit organizations (Dzomire, 2014; Greenlee et al., 2007; Spillan & Ziemnowicz, 2011). Saat, Mohamed, Zakaria, and Omar (2013) discussed how nonprofit organizations are focused more on providing their services than on an internal control system. Nonprofit organizations may have limited resources available which they may choose to utilize for their programs rather than to address internal controls (Marks & Ugo, 2012).

Nonprofit organizations are often built on trust and rely on volunteers to operate.

Volunteers may lack knowledge and experience (Marks & Ugo, 2012). This may lead to a high turnover rate which can hinder the ability to adequately train volunteers and may make it difficult to effectively implement and maintain internal controls. The management structure of nonprofit organizations may also contribute to weaker internal controls because management

generally consists of one individual who may lack the expertise needed for effective financial management (Snyder, Andersen, & Zuber, 2017). Weaker internal controls increases fraud risk for nonprofit organizations.

Limited Data for Assessment

The public's ability to access relevant information for nonprofit organizations is key to transparency (Hilton, 2016). Donors, volunteers, management, governing board members, and other external parties utilize the financial data of nonprofit organizations to make decisions. However, extensive financial information may not always be available. Nonprofits are only required to make their IRS Form 990s available to the public (Clevenger, 2009). They are not required to make their audited financial statements available to the public. This may be problematic because users of nonprofit organization data have limited information upon which to base their decisions and evaluations. The audit report could help users to assess the material accuracy of the nonprofits' audited financial statements, which they could then use to compare to the information reported on the Form 990. However, the audit report may not include information pertaining to fraud, waste, and abuse because those activities may not have been detected during the audit.

Watchdog organizations such as Charity Navigator have compiled information from the nonprofits' IRS Form 990s and information publicly available on the organizations' websites to assess their financial health, accountability, and transparency (Cnaan, Jones, Dickin, & Salomon, 2011). Much of the data are based on financial metrics, spending ratios and information pertaining to the organizations' board, policies, transparency pertaining to loans, executive compensation, and audited financial statements. The information compiled by Charity Navigator is then utilized to calculate ratings for the nonprofit organizations. These ratings then allow

users to compare the nonprofits with other charities. Charity Navigator (2017) claimed the ratings allow donors to contribute with more confidence and imply that donors who support the highly rated charities are supporting more financially healthy, accountable, and transparent organizations. The information provided by the watchdog organizations is very valuable and useful. However, it may not guarantee users can avoid contributing to nonprofits that may be diverting or misusing funds for a purpose other than its mission because instances could exist that may not have been discovered yet.

Regulatory Issues

Nonprofit organizations are regulated primarily by the IRS requirements (including Form 990) and nonprofit laws in each state of incorporation (Petrovits et al., 2011). The growing number of nonprofit organizations has made it difficult for the regulatory oversight to keep up (Morrison, 2016). Government agencies are not able to effectively regulate the nonprofit sector due to their limited oversight and enforcement capabilities (Lloyd, 2005; Morrison). Self-regulation has been found in some countries to be the best way to provide for more transparency and accountability in the nonprofit sector (Similon, 2015). However, self-regulation is also hard to assess and enforce, which makes oversight of the nonprofit sector a public concern (Morrison). The development of fraud risk assessment and prediction tools specifically for the nonprofit sector may

Donor Signals

Donors provide an important source of capital for nonprofit organizations. Therefore, anything that damages a nonprofit organization's reputation could result in donor mistrust and reduced contributions. Hou, Zhang, and King (2017) found trust damage impacted individual donor satisfaction which in turn impacted future giving. Decisions to contribute to nonprofit

organizations vary for donors. Donors' perceived benefits and perceived risks can influence their decision to give to a nonprofit organization (Hou et al.). It is important for nonprofit organizations to ensure donors are able to perceive benefits from their contributions, versus risk that the nonprofit organization would bring negative value (Hou et al.). This means that any accusations and/or instances of fraud, waste, or abuse could damage a nonprofit organization's reputation and cause donations to substantially decrease, threatening survival.

Fraud

Fraud is defined by Cornell Law School's Legal Information Institute as "deliberately deceiving someone else with the intent of causing damage" ("Fraud," n.d.). The AICPA, Institute of Internal Auditors (IIA), and ACFE define fraud as "any intentional act or omission designed to deceive others, resulting in the victim suffering a loss and/or the perpetrator achieving a gain," (Crumbley et al., 2017, pp. 3-4). Rufus, Miller, and Hahn (2015) explained the commonality among definitions of fraud is that fraud is a "crime of intent" (p. 145). According to Wells (2014), there are four legal elements of fraud. The four legal elements of fraud are: (a) intentionally making a false representation or omission of a material fact, (b) knowledge that the statement was false, (c) reliance on the statement by the victim, and (d) damages or losses suffered by the victim (Wells).

Types of Fraud

The ACFE (2018) describes three main types of fraud, (a) corruption, (b) asset misappropriation, and (c) financial statement fraud. Corruption is the wrongful use of one's influence in business transactions for their own personal benefit (Saksena, 2010). Asset misappropriation is the theft, waste, or abuse of organizational assets. Asset misappropriation is the most common type of fraud (ACFE) and includes theft of cash or inventory and other assets,

skimming revenues, fraudulent disbursements, and embezzlement (Skalak, Golden, Clayton, & Pill, 2011). Financial statement fraud is the manipulation, falsification, or alteration of accounting records. It includes any intentional omission or misrepresentation in the financial statements of data and/or disclosures and any intentional misapplication of accounting principles to misrepresent financial statements and deceive users of that information (Skalak et al.).

According to the ACFE, financial statement frauds are the least common, but most costly.

Fraud in Nonprofit Organizations

Archambeault et al. (2015) classified nonprofit organization frauds in two main categories: (a) frauds where the nonprofit organizations victimized the public and (b) frauds where an individual within the nonprofit organizations victimized the organization. Frauds have also been classified as against the nonprofit organization (i.e., asset theft) and those conducted by the organization (i.e., misreporting of financial information; Greenlee et al., 2007). For purposes of this discussion, frauds were classified as internal fraud and financial reporting fraud.

Internal fraud. The term internal fraud is used to describe frauds where an individual(s) within the organization victimized the organization. The ACFE (2018) found the most common frauds in nonprofit organizations to be internal frauds, including check tampering, billing fraud, expense reimbursement fraud, and corruption/abuses of one's position. Check tampering includes altering the payee and/or amounts of checks. Billing fraud may include fictitious invoices from fictitious vendors and/or for fictitious goods or services. Expense reimbursement fraud may occur when an employee inflates expenses and submits false expense claims (Grippo, 2012). Corruption or abuse of one's power could give someone the opportunity to devise transactions for personal benefit rather than for the good of the organization, particularly in cases of conflict of interest.

Instances of skimmed funds, credit card abuse (for personal purchases), and the theft of cash and inventory are also issues in nonprofit organizations (Dzomira, 2014; Zack & De Armond, 2015). Instances of presigning checks due to a limited staff provides opportunity for theft and misuse of funds (Baker, 2016). The main revenue stream in nonprofit organizations is contributions. Contributions are non-reciprocal, which means there is no exchange of goods or services, thereby making any cash received a target for theft because the revenue is difficult to control and verify (Baker). Skimmed funds occur when a person collecting the money is able to steal cash and conceal the theft because the transaction is not recorded in the accounting records. Since there is no record of the transaction, there may not be a way to know that the money was ever there, nor that it was subsequently stolen.

Financial reporting fraud. The term financial reporting fraud was used to describe fraud conducted by the nonprofit organization to misreport financial information. Pressure to achieve financial targets is one of the top motivations for financial statement fraud (ACFE, 2018). As discussed previously, nonprofit organizations face pressures and incentives to meet financial performance levels for public perception, including governing boards, donors, governmental agencies, and internal management (Bradach et al., 2008). Sometimes nonprofit organizations may misclassify expenses as program expenses when they should have been reported as fundraising or administrative in order to falsely inflate their program expense ratio (Zack & De Armond, 2015). They may also inflate the fair value of goods and services received and incorrectly gross up fundraising activities to attempt to deceive the users of their financial data (Maguire, 2017; Zack & De Armond).

Contributing Factors for Fraud in Nonprofit Organizations

The three factors in the fraud triangle are: (a) motive, (b) opportunity, and (c) rationalization, also described as lack of integrity (Cressey, 1973). Motive and rationalization are both related to the perpetrator. A perpetrator has motive to perpetrate the fraud and possesses a lack of integrity that would allow them to rationalize the act committed. According to Cressey, if the three factors are present in an organization, it is likely that fraud will occur, but the absence of these factors does not mean that fraud is also absent (Crumbley et al., 2017).

As explained above, organizations have limited control over the motive and rationalization of fraud perpetrators. However, they may be able to control the opportunity of others to perpetrate fraud with an effective system of internal controls, appropriate staffing, and oversight. When evaluating opportunity for fraud in nonprofit organizations, there are many aspects that may make them more vulnerable to fraud such as (a) a culture of trust, (b) weaknesses in board oversight, (c) weaknesses in management, (d) inadequate knowledge and training of staff, (e) weak internal controls, and (f) risk of reputation damage.

Culture of trust. Research has demonstrated nonprofit organizations are more vulnerable to fraud due to the nature of their mission and culture of trust (Archambeault et al., 2015; Greenlee et al., 2007; Marks & Ugo, 2012). A culture of trust makes nonprofit organizations more vulnerable to fraud because it may be assumed that everyone is there to help accomplish the nonprofit mission and would not perpetrate fraud (Snyder et al., 2017). However, countless news articles demonstrate how often that trust is taken advantage of in nonprofit organizations (Associated Press, 2017; Harris, Petrovits, & Yetman, 2017; Kastner, 2018; McSwain, Wukich, & McSwain, 2015; Office of the Inspector General Social Security Administration, 2018; Simton, 2018; Smith, 2017).

Weaknesses in board oversight. Nonprofit organizations tend to rely on culture of trust and as a result may not properly invest in good governance (Archambeault et al., 2015; Baker, 2016; Greenlee et al., 2007). Governance of nonprofit organizations consists of the board of directors and the executive management. Board members of nonprofit organizations are often volunteers who lack the adequate financial management expertise needed to provide adequate oversight (Burks, 2015; Snyder et al., 2017). Weak corporate governance provides opportunity for management to perpetrate and conceal fraud (Brazel, Jones, & Zimbelman, 2009).

Weaknesses in management. In addition to weaknesses in board governance, daily financial management may be under the control of one person without appropriate controls and oversight (Burks, 2015; Gallagher & Radcliffe, 2002). Executive control without appropriate controls and oversight creates an element of opportunity for fraud and errors to occur. This is evidenced by frauds perpetrated by those in management roles of nonprofit organizations. Burks found that the nonprofit error rate for financial statements was almost twice as high as similar sized for-profit corporations, demonstrating the need for improved skills to provide better financial management.

Inadequate staff knowledge and training. Often the volunteers that nonprofit organizations rely on may lack knowledge, formal training, and experience to effectively conduct their duties (Marks & Ugo, 2012). Lack of knowledge, training, and experience can increase the risk of errors, fraud, waste, and abuse. Saat et al. (2013) found nonprofit organizations lacked skilled accounting staff and had high staff turnover. Turnover can limit their ability to adequately train volunteers and may make it difficult to effectively implement and maintain internal controls.

Weak internal controls. An effective system of internal controls helps organizations to operate efficiently, safeguard assets, and comply with laws, regulations, and contracts (Peltier-Rivest & Lanoue, 2015). Implementation of effective internal controls helps organizations achieve their objectives and reduce the risk of fraud, mismanagement, and error by enhancing oversight and decreasing misconduct (Peltier-Rivest & Lanoue). Internal controls are important to an organization because they help to reduce the opportunity one has to perpetrate fraud without being detected. The ACFE found that internal control weaknesses were responsible for approximately 50% of the frauds reported (2018). Therefore, a lack of or weak internal controls may be a significant contributing factor for fraud (Siregar & Tenoyo, 2015; Zakaria, Nawawi, & Salin, 2016). Donelson, Ege, and McInnis (2017) found a strong association between material internal control weaknesses and future fraud discovery. They explained the link could be attributable to weak internal controls that give management greater opportunity to commit fraud or signals a management characteristic that is more susceptible to fraud (Donelson et al.).

Nonprofit organizations often have weaker internal controls than for-profit organizations (Greenlee et al., 2007; Spillan & Ziemnowicz, 2011). Due to limited resources, nonprofit organizations often do not have the resources needed to have formal internal controls in place, including adequate segregation of duties and approvals (Felix et al., 2017). Segregation of duties is an internal control designed to help prevent one person from having the opportunity to perpetrate fraud or an error and not be detected by separating the functions of authorization, record keeping, custody of assets, and reconciliation (Louwers, Ramsay, Sinason, Strawser, & Thibodeau, 2015). Nonprofit organizations may not have the ability to hire an adequate number of staff to allow for appropriate segregation of duties to effectively deter fraud. If staff and

management do not have the knowledge, experience, and training needed, then they may not be able to provide the duties needed for effective oversight designed in the internal controls.

As explained above, weak internal control systems create an opportunity for fraud and reduce the risk of being detected and prevented (Donelson et al., 2017; Lokanan, 2014; Skaife, Veenman, & Wangerin, 2013; Trompeter, Carpenter, Desai, Jones, & Riley, 2013). Due to weaker internal controls, nonprofit organizations have an increased risk of fraud and errors (Dzomira, 2014). Burks (2015) found public charities reported errors at a significantly higher rate than that reported by U.S. publicly traded companies. The study indicated a strong positive association between the error rate and internal control deficiencies (Burks).

Reputation risk. Nonprofit organizations are highly susceptible to the impact of negative publicity. This makes them more reluctant to report and prosecute fraud when it occurs in an effort to reduce further damages. The threat of prosecution is typically a deterrent to potential fraudsters. However, if a perpetrator can find organizations such as nonprofits and churches that are less likely to detect and prosecute fraud, then they may be able to perpetrate fraud with limited or no negative consequences. The reduced likelihood of reporting and prosecuting fraud increases the vulnerability of nonprofit organizations (Baker, 2016).

Significance of Fraud as a Problem

Numerous studies have indicated an increase in the frequency and severity of fraud in organizations of all sizes across all industries. The economic impact of the losses from fraud has been significant (Free, 2015). Mangala and Kumari (2017) described fraud as one of the most expensive crimes in the corporate world. Fraud causes losses for the organization, stakeholders, and can even impact the market. In 2018, the ACFE discussed 2,690 cases of occupational fraud that occurred in over 125 countries. It is estimated that the average organization loses five

percent (5%) of its annual revenues for a median loss of \$130,000 (ACFE). The median loss can have a disastrous impact on small firms (Mangala & Kumari). The five percent (5%) loss, if applied to the 2013 estimated Gross World Product of \$79.6 trillion, would result in a projected loss of almost \$4 trillion (ACFE). Fraudulent financial reporting cases investigated by the United States Securities and Exchange Commission increased from 294 in the 1987-1997 report to 347 in the 1998-2007 report (Beasley, Carcello, Hermanson, & Neal, 2010). The median amount of the frauds increased from \$4.1 million in the 1987-1997 report to \$12.05 million in the 1998-2007 report (Beasley et al.).

Significance of Fraud as a Problem in Nonprofit Organizations

Nonprofit organizations are increasingly becoming a large force in the United States economy, employing more than 10% of the workforce, contributing an estimated \$887.3 billion to the U.S. economy, and administering contributions over \$335 billion in 2012 (Snyder et al., 2017). The economic impact and services provided by nonprofit organizations are vital to society. Instances of fraud threaten the existence of nonprofit organizations and their ability to carry out their missions (Archambeault & Webber, 2018; Bradley, 2015).

Stephens and Flaherty (2013) explained that one sixth of all major embezzlements occur in the nonprofit industry. Nonprofit organizations face the risk of fraud perpetrated by volunteers and management (Groble & Brudney, 2016). Fraud can occur in small organizations as well as large well-known charities. Examples of embezzlement or internal fraud have been found in youth league organizations (Gordon, 2014; Smith, 2017; Wojcik, 2011), charities supporting veterans and military families (Associated Press, 2017; Ross, Hill, & Mosk, 2013; Simton, 2018; U.S. Department of Justice, 2016), churches (McSwain et al., 2015), and organizations providing assistance to refugees (Osher, 2017) and victims of violence (Office of

the Inspector General Social Security Administration, 2018), and animal rescue organizations (Kastner, 2018). Some larger nonprofit frauds have been: (a) \$43 million of improper payments to grantees at The Global Fund, (b) \$26 million endowment write-off at New York State University by a fraudulent investment manager, (c) \$1.5 million employee theft at Memorial Sloan-Kettering Cancer Center, and (d) \$1.2 million embezzlement from United Way by the CEO, CFO, and President (Harris et al., 2017). Losses from fraud in nonprofit organizations inhibit their ability to provide services by taking resources away from equipment, uniforms, facilities, travel expenses, support services, and other areas (Groble & Brudney). The damage and impact of these losses increases, the longer a fraud goes undetected (ACFE, 2016).

A nonprofit organization may suffer monetary losses from fraud, damage to its reputation, and decreased donations, which could affect the ability of the organization to advance its mission (Archambeault & Webber, 2018; Adena, 2016; Kim, 2017; Peltier-Rivest & Lanoue, 2015). Losses suffered due to fraud reduce the resources available to serve the mission of the organization (Greenlee et al., 2007). For example, patients seeking mental health services in Arkansas may have difficulty accessing them due to a \$2 million fraud (e.g., illegal billings, kickbacks, and bribes) perpetrated by executives of a nonprofit mental health agency (Urbach, 2018). Due to the discovery of this fraud, Medicaid payments to this provider (47 locations in Arkansas) halted, which have significantly impacted people with Medicaid's ability to get the mental health they need (Urbach).

According to the ACFE (2018), nonprofit organizations accounted for approximately nine percent (9%) of the fraud reported and incurred a median loss of \$75,000. Another study conducted by the Washington Post found that over 1,000 nonprofits who filed a Form 990 with the IRS between 2008 and 2012 checked the box on their Form 990s indicating a significant

diversion of assets (Stephens & Flaherty, 2013). Stephens and Flaherty further explained that the study revealed 285 diversions totaling approximately \$170 million in losses were reported in 2009. Nonprofit organizations are required to report incidents of diversions of assets on IRS Form 990 when they exceed the lessor of \$250,000, five percent (5%) of the organization's gross receipts for the tax year, or five percent (5%) of the organization's total assets at the end of the tax year (IRS, 2016). Therefore, incidents falling under these thresholds are not required to be reported, leading one to wonder how many incidents fell below the reporting threshold and as such were not reported.

According to Marquet's (2014) report on active cases of embezzlement in the United States, 7.8% of the 554 cases studied were nonprofit organizations who reported a total gross loss of \$28,977,000 for an average loss of \$673,884. A total gross loss of \$28,977,000 in 2013 is an alarming amount for nonprofit organizations, indicating over \$28 million was diverted and not utilized for the missions of the victim organizations. Perhaps what is even more alarming is that these studies do not represent all the fraud that occurred. Many incidents of fraud go undetected and even when detected, nonprofit organizations often choose not to report incidents of fraud for fear of negative publicity and negative impact on fundraising (Archambeault et al., 2015; Frazier, 2009).

Availability of public oversight provided by watchdog organizations increases the pressure for nonprofit organizations to report information users will find favorable. This increases the likelihood these organizations may misreport expenses in order to remain favorable in the public eye (Garven et al., 2016). Despite existing state and federal guidelines, and in some cases even audits, nonprofit organizations are able to distort commonly used accounting and financial reporting data particularly pertaining to program and fundraising expenses (Neely,

2011). As discussed by Tinkleman (2009), the ability of nonprofit organizations to distort accounting and financial reporting data through management accounting decisions increases pressure on other organizations to also adopt more favorable accounting methods to remain comparable and on fair playing ground. This perception of unreasonable expectations may increase questionable financial reporting data which may distort information donors use to make decisions (Tinkleman).

Sustainability of nonprofit organizations could be threatened by allegations of fraud, waste, and/or abuse of donor monies. As indicated in the interviews conducted by Szper and Prakash (2011), donors are likely to assess the trustworthiness and effectiveness of nonprofits on more than the financial indicators and ratings, but also awareness, popularity, and reputation of organizations. Instances of fraud pose a serious risk to a nonprofit organization's reputation which can impact the nonprofit organization's ability to survive (Archambeault & Webber, 2018). Instances of fraud can decrease donors' trust in the organization which may cause them not to contribute to the organization (Petrovits et al., 2011). Bradley (2015) discussed how other charities and society can also suffer from the residual effect of decreased trust in the whole nonprofit industry. The existence of nonprofit organizations and the services they provide is vital to society. The services provided by nonprofit organizations are in high demand. According to the State of the Nonprofit Sector Survey, demand for nonprofit services is rising faster than their ability to meet it (Nonprofit Finance Fund, 2018). Gose (2018) discussed the shortage of nonprofits needed to meet demand and how it causes those who rely on the services provided by nonprofit organizations to do without.

According to the Giving USA (2018), in 2017, charitable giving exceeded \$400 billion for the first time in the United States. The total giving calculated in 2017 was \$410.02 billion;

\$286.65 billion from individuals, \$66.90 billion from foundations, \$35.70 billion from bequests, and \$20.77 billion from corporations (Giving USA). See figure 3 below for a breakdown of donations by category from Giving USA. As demonstrated by the high demand, it is vital for the nonprofit sector to exist and thrive in order to meet the needs of communities. Instances of fraud could cause nonprofit organizations to lose funding (from contributions) as discussed in more detail below. Without sufficient and consistent funding, they may be forced to limit programs or shut down (Kim, 2017). Therefore, it is vital for nonprofit organizations to take proper cautions to prevent and deter fraud. In doing so, appropriate accountability and assessment measures must be in place for management, directors, auditors, and donors to evaluate.

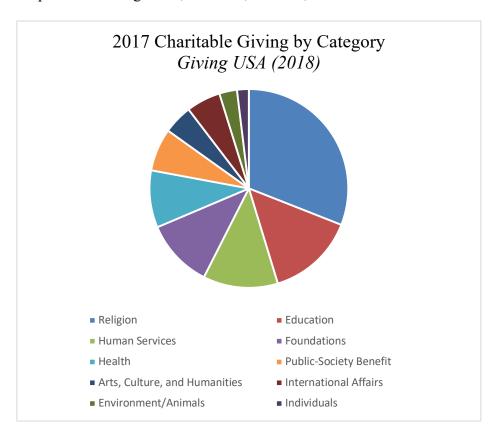


Figure 3. 2017 Charitable Giving by Category (Giving USA, 2018).

Summary. Nonprofit organizations are an important part of the U.S. economy. They not only provide important services for society, but also provide employment opportunities.

Instances of fraud threaten the existence of nonprofits by diverting necessary resources away from the mission of organizations and damaging donor trust. The nature of nonprofit organizations makes them more vulnerable to fraud. Often frauds are not discovered until damage has already occurred. Therefore, it is important to develop better mechanisms to address fraud risk and tools to predict fraud. This will allow organizations to address fraud risk more timely and potentially prevent or decrease damages.

Impact of Donor Mistrust on the Survival of Nonprofit Organizations

In addition to monetary losses, publicized instances of fraud, waste, and abuse can cause irreversible reputation damage (Peltier-Rivest & Lanoue, 2015). Peltier-Rivest and Lanoue discussed how the public often perceives victim organizations as negligent in regard to safeguarding their assets. Hou et al. (2017) examined the effect of trust damage on the giving behavior of individual donors. Findings indicated trust damage contributes to a decrease in perceived benefit and increase in perceived risk of contributing to a nonprofit organization (Hou et al.). The perceived benefit and risk influence a donor's decision to contribute (Hou et al.).

Domanski (2016) discussed the importance of reputation risk for nonprofit organizations. Reputation risk would be impacted by any events that could lead to bad publicity for the organization. The highest level of critical impact identified was the risk of financial fraud (30.6% major impact, 22.1% critical impact) and funds used against the intent of the donor/grantor (30.2% major impact, 23% critical impact; Domanski). The highest categories for external risk were low recognition and weak reputation of organization (40.0% major impact, 2.6% critical impact) and unfavorable publicity (44.3% major impact, 8.9% critical impact). Loss of reputation due to an unethical conduct was also considered an important risk (46.4% major impact, 6.8% critical impact).

Reliance on public support makes donor trust and perception ever more important to the survival of nonprofit organizations. When donors lose trust in nonprofit organizations, they are less likely to contribute to those organizations (Adena, 2016). Jordan, Upright, and Tice-Owens (2016) discussed the importance of crisis management and image restoration strategies with United Way fraud case as an example. Archambeault and Webber (2018) examined the impact of fraud on a nonprofit organization's survival. The findings indicated over one fourth of the 115 nonprofit organizations studied who experienced fraud did not survive within three years after the publicized fraud (Archambeault & Webber). The failure rate was significantly higher than the typical survival rate of nonprofit organizations (Archambeault & Webber). These findings confirm the importance of fraud prevention and early detection to avoid and mitigate the negative impact and reputation risk caused by instances of fraud, waste, and abuse.

Management Role in Combatting Fraud

The main governance structure in nonprofit organizations is the board of directors. It is the board of directors' responsibility to determine the strategic direction of the organization and to establish policies and procedures including internal control and oversight and performance measures (Spillan & Ziemnowicz, 2011). Zhu, Wang, and Bart (2016) found strategic involvement of the board of directors improved the overall performance of the organization. In order for board members to be effective, they must have knowledge and expertise that allow them to be engaged in the financial processes, including review and analysis of financial information (Wellar, 2018). Spillan and Ziemnowicz discussed some instances where the board of directors failed to detect unethical and imprudent conduct due to inadequate oversight and a lack of character and competence among staff and board members.

Executive directors (e.g., CEOs) share in responsibility to reduce fraud risk in nonprofit organizations. It is important for them to be cognizant of organizational objectives as well as implement effective financial controls (Gallagher & Radcliffe, 2002). It is the responsibility of the director to manage the day-to-day operations, obtain organizational objectives, adhere to policies and procedures, and provide oversight of all functions. They should ensure safeguarding and appropriate reporting of items such as: cash receipts and disbursements, petty cash transactions, payroll transactions, fixed asset transactions, and compliance of any applicable restrictions for the use of funds. Ultimately, it is the job of the director/CEO to conduct his/her duties ethically and prudently to meet the organizational objectives (Spillan & Ziemnowicz, 2011).

Summary. Management has a major role for combatting fraud in nonprofit organizations. Management is in the best position to perform risk assessments and instill appropriate policies and procedures. The board of directors also has an important role for combatting fraud through their review and oversight. This project is designed to help provide mechanisms for management and board members to assess fraud risk and prediction of fraud through the use of readily available financial data.

Financial Indicators for the Detection and Prevention of Fraud

A review of the current academic literature was conducted to gain an understanding of the use of financial indicators for the detection and prevention of fraud. The examination of financial indicators pertaining to fraud is widely studied. However, the majority of the research examined has focused on data analysis of for-profit organizations. Much research is based on the utilization of financial data and ratios to construct fraud risk model (Huang, Lin, Chui, & Yen, 2017). There was limited research available pertaining to the detection of fraud in nonprofit

organizations using financial indicators specific to nonprofit organizations (Trussel, 2003). A discussion of (a) the Beneish Model, (b) Benford's Law, (c) Huang, Tsiah, and Lin (2014), and (d) Trussel (2003) is provided below.

Beneish Model

Beneish (1999) developed a mathematical model using eight variables as an indicator of financial statement distortions that could result from manipulations. The eight variables are: (a) days' sales in receivables index; (b) gross margin index; (c) asset quality index; (d) sales growth index; (e) depreciation index; (f) sales, general, and administrative expenses index; (g) leverage index; and (h) total accruals to total assets. Beneish tested the model on 74 public companies that fraudulently manipulated earnings and found the model was able to identify approximately half of the companies involved in earnings manipulation before the date of public discovery. This model is limited for use of public companies and for detection of overstatement of earnings, not understatements. Oltean (2016) demonstrated the proposed use of an econometric model utilizing the Beneish model to identify companies with fraud risk in digital analysis, and data mining used by auditors to determine audit risk and samples. Repousis (2016) studied the use of the Beneish model in detection of corporate financial statement fraud in Greece.

Benford's Law

Benford's law analysis is used in the identification of fraud using financial metrics.

Benford (1999) discovered that beginning digits in naturally occurring numbers are not random, but instead follow a predictable pattern based on the formula he developed. Benford developed a probability distribution for the leading digit of naturally occurring numbers that is commonly used in auditing and fraud detection literature (Coman, Horga, Danila, & Coman, 2018; Dimm, 2015; Gauvrit, Houillon, & Delahaye, 2017; Nigrini & Miller, 2009). Benford's law has been

used to help detect anomalies (errors or manipulations) in accounting data such as accounts receivable, accounts payable, disbursements, sales, and expenses. Manipulated numbers would not occur in a normal distribution, which would cause them to fail and be detected using Benford's law (Benford). Benford's law only works for positive, naturally occurring numbers (Benford).

Coman et al. (2018) evaluated the use of Benford's law in Microsoft Excel to expand availability of the tool to those who without access to sophisticated software. In doing so, they used chi-square test, mean absolute deviation, and the graph of correlations of the researched data series and the expected data series. This example may be utilized as a statistical test for fraud detection by someone with access to Microsoft Excel and accounting/auditing expertise.

Huang, Tsiah, and Lin

Huang et al. (2014) applied an unsupervised neural network tool to analyze fraudulent financial reporting to help reveal embedded features and fraud patterns using the set of financial indicators and proportion of fraud in the sample of publicly traded companies in Taiwan. The dependent variable used for this study was the presence of fraud indicated by indictment and sentencing for fraudulent financial statements. The independent variables for the study consisted of measurements for profitability, liquidity, operating ability, financial structure, cash flow ability, financial difficulty, corporate governance. The study utilized a three-stage quantitative approach: (a) data-preprocessing, (b) clustering, and (c) feature extraction. The confirmed hypotheses could be further utilized in a decision support system to create warning signals.

O'Keefe, Wambsganss, and Dosch

O'Keefe, Wambsganss, and Dosch (2006) attempted to develop a tool for auditors to utilize for risk assessment. For this study, a statistical comparison was conducted between two

points of documentation around a potential fraud. For example, if the payment on an accounts receivable was the potential fraud, then the two points would be the documentation before the payment and the documentation after the payment. O'Keefe et al. utilized a modified traditional t-test with an increased p-value determinant. According to the findings, when the p-value is increased to .30, the probability of detecting fraud with this model is in the 80-90% range (O'Keefe et al.).

Trussel

Trussel (2003) assessed potential accounting manipulations in nonprofit organizations with higher than expected program expense ratios. The dependent variable in the study was the indication of whether or not the organization was a potential accounting manipulator. The independent variables in the study were six financial indicators: (a) surplus margin, (b) deferred expenses ratio, (c) revenue growth, (d) depreciation rate for program costs, (e) deferred revenue ratio, and (f) program-spending ratio change (Trussel). The surplus ratio represents the ratio of the surplus of revenues over expenses to revenues. The deferred expenses ratio represents the proportion of the organization's assets that are classified as deferred expenses. Revenue growth was measured as the percent change in growth of revenues from the prior year. The depreciation rate for program costs represents a measure of the rate the organization is depreciating assets related to programs. Deferred revenue ratio is the measure of the proportion of the organization's total equity and liabilities that are classified as deferred revenues. The program-spending ratio change represents the change in the program expense ratio from the prior year.

Logistical regression analysis was used to develop a predictive model (Trussel, 2003).

The model was found to be significant with respect to identification of potential accounting manipulators. Findings indicated potential accounting manipulators had lower surplus margins,

less deferred expense, similar growth rates, more depreciation allocated to programs, less deferred revenue, and high changes in program-spending ratios.

Financial Indicators for the Prediction of Fraud

The majority of current research has focused on using financial indicators to attempt to predict fraud in the for-profit sector. There is limited research available pertaining to the use of financial indicators for the prediction of fraud in nonprofit organizations. A discussion is provided in this section for current research reviewed on the use of financial indicators to predict fraud.

Lee, Ingram, and Howard

Lee, Ingram, and Howard (1999) examined the relationship between earnings and operating cash flow as a possible indicator of fraudulent financial reporting. The focus of the study was the distribution of earnings and cash flow for firms with known fraud and those without any known fraud. They tested a logistic regression model of the variables and a fraud indicator. Results indicated the earnings-cash flow variable could be used in logistic regression model to improve the ability to predict frauds (Lee et al.).

McDonnell and Rutherford

McDonnell and Rutherford (2018) developed models to predict charity misconduct in the form of regulatory investigation and subsequent action. Regulatory action was defined as recommendations to improve financial controls and reporting the charity to prosecutors or suspending trustees (McDonnell & Rutherford). This study utilized two main independent variables, age and size of the nonprofit organizations, to analyze data from 25,611 charities in the Scottish charity sector. The findings indicated younger, larger organizations had a statistically significant higher possibility of being investigated. McDonnell and Rutherford discussed the

most prominent risk factor for being investigated was size, but that being investigated did not mean that the organization was found guilty of any wrongdoing. They suggested that the size could indicate greater visibility and high stakes which could lead to investigations. The predicted probabilities were suggested for use in assignment of risk categories for nonprofit organizations rather than a predictor of wrongdoing.

Roden, Cox, and Kim

Roden, Cox, and Kim (2016) studied the potential use of elements of the fraud triangle as a predictor of corporate fraud. This study utilized variables as substitutes for each element of the fraud triangle to evaluate any relationships to fraudulent corporate behavior. Roden et al. used average number of years on the board, whether or not the CEO was also the chair of the board, and the proportion of men on the board as variables for the opportunity element. The variables used for the pressure element were stock options paid, Altman's Z, and one-year change in assets. The presence of an insider member on the board, non-finance accounting experts on the board, and auditor change were used as variables for rationalization. Results were statistically significant and indicated SEC violations were more likely in companies that had fewer women as board members, more insiders, and CEOs who also serve as chair of the board.

Weske and Benuto

Weske and Benuto (2015) evaluated the effectiveness of share prices and price/earnings ratio as predictors of fraud in a sample of publicly traded companies listed with the SEC. The dependent variable was whether or not the company had been prosecuted for fraud. The independent variables used were the price/earnings ratio and the coefficient of variation of share price. Weske and Benuto then used a series of three logistical regression models to determine the extent of which the independent variables were able to predict fraud prior to a public

announcement. The findings demonstrated a statistically significant relationship between the coefficient of variation of share price and the companies prosecuted for fraud, but no statistically significant relationship between the price/earnings ratio and the companies prosecuted for fraud.

Financial Vulnerability Indicators

Research has indicated financial vulnerability as a predictor of fraud. Beneish (1999) and Dechow, Sloan, and Sweeney (1996) found correlations between financial conditions and accounting manipulations suggesting organizations in poor financial condition are more likely to manipulate accounting records. Burde (2018) discussed the use of financial indicators such as debt ratio, revenue concentration, surplus margin, and size to predict the financial vulnerability of nonprofit organizations. Financial vulnerability of nonprofit organizations can impact their ability to survive and must be evaluated. However, further research should be conducted to investigate any relationship between financial vulnerability and susceptibility to fraud. This study did not address financial vulnerability specifically. However, the researcher did examine revenue, asset, and cash growth and the ratio of cash to assets. If an organization is struggling to survive, it may not be experiencing growth and/or may not have a high ratio of cash to assets.

Variables in the Study

The independent and dependent variables were selected in the design of the project to address the research questions. Each of the variables selected have a direct relationship to the research questions and are supported by the current body of literature. An introduction to the variables will be provided here and Section 2 will provide a detailed discussion of each of the variables.

Dependent Variable

The dependent variable utilized was the presence or lack of reported fraud in the nonprofit organizations examined. The presence or lack of reported fraud was identified through indications on 2017 fillings of IRS Form 990. Line 5, of Form 990 Part IV requires nonprofit organizations to report if they became aware during the year of a "significant diversion of assets" (IRS, 2016). The nonprofit organizations must check "yes" or "no" to indicate if there was a significant diversion of assets. The IRS defines a diversion of assets as any unauthorized use or exchange of the organization's assets for any purpose other than that of the organization. A diversion of assets is considered significant by the IRS if the gross value of the diversion exceeds the lessor of: (a) five percent (5%) of the nonprofit organization's gross receipts for the tax year, (b) five percent (5%) of the nonprofit organization's total assets at the end of the tax year, or (c) \$250,000.

Independent Variables

The independent variables utilized for this study were: (a) revenue growth rate; (b) program expense ratio; (c) fundraising expense ratio; (d) administrative expense ratio; (e) cash and cash equivalents growth rate; (f) ratio of cash and cash equivalents to total assets; (g) total asset growth rate; (h) ratio of compensation for current officers, directors, trustees, and key employees to total expenses; (i) ratio of compensation for current officers, directors, trustees, and key employees to total compensation; and (j) the ratio of disqualified compensation to total compensation. Table 1 below provides a guide for the variable information gathered from IRS Form 990. The independent variables were selected based on the research questions of the project and a review of the current body of literature. An examination of each of the independent

variables was utilized to assist the researcher in the analysis of the data and in answering the research questions.

Revenue growth rate. The researcher measured the annual revenue growth rate for each nonprofit organization examined. The annual change in total revenue was calculated as the current year total revenue minus the prior year total revenue. The growth rate was then calculated by dividing the annual change by the prior year total revenue amount. Total revenue balances were obtained from Form 990, part I, line 12 using the prior year and current year columns. The relationship of revenue growth to fraud risk indicators have been largely studied (Beneish, 1999; Lee et al., 1999; Summers & Sweeney, 1998). This variable was selected to investigate any association between revenue growth and reported instances of fraud.

Program expense ratio. The researcher calculated the program expense ratio for each nonprofit organization examined. The program expense ratio was calculated by dividing the total program expenses by the total expenses. The amount for total program expenses was obtained from Form 990, part IX, line 25, column B. The amount for total expenses was obtained from Form 990, part IX, line 25, column A. This variable was selected to investigate any association between the program expense ratio and reported instances of fraud.

Administrative expense ratio. The researcher calculated the administrative expense ratio for each nonprofit organization examined. The administrative expense ratio was calculated by dividing the total administrative expenses by the total expenses. The amount for total administrative expenses was obtained from Form 990, part IX, line 25, column C. The amount for total expenses was obtained from Form 990, part IX, line 25, column A. This variable was selected to investigate any association between the administrative expense ratio and reported instances of fraud.

Fundraising expense ratio. The researcher calculated the fundraising expense ratio for each nonprofit organization examined. The fundraising expense ratio was calculated by dividing the total fundraising expenses by the total expenses. The amount for total fundraising expenses was obtained from Form 990, part IX, line 25, column D. The amount for total expenses was obtained from Form 990, part IX, line 25, column A. This variable was selected to investigate any association between the fundraising expense ratio and reported instances of fraud.

Cash and cash equivalents growth rate. Asset growth has been widely studied as a variable for fraud risk (Petrovitis, Shakespeare, & Shih, 2011; Skousen, Smith, & Wright, 2008; Summers & Sweeney, 1998). Rapid asset growth has been found to be positively related to the likelihood of fraud (Skousen et al.; Summers & Sweeney). Petrovits et al. found asset growth of nonprofit organizations to be positively associated with the existence of internal control deficiencies. For this study, the researcher chose to focus on total asset growth and liquid assets, cash and cash equivalents.

The annual change in cash and cash equivalents was calculated for each nonprofit organization examined. The change in cash and cash equivalents was calculated as the year-end balance reported for "cash" and "savings and temporary cash investments" minus the beginning of year total. The growth rate was then calculated by dividing the annual change by the beginning balance. The ending cash amounts were gathered from Form 990, part IX, line 1, column A. The ending savings and temporary cash investments amounts were gathered from Form 990, part IX, line 2, column A. The beginning cash amounts were gathered from Form 990, part IX, line 1, column B. The beginning savings and temporary cash investments amounts were gathered from Form 990, part IX, line 2, column B. This variable was selected to investigate any association between the cash growth rate and reported instances of fraud.

Ratio of cash and cash equivalents to total assets. The researcher calculated the ratio of cash and cash equivalents to total assets for the sample of nonprofit organizations examined by dividing the year-end balances for cash and cash equivalents by the year-end balance for total assets. The year-end balances for cash and cash equivalents were obtained from Form 990, part X, lines 1 and 2, column B. The year-end balances for total assets were obtained from Form 990, part X, line 16, column B. Due to the liquidity of cash and ease of access, the presence of large amounts of cash and cash equivalents may increase the risk of fraud through embezzlement and misappropriation of assets (ACFE, 2016). This variable was examined to investigate any association between the proportion of cash and cash equivalents to total assets and reported instances of fraud.

Total asset growth. As discussed above, asset growth has been widely studied for fraud risk. Rapid asset growth has been positively related to the likelihood of fraud. Therefore, the researcher examined asset growth to investigate any association between asset growth rate and reported instances of fraud in nonprofit organizations.

The researcher measured the total asset growth rate for each nonprofit organization examined. The annual change in total assets was calculated as the year-end balance for total assets minus the beginning balance. The growth rate was then calculated as the annual change divided by the beginning balance. The year-end balance for each nonprofit organization was gathered from Form 990, part IX, line 16, column B. The beginning balance was obtained from Form 990, part IX, line 16, column A.

Top compensation. Executive compensation is largely studied in the for-profit sector pertaining to the agency problem (Andergassen, 2016; Conyon & He, 2016; Dechow et al., 1996; Harris & Bromiley, 2007; O'Connor, Priem, Coombs, & Gilley, 2006; Zhang, Bartol, Pfarrer, &

Khanin, 2008). In situations where the management of a company is not the owner, there is a concern about whether or not management will act in their own self-interest or in the best interest of the company (Jensen & Meckling, 1976). In for-profit companies, much research has been conducted pertaining to the best compensation plans in an attempt to develop executive compensation structures that mitigate the agency problem and reduce fraud risk (Andergassen; Conyon & He; Dechow et al.; Harris & Bromiley; O'Connor et al.; Zhang et al.).

In the nonprofit setting, research has focused on the relationship between executive pay and performance (Baber, Daniel, & Roberts, 2002; Balsam & Harris, 2018; Sedatole, Swaney, Yetman, & Yetman, 2018). Grasse, Davis, and Ihrke (2014) found that organizational efficiency to be positively associated with the compensation of the executive director. These findings support paying executives higher compensation may attract and retain higher quality executives who may improve the operations of the organization. However, Newton (2015) examined whether nonprofit CEO pay was associated with superior or inferior organizational performance. The findings indicated a negative relation between the CEO pay and organizational performance at nonprofits with extremely high pay being strongly associated with poor governance (Newton). Due to this conflict, top compensation, was chosen to investigate any association between the ratio of top compensation and total expenses and reported instances of fraud. The researcher also investigated any association between the ratio of top compensation and total compensation and reported instances of fraud.

The researcher defined top compensation as compensation for current officers, directors, trustees, and key employees of the nonprofit organizations. The researcher gathered the top compensation amounts from Form 990, part IX, line 5, column A. Total expenses were obtained from Form 990, part IX, line 15, column A. The ratio of top compensation to total expenses was

then calculated by dividing the top compensation amount by the total expenses for each nonprofit organization examined. The total compensation amount included the top compensation amounts gathered plus the amount of compensation paid to disqualified persons and the amount of other salaries and wages. The amount of compensation paid to disqualified persons was obtained from Form 990, part IX, line 6, column A. The amount of other salaries and wages was obtained from Form 990, part IX, line 6, column A. The ratio of top compensation to total compensation was calculated by dividing the top compensation by the total compensation amounts.

Ratio of disqualified compensation to total compensation. As discussed previously, disqualified compensation represents the amount of compensation paid to what the IRS deems a disqualified person. A disqualified person is someone who has been in a position to exercised substantial influence over the nonprofit organization at some point during the five-year period leading up to the point of the disqualified compensation (IRS, 2017). Disqualified compensation often includes amounts paid to executives and therefore was evaluated by the researcher to further investigate any association between the ratio of disqualified compensation to total compensation and reported instances of fraud.

Table 1

Variable Information Retrieved from 2017 IRS Form 990

	Form	Form	Form	
Tax Line Descriptions	Page #	Section #	Line #	Form Column Name
Total Revenue	1	I	12	Current Year
Prior Year Total Revenue	1	I	12	Prior Year
Reported Fraud/No Fraud	6	VI	5	Yes/No
Top Compensation Expenses	10	IX	5	Total Expenses (A)
Disqualified Compensation				
Expenses	10	IX	6	Total Expenses (A)
Total Other Salaries and Wages	10	IX	7	Total Expenses (A)
Program Expenses	10	IX	25	Program Service Expenses (B)
Administrative (Management &				Management and General
General) Expenses	10	IX	25	Expenses (C)

Fundraising Expenses	10	IX	25	Fundraising Expenses (D)
Total Expenses	10	IX	25	Total Expenses (A)
Ending Cash	11	X	1	End of Year (B)
Ending Savings and Temporary				
Cash Investments	11	X	2	End of Year (B)
Beginning Total Assets	11	X	16	Beginning of Year (A)
Ending Total Assets	11	X	16	End of Year (B)

Note. Data source: IRS Form 990 - Return of Organization Exempt from Income Tax for reporting tax year 2017.

Summary of the Literature Review

The discussion of research has demonstrated two main elements. First, research demonstrates the significance of fraud as a problem in nonprofit organizations. Second, there is a gap in the current body of research regarding financial means for the detection and prediction of fraud in the nonprofit sector. Fraud in nonprofit organizations has received more attention in the recent years, but nonprofit organizations are still largely understudied in the context of fraud (Mangala & Kumari, 2017; Snyder et al., 2017).

Transition and Summary of Section 1

Instances of fraud, waste, and abuse in nonprofit organizations have become increasingly prevalent. The effects of fraud can be very destructive to the viability and survival of the nonprofit organizations, causing direct monetary losses as well as damages to their reputation, impacting their ability to accomplish their mission and overall donor trust. These issues demonstrate a need for action by the accounting field.

There is a gap in the current body of knowledge pertaining to evaluation tools to help predict fraud, waste, and abuse in nonprofit organizations. This study was conducted to help fill the gap in literature as discussed. The researcher conducted this study to address the research questions of the applied doctoral research project. The study focused on examining the IRS Form 990 of nonprofit organizations to obtain financial data. Then the data were analyzed to investigate any correlation with instances of fraud, waste, and abuse. The study was conducted

to help solve the problem and provide management, regulators, auditors, and other stakeholders with better means to fight fraud and decrease its damage.

A discussion of the applied doctoral research project is included in the next section (Section 2). Section 2 provides information about specifics pertaining to the study design, data collection, and data analysis. This section includes a restatement of the purpose statement, describe the role of the researcher, and discuss participants. The section ends with a discussion about reliability and validity. The researcher conducted this study to address the research questions of the applied doctoral research project.

Section 2: The Project

Nonprofit organizations are increasingly impacted by instances of fraud, waste, and abuse. These incidents can be devastating to nonprofit organizations, stakeholders, and the industry overall. Experts believe there is a need for research to develop mechanisms that can be used to prevent, detect, and predict instances of fraud, as well as to mitigate the impact of fraud in nonprofit organizations (Arshad, Bakar, & Othman, 2016; Domanski, 2016). Due to the differences in nonprofit organizations, current tools used in the for-profit sector are not able to be used effectively for nonprofit organizations.

This study was designed for the purpose of contributing to the current body of research regarding the ability to predict fraud, waste, and abuse in nonprofit organizations. Additional details of the project will be presented in the following section. This section includes a discussion of the following items: (a) purpose statement, (b) role of the researcher, (c) participants, (d) research methods and design, (e) population sampling, (f) data collection, (g) data analysis process, and (h) reliability and validity.

Purpose Statement

The purpose of this non-experimental quantitative study was to examine possible correlations between the change in financial indicators and incidents of fraud, waste, and abuse in nonprofit human services organizations in order to provide improved techniques for the evaluation of fraud risk in nonprofit organizations. The primary purpose of this study was to add to the body of knowledge through the development of new evaluation methods for fraud risk analysis of nonprofit organizations. This study was also designed to provide management personnel, board of directors, donors, and auditors with additional tools to assess the fraud risk of nonprofits.

Scholarly research for nonprofit organizations primarily focuses on the transparency of the organizations (Hyndman & McConville, 2016; Jensen & Meisenbach, 2015), reporting requirements (Calabrese, 2011; Neely, 2011), efficiency assessment (Garven et al., 2016; Ryan & Irvine, 2012), and impact of information on donations (Li & McDougle, 2017; Parsons & Trussel, 2007). Parsons and Trussel proposed financial reporting factors (i.e., organizational efficiency, financial stability, information availability, and reputation) that relate to donations. This research study was designed to uncover additional relationships and techniques to assist donors with the analysis and evaluation of Parsons and Trussel's proposed factors.

Role of the Researcher

The researcher collected and analyzed the data in this quantitative study. The researcher did not directly contact the nonprofit organizations evaluated in the study. Rather, the researcher collected publicly available information from IRS Form 990 filings for the sample of nonprofit organizations using the Candid database. In quantitative studies, the researcher is expected to hold a neutral role (Yilmaz, 2013). Data are collected with no concern to the participants or researcher. The role of the researcher also included the use of care for data preservation during data collection and analysis. The researcher conducted the data collection and analysis in a manner that should be replicable by other researchers, who should generate comparable results under the same conditions.

Participants

The researcher did not use participants for this study. This study addressed the research questions and hypotheses through the use of archival data for the sample of nonprofit organizations studied. The data gathered were publicly available from IRS Form 990 filings

using the Candid database. The researcher used the data collected to perform correlational analysis of the variables.

Research Method and Design

The researcher selected the research method and design to address the project's research questions. Next, the researcher selected a purposive sample of nonprofit organizations and gathered data for the analysis. The researcher then conducted a nonexperimental quantitative analysis of the data. The following section provides a more detailed discussion of the research method and design used for this study. Support for the research method and design is provided based on a review of scholarly academic literature pertaining to similar studies and best practices for scholarly research.

Method

The research project was conducted using a quantitative research method. The researcher selected the research method based on the objectives of the research project and methods used in similar research projects. Quantitative research methods utilize numerical and quantifiable data to investigate the existence of relationships among variables (Creswell, 2014; Sekaran & Bougie, 2016; Yilmaz, 2013). As Barczak (2015) explained, quantitative methods use a deductive approach where the researcher develops hypotheses based on a theory related to the topic being studied, then tests the hypotheses to confirm or reject. The results of the quantitative method can be utilized to determine the presence of lack of a statistically significant association which is an objective of this study. This project utilized financial data and was designed to investigate the existence of associations between historical financial data and reported instances of fraud. Therefore, a quantitative method was most appropriate.

As discussed, the quantitative method was chosen because it was the best fit for the purposes of the study. The researcher also selected a quantitative method in an effort to reduce bias. Quantitative methods are less subjective because they do not introduce the potential bias of the researcher and information collected as in qualitative methods (Lee, 1992). The sample collected is purposive and random. The data collected are historical, publicly available data. Therefore, using a quantitative method, other researchers should be able to duplicate the study.

Quantitative methods are well-recognized in current literature with widely-used approaches and techniques (Yilmaz, 2013). Other researchers have used a quantitative method when studying the relationships of variables with fraud risk (Beneish, 1999; Huang et al., 2017; Huang et al., 2014; Lee et al., 1999; McDonnell & Rutherford, 2018; Roden et al., 2016; Trussel, 2003; Weske & Benuto, 2015). For these studies, the researchers utilized historical, financial data to investigate relationships between the variables and fraud risk.

Design

associations.

The research project was designed as a nonexperimental regression study.

Nonexperimental research is used for exploration of existing phenomena without manipulation of the independent variable (Radhakrishnan, 2013). The variables selected by the researcher for this study were derived from historical financial data, therefore, they were not able to be manipulated. The data were then utilized to investigate the existence and significance of any

Creswell (2014) discussed the use of the correlational statistic to measure and explain the relationship between variables in a correlational design. Morgan, Leech, Gloeckner, and Barrett (2013) explained the use of bivariate and multiple regression to determine associations and the use of independent variables as predictors of the dependent variable. This study focused on

associations between the dependent variable, reported fraud, and the individual independent variables: revenue growth rate; program expense ratio; fundraising expense ratio; management and general expense ratio; cash and cash equivalents growth rate; ratio of cash and cash equivalents to total assets; total asset growth rate; ratio of compensation to current officers, directors, trustees, and key employees to total expenses; ratio of compensation to current officers, directors, trustees, and key employees to total compensation; and the ratio of disqualified compensation to total compensation. The primary purpose was for the researcher to determine if any associations existed between the variables and the significance of those associations. An evaluation of the predictive capability for incidents of fraud was performed using multiple regression analysis (Salkind, 2013).

The dependent variable in this study was the indication of a significant diversion of assets (fraud) or the lack of that indication (no fraud). The researcher gathered data from 2017 Form 990 filings for each sampled nonprofit organization and indicated if there was a presence (1) or lack of fraud (0). To determine possible financial indicators that could be of use to evaluate fraud risk, the independent variables selected were: revenue growth rate, change in total assets, proportion of cash and cash equivalents to total assets, change in executive compensation, and existence of any related organizations obtained from each organization's 2017 Form 990 filing. Using the collected data, a study was conducted to investigate if any statistically significant associations existed between the individual independent variables and the dependent variable. This provided responses to the hypotheses. Then the data were run using multiple regression to evaluate any predictive capability of the variables for incidents of fraud, waste, and abuse.

Population and Sampling

The researcher designed this project to provide a comparative quantitative examination of the selected variables for nonprofit organizations that reported a significant diversion of assets and nonprofit organizations that did not report a significant diversion of assets. The population of U.S. nonprofit organizations was identified through the Candid database. Candid is a nonprofit organization that gathers, compiles, and distributes information about nonprofit organizations. Candid is commonly used by researchers for data pertaining to nonprofit organizations. The researcher chose Candid to access the data needed because Candid digitizes data fields from the IRS Form 990s using the IRS data files. This digital information was vital to gathering the data as timely and accurately as possible.

The population of nonprofit organizations was selected from 2017 Form 990 filings with the following criteria: (a) 501(c)(3) status, (b) all NTEE codes, (c) required to file Form 990, (d) exclude revoked organizations, and (e) exclude defunct or merged organizations. The researcher chose to use 2017 Form 990 filings because that was the most recent year available. The exclusion of revoked organizations allowed the researcher to filter out organizations that had been revoked by the IRS for failure to file a Form 990 for three consecutive year. The exclusion of defunct or merged organizations allowed the researcher to filter out organizations that had not been included in the IRS Business Master File (BMF) for six consecutive months. These criteria were chosen to ensure the researcher was able to obtain Form 990 data for the variables in the study and to provide the strongest comparison possible of like organizations.

The sample was selected using purposive and random sampling methods. The focus population was 330,000 nonprofit organizations with the above criteria. The researcher selected a random sample of the nonprofit organizations and utilized purposive sampling to ensure that

the sample was representative of nonprofit organizations of all sizes. The researcher desired to test the variables in nonprofit organizations of all sizes as organizations of different sizes may have different levels of internal controls which may impact their fraud risk. The sample size of 384 was determined at a 95% confidence level and a sampling error of .05. There were 228 nonprofit organizations in the selected population (referred to as fraud NPOs) who reported a significant diversion of assets in 2017. The researcher chose to evaluate all 228 nonprofit organizations who reported a significant diversion of assets in 2017. The total sample of 644 consisted of 416 nonprofit organizations who did not report a significant diversion of assets and 228 nonprofit organizations who did report a significant diversion of assets. A list of the nonprofit organizations selected for the sample is located in Appendix A.

Data Collection

The data collection process was imperative to the objectivity, reliability, and validity of the study. This section provides a discussion of the data collection method utilized for this study. The quantitative instruments used, data collection techniques employed, and data organization techniques applied, are presented and the rationale behind their selection are explained.

Instruments

The researcher did not utilize any instruments to gather data for this study. The data collected were obtained using publicly available information taken from a third-party source, Candid. The researcher entered the data gathered into Microsoft Excel spreadsheets for proper organization and to perform statistical analysis.

Data Collection Technique

The data used in the study were gathered from publicly available IRS Form 990 filings for 2017. This information was compiled by Candid. At the request of the researcher, Candid

provided a file with the data for each variable. The researcher did not use any other interview or survey technique for this study.

Data Organization Technique

The researcher obtained the information from Candid in Microsoft Excel format. The researcher then organized the data in Excel to allow for the data analysis needed to address each of the research questions. This layout was utilized to provide optimum organization and clarity for the data collection process.

The data were secured using electronic management and password protection for access to all files. The Excel file and all original files, documents, communications, invoices, and agreements with Candid were saved to the hard drive of a computer owned by the researcher. The researcher saved a second copy of each item on a secure cloud storage system. A third copy of each item was saved on a flash drive. The researcher saved additional copies of the items to protect against data loss in the event of file corruption or any other type of computer/storage malfunction.

Data Analysis

The data gathered for each nonprofit organization in the study included the name NTEE code, gross receipts total, year the organization was formed, whether or not the organization indicated a significant diversion of assets, current year total revenue, prior year total revenue, total current year program expenses, total current year fundraising expenses, total current year expenses, total current year management and general (administrative) expenses, beginning cash and cash equivalents, ending cash and cash equivalents, total assets at end of year, total assets at beginning of year, total compensation for current officers, directors, trustees, and key employees, total compensation, total disqualified compensation. The researcher then performed the

following variable calculations: (a) revenue growth rate; (b) program expense ratio; (c) fundraising expense ratio; (d) management and general expense ratio; (e) cash and cash equivalents growth rate; (f) ratio of cash and cash equivalents to total assets; (g) total asset growth rate; (h) ratio of compensation for current officers, directors, trustees, and key employees to total expenses; (i) ratio of compensation for current officers, directors, trustees, and key employees to total compensation; and (j) the ratio of disqualified compensation to total compensation. The data were gathered for tax year 2017 from the organizations' 2017 Form 990 filed with the IRS. The data were then imported into SPSS statistical software for the completion of the data analysis.

Variables

The researcher chose one dependent variable, fraud (*diversion_i*), and 10 independent variables for this study. The independent variables (shown below in Table 2) were: (a) revenue growth rate (*revgrowth_i*); (b) program expense ratio (*progexp_i*); (c) fundraising expense ratio (*fundexp_i*); (d) administrative expense ratio (*adminexp_i*); (e) cash and cash equivalents growth rate (*cashgrowth_i*); (f) ratio of cash and cash equivalents to total assets (*cashassets_i*); (g) total asset growth rate (*assetgrowth_i*); (h) ratio of compensation for current officers, directors, trustees, and key employees to total expenses (*topcompexp_i*); (i) ratio of compensation for current officers, directors, trustees, and key employees to total compensation (*topcomptotalcomp_i*); and (j) the ratio of disqualified compensation to total compensation (*disqualified_i*). These financial variables were chosen to investigate any associations with the occurrence of fraud in an effort to develop a model using publicly available financial data for fraud prediction in U.S. nonprofit organizations.

Research question 1 of the study addressed whether or not there was a statistically significant association between revenue growth rate; program expense ratio; fundraising expense ratio; administration expense ratio; cash and cash equivalents growth rate; ratio of cash and cash equivalents to total assets; total asset growth rate; ratio of compensation to current, officers, directors, trustees, and key employees to total expenses; ratio of compensation of current officers, directors, trustees, and key employees to total compensation; ratio of disqualified compensation to total compensation and reported instances of fraud. Research question two of the study addressed how well a combination of the independent variables could predict fraud in the sample of U.S. 501(c)(3) nonprofit organizations. The following section provides a discussion of the variables chosen for the study and how they were utilized to help answer the research questions of the study.

Dependent variable. The dependent variable used in this study was the existence or lack of a reported significant diversion of assets (*diversioni*) from Part VI, Line 5 of 2017 IRS Form 990 filings for the sample of nonprofit organization. The dependent variable utilized is a dichotomous variable, the presence or lack of reported fraud. In order to perform statistical analyses, the researcher utilized a dummy variable of "1" to represent fraud and "0" to represent no fraud. This variable was necessary in order to identify organizations who experienced fraud or did not experience fraud. Once the researcher was able to delineate which organizations experienced fraud, the researcher was able to perform necessary analyses for fraud risk indicators, and to examine any potential predictors of fraud from the variables studied. The dependent variable was necessary to determine any associations of the independent variables with the existence of fraud.

Independent variable 1. Independent variable 1 was revenue growth rate (*revgrowth_i*). The revenue growth rate is a normal/scale variable. The revenue growth rate was calculated for the sample by taking the current year total revenue, subtracting the prior year total revenue, and dividing by the prior year total revenue for each nonprofit organization. This data were gathered from Form 990, Part I, Line 12. This data were needed in order to determine if revenue growth rate could be an indicator of fraud.

Independent variable 2. Independent variable 2 was program expense ratio (*progexpi*). The program expense ratio is a normal/scale variable. The researcher calculated the program expense ratio for the sample by dividing total program expenses by total expenses for each nonprofit organization. Total program service expenses were obtained from Form 990, part IX, line 25B and total expenses were obtained from Form 990, part IX, line 25A. The researcher obtained the program expense ratio for the sample to determine if a level of program expense ratio could be an indicator of fraud.

Independent variable 3. Independent variable 3 was fundraising expense ratio (fundexpi). The fundraising expense ratio is a normal/scale variable. The researcher calculated the fundraising expense ratio for the sample by dividing the total fundraising expenses by the total expenses for each nonprofit organization. The data for total fundraising expenses were gathered from Form 990, part IX, line 25D. The researcher obtained the fundraising expense ratio for the sample to determine if a level of fundraising expense ratio could be an indicator of fraud.

Independent variable 4. Independent variable 4 was administrative expense ratio ($adminexp_i$). The administrative expense ratio is a normal/scale variable. The researcher calculated the administrative expense ratio for the sample by dividing total management and

general expenses by total expenses for each nonprofit organization. Total management and general expenses were obtained from Form 990, part IX, line 25C and total expenses were obtained from Form 990, part IX, line 25A. The researcher obtained the administrative expense ratio for the sample to determine if a level of administrative expense ratio could be an indicator of fraud.

Independent variable 5. Independent variable 5 was cash growth rate (*cashgrowthi*). The cash growth rate is a normal/scale variable. The researcher calculated the cash growth rate for the sample using both the beginning and ending cash and cash equivalents. Cash and cash equivalents consisted of reported amounts for "cash" and "ending savings and temporary cash investments. The ending cash amounts were gathered from Form 990, part X, line 1B. The ending savings and temporary cash investments amounts were gathered from Form 990, part X, line 2B. The beginning cash amounts were gathered from Form 990, part X, line 1A. The beginning savings and temporary cash investments amounts were gathered from Form 990, part X, line 2A. The beginning and ending amounts were used to calculate the growth rate for cash and cash equivalents by subtracting the beginning cash and cash equivalents from the ending cash and cash equivalents, then dividing that figure by the beginning balance. The researcher obtained the cash and cash equivalents growth rate for the sample to determine if cash and cash equivalents growth rate could be an indicator of fraud.

Independent variable 6. Independent variable 6 was the ratio of cash and cash equivalents to total assets (*cashassetsi*). The ratio of cash and cash equivalents to total assets is a normal/scale variable. In order to calculate the ratio of cash and cash equivalents to total assets, the researcher obtained the ending cash and cash equivalents and the ending total assets for each of the nonprofit organizations. Cash and cash equivalents consisted of reported amounts for

"cash" and "ending savings and temporary cash investments. The ending cash amounts were gathered from Form 990, part X, line 1B. The ending savings and temporary cash investments amounts were gathered from Form 990, part X, line 2B. The ending total asset amounts were gathered from Form 990, part X, line 16B. The ratio was then calculated by dividing the ending total cash and cash equivalents (cash plus savings and temporary cash investments) by the total ending assets. The researcher obtained the ratio of cash and cash equivalents to total assets for the sample to determine if the ratio of cash and cash equivalents to total assets could be an indicator of fraud.

Independent variable 7. Independent variable 7 was asset growth rate (*assetgrowth_i*). The asset growth rate is a normal/scale variable. The researcher calculated the asset growth rate for the sample using both the beginning and ending total asset amounts. The ending total asset amounts were gathered from Form 990, part X, line 1B. The beginning total asset amounts were gathered from Form 990, part X, line 16A. The ratio was then calculated by dividing the ending total cash and cash equivalents (cash plus savings and temporary cash investments) by the total ending assets. The beginning and ending amounts were used to calculate the growth rate for total assets by subtracting the beginning total assets from the ending total assets, then dividing that figure by the beginning balance. The researcher obtained the total asset growth rate for the sample to determine if total asset growth rate could be an indicator of fraud.

Independent variable 8. Independent variable 8 was the ratio of top compensation (compensation of current officers, directors, trustees, and key employees) to total expenses ($topcompexp_i$). The ratio of top compensation to total expenses is a normal/scale variable. In order to calculate the ratio of top compensation to total expenses, the researcher obtained the compensation of current officers, directors, trustees, and key employees as well as the total

expenses for each nonprofit organization. The compensation of current officers, directors, trustees, and key employees was gathered from Form 990, part X, line 1B. The ending savings and temporary cash investments amounts were gathered from Form 990, part IX, line 5. The amounts for total expenses were gathered from Form 990, part IX, line 25A. The ratio was then calculated by dividing the compensation of current officers, directors, trustee, and key employees by the total expenses. The researcher obtained the ratio of top compensation to total expenses for the sample to determine if the ratio of top compensation to total expenses could be an indicator of fraud.

Independent variable 9. Independent variable 9 was the ratio of top compensation (compensation of current officers, directors, trustees, and key employees) to total compensation (topcomptotalcomp_i). The ratio of top compensation to total compensation is a normal/scale variable. In order to calculate the ratio of top compensation to total compensation, the researcher obtained the compensation of current officers, directors, trustees, and key employees; disqualified compensation; and total other salaries and wages for each nonprofit organization. The compensation of current officers, directors, trustees, and key employees (top compensation) was gathered from Form 990, part IX, line 5. The disqualified compensation amounts were gathered from Form 990, part IX, line 6. The amounts for total other salaries and wages were gathered from Form 990, part IX, line 7. The total compensation was calculated as the combined total of the disqualified compensation, top compensation, and total other salaries and wages. The ratio was then calculated by dividing the top compensation by the total compensation for each nonprofit organization in the sample. The researcher obtained the ratio of top compensation to total expenses for the sample to determine if the ratio of top compensation to total compensation could be an indicator of fraud.

Independent variable 10. Independent variable 10 was the ratio of disqualified compensation to total compensation (disqualified_i). The ratio of disqualified compensation to total compensation is a normal/scale variable. In order to calculate the ratio of disqualified compensation to total compensation, the researcher obtained the amounts for disqualified compensation and total compensation for each nonprofit organization in the sample. The disqualified compensation amounts were gathered from Form 990, part IX, line 6. The total compensation was calculated as the combined total of the disqualified compensation (Form 990, part IX, line 6), top compensation (Form 990, part IX, line 5), and total other salaries and wages (Form 990, part IX, line 7). The ratio was then calculated by dividing the disqualified compensation by the total compensation for each nonprofit organization in the sample. The researcher obtained the ratio of disqualified compensation to total compensation for the sample to determine if the ratio of disqualified compensation to total compensation could be an indicator of fraud.

Table 2

List of Variables

Variable Name	Definition	Type	Hypothesis Test
Dependent Variable 1: diversioni	Reported a significant diversion of assets on Form 990 Part VI, Line 5	Dichotomous	
		Dummy = 1 if fraud was reported	N/A
		Dummy = 0 if no fraud was reported	
Independent Variable 1: revgrowthi	Revenue growth rate (Current year total revenue minus prior year total revenue	Normal/Scale	Bivariate Regression
	divided by prior year total revenue [Form 990, Part I, Line 12])		$H_01: p > .05$ $H_A1: p < .05$
Independent Variable 2: <i>progexp_i</i>	Program expense ratio (Total program service expenses [Form 990 Part IX – Line	Normal/Scale	Bivariate Regression
7 0 7	25B] divided by total expenses [Form 990 Part IX – Line 25A])		$H_02: p > .05$ $H_A2: p < .05$
Independent Variable 3: <i>fundexp</i> _i	Fundraising expense ratio (Total fundraising expenses [Form 990 Part IX – Line 25D]	Normal/Scale	Bivariate Regression
	divided by total expenses [Form 990 Part IX – Line 25A])		$H_03: p > .05$ $H_A3: p < .05$

Independent Variable	Administrative expense ratio (Total	Normal/Scale	Bivariate Regression
4: adminexp _i	management and general expenses [Form		
	990 Part IX – Line 25C] divided by total		$H_04: p > .05$
T 1 1 . T7 ' 11	expenses [Form 990 Part IX – Line 25A])	N. 1/G 1	$H_A4: p < .05$
Independent Variable 5: <i>cashgrowthi</i>	Cash and cash equivalents growth rate (Ending Cash [Form 990 Part X – Line 1B]	Normal/Scale	Bivariate Regression
V	plus Ending Savings and temporary cash		$H_05: p > .05$
	investments [Form 990 Part X – Line 2B])		$H_A5: p < .05$
	minus (Beginning Cash [Form 990 Part X –		
	Line 1A] plus Ending Savings and temporary cash investments [Form 990 Part		
	X – Line 2A]) divided by (Beginning Cash		
	[Form 990 Part X – Line 1A] plus Ending		
	Savings and temporary cash investments		
	[Form 990 Part X – Line 2A])		
Independent Variable	Ratio of cash and cash equivalents to total	Normal/Scale	Bivariate Regression
6:	assets (Ending Cash [Form 990 Part X –		<u>U</u>
cashassetsi	Line 1B] plus Ending Savings and		$H_06: p > .05$
	temporary cash investments [Form 990 Part		$H_A6: p < .05$
	X – Line 2B]) divided by ending total assets		
T 1 1 . TT ! 11	[Form 990 Part X – Line 16B])	1/0 1	D1 1 . D
Independent Variable	Total asset growth rate (Ending total assets	Normal/Scale	Bivariate Regression
7:	[Form 990 Part X – Line 16B] minus beginning total assets [Form 990 Part X –		11.7. m > 0E
assetgrowth _i	Line 16A]) divided by beginning total assets		$H_07: p > .05$ $H_A7: p < .05$
	[Form 990 Part X – Line 16A])		11A/. p < .03
Independent Variable	Ratio of compensation of current officers,	Normal/Scale	Bivariate Regression
8:	directors, trustees, and key employees to		8
topcompexp _i	total expenses (Form 990 Part IX – Line 5		$H_08: p > .05$
	divided by total expenses [Form 990 Part IX – Line 25A])		$H_A8: p < .05$
Independent Variable	Ratio of compensation of current officers,	Normal/Scale	Bivariate Regression
9:	directors, trustees, and key employees to		
$topcomptotalcomp_i$	total compensation (Compensation of		$H_09: p > .05$
	current officers, directors, trustees, and key		$H_A9: p < .05$
	employees [Form 990 Part IX – Line 5]		
	divided by total compensation [Form 990 Part IX – Line 5] plus disqualified		
	compensation [Form 990 Part IX – Line 6]		
	plus total other salaries and wages [Form		
	990 Part IX – Line 7])		
Independent Variable	Ratio of disqualified compensation to total	Normal/Scale	Bivariate Regression
10: disqualified _i	compensation (Form 990 Part IX - Line 6		
	divided by total compensation [Form 990		$H_010: p > .05$
	Part IX – Line 5] plus disqualified		$H_A 10: p < .05$
	compensation [Form 990 Part IX – Line 6]		
	plus total other salaries and wages [Form		
Combination of	990 Part IX – Line 7])	Normal/Scale	Multiple Regression
variables as a		1 (Office) Scale	winipic Regression
predictor			$H_011: R^2 = 0$
1			$H_{A}11: R^{2} \neq 0$
			$H_011: p > .05$
			$H_A 11: p < .05$

Quantitative Data Analysis

Data analysis addressed the two research questions. For research question 1, the data analysis addressed if there was a statistically significant association between revenue growth rate; program expense ratio; fundraising expense ratio; administration expense ratio; cash and cash equivalents growth rate; ratio of cash and cash equivalents to total assets; total asset growth rate; ratio of compensation to current, officers, directors, trustees, and key employees to total expenses; ratio of compensation of current officers, directors, trustees, and key employees to total compensation; ratio of disqualified compensation to total compensation; and reported instances of fraud. Each of the independent variables were normal/scale variables. Therefore, the researcher was able to perform descriptive statistics to obtain the minimum, maximum, mean, standard deviation, and degree of skewness for each independent variable. The researcher checked for errors, examined the means and standard deviations for reasonableness, and checked for outliers and missing data. Histograms were prepared and analyzed for each variable to check for normal distribution.

Then, the researcher performed bivariate regression to identify the associations between each individual independent variable and the dependent variable. Typical linear regression relies on the assumption that the variables are normally distributed (Morgan et al., 2013). However, the researcher was not certain the independent variable values were normally distributed. Therefore, the researcher chose to utilize logistic regression to account for any variables that may not have been normally distributed. In order to assess statistical significance, the researcher selected a p-value of .05 to determine if results were significant at the 95% confidence level.

For research question 2, the data analysis addressed if there was a combination of the independent variables that could predict fraud within the sample of U.S. 501(c)(3) nonprofit

organizations. The dependent variable was dichotomous, having one of two values, fraud or no fraud. The researcher used dummy variables to represent fraud as a "1" or no fraud as a "0." The researcher utilized multiple regression to determine how well a combination of the independent variables could predict. A logistic regression model was selected due to the dichotomous dependent variable and the multiple independent variables that may not have been normally distributed. The researcher tested for multicollinearity for high correlations among the independent variables. Then, the researcher adjusted the analysis accordingly to remove issues of multicollinearity. In order to assess statistical significance, the researcher selected a p-value of .05 to determine if results were significant at the 95% confidence level.

Hypotheses 1. Using the independent variable of revenue growth, the data analysis determined if there was or was not a statistically significant association between the revenue growth rate and fraud. Bivariate regression analysis was conducted to determine if an association existed as well as the statistical significance of any association. Significance was determined using a p-value of .05.

Hypotheses 2. Using the independent variable of program expense ratio, the data analysis determined if there was or was not a statistically significant association between the program expense ratio and fraud. Bivariate regression analysis was conducted to determine if an association existed as well as the statistical significance of any association. Significance was determined using a p-value of .05.

Hypotheses 3. Using the independent variable of fundraising expense ratio, the data analysis determined if there was or was not a statistically significant association between the fundraising expense ratio and fraud. Bivariate regression analysis was conducted to determine if

an association existed as well as the statistical significance of any association. Significance was determined using a p-value of .05.

Hypotheses 4. Using the independent variable of administrative expense ratio, the data analysis determined if there was or was not a statistically significant association between administrative expense ratio and fraud. Bivariate regression analysis was conducted to determine if an association existed as well as the statistical significance of any association. Significance was determined using a p-value of .05.

Hypotheses 5. Using the independent variable of cash and cash equivalents growth rate, the data analysis determined if there was or was not a statistically significant association between the cash and cash equivalents growth rate and fraud. Bivariate regression analysis was conducted to determine if an association existed as well as the statistical significance of any association. Significance was determined using a p-value of .05.

Hypotheses 6. Using the independent variable of ratio of cash and cash equivalents to total assets, the data analysis determined if there was or was not a statistically significant association between the ratio of cash and cash equivalents to total assets and fraud. Bivariate regression analysis was conducted to determine if an association existed as well as the statistical significance of any association. Significance was determined using a p-value of .05.

Hypotheses 7. Using the independent variable of total asset growth, the data analysis determined if there was or was not a statistically significant association between the total asset growth rate and fraud. Bivariate regression analysis was conducted to determine if an association existed as well as the statistical significance of any association. Significance was determined using a p-value of .05.

Hypotheses 8. Using the independent variable of the ratio of compensation for current officers, directors, trustees, and key employees to total expenses, the data analysis determined if there was or was not a statistically significant association between the ratio of compensation for current officers, directors, trustees, and key employees to total expenses and fraud. Bivariate regression analysis was conducted to determine if an association existed as well as the statistical significance of any association. Significance was determined using a p-value of .05.

Hypotheses 9. Using the independent variable of the ratio of compensation for current officers, directors, trustees, and key employees to total compensation, the data analysis determined if there was or was not a statistically significant association between the ratio of compensation for current officers, directors, trustees, and key employees to total compensation and fraud. Bivariate regression analysis was conducted to determine if an association existed as well as the statistical significance of any association. Significance was determined using a p-value of .05.

Hypotheses 10. Using the independent variable of the ratio of disqualified compensation to total compensation, the data analysis determined if there was or was not a statistically significant association between the ratio of disqualified compensation to total compensation and fraud. Bivariate regression analysis was conducted to determine if an association existed as well as the statistical significance of any association. Significance was determined using a p-value of .05.

Hypotheses 11. Using all the independent variables, the data analysis was conducted to determine if any combination of the independent variables were able to predict fraud within the sample of U.S. 501(c)(3) nonprofit organizations. Logistic regression analysis was conducted to

determine if a combination of the variables were able to predict fraud and the significance of any predictive capability. Significance was determined using a p-value of .05.

Summary of Data Analysis

To determine associations between the independent variables and fraud, the researcher conducted bivariate regression. To determine a predictive model for fraud, the researcher conducted multiple regression using a logistic regression model for the combination of independent variables and fraud. The analysis was conducted using SPSS statistical software with statistical significance determined using a p-value of .05.

Reliability and Validity

Reliability and validity are issues that must be accounted for in research studies (Creswell, 2014). The types and extent of threats related to reliability and validity differ depending on the type of study, instruments utilized, and analysis conducted. It is not possible to design a study free of reliability and validity threats (Creswell). However, the researcher must take appropriate steps in the design and implementation of the study to mitigate threats to reliability and validity. A discussion of the steps that were taken by the researcher to check for the accuracy and credibility of the findings for this quantitative study are provided here.

Reliability

Reliability in a quantitative study addresses the consistency of a measure and the extent it is without bias (Creswell, 2014). Addressing reliability ensures the data gathering process and data analysis is able to be duplicated by others and increases reliability by taking appropriate precautions to remove bias. The attributes of reliability for a quantitative study are internal consistency and stability (Sekaran & Bougie, 2016).

Internal consistency. Internal consistency of measures is an indicator of whether or not the constructs of a survey instrument measures the concept in a way that respondents attach the same overall meaning to the survey items (Sekaran & Bougie, 2016). This study did not utilize a survey instrument. There were no respondents, thus no need to assess internal consistency of measure. The measurements for the financial data obtained were developed and are required by Generally Accepted Accounting Principles (GAAP) and the Internal Revenue Service (IRS). Therefore, it is reasonable to assume that the nonprofit organizations were providing the correct information for the financial data elements reported on their IRS Form 990 filings.

Stability. Stability is an indicator of the ability of a measure to be consistent regardless of changes (Heale & Twycross, 2015). A study with good stability of measure will allow others who duplicate the study using the same measure, to get the same results each time. Stability in quantitative studies is tested using two measures, test-retest reliability and parallel-form reliability (Sekaran & Bougie, 2016). Parallel-form reliability is related to survey instruments, in particular if two measures measure the same construct (Sekaran & Bougie). The test-retest for reliability is obtained by ensuring the ability of the test to be retested by another person with that other person obtained the same result. This can be of particular concern with surveys (Heale & Twycross, 2015).

This study did not utilize any survey instruments. Rather, the researcher utilized archival financial data from publicly available IRS filings for the sample of nonprofit organizations. The data were not gathered directly by the researcher which decreased the risk of a keying error by the researcher. Instead, the data were obtained from a third-party, Candid. Candid is a nonprofit organization who gathers and compiles publicly available financial data from nonprofit organization IRS Form 990 filings. The use of archival data allowed the researcher to address

the issue of reliability and provide assurance for the ability of the same data to be gathered and analysis to be duplicated by other interested parties. Candid receives the digitized data directly from the e-filed Form 990 filings. However, Candid digitizes the Form 990 filings that are not e-filed. The researcher cross-checked the data that were obtained from organizations that did not e-file. This helped to validate the accuracy of data.

Summary. Barnes et al. (2018) and Simonsohn (2013) discussed the importance of transparency in data and analyses in research as well as concerns of research misconduct. The use of archival data helps to address these issues. Publicly available, archival data are relatively easily available for interested parties to duplicate analyses which increases transparency and discourages research misconduct (Barnes et al.). The use of an archival database was suitable to address the research questions for this study. Historical financial data were needed to address. Form 990 financial data are continually gathered and digitized by Candid for U.S. nonprofit organizations. Candid implements its own internal controls over compilation and data management. The researcher cross-checked all filings that were not e-filed for accuracy. Also, the data can be verified with each nonprofit organization's publicly available Form 990 filings. Due to the popularity of and reliance on Candid by the public, it is reasonable to assume that the nonprofit organizations would also review the data available on Candid to ensure appropriate and fair assessments by the public. Therefore, the researcher deemed it appropriate to utilize the data from Candid.

Validity

In quantitative studies, validity addresses how well an instrument measures the concept that it is intended to measure (Salkind, 2013). Validity determines whether or not one is able to draw conclusions from a study (Ryan et al., 2002). There are four common threats to validity in

quantitative research: (a) internal validity, (b) external validity, (c) statistical conclusion validity, and (d) construct validity (Creswell, 2013).

Internal validity. Internal validity requires the researcher to address the issue of causeand-effect relationships and assess the degree of confidence in any such relationship in
experimental studies (Creswell, 2013; Sekaran & Bougie, 2016). Threats to internal validity for
such studies include any procedures, treatments, or experiences that threaten the ability of a
researcher to draw correct inferences (Creswell, 2013). This study was not experimental and did
not set out to determine cause-and-effect relationships. The researcher did not use any testing
instruments. The researcher solely examined archival data regarding financial data of the U.S.
nonprofit organizations included in the project. The sample of nonprofits included in the study
met the specific criteria of the project as discussed earlier. The use of strictly archival data for
the specific sample reduced threats to the internal validity of this study.

External validity. External validity addresses issues with generalization of any relationships uncovered to the population (Sekaran & Bougie, 2016). Threats to external validity occur when the researcher draws incorrect inferences from the data analyzed for a sample to the population (Heale & Twycross, 2015). Creswell (2013) explained how external validity threats arise due to three factors: (a) characteristics of the sample selected, (b) unique characteristics of the setting for the experiment, and (c) experiment timing. These threats are primarily referred to in experimental studies. However, the researcher addressed each one in the context of this nonexperimental study.

The researcher chose to utilize a population of U.S. nonprofit organizations with a 501(c)(3) exempt status who were required to file a Form 990 for tax year 2017. Only nonprofit organizations meeting the appropriate criteria were included in the study. The researcher

requested Candid select a random sample of 384 nonprofit organizations meeting the criteria who had not reported fraud during 2017. The nonprofit organizations meeting the specific criteria who reported fraud during 2017 were all examined. This helped to reduce selection bias by the researcher. Next, the researcher chose to narrow the focus to U.S. nonprofit organizations in order to narrow the focus of the study and mitigate the influences of internal reporting differences and requirements. Lastly, the researcher was not able to overcome the time/history threat to validity for this study. The current project is not a replication of any previous study. Therefore, the researcher cannot generalize the results to past or future situations without replicating the study using future data (Creswell, 2013). Further discussion is provided in Section Three of this study.

Statistical conclusion validity. Statistical conclusion validity threats arise when a researcher draws an incorrect inference from the data due to inadequate statistical analysis (Creswell, 2013). The researcher obtained the financial variables for each nonprofit organization. Then, the researcher conducted statistical analyses as discussed previously. The statistical methods utilized were appropriate for analyzing this type of data (Morgan et al., 2013; Sekaran & Bougie, 2016). The use of appropriate analytical methods helped the researcher address statistical conclusion validity threats.

Construct validity. Construct validity assesses how well a research instrument measures what it intends to measure (Heale & Twycross, 2015). Creswell (2013) explained that threats to construct validity occur when the researcher does not appropriately define and/or measure study variables. The researcher addressed concerns about construct validity in the study design. First, the researcher selected variables that addressed the research question. Then, the researcher

clearly defined each variable including calculations. Lastly, the researcher selected the appropriate instrument for the type of data utilized in the study.

Summary of Reliability and Validity

A researcher's rigor is evaluated based on how well they address the reliability and validity of methods and instrument utilized in their study (Heale & Twycross, 2015). For this study, the researcher adequately addressed issues of reliability through the selection and use of comparable financial archival data obtained through a reputable third party. The issue of validity was addressed by the researcher through statistical testing and significance measures commonly utilized and accepted in quantitative research (Morgan et al., 2013). The tests utilized were appropriate for the type of data and hypotheses (Morgan et al.).

Transition and Summary of Section 2

This non-experimental quantitative study of associations between financial indicators and fraud in U.S. 501(c)(3) nonprofit organizations has been described through this section. The primary purpose of this study was to add to the body of knowledge through the development of new evaluation methods for fraud risk analysis of nonprofit organizations. The researcher developed the research method and design specifically to address the research questions of the study. The independent and dependent variables were selected by the researcher to investigate the research questions. Quantitative data analyses was performed on the data collected to derive conclusions for the study. The researcher took reasonable steps in the design and implementation of the study to address threats to reliability and validity.

The findings of the study are presented in the next section. The results of each of the hypotheses are stated and discussed. A detailed discussion provided for how the findings

assisted in answering the research questions of the project as well as how they contribute to the field of accounting.

Section 3: Application to Professional Practice and Implications for Change

Fighting fraud has become a focus of both for-profit and nonprofit organizations world-wide (ACFE, 2018). Nonprofit organizations are especially vulnerable to fraud (Crumbley et al., 2017). Governing bodies have attempted to implement policies to help notify stakeholders of fraud in nonprofit organizations (IRS, 2017). However, the IRS requirement merely provides notification when a significant diversion is discovered by the organization and it is only required to be reported if the diversion is deemed significant, falling above the reporting threshold. Consequently, stakeholders may only find out about fraud if it is large enough to be reported and only after it has occurred. Due to limited and/or restricted resources, nonprofit organizations may not have the ability to recover, making fraud even more catastrophic (Archambeault & Webber, 2018; Bradley, 2015; Gose, 2018; Kim, 2017).

The goal of this research project was to examine the use of financial indicators for the prediction of fraud in U.S. 501(c)(3) nonprofit organizations. The findings of this study are presented in this section. The information provided is presented in seven parts: (a) overview of the study, (b) presentation of the findings, (c) applications to professional practice, (d) recommendations for actions, (e) recommendations for further study, (f) reflections, and (g) summary and study conclusions.

Overview of the Study

It is important for stakeholders of nonprofit organizations to be able to make sound decisions pertaining to the organizations. Stakeholders are often limited to publicly available information, the annual IRS return for exemption organizations. The increasing and often devastating instances of fraud in nonprofit organizations magnify the importance of improved prevention, prediction, and detection methods.

The study of fraud has increased over past decades. However, many of the academic studies conducted about predicting fraud focus on for-profit organizations (Lee et al., 1999; Oltean, 2016; Weske & Benuto, 2015). The academic literature for nonprofit organizations has largely focused on prevention and impact of fraud in nonprofit organizations (Hyndman & McConville, 2016; Jensen & Meisenbach, 2015; Li & McDougle, 2017; Parsons, 2007). Trussel (2003) evaluated the use of financial condition indicators as predictors for accounting manipulation. This applied doctoral research project was developed and conducted to add to the current body of literature concerning the use of financial indicators derived from annual IRS filings for prediction of fraud in nonprofit organizations. The focus was on U.S. nonprofit organizations with a filing status of 501(c)(3) that filed a Form 990 in 2017.

This project was designed to address the two research questions discussed in Section

One. Both research questions focused on evaluating the use of financial indicators to predict
fraud in nonprofits. The first research question examined the use of the individual financial
indicators to predict fraud. The second research question examined the use of a prediction model
with a combination of the financial indicators to predict fraud. Overall, the findings of the study
indicated three of the financial indicators: (a) cash growth rate, (b) ratio of disqualified
compensation to total compensation, and (c) asset growth rate to be individually statistically
significant for the prediction of fraud in the sample analyzed. The findings indicated the model
with seven of the independent variables: (a) revenue growth rate, (b) program expense ratio, (c)
cash growth rate, (d) the ratio of cash to total assets, (e) asset growth rate, (f) the ratio of top
compensation to total expenses, and (g) the ratio of disqualified compensation to total
compensation was a statistically significant prediction model for the sample analyzed. A
detailed discussion of the study findings is provided in the next section.

Presentation of the Findings

The findings of this applied doctoral research project are presented in this section. The researcher designed the project to address two research questions, discussed above. The findings presented in this section addressed each research question. Furthermore, the researcher related the findings to the current body of literature as appropriate.

This project utilized historical financial data collected from 2017 Form 990 filings by Candid. The entire population of U.S. nonprofit organizations with a 501(c)(3) filing status that reported a significant diversion of assets was included in the study (n=228). A random sample of U.S. nonprofit organizations with a 501(c)(3) filing status was selected by Candid to be included in this study (n=416). The period analyzed for this study was 2017. A list of the organizations included in the study is located in Appendix A.

Research Question One

The first research question asked: Is there a statistically significant association between revenue growth rate; program expense ratio; fundraising expense ratio; administration expense ratio; cash and cash equivalents growth rate; ratio of cash and cash equivalents to total assets; total asset growth rate; ratio of compensation to current officers, directors, trustees, and key employees to total expenses; ratio of compensation to current officers, directors, trustees, and key employees to total compensation; ratio of disqualified compensation to total compensation and reported instances of fraud? The researcher addressed this question by analyzing the individual financial indicators using logistic regression analysis in SPSS statistical software. The logistic regression results are given in Appendix E and descriptive statistic information in Appendix F.

Logistic regression analysis was chosen for this study due to the use of a dichotomous dependent variable and multiple independent variables (Leech et al., 2014). There are seven underlying assumptions required for the use of logistic regression in the SPSS statistical software. The researcher ensured all seven assumptions requirements/assumptions were met to ensure the use of binomial logistic regression was appropriate. The first assumption requires the dependent variable to be dichotomous. The data met the requirements with the dichotomous dependent variable of fraud (1) or no fraud (0). Assumption two requires the use of one or more continuous or nominal independent variables (Laerd Statistics, 2017). The data met the requirement with ten independent variables measured as continuous. The third assumption requires the observations to be independent and mutually exclusive in the categories for the dependent variable (Laerd Statistics). The data utilized met the requirement because the organizations either reported fraud or did not. It was not possible for an observation to be both. Therefore, the dependent variable category was mutually exclusive. Assumption four requires an adequate sample size of 15-50 cases per independent variable (Laerd Statistics). For this data set, the requirement would be a sample size of 150-500. The study met this requirement with a sample size of 644.

The next three assumptions are required to ensure the data fits the binomial logistic regression model and can produce a valid result. Assumption five is the linearity assumption. It requires a linear relationship between the independent variables and the logit conversion of the dependent variable (Laerd Statistics, 2017). Linearity of the continuous variables with respect to the logit of the dependent variable was addressed using the Box-Tidwell (1962) procedure (Appendix B). Statistical significance of p<.05 was utilized to determine linearity (Tabachnick

& Fidell, 2014). Based on this assessment, all independent variables except asset growth rate were found to be linearly related to the logit of the dependent variable.

Asset growth rate did not meet the linearity assumption with the Box-Tidwell procedure with p=.001 for the natural log transformation of asset growth. When issues of nonlinear terms arise, the Box-Tidwell procedure in SPSS can be utilized to determine if the original continuous independent variable should be replaced with a power transformation of itself. The researcher analyzed the output from both the binary logistic regression analysis and the Box-Tidwell procedure with natural log transformations. The researcher then calculated lambda as l+(b/gamma) where b is equal to the estimated coefficient for asset growth rate without the added interaction term and gamma is the estimated coefficient for the interaction term between asset growth rate and its natural log transformation. This calculation resulted in a value of 0 for b and a value of .019 for gamma, for a lambda value of 1. A lambda value of 1 requires no transformation of the independent variable (Laerd Statistics, 2017).

The sixth assumption requires the data to be free of multicollinearity. In order to inspect the data for multicollinearity, the researcher inspected the correlation coefficients and VIF/tolerance values (Leech et al., 2014). Two issues with multicollinearity were identified and addressed (Appendix C). Multicollinearity was found with program expense ratio, administrative expense ratio, and fundraising expense ratio. These expense ratios are related and combine for 100% of the total expenses. In order to address this multicollinearity, the researcher removed administrative expense ratio and fundraising expense ratio from the analysis. The researcher chose to keep program expense ratio because it is a common ratio used when assessing efficiency of nonprofit organizations. The other issue with multicollinearity was with the ratio of top compensation to total compensation and top compensation to total expenses.

These two ratios both represented top compensation, so the researcher chose to eliminate top compensation to total compensation. After removing those three independent variables, there were no remaining issues of multicollinearity.

The seventh and last assumption requires the data to be free of significant outliers. The researcher tested for outliers using case diagnostics in the logistic regression output. There was one standardized residual with a value of -2.395 standard deviations (Appendix D). This case was removed from the analysis because the standardized residual was greater than two (Laerd Statistics, 2017).

The researcher then performed logistic regression using SPSS software on the remaining 643 organizations in the sample. The SPSS output for each individual independent variable tested individually for predication capability are shown below in Table 3. The full SPSS output is available in Appendix E. Each individual variable is explained below with each related hypothesis.

Table 3

Logistic Regression Predicting Likelihood of Fraud based on Each Individual Independent Variable

Variable	Score	df	р
Revenue Growth Rate	3.293	1	.070
Program Expense Ratio	1.037	1	.309
Cash Growth Rate	11.763	1	.001
Ratio of Cash to Total Assets	1.569	1	.210
Asset Growth Rate	3.977	1	.046
Ratio of Top Compensation to Total	.192	1	.661
Expenses			
Ratio of Disqualified Compensation to Total	4.533	1	.033
Compensation			
Overall Statistics	21.627	8	.006

Hypothesis 1. Hypothesis 1 stated that there is a statistically significant association between the revenue growth rate and reported instances of fraud. Revenue growth rate was calculated as the percentage change in revenues from the prior year. As revenues change, incentives and opportunities for fraud may exist. The motive/pressure and opportunity are two of the three parts of Cressey's (1973) fraud triangle. As revenues increase, there may be an increased opportunity for fraud to occur (Behn et al., 2010). This increased opportunity may further exacerbate the agency problem (Jensen & Mackling, 1976) and hinder the stewardship theory (Donaldson & Davis, 1991). There are situational and psychological factors that influence how one acts when serving as an agent or a steward (Davis et al., 1997; Pastoriza & Arino, 2008). As an organization grows, these factors may change, which can increase the risk of management acting in their own self-interest more than for the stakeholders of the organizations. These factors influence fraud risk, specifically contributing to motive and pressure (fraud triangle). In times of growth, internal controls may not be updated timely to maintain adequate segregation of duties. If there is not an appropriate segregation of duties, then that leaves opportunity for fraud to occur.

As revenues decrease, there may be an incentive/pressure for managers to fraudulently report financial operations to satisfy board members and donors (Trussel, 2003). The pressure on management for good performance, coupled with decreasing revenues may also exacerbate the agency problem and hinder the stewardship theory. This pressure increases the risk that managers may act against the best interest of the organization with acts to misrepresent the organization's financial condition for personal gain. Management may misreport functional expenses to achieve more favorable results (Garven et al., 2016; Wing, et al., 2006; Yetman & Yetman, 2012).

A binomial logistic regression was performed to determine the effects of revenue growth rate on the likelihood that the sample nonprofit organizations have reported fraud. Revenue growth rate was not deemed to be statistically significant with a p-value of .07. Table 3 contains the logistic regression results for this hypothesis. This finding supports the conclusion of Trussel (2003). Trussel studied financial indicators of 8,496 nonprofit organizations to determine their effects on the likelihood that the sample could be potential accounting manipulators. The finding was that revenue growth was not statistically significant as an indicator for fraudulent organizations (Trussel). When assessing the use of a prediction model with revenue growth rate as an indicator, it was also deemed not to be statistically significant. The results of this analysis are included in Appendix E. There was no relationship, positive nor negative, to the prediction of fraud. This result indicates that revenue growth may not have a significant impact the fraud triangle, agency theory, nor stewardship theory in nonprofit organizations.

Hypothesis 2. Hypothesis 2 stated that there is a statistically significant association between the program expense ratio and reported instances of fraud. The program expense ratio was calculated as total program expenses divided by total expenses. The program expense ratio is often used to assess the efficiency of nonprofit organizations (Chikoto & Neely, 2014; Kim, 2017). It is generally desirable for a nonprofit organization to have higher program expense ratios, indicating a majority of the expenses are going towards the program and mission of the organization. Donors may evaluate the program expense ratio when making contribution decisions (Greenlee & Brown, 1999; Jacobs & Marudas, 2009; Kim, 2017; Mankaney & Tinkleman, 2007; Marudas, 2004; Tinkleman, 1998; Trussel & Parsons, 2007). Therefore, there is pressure for management of nonprofit organizations to manage overhead expenses and expense ratios in order to retain donor support and remain sustainable. This pressure, as

explained above, exacerbates the agency problem and hinders the stewardship theory, increasing the risk of management in their own self-interest rather than those of the stakeholders. The pressure factor influence fraud risk, specifically contributing to motive/pressure (fraud triangle).

A binomial logistic regression was performed to determine the effects of the program expense ratio on the likelihood that the sample nonprofit organizations have reported fraud. The program expense ratio was not deemed to be statistically significant with a p-value of .309.

Table 3 contains the logistic regression results for this hypothesis. Trussel (2003) looked at the change in program expense ratio and found that to be significant when predicting accounting manipulation in nonprofit organizations. However, this study did not look at the year-to-year changes. Using one year of data in this study, resulted in no statistical association.

Hypothesis 3. Hypothesis 3 stated that there is a statistically significant association between the fundraising expense ratio and reported instances of fraud. The fundraising expense ratio was calculated as total fundraising expenses divided by total expenses. Fundraising expenses are overhead costs and are not deemed as directly contributing to the programs/mission of the organization. Potential donors, watchdog organizations, and other stakeholders tend to perceive high overhead costs and non-program expenses as indicators of inefficiency and waste (Chikoto & Neely, 2014; Kim, 2017). These perceived inefficiencies have been associated with reduced donor confidence and support (Greenlee & Brown 1999; Jacobs & Marudas, 2009; Mankaney & Tinkleman, 2007). It has been demonstrated through previous studies that nonprofit organizations who are considered to be more efficient, receive larger contributions (Greenlee & Brown, 1999; Jacobs & Marudas, 2009; Mankaney & Tinkleman, 2007; Marudas, 2004; Tinkleman, 1998; Trussel & Parsons, 2007). This results in pressure for management of nonprofit organizations to manage overhead expenses and expense ratios in order to retain donor

support and remain sustainable. This pressure coupled with intense competition among nonprofit organizations for resources makes expense management very important and exacerbates the agency problem and hinders the stewardship theory. As explained above, this pressure influences fraud risk by contributing to the motive/pressure leg of the fraud triangle.

A binomial logistic regression was performed to determine the effects of the fundraising expense ratio on the likelihood that the sample nonprofit organizations have reported fraud. The fundraising expense ratio was not deemed to be statistically significant with a p-value of .492.

Table 3 contains the logistic regression results for this hypothesis.

Hypothesis 4. Hypothesis 4 stated that there is a statistically significant association between the administrative expense ratio and reported instances of fraud. The administrative expenses ratio was calculated as total administrative expenses divided by total expenses.

Administrative expenses are overhead costs and are not deemed as directly contributing to the programs/mission of the organization. As explained above, potential donors, watchdog organizations, and other stakeholders tend to perceive high overhead costs and non-program expenses as indicators of inefficiency and waste (Chikoto & Neely, 2014; Kim, 2017). This leads to pressure for management to control administrative expenses as much as possible, which increases the motive/pressure leg of the fraud triangle. Sometimes, this pressure may lead management to make decisions in their own self-interest rather than that of the stakeholders. When management acts in their own self-interest, they are violating their stewardship and agency fiduciary duties.

A binomial logistic regression was performed to determine the effects of the administrative expense ratio on the likelihood that the sample nonprofit organizations have

reported fraud. The administrative expense ratio was not deemed to be statistically significant with a p-value of .955. Table 3 contains the logistic regression results for this hypothesis.

Hypothesis 5. Hypothesis 5 stated that there is a statistically significant association between the cash and cash equivalents growth rate and reported instances of fraud. The cash and cash equivalents growth rate was calculated as the 2016 to 2017 change divided by the 2016 ending balances. The change in cash and cash equivalents was calculated as the year-end balance reported for "cash" and "savings and temporary cash investments" minus the beginning of year total. The growth rate was then calculated by dividing the annual change by the beginning balance. The use of asset growth as an independent variable has been widely used in fraud studies (Petrovitis et al., 2011; Skousen et al., 2008; Summers & Sweeney, 1998).

As cash and cash equivalent balances increase, there may be an increased opportunity for fraud to occur. As explained, this increased opportunity may further exacerbate the agency problem (Jensen & Mackling, 1976) and hinder the stewardship theory (Donaldson & Davis, 1991) because management may act in their own self-interest rather than that of the stakeholders. In times of growth, internal controls may not be updated timely to maintain adequate segregation of duties. If there is not an appropriate segregation of duties, then that leaves opportunity for fraud to occur.

A binomial logistic regression was performed to determine the effects of the cash growth rate on the likelihood that the sample nonprofit organizations have reported fraud. The cash growth rate was deemed to be statistically significant with a p-value of .001. Table 3 contains the logistic regression results for this hypothesis. This finding supports the conclusions of Petrovitis et al. (2011), Skousen et al. (2008), and Summers and Sweeny (1998). The researchers found asset growth to be positively related to the likelihood of fraud (Skousen et al.; Summers &

Sweeny). Petrovitis et al. found asset growth in nonprofit organizations was positively associated with the existence of internal control deficiencies. This finding supports the opportunity leg of the fraud triangle. In times of growth, it may be difficult for organizations to update and implement appropriate internal controls, which may increase the risk of fraud. When assessing the use of a prediction model with cash growth rate as an indicator, it was also deemed to be statistically significant. The results of this analysis are included in Appendix E. There was a positive relationship to the prediction of fraud. This result indicates that cash growth may have a significant impact the fraud triangle, agency theory, and stewardship theory in nonprofit organizations.

Hypothesis 6. Hypothesis 6 stated that there is a statistically significant association between the ratio of cash and cash equivalents to total assets and reported instances of fraud. The ratio of cash and cash equivalents to total assets was calculated by dividing the year-end balances by the year-end balance for total assets. The liquidity and ease of access makes cash more susceptible to fraud (ACFE, 2016). Weak or a lack of internal controls may increase the risk of fraud by allowing an opportunity (fraud triangle) for cash to be misappropriated.

A binomial logistic regression was performed to determine the effects of the ratio of cash and cash equivalents to total assets on the likelihood that the sample nonprofit organizations have reported fraud. The ratio of cash and cash equivalents to total assets was not deemed to be statistically significant with a p-value of .210. Table 3 contains the logistic regression results for this hypothesis.

Hypothesis 7. Hypothesis 7 stated that there is a statistically significant association between the total asset growth rate and reported instances of fraud. The total asset growth rate was calculated as the 2016 to 2017 change divided by the 2016 ending balance. As explained

above, asset growth has been widely used in fraud studies as an independent variable (Petrovitis et al., 2011; Skousen et al., 2008; Summers & Sweeney, 1998).

As total assets increase, there may be an increased opportunity for fraud to occur. As previously explained, this increased opportunity may further exacerbate the agency problem (Jensen & Mackling, 1976) and hinder the stewardship theory (Donaldson & Davis, 1991) because management may act in their own self-interest rather than that of the stakeholders. In times of growth, internal controls may be weak or inadequate, leaving opportunity for fraud to occur.

A binomial logistic regression was performed to determine the effects of the total asset growth rate on the likelihood that the sample nonprofit organizations have reported fraud. The total asset growth rate was deemed to be statistically significant with a p-value of .046. Table 3 contains the logistic regression results for this hypothesis. This finding supports the conclusions of Petrovitis et al. (2011), Skousen et al. (2008), and Summers and Sweeny (1998). The researchers found asset growth to be positively related to the likelihood of fraud (Skousen et al.; Summers & Sweeny). Petrovitis et al. found asset growth in nonprofit organizations was positively associated with the existence of internal control deficiencies. This finding supports the opportunity leg of the fraud triangle. In times of growth, it may be difficult for organizations to maintain adequate internal controls, which may increase the risk of fraud.

Hypothesis 8. Hypothesis 8 stated that there is a statistically significant association between the ratio of compensation to current officers, directors, trustees, and key employees to total expenses and reported instances of fraud. The ratio of compensation to current officers, directors, trustees, and key employees to total expenses was calculated as total 2017 compensation for current officers, directors, trustees, and key employees divided by total

expenses for 2017. There have been studies of the executive compensation and its impact on the agency problem in the for-profit sector (Andergassen, 2016; Conyon & He, 2016; Dechow et al., 1996; Harris & Bromiley, 2007; O'Connor et al., 2006; Zhang et al., 2008). There is concern about whether or not management will act in their own self-interest or in the best interest of the company (Jensen & Meckling, 1976). In in the for-profit sector, research has focused on compensation plans in an effort to mitigate the agency problem and reduce fraud risk (Andergassen; Conyon & He; Dechow et al.; Harris & Bromiley; O'Connor et al.; Zhang et al.). Their findings support aligning goals of the organization with management in order to alleviate the rationalization leg of the fraud triangle and the agency problem. In the nonprofit sector, research has focused on the relationship between executive pay and performance (Baber et al., 2002; Balsam & Harris, 2018; Sedatole et al., 2018).

A binomial logistic regression was performed to determine the effects of the ratio of compensation to current officers, directors, trustees, and key employees to total expenses on the likelihood that the sample nonprofit organizations have reported fraud. The ratio of compensation to current officers, directors, trustees, and key employees to total expenses was not deemed to be statistically significant with a p-value of .661. Table 3 contains the logistic regression results for this hypothesis.

Hypothesis 9. Hypothesis 9 stated that there is a statistically significant association between the ratio of compensation to current officers, directors, trustees, and key employees to total compensation and reported instances of fraud. The ratio of compensation to current officers, directors, trustees, and key employees to total compensation was calculated as total 2017 compensation for current officers, directors, trustees, and key employees divided by total compensation for 2017. As explained above, there have been studies of the impact of executive

compensation on the agency problem and stewardship theory in both the for-profit and nonprofit sectors (Andergassen, 2016; Baber et al., 2002; Balsam & Harris, 2018; Conyon & He, 2016; Dechow et al., 1996; Harris & Bromiley, 2007; O'Connor et al., 2006; Sedatole et al., 2018; Zhang et al., 2008).

A binomial logistic regression was performed to determine the effects of the ratio of compensation to current officers, directors, trustees, and key employees to total compensation on the likelihood that the sample nonprofit organizations have reported fraud. The ratio of compensation to current officers, directors, trustees, and key employees to total compensation was not deemed to be statistically significant with a p-value of .866. Table 3 contains the logistic regression results for this hypothesis.

Hypothesis 10. Hypothesis 10 stated that there is a statistically significant association between the ratio of disqualified compensation to total compensation and reported instances of fraud. The ratio of disqualified compensation to total compensation was calculated as total 2017 disqualified compensation divided by total compensation for 2017. Disqualified compensation has not been widely studied and includes amounts paid to who the IRS deems a disqualified person.

A binomial logistic regression was performed to determine the effects of the ratio of disqualified compensation to total compensation on the likelihood that the sample nonprofit organizations have reported fraud. The ratio of disqualified compensation to total compensation was deemed to be statistically significant with a p-value of .033. Table 3 contains the logistic regression results for this hypothesis. If someone has perpetrated fraud, the organization may report amounts stolen as disqualified compensation. Therefore, the researcher anticipated a positive association between the ratio of disqualified compensation to total compensation and

reported fraud. When assessing the use of a prediction model with the ratio of disqualified compensation to total compensation as an indicator, it was also deemed to be statistically significant. The results of this analysis are included in Appendix E. There was a positive relationship to the prediction of fraud. This result indicates that nonprofit organizations may be correctly reporting amounts stolen as disqualified compensation on their Form 990 filings.

Research Question Two

The second research question asked: Is any combination of the financial variables able to predict fraud within the sample? The researcher addressed this question with binomial logistic regression analysis using SPSS software. This analysis was conducted on the seven remaining independent variables after assumption testing: (a) revenue growth rate, (b) program expense ratio, (c) cash growth rate, (d) the ratio of cash to total assets, (e) asset growth rate, (f) the ratio of top compensation to total expenses, and (g) the ratio of disqualified compensation to total compensation. Assumption testing was discussed above, and results are shown in Table 4 and Appendix E.

Hypothesis 11. Hypothesis 11 stated that some combination of the financial variables is able to predict fraud within the sample. A binomial logistic regression was performed to determine the effects of revenue growth rate; program expense ratio; cash growth rate; cash and cash equivalents to total assets; asset growth rate; the ratio of compensation to current officers, directors, trustees, and key employees to total expenses; and the ratio of disqualified compensation to total compensation on the likelihood that the sample of nonprofit organizations have reported fraud. Linearity of the continuous variables with respect to the logit of the dependent variable was assessed using the Box-Tidwell (1962) procedure. Based on this assessment, all continuous independent variables except asset growth rate were found to be

linearly related to the logit of the dependent variable. It was determined the asset growth rate variable did not require transformation and thus, satisfied the linearity requirement. There was one standardized residual with a value of -2.395 standard deviations, which was removed from the analysis. To test H11, the researcher estimated the following logistic regression model:

Fraud= $\beta_0+\beta_1(revgrowth)-\beta_2(progexp)+\beta_3(cashgrowth)+\beta_4(cashassets)+\beta_5(assetgrowth)+$ $\beta_6(topcompexp)+\beta_7(disqualified)$

The logistic regression model was statistically significant, x²(7)=24.06, p<.005. The model explained 5.0% (Nagelkerke R²) of the variance in fraud and correctly classified 66.7% of the cases. Sensitivity was 10.1%, specificity was 97.8%, positive predictive value was 71.88%, and negative predictive value was 66.45% (Appendix E). Of the seven predictor variables only two were statistically significant: cash growth rate (p=.031) and ratio of disqualified compensation to total compensation (p=.030). For each unit increase in cash growth rate, the odds of reporting fraud increase by a factor of .99. For each unit increase in the ratio of disqualified compensation to total compensation, the odds of reporting fraud increase by a factor of .986. The predictive model is as follows:

Fraud=.396+.001cashgrowth-.003progexp-.002cashasset+.013disqualified-.002topcompexp

Revenue growth rate and asset growth rate were omitted from the predictive model equation due to a beta value of zero. Table 4 contains the logistic regression results for this hypothesis.

Logistic Regression Predicting the Likelihood of Fraud based on revgrowth_i, progexp_i, cashgrowth_i, cashassets_i, assetgrowth_i, topcompexp_i, and disqualified_i

8 7 7				- 10			2521 83	2 2 4 4
	В	SE	Wald	df	p	Odds	95% CI for Odds	
						Ratio	Ratio	
							Lower	Upper
Cash Growth Rate	.001	.000	5.191	1	.023	1.001	1.000	1.001
Revenue Growth Rate	.000	.000	.676	1	.411	1.000	.999	1.001
Program Expense Ratio	003	.004	.589	1	.443	.997	.990	1.004
Ratio of Cash to Total Assets	002	.002	1.435	1	.231	.998	.994	1.001
Ratio of Disqualified	.013	.006	4.484	1	.034	1.013	1.001	1.026
Compensation to Total								
Compensation								
Ratio of Top Compensation to	002	.008	.080	1	.777	.998	.982	1.014
Total Expenses								
Asset Growth Rate	.000	.000	.031	1	.860	1.000	.999	1.001
Constant	396	.307	1.670	1	.196	.673		

Summary of the Findings

Table 4

The researcher found three of the ten individual independent variables: (a) cash growth rate, (b) asset growth rate, and (c) ratio of disqualified compensation to total compensation were individually statistically significant for the prediction of fraud in the sample analyzed.

Assumption testing for the prediction model resulted in the removal of one outlier organization and three independent variables. The remaining seven independent variables: (a) revenue growth rate, (b) program expense ratio, (c) cash growth rate, (d) the ratio of cash to total assets, (e) asset growth rate, (f) the ratio of top compensation to total expenses, and (g) the ratio of disqualified compensation to total compensation were analyzed using binomial logistic regression to determine any predictive capability if used as a model. The researcher found that the model analyzed was a statistically significant prediction model for reported fraud in the sample of nonprofit organizations.

Applications to Professional Practice

The research findings of this study can be applied practically within the business environment and field of accounting. In addition, the findings may be relevant to managers, directors, auditors, donors, and other stakeholders of nonprofit organizations. This section provides discussion for the effects of these findings on nonprofit organizations and its stakeholders as well as the practice of business and accounting. A discussion of the implications of the findings in relation to the practice of professional accountancy will follow. The conclusion of this section includes a discussion about the biblical application of the findings of this study, as well as how that relates to the biblical framework discussed in Section One of this dissertation.

Practice of Business

Implementation of an effective system of internal controls is imperative for a business to operate efficiently, safeguard assets, comply with regulations, reduce the risk of fraud and error, and achieve organizational objectives (Peltier-Rivet & Lanoue, 2015). As discussed in Section One, the fraud triangle consists of motive/pressure, opportunity, and rationalization (Cressey, 1973). Organizations must be aware of the fraud triangle and its application to their business. An organization has the most control over the opportunity a person has to perpetrate fraud through the implementation of internal controls using policies and procedures to eliminate or minimize the opportunity. However, an organization has less control over the motive/pressure and rationalization of a perpetrator because they may be influenced by personal factors. The findings of cash growth rate and the ratio of top compensation to total compensation further justify the importance of an organization to implement adequate internal controls and address management incentives.

Cash growth rate was found to be statistically significant at p=.001 (individual predictor) and p=.023 (combined predictive model). The results of the combined predictive model indicate that for each unit increase in cash growth rate, the odds of reporting fraud increase by a factor of .99. This finding supports previous literature that opportunity for fraud may increase in times of growth due to lack of informal system of controls or inability to keep up with the growth (Hess & Cottrell, 2012; Mbroh, 2012). Revenue growth rate was not found to be statistically significant in the prediction of reported fraud. This finding is significant to the practice of business in that revenue growth alone does not mean the fraud risk is increased, rather it appears that the type of assets on hand may be a factor. Businesses should take this finding as further support for the need to review and implement adequate internal controls. This is especially true during times of growth in liquid assets, such as cash, which are more easily diverted.

The management of nonprofit organizations face pressure to manage organizational resources in a way that obtains the mission of the organization and satisfies donors, creditors, and other stakeholders. This pressure is exacerbated by the focus of donor evaluation of the program expense ratio (Chikoto & Neely, 2014; Kim, 2017). As previously discussed, this focus can be dangerous for nonprofit organizations because it increases the motive/pressure portion of the fraud triangle (Garven et al., 2016; Krishnan et al., 2006; Wing et al., 2006; Yetman & Yetman, 2012). The result indicating top compensation to total compensation has a negative impact on the likelihood of reported fraud indicates higher levels of compensation to executives of nonprofit organizations may create goal asymmetry (Tan & Lee, 2015) and may alleviate the agency problem by aligning the goals of the organization and donors (principals) with the agent (management). This finding demonstrates that management may utilize resources in the best interest of the agents/stakeholders (Donaldson & Davis, 1991) more as monetary incentives

increase. Thus, supporting the Brown and Yoshioka (2003) finding that perceptions of adequacy of pay was a factor in the agent/steward's focus on their own self-interest versus the interests of the principals.

The findings of this study can be applied practically in the evaluation by managers, board members, potential creditors, auditors, policy makers, and prospective donors. It is the responsibility of management and board members to adequately assess a nonprofit organization's internal control structure and fraud risk in a way that maximizes the strategic use of organizational resources and protection of those resources. The predictor variables and prediction model may be used to perform fraud risk and management assessments. The model may also be used in risk assessment by potential creditors, audit and fraud risk assessment by auditors, and selection of Form 990 filings for audit by the IRS. Potential major donors may want to utilize the prediction capabilities when selecting an organization to support.

Practice of Accounting

Accountants perform many functions including advisory services, the preparation of financial statements, audit, and review services. The accountant is relied upon to be an expert on vast scale of financial issues (AICPA, 2015). Therefore, as an accountant, one must ensure they understand the specific needs of each client. The findings of this study impact the practice of accounting in three main ways: (a) with the preparation of nonprofit organization financial statements and/or reports (b) with the audit of nonprofit organizations, and (c) advisory services to include fraud prevention programs and internal control advice.

Professional accountants must be aware of the business practices and reporting requirements of nonprofit organizations under both FASB and IRS. The accountants use that knowledge in the accurate preparation of reports and financial statements, and in performing

audits. Reports and financial statements are relied upon by all stakeholders, including board members, creditors, and potential donors. Therefore, it is imperative that accountants are acting in the public's interest.

An adequate understanding of fraud risk factors is imperative in order for accountants to act professionally and ethically when preparing reports and financial statements. Accountants may be able to utilize the predictor variables and predictive model to help clients address any potential issues and provide further guidance. Accountants may provide additional services such as development of fraud prevention programs, development of internal control policies, and procedures to further assist clients with fraud prevention. The findings of this project will assist accountants to become better-informed regarding fraud risk factors in nonprofit organizations.

Professional accountants who possess a Certified Public Accountant (CPA) designation are bound by the American Institute of Certified Public Accountant (AICPA) Code of Professional Conduct. The Code of Conduct includes a public interest principle, which requires CPAs to conduct themselves in a way that serves the public interest, upholds public trust, and exhibits a high commitment to professionalism (AICPA, 2018). When engaged to perform an audit for a client, it is important to honor the client agreement, but if there is a conflict with public interest, the CPA must always uphold the public interest. Therefore, if an auditor discovers fraud, they must report it appropriately and act in the best interest of the public (i.e., all stakeholders), as well as upholding any required confidentiality. As an auditor, the findings can be used to understand risk factors, develop audit plans, and design substantive testing. This may improve audit results and identification of issues, which would in turn improve communication of such issues to the public via audit reports.

Biblical Application

The biblical implication of this study reinforces the need for man to appropriately utilize and protect resources God has provided. As previously discussed, fraud directly violates the God's Ten Commandments through the act of deception and theft. In Exodus 20:15 God states: "You shall not lie. You shall not give false testimony against your neighbor" (NIV). Stealing is addressed in Exodus 20:15 and 20:17. God desires for people to respect and honor the possessions of others. "You shall not steal" (Exodus 20:15). "You shall not covet your neighbor's wife, or his male or female servant, his ox or donkey, or anything that belongs to your neighbor" (Exodus 20:17). Often, an internal perpetrator of fraud is in a position of stewardship and should protect an organization's assets and act as an agent in the best interest of the organization.

According to the findings in this study, as a nonprofit organization's liquid assets grow, the likelihood that fraud will be reported increases. Thus, having an increase in liquid assets may be a temptation for some to steal. The love of money (i.e., greed) as a temptation is discussed throughout the Bible. The Apostle Paul states in 1 Timothy 6:10, "For the love of money is a root of all kinds of evil. Some people, eager for money, have wandered from the faith and pierced themselves with many griefs." This greed may enhance the temptations of other sins as well and may ultimately lead one further away from God's will.

Greed is an innate part of human nature and must be protected against and on both a personal and an organizational level. It is important to address any stewardship positions and the agency problem, as well as internal controls to protect an organization from fraud. The Bible addresses stewardship and proper planning in Luke 14:28-30, where Jesus states:

Suppose one of you wants to build a tower. Won't you first sit down and estimate the cost to see if you have enough money to complete it? For if you lay down the foundation are not able to finish it, everyone who sees it will ridicule you, saying, 'This person began to build and wasn't able to finish.'

It is apparent that planning is important to the survival of nonprofit organizations. Proper planning includes creating and implementing effective internal controls and creating appropriate management incentives to encourage stewardship behavior and eliminate the agency problem.

Van Duzer (2010) discussed God's desire or organizations to serve the community and remain sustainable. It is the duty of nonprofit management and board members to ensure appropriate management and strategic allocation of resources in a manner that assures sustainability in accordance to God's purpose. It is stated in Jeremiah 32:19, "Great are your purposes and mighty are your deeds..." Nonprofit organizations have missions to benefit society overall or a subsection of society. The benefit to society may be unmet if the organization falls victim to fraud. Therefore, it is the hope of the researcher that the findings of this study may help to improve evaluation and planning methods in nonprofit organizations with the use of financial indicators of fraud. The prediction model is statistically significant and can be utilized to help evaluate a nonprofit organization for fraud risk. Organizations that are able to understand and guard against fraud risk may be able to avoid the issues associated with such occurrences. Also, organizations or auditors who may evaluate the fraud risk or prediction in nonprofit organizations may help organizations identify fraud more quickly. Thus, minimizing the overall negative consequences of fraud incidents and contribute to increased sustainability of such organizations.

Recommendations for Action

The results of this dissertation are relevant to all U.S. nonprofit organizations. From a broad perspective, the results could also be relevant to fraud risk and management in the forprofit sector where applicable. Examples include management incentives to encourage stewardship and alleviate the agency problem and fraud risk increased by cash growth.

Managers, board members, auditors, creditors, policymakers, and other stakeholders could learn from the results of this study and use that knowledge to better improve fraud prediction and risk assessment. The results could also be utilized by donors to assess the sustainability of nonprofit organizations when making contribution decisions.

The prediction model evaluated in this study may improve prediction of reported fraud in U.S. nonprofit organizations. The recommended action from this study is to integrate the financial predictors and financial prediction model into fraud detection and risk models for use by management, board members, auditors, potential creditors, policy makers, and prospective donors. The recommended specific steps to implement the results of this study into fraud risk and detection models are for: (a) nonprofit management and board members to implement a fraud risk assessment model integrating the predictive variables and model, (b) auditors of nonprofit organizations to integrate these findings in their risk assessment processes and audit substantive testing, (c) creditors of nonprofit organizations to integrate the predictor variables and model in their risk assessment processes, (d) policy makers (e.g., the Congress and the IRS) to integrate these findings as part of their audit risk factors for audit of Form 990 filings, and (e) donors to integrate the predictor variables and model as factors when making major contribution decisions.

This information should be disseminated as widely as possible to those interested in nonprofit management and nonprofit organization stakeholders. The publication of the research findings in academic and industry-specific journals to enhance the capability of use and application of the prediction model for nonprofit organizations and fraud prediction would be advisable. The findings may also be disseminated through online media sources such as reports, blogs, professional organization websites, audit firms' websites, and social media platforms.

Recommendations for Further Study

The results of this study contributed to the limited body of literature that exists regarding the prediction of fraud in U.S. nonprofit organizations. Further studies are recommended regarding this topic. Due to the lack of empirical research on reported fraud by U.S. nonprofit organizations, many avenues are open for future research.

Recommendations for further study include the consideration of alternative financial variables, the inclusion of nonfinancial variables, expansion of time period to be studied, and the use of classifications for the organizations. First, the addition of other financial variables may better predict reported fraud in nonprofit organizations. The researcher recommends the consideration of alternative financial variables such as debt ratio, surplus margin, organizational size measured financially (Burde, 2018), and program expense change ratio (Trussel, 2003). Second, the inclusion of nonfinancial variables, such as corporate governance, existence of formal policies, and relationship with controlled entities or related parties, might improve the model. Previous studies in the for-profit sector have evaluated corporate governance variables such as board size, independence, and existence of an audit committee (Uzun, Szewczyk, & Varma, 2004; Wilbanks, Hermanson, & Sharma, 2017; Yang, Jiao, & Buckland, 2017).

Nonprofit organizations in the U.S. are required to disclose information about conflict of interest

and whistleblower policies, as well as the existence of controlled entities and financial relationships with related entities. The researcher recommends analyzing that information for improved predictive capabilities and support for internal controls.

Third, the research recommends expanding the time frame of the data analyzed. Expanding the time frame to analyze five or more years would help to determine how the financial variables changed over time and if the change over time impacts the likelihood of reported fraud. Lastly, the researcher recommends evaluating the use of classifications for the organizations. For this study, the researcher analyzed a sample of all U.S. nonprofit organizations with a tax exemption status granted under IRC Section 501(c)(3). Future research could consider the use of NTEE codes and the age of the organization.

Reflections

The researcher began this study with the anticipation that the seven independent variables would be statistically significant predictors for reported fraud. However, only three of the seven independent variables were found to be individually statistically significant and only two when used in the predictive model. The researcher expected revenue growth rate, program expense ratio, cash growth rate, asset growth rate, and the ratio of disqualified compensation to total compensation to be statistically significant predictors. However, only cash growth rate, asset growth rate, and ratio of disqualified compensation to total compensation were statistically significant as individual predictors. Cash growth rate and the ratio of disqualified compensation to total compensation were also statistically significant in the predictive model.

The results indicated a positive change in cash growth rate and ratio of disqualified compensation to total compensation may increase the likelihood of reported fraud. These results were anticipated by the researcher. Results also indicated a positive change in program expense

ratio, ratio of cash to total assets, and ratio of top compensation to total expenses may decrease the likelihood of reported fraud. The researcher did not anticipate the relationship of ratio of cash to total assets. It was anticipated that as an organization maintained higher proportions of cash to total assets, they would experience an increased risk of fraud. However, that was not the case with the sample and data analysis. Instead, it appears that the cash growth rate is more indicative of increased fraud risk.

In addition, the findings support the importance of planning and stewardship to protect organizational assets. King Solomon stated in Proverbs 21:5: "The plans of the diligent lead to profit as surely as haste leads to poverty" (NIV). Appropriate planning helps an organization prepare for problems and react more quickly increasing chances of survival and abundance. As the Apostle Paul stated in Philippians 4:8, "Finally, brothers and sisters, whatever is true, whatever is noble, whatever is right, whatever is pure, whatever is lovely, whatever is admirable – if anything is excellent or praiseworthy – think about such things" (NIV). This verse is one of many throughout the Bible that encourages people to do what is right and stand up for Godly righteousness and against evil. People should not partake in evil, such as fraudulent actions. The Apostle Peter warned in 1 Peter 5:8: "Be sober-minded; be watchful. Your adversary the devil prowls around like a roaring lion, seeking someone to devour" (ESV). Using predictor variables and prediction models to help predict reported fraud is helping to do what is just and right to prevent and/or detect fraud which helps to minimize damages. If one discovers fraud, then they should stand up against it, expose it (if appropriate), and warn others when possible.

Finally, the researcher was encouraged by the results of the study. There are many opportunities for additional research and the results are useful to the business and accounting field as well as the nonprofit industry and its stakeholders. The researcher was pleased to help

fill a gap in the current body of literature and aspires to conduct follow up studies that help to bring further understanding of fraud prediction for the nonprofit industry.

Summary and Conclusions

The researcher designed and conducted this applied doctoral research project to examine the use of financial indicators as predictors of fraud in U.S. nonprofit organizations. The researcher specifically examined the use of the following independent variables as predictors of reported fraud: (a) cash growth rate, (b) revenue growth rate, (c) program expense ratio, (d) ratio of cash to assets, (e) ratio of disqualified compensation to total compensation, (f) ratio of top compensation to total expenses, and (g) asset growth rate. The year 2017 was utilized for the study and a sample was taken from all 2017 Form 990 filings of U.S. nonprofit organizations with an exempt status under IRC Section 501(c)(3). The determinant for fraud was the reporting or nonreporting of a significant diversion of assets on the 2017 Form 990 filings.

A binomial logistic regression was performed to determine the effects of revenue growth rate; program expense ratio; cash growth rate; cash and cash equivalents to total assets; asset growth rate; the ratio of compensation to current officers, directors, trustees, and key employees to total expenses; and the ratio of disqualified compensation to total compensation on the likelihood that the sample of nonprofit organizations have reported fraud. The researcher found three of the independent variables to be individually statistically significant at the p=.05 level for the prediction of fraud in the sample analyzed: (a) cash growth rate (p=.001), (b) asset growth rate (p=.046), and (c) ratio of disqualified compensation to total compensation (p=.033). The logistic regression model with all seven variables was statistically significant at the 99.9% level of confidence (p=.001). The model explained 5.0% (Nagelkerke R²) of the variance in fraud and correctly classified 66.7% of the cases. Sensitivity was 10.1%, specificity was 97.8%, positive

predictive value was 71.88%, and negative predictive value was 66.45% (Appendix E). Of the seven predictor variables only two were statistically significant: cash growth rate (p=.031) and ratio of disqualified compensation to total compensation (p=.030). For each unit increase in cash growth rate, the odds of reporting fraud increase by a factor of .99. For each unit increase in the ratio of disqualified compensation to total compensation, the odds of reporting fraud increase by a factor of .986.

The results of this study will help address the gap in literature regarding the use of financial indicators in fraud prediction for U.S. nonprofit organizations. Much of the current literature regarding financial indicators for fraud prediction focuses on the for-profit sector. The current body of literature has not evaluated prediction models with sample organizations utilizing reported fraud from the new requirement for significant diversion reporting on Form 990 filings. The findings of this study are useful for the direct application of nonprofit organizations for improved fraud prevention, risk assessment, incentive structure, and internal control planning. The findings are also useful for the direct application of auditors for improved risk assessment, audit planning, and substantive testing. More effective fraud prevention methods can help to minimize the losses associated with fraud and improve the sustainability of organizations as well as the ability of those organizations to meet the needs of society.

References

- Adena, M. (2016). Nonprofit organizations, free media and donor's trust. *Journal of Economics*, *118*(3), 239-263. doi:10.1007/s00712-016-0477-5
- American Institute of Certified Public Accountants (AICPA). (2007). AU Section 316:

 Consideration of fraud in a financial statement audit. Retrieved from http://www.aicpa.org/Research/Standards/AuditAttest/DownloadableDocuments/AU-00316.pdf
- American Institute of Certified Public Accountants (AICPA). (2013, May). COSO Internal

 Control Integrated Framework. Retrieved from https://www.aicpa.org/interestareas

 /businessindustryandgovernment/resources/riskmanagmentandinternalcontrol/cosointegrated-framework-project.html
- American Institute of Certified Public Accountants (AICPA). (2018). Segregation of Duties.

 Retrieved from https://www.aicpa.org/interestareas/informationtechnology/resources
 /auditing/internalcontrol/value-strategy-through-segregation-of-duties.html
- Andergassen, R. (2016). Managerial compensation, product market competition and fraud.

 International Review of Economics and Finance, 45, 1-15. doi:10.1016/j.iref.2016.04.010
- Archambeault, D., & Webber, S. (2018). Fraud survival in nonprofit organizations: Empirical evidence. *Nonprofit Management and Leadership*, 29(1), 29-46.
- Archambeault, D., Webber, S., & Greenlee, J. (2015). Fraud and corruption in U.S. nonprofit entities: A summary of press reports 2008-2011. *Nonprofit and Voluntary Sector Quarterly*, 44(6), 1194-1224. doi:10.1177/0899764014555987
- Arshad, R., Bakar, N., & Othman, F. (2016). Board competencies, network ties and risk management disclosure practices in non-profit organizations. *Journal of Applied Business Research*, 32(5), 1319-1328. doi:10.1930/jabr.v32i5.9761

- Associated Press. (2017, November 7). *Illinois nonprofit to dissolve to settle fraud*. Retrieved from http://www.chicagotribune.com/news/sns-bc-il--veterans-charity-settlement-20171107-story.html
- Association of Certified Fraud Examiners (ACFE). (2015). *Introduction to fraud examination*. Austin, TX: ACFE.
- Association of Certified Fraud Examiners (ACFE). (2018). Report to the nations on occupational fraud & abuse: 2018 global fraud study. Retrieved from https://www.acfe.com/rttn2018/docs/2018-report-to-the-nations.pdf
- Baber, W., Daniel, P., & Roberts, A. (2002). Compensation to managers of charitable organizations: An empirical study of the role of accounting measures of program activities. *The Accounting Review*, 77(3), 679-693.
- Baker, T. (2016, February 22). *Emerging trends in not-for-profit fraud*. Retrieved from http://bakertilly.com/insights/emerging-trends-in-not-for-profit-fraud/
- Balsam, S., & Harris, E. (2018). Nonprofit executive incentive pay. *Review of Accounting Studies*, 23, 1665-1714. doi:10.1007/s11142-018-9473-z
- Beasley, M., Carcello, J., Hermanson, D., & Neal, T. (2010). Fraudulent financial reporting 1198-2007: An analysis of U.S. public companies. *Committee of Sponsoring Organizations of the Treadway Commission*. Retrieved from https://www.coso.org/Documents/COSO-Fraud-Study-2010-001.pdf
- Behn, B., DeVries, D., & Lin, J. (2010). The determinants of transparency in nonprofit organizations: An exploratory study. *Advances in Accounting*, 26(1), 6-12. doi:10.1016/j.adiac.2009.12.001

- Beneish, M. (1999). The detection of earnings manipulation. *Financial Analysts Journal*, 55(5), 24-36.
- Bernstein, R., Buse, K., & Bilimoria, D. (2016). Revisiting agency and stewardship theories:

 Perspectives from nonprofit board chairs and CEOs. *Nonprofit Management & Leadership*, 26(4), 489-498. doi:10.1002/nml.21199
- Bourassa, M., & Stang, A. (2016). Knowledge is power: Why public knowledge matters to charities. *International Journal of Nonprofit and Voluntary Sector Marketing*, 21(1), 13-30. doi:10.1002/nvsm.1537
- Bradach, J., Tierney, T., & Stone, N. (2008, December). Delivering on the promise of nonprofits.

 Harvard Business Review. Retrieved from https://hbr.org/2008/12/delivering-on-the-promise-of-nonprofits
- Bradley, J. (2015). Empowering employee to prevent fraud in nonprofit organizations. *Cardozo Public Law, Policy, and Ethics Journal*, 13(3), 711-738.
- Brazel, J., Jones, K., & Zimbelman, M. (2009). Using nonfinancial measures to assess fraud risk.

 **Journal of Accounting Research, 47(5), 1135-1166. doi:10.1111/j.1475-679X.2009.00349.x*
- Brown, W., & Yoshioka, C. (2003). Mission attachment and satisfaction as factors in employee retention. *Nonprofit Management & Leadership*, *14*(1), 5-18. doi:10.1002/nml.18
- Burde, G. (2018). Improved methods for predicting the financial vulnerability of nonprofit organizations. *Administrative Sciences*, 8(3). doi:10.3390/admsci8010003
- Burks, J. (2015). Accounting errors in nonprofit organizations. *Accounting Horizons*, 29(2), 341-361. doi:10.2308/acch-51017

- Calabrese, T. (2011). Public mandates, market monitoring, and nonprofit financial disclosures.

 **Journal of Accounting and Public Policy, 30(1), 71-88. doi:10.1016/j.jaccpubpol.

 2010.09.007
- Carroll, D., & Stater, K. (2009). Revenue diversification in non-profit organizations: Does it lead to financial stability? *Journal of Public Administration Research and Theory*, 19(4), 947-966. doi:10.1093/jopart/mun025
- Cawley, B., & Snyder, P. (2015). People as workers in the image of God. *Journal of Markets & Morality*, 18(1), 163-187.
- Chang, C., & Tuckman, H. (1994). Revenue diversification among non-profits. *Voluntas: International Journal of Voluntary and Nonprofit Organizations*, 5(3), 273-290.

 doi:10.1007/BF02354036
- Charity Navigator. (2017). What criteria must a charity meet to be rated? Retrieved from https://www.charitynavigator.org/index.cfm?bay=content.view&cpid=32
- Charity Navigator. (2018). *Charity Navigator's methodology*. Retrieved from https://www.charitynavigator.org/index.cfm?bay=content.view&cpid=5593
- Chikoto, G., & Neely, D. (2014). Building nonprofit capacity: The impact of revenue concentration and overhead costs. *Nonprofit and Voluntary Sector Quarterly*, 43(3), 570-588. doi:10.1177/0899764012474120
- Clevenger, N. (2009). Fraud in nonprofit organizations: Emulating SOX's best practices.

 *Association of Certified Fraud Examiners (ACFE). Retrieved from
 https://www.acfe.com/article.aspx?id=417&Site=ACFEWEB
- Cnaan, R. A., Jones, K., Dickin, A., & Salomon, M. (2011). Nonprofit watchdogs: Do they serve the average donor?. *Nonprofit Management and Leadership*, 21(4), 381-397.

- Coman, D., Horga, M., Danila, A., & Coman, M. (2018). Using Benford's Law in the analysis of socio-economic data. *Journal of Science and Arts*, 42(1), 167-172.
- Conyon, M., & He, L. (2016). Executive compensation and corporate fraud in China. *Journal of Business Ethics*, 134(4), 669-691. doi:10.1007/s10551-014-2390-6
- Copley, P. (2015). Essentials of accounting for governmental and not-for-profit organizations (12th ed.). New York, NY: McGraw-Hill Education.
- Cressey, D. (1973). Other people's money. Montclair, NJ: Patterson Smith.
- Creswell, J. (2013). *Qualitative inquiry and research design: Choosing among five approaches* (4th ed.). Thousand Oaks, CA: Sage.
- Creswell, J. (2014). *Research design: Qualitative, quantitative, and mixed methods approach* (4th ed.). Thousand Oaks, CA: Sage.
- Crumbley, L., Fenton, E., Smith, G., & Heitger, L. (2017). Forensic and investigative accounting (8th ed.). Riverwoods, IL: CCH Inc.
- Davis, J., Schoorman, F., & Donaldson, L. (1997). Toward a stewardship theory of management.

 The Academy of Management Review, 22(1), 20-47.
- De Armond, L., & Zack, G. (2017). Assess your organization's vulnerability to fraud. *Nonprofit World*, 35(4), 20-21.
- Dechow, P., Sloan, R., & Sweeney, A. (1996). Causes and consequences of earnings manipulation: An analysis of firms subject to enforcement actions by the SEC. Contemporary Accounting Research, 13(1), 1-36.
- Dellaportas, S. (2013). Conversations with inmate accountants: motivation, opportunity, and the fraud triangle. *Accounting Forum*, *37*(1), 29-39. doi:10.1016/j.accfor.2012.09.003

- Demski, J., & Feltham, G. (1978). Economic incentives in budgetary control systems. *The Accounting Review*, 53(2), 336-359.
- Dimm, W. (2015). Detecting fraud using Benford's Law. *Criminal Justice Magazine*, 30(2), 67-68.
- Dion, M. (2016). Agency theory and financial crime: The paradox of the opportunistic executive. *Journal of Financial Crimes*, 23(3), 574-587. doi:10.1108/JFC-03-2015-0012
- Domanski, J. (2016). Risk categories and risk management processes in nonprofit organizations. Foundations of Management, 8(1), 227-242. doi:10.1515/fman-2016-0018
- Donaldson, L., & Davis, J. (1991). Stewardship theory or agency theory: CEO governance and shareholder returns. *Australian Journal of Management*, *16*(1), 49-65.
- Donelson, D., Ege, M., & McInnis, J. (2017). Internal control weaknesses and financial reporting fraud. *Auditing: A Journal of Practice and Theory*, 36(3), 45-69. doi:10.2308/ajpt-51608
- Duquette, N. (2017). Spend or save? Nonprofits' use of donations and other revenues. *Nonprofit* and Voluntary Sector Quarterly, 46(6), 1142-1165. doi:10.1177/0899764017728368
- Duska, R., Duska, B., & Ragatz, J. (2011). *Accounting ethics* (2nd ed.). West Sussex, UK: Wiley-Blackwell.
- Dzomira, S. (2014). Internal controls and fraud schemes in not-for-profit organisations: A guide for good practice. *Research Journal of Finance and Accounting*, *5*(2), 118-126.
- Eisenhardt, K. (1989). Agency theory: An assessment and review. *The Academy of Management Review*, 14(1), 57-74. doi:10.2307/258191
- Felix, R., Gaynor, G., & Williams, J. (2017). Societal trust and the economic behavior of nonprofit organizations. *Advances in Accounting*, 39, 21-31. doi:10.1016/j.adiac .2017.09.003

- Financial Accounting Standards Board (FASB). (1993, June). Statement of Financial Accounting

 Standards No. 117. Retrieved from http://www.fasb.org/jsp/FASB/Document_C

 /DocumentPage?cid=1218220124031&acceptedDisclaimer=true
- Financial Accounting Standards Board (FASB). (2016, August 18). FASB issues new guidance on not-for-profit financial reporting. Retrieved from http://www.fasb.org/cs/ContentServer?c=Document_C&cid=1176168379971&d=&pagename

 =FASB%2FDocument C%2FDocumentPage
- Fraud. (n.d.). In *Cornell Law School's Legal Information Institute online*. Retrieved from https://www.law.cornell.edu/wex/fraud
- Free, C. (2015). Looking through the fraud triangle: A review and call for new directions.

 Meditari Accountancy Research, 23(2), 175-196. doi:10.1108/MEDAR-02-2015-0009
- Gallagher, M., & Radcliffe, V. (2002). Internal controls in nonprofit organizations. *Nonprofit Management & Leadership*, 12(3), 313-325. doi:10.1002/nml.12307
- Garven, S., Hofmann, M., & McSwain, D. (2016). Playing the numbers game: Program ratio management in nonprofit organizations. *Nonprofit Management & Leadership*, 26(4), 401-416. doi:10.1002/nml.21201
- Gauvrit, N., Houillon, J., & Delahaye, J. (2017). Generalized Benford's Law as a lie detector.

 *Advances in Cognitive Psychology, 13(2), 121-127. doi:10.5709/acp-0212-x
- Giving USA. (2018, June 14). *See the numbers- Giving USA 2018 infographic*. Retrieved from https://givingusa.org/tag/giving-usa-2018/
- Gordon, A. (2014, October 6). *Little big crime: The multimillion dollar little league fraud crisis*.

 Retrieved from https://sports.vice.com/en_us/article/aem8m4/little-big-crime-the-multimillion-dollar-little-league-fraud-crisis

- Gordon, T., Hager, M., Pollak, T., Rooney, P., & Wing, K. (2006). Functional expense reporting for nonprofits. *The CPA Journal*, 76(8), 14-18.
- Gose, B. (2018, May 9). Rising demand for service may overwhelm an uptick in charity finances, study finds. *The Chronicle of Philanthropy*. Retrieved from https://www.philanthropy.com/article/Demand-for-Services-May/243372
- Grasse, N., Davis, T., & Ihrke, D. (2014). Understanding the compensation of nonprofit executive directors. *Nonprofit Management & Leadership*, 24(3), 377-398. doi:10.1002/nml.21099
- Greenlee, J. S., & Brown, K. L. (1999). The impact of accounting information on contributions to charitable organizations. *Research in Accounting Regulation*, *13*, 111-126.
- Greenlee, J. S., Fischer, M., Gordon, T., & Keating, E. (2007). An investigation of fraud in nonprofit organizations: Occurrences and deterrents. *Nonprofit and Voluntary Sector Quarterly*, *36*(4), 676-694. doi:10.1177/0899764007300407
- Grippo, F. (2012). How to prevent, deter, and uncover fraud. *Nonprofit World*, 30(1), 22-24.

 Retrieved from http://www.snpo.org
- Groble, P., & Brudney, J. (2016). Going by the book: Preparing nonprofit leaders for volunteer risk and liabilities through nonprofit education programs. *Journal of Nonprofit Education and Leadership*, 6(4), 331-349. doi:10.18666/JNEL-2016-V6-I4-6833
- Halcomb, E., & Hickman, L. (2015). Mixed methods research. Nursing Standard, 29(32), 41-47.
- Harris, E., Petrovits, C., & Yetman, M. (2017). Why bad things happen to good organizations:

 The link between governance and asset diversions in public charities. *Journal of Business Ethics*, 1446(1), 149-166. doi:10.1007/s10551-015-2921-9

- Harris, J., & Bromiley, P. (2007). Incentives to cheat: The influence of executive compensation and firm performance on financial performance on financial misrepresentation.

 Organization Science, 18(3), 350-367. doi:10.1287/orsc.1060.0241
- Hilton, J. (2016). Are grey skies clearing up? Shedding light on nonprofit governance in the wake of revamped IRS Form 990. *North Carolina Law Review*, *95*(1), 235-259.
- Hou, J., Zhang, C., & King, R. A. (2017). Understanding the dynamics of the individual donor's trust damage in the philanthropic sector. *Voluntas: International Journal of Voluntary and Nonprofit Organizations*, 28(2), 648-671.
- Huang, S., Lin, C., Chiu, A., & Yen, D. (2017). Fraud detection using fraud triangle risk factors.

 Information Systems Frontiers, 19(6), 1343-1356. doi:10.1007/s10796-016-9647-9
- Huang, S., Tsaih, R., & Lin, W. (2014). Feature extraction of fraudulent financial reporting through unsupervised neural networks. *Neural Network World: International Journal on Neural and Mass – Parallel Computing and Information Systems*, 24(1), 539-560. doi:10.14311/NNW.2014-24.031
- Hyndman, N., & McConville, D. (2016). Transparency in reporting on charities' efficiency: A framework for analysis. *Nonprofit and Voluntary Sector Quarterly*, 45(4), 844-865. doi:10.1177/0899764015603205
- Internal Revenue Service (IRS). (2016). 2016 instructions for Form 990 return of organization exempt from income tax. Retrieved from https://www.irs.gov/pub/irs-pdf/i990.pdf
- Jacobs, F. A., & Marudas, N. P. (2009). The combined effect of donation price and administrative inefficiency on donations to US nonprofit organizations. *Financial Accountability & Management*, 25(1), 33-53.

- Jensen, M., & Meckling, W. (1976). Theory of the firm: Managerial behavior, agency costs and ownership structure. *Journal of Financial Economics*, *3*(1), 305-360. doi:10.1016/0304-405X(76)90026-X
- Jensen, P., & Meisenbach, R. (2015). Alternative organizing and (in) visibility: Managing tensions of transparency and autonomy in a nonprofit organization. *Management Communication Quarterly*, 29(4), 564-589. doi:10.1177/0893318915600577
- Jordan, T., Upright, P., & Tice-Owens, K. (2016). Crisis management in nonprofit organizations.

 *Journal of Nonprofit Education and Leadership, 6(2), 159-177. doi:10.18666/JNEL-2016-V6-I2-6996
- Kastner, J. (2018, February 28). *Questions of fraud and abuse at prominent horse rescue in San Diego County*. Retrieved from https://www.10news.com/news/team-10/questions-of-fraud-and-abuse-at-prominent-horse-rescue-in-san-diego-county
- Keating, E., Parsons, L., & Roberts, A. (2008). Misreporting fundraising: How do nonprofit organizations account for telemarketing campaigns? *The Accounting Review*, 83(2), 417-446.
- Kim, M. (2017). The relationship of nonprofits' financial health to program outcomes: Empirical evidence from nonprofit arts organizations. *Nonprofit and Voluntary Sector Quarterly*, 46(3), 525-548. doi:10.1177/0899764016662914
- Kim, Y., & Steiner, P. (2016). Quasi-experimental designs for causal inference. *Educational Psychologist*, 51(3-4), 395-405. doi:10.1080/00461520.2016.1207177
- Kluvers, R., & Tippett, J. (2011). An exploration of stewardship theory in a not-for-profit organisation. *Accounting Forum*, 35(1), 275-284. doi:10.1016/j.accfor.2011.04.002

- Krishnan, R., & Yetman, M. (2011). Institutional drivers of reporting decisions in nonprofit hospitals. *Journal of Accounting Research*, 49(4), 1001-1039. doi:10.1111/j.1475-679X.2011.00413.x.
- Krishnan, R., Yetman, M., & Yetman, R. (2006). Expense misreporting in nonprofit organizations. *The Accounting Review*, 81(2), 399-420.
- Laerd Statistics. (2017). Binomial logistic regression. Retrieved from https://statsitcs.laerd.com/premium/spss/blr/binomial-logistic-regression-in-spss.php
- Lecy, J. D., & Searing, E. A. (2015). Anatomy of the nonprofit starvation cycle: An analysis of falling overhead ratios in the nonprofit sector. *Nonprofit and Voluntary Sector Quarterly*, 44(3), 539-563.
- Lee, T., Ingram, R., & Howard, T. (1999). The difference between earnings and operating cash flow as an indicator of financial reporting fraud. *Contemporary Accounting Research*, 16(4), 749-786.
- Leech, N. L., Barrett, K. C., & Morgan, G. A. (2014). *IBM SPSS for intermediate statistics: Use and interpretation*. New York, NY: Routledge.
- Lenz, P., & Graycar, A. (2016). Stealing from the boss: Who is looking? *Journal of Financial Crime*, 23(3), 613-623. doi:10.1108/JFC-09-2015-0053
- Li, H., & McDougle, L. (2017). Information source reliance and charitable giving decisions.

 Nonprofit Management & Leadership, 27(4), 549-560. doi:10.1002/nml.21258
- Lloyd, R. (2005). The role of NGO self-regulation in increasing stakeholder accountability. *One World Trust*. Retrieved from http://www.oneworldtrust.org/uploads/1/0/8/9/108989709 /2006_ngo_self-regulation_-_enforcing_and_balancing_accountability.pdf

- Lokanan, M. (2014). How senior managers perpetrate accounting fraud? Lessons for fraud examiners from an instructional case. *Journal of Financial Crime*, *21*(4), 411-423. doi:10.1108/JFC-03-2013-0016
- Louwers, T., Ramsay, R., Sinason, D., Strawser, J., & Thibodeau, J. (2015). *Auditing & Assurance Services* (6th ed.). New York, NY: McGraw-Hill Education.
- Maguire, K. (2017). Minimizing fraud in the nonprofit grant process: Part II. *Internal Auditing*, 32(1), 6-14.
- Mangala, D., & Kumari, P. (2017). Auditor's perception of the effectiveness of fraud prevention and detection methods. *Indian Journal of Corporate Governance*, 10(2), 118-142. doi:10.1177/0974686217738683
- Mankaney, K., & Tinkelman, D. (2007). When is administrative efficiency associated with charitable donations? *Nonprofit and Voluntary Sector Quarterly*, *36*(1), 14-64. doi:10.1177/0899764006293176
- Marks, J., & Ugo, P. (2012). A violation of trust: Fraud risk in nonprofit organizations. *Nonprofit Risk Management Center*. Retrieved from https://www.nonprofitrisk.org/resources/articles/a-violation-of-trust-fraud-risk-in-nonprofit-organizations/
- Marquet, C. (2014). *The 2013 Marquet report on embezzlement*. Retrieved from: http://mediad.publicbroadcasting.net/p/vpr/files/The 2013 Marquet Report On Embezzlement.pdf
- Marudas, N. P. (2004). Effects of nonprofit organization wealth and efficiency on private donations to large nonprofit organizations. *Research in Governmental and Nonprofit Accounting*, 11, 71-92.

- Mayer, W., Wang, H., Egginton, J., & Flint, H. (2014). The impact of revenue diversification on expected revenue and volatility for nonprofit organizations. *Nonprofit and Voluntary Sector Quarterly*, 43(2), 374-392. doi:10.1177/0899764012464696
- McDonnell, D., & Rutherford, A. (2018). The determinants of charity misconduct. *Nonprofit and Voluntary Sector Quarterly*, 47(1), 107-125. doi:10.1177/089964017728367
- McSwain, M., Wukich, J., & McSwain, D. (2015). A fall from grace. *Internal Auditing*, 30(2), 36-40.
- Morales, L., & Caraballo, J. (2014). The element of opportunity to commit fraud in non-profit organizations that inform zero fundraising and administrative expenses. *Forum Empresarial*, 19(1), 1-20.
- Morgan, G. A., Leech, N. L., Gloeckner, G. W., & Barrett, K. C. (2013). Measurement and descriptive statistics (chapter 3). *IBM SPSS for Introductory Statistics: Use and interpretation*, 37-53.
- Morrison, E. (2016). Enforcing the duties of nonprofit fiduciaries: Advocating for expanded standing for beneficiaries. *Boston University Law Review*, 96(2), 1-14.
- Mulherin, E. (2016, September 14). FASB's new financial reporting rules for nonprofit organizations: What you need to know. *National Council of Nonprofits*. Retrieved from https://www.councilofnonprofits.org/thought-leadership/fasb-s-new-financial-reporting-rules-nonprofit-organizations-what-you-need-know
- National Council of Nonprofits. (2018). *Does your nonprofit need to have an independent audit?*Retrieved from https://www.councilofnonprofits.org/nonprofit-audit-guide/need-independent-audit

- National Council of Nonprofits. (2018). What is a "nonprofit"? Retrieved from https://www.councilofnonprofits.org/what-is-a-nonprofit
- Ndofor, H., Wesley, C., & Priem, R. (2015). Providing CEOs with opportunities to cheat: The effects of complexity-based information asymmetries on financial reporting fraud.

 **Journal of Management*, 4(6), 1774-1797. doi:10.1177/40149206312471395
- Neely, D. (2011). The impact of regulation on the U.S. nonprofit sector: Initial evidence from the Nonprofit Integrity Act of 2004. *Accounting Horizons*, 25(1), 107-125. doi:10.2308/acch.2011.25.1.107
- Newton, A. (2015). Executive compensation, organizational performance, and governance quality in the absence of owners. *Journal of Corporate Finance*, *30*, 195-222. doi:10.1016/j.jcorpfin.2014.12.016
- Nigrini, M. J., & Miller, S. J. (2009). Data diagnostics using second-order tests of Benford's law. *Auditing: A Journal of Practice & Theory*, 28(2), 305-324.
- Non-profit Finance Fund. (2018). *State of the Nonprofit Sector Survey 2018*. Retrieved from https://nff.org/learn/survey#results
- Non-profit organizations. (n.d.). In *Cornell Law School's Legal Information Institute online*.

 Retrieved from https://www.law.cornell.edu/wex/non-profit organizations
- O'Connor, J., Priem, R., Coombs, J., & Gilley, K. (2006). Do CEO stock options prevent or promote fraudulent financial reporting? *The Academy of Management Journal*, 49(3), 483-500.
- Office of Inspector General (OIG) Social Security Administration. (2018, April 12).

 Pennsylvania woman charges with stealing from non-profit, social security disability

- fraud. Retrieved from https://oig.ssa.gov/audits-and-investigations/investigations/april12-pa-fraud
- O'Keefe, T., Wambsganss, J., & Dosch, R. (2006). Examining for fraud: A case for a larger alpha. *Journal of Forensic Accounting*, 7(1), 1-16.
- Oltean, I. (2016). Fraud risk analysis in the financial audit based on the indicators for detection of accounting manipulations. *Review of Economic Studies and Research Virgil Madgearu*, 9(2), 93-121.
- Osher, C. (2017, November 16). Founder of Boulder-based nonprofit created to aid refugees arrested on charges of fraud and theft in excess of \$100,000. Retrieved from https:

 //www.denverpost.com/2017/11/16/boulder-humanwire-founder-arrested-fraud/
- Panda, B., & Leepsa, N. (2017). Agency theory: Review of theory and evidence on problems and perspectives. *Indian Journal of Corporate Governance*, 10(1), 74-95. doi:10.1177/0944686217701467
- Parsons, L. (2007). The impact of financial information and voluntary disclosures on contributions to not-for-profit organizations. *Behavioral Research in Accounting*, 19, 179-196.
- Parsons, L., & Trussel, J. (2007). Financial reporting factors affecting donations to charitable organizations. *Advances in Accounting*, 23, 263-285. doi:10.1016/S0882-6110(07)23010-X
- Pastoriza, D., & Arino, M. (2008). When agents become stewards: Introducing learning in the stewardship theory. *1st IESE Conference on Humanizing the Firm & Management Profession, June 30-July 2, 2008*, IESE Business School, Barcelona (2008), pp. 1-16. Retrieved from https://www.iese.edu/en/files/6 40618.pdf

- Patton, T., Patton, S., & Ives, M. (2019). Accounting for governmental & nonprofit organizations. Cambridge, MA: Cambridge Business Publishers, LLC.
- Petrovits, C., Shakespeare, C., & Shih, A. (2011). The causes and consequences of internal control problems in nonprofit organizations. *The Accounting Review*, 86(1), 325-357. doi:10.2308/accr.00000012
- Radhakrishnan, G. (2013). Non-experimental research designs: Amenable to nursing contexts. *Asian Journal of Nursing Education and Research*, 3(1), 25-28.
- Repousis, S. (2016). Using Beneish model to detect corporate financial statement fraud in Greece. *Journal of Financial Crime*, 23(4), 1063-1073. doi:10.1108/JFC-11-2014-0055
- Roden, D. M., Cox, S. R., & Kim, J. Y. (2016). The fraud triangle as a predictor of corporate fraud. *Academy of Accounting and Financial Studies Journal*, 20(1), 80.
- Ross, B., Hill, A., & Mosk, M. (2013, December 16). Navy vet scammer 'Bobby Thompson' gets 28 years. *ABC News*. Retrieved from https://abcnews.go.com/Blotter/navy-vet-scammer-bobby-thompson-28-years/story?id=21232519
- Rufus, R., Miller, L., & Hahn, W. (2015). *Forensic Accounting*. Upper Saddle River, NJ: Pearson Education, Inc.
- Ryan, C., & Irvine, H. (2012). Not-for-profit ratios for financial resilience and internal accountability: A study of Australian international aid organisations. *Australian Accounting Review*, 22(2), 177-194. doi:10.1111/j.1835-2561.2012.00163.x
- Saat, N., Mohamed, I., Zakaria, N., & Omar, N. (2013). Factors determining level of internal controls implementation among nonprofit organizations in Malaysia. *Advances in Natural and Applied Sciences*, 7(5), 425-434.

- Saksena, P. N. (2010, July). Ethical theories and the incidence of occupational fraud. In Allied

 Academies International Conference. Academy of Accounting and Financial Studies.

 Proceedings (Vol. 15, No. 2, p. 34). Jordan Whitney Enterprises, Inc.
- Salkind, N. (2013). *Statistics for people who (think they) hate statistics* (3rd ed.). Thousand Oaks, CA: Sage.
- Sedatole, K., Swaney, A., Yetman, M., & Yetman, R. (2018). The mission matters: Accounting-based performance metrics and executive compensation in nonprofit organizations.

 Working paper. Wake Forest, Michigan State, and University of California at

 Davis. doi:10.2139/ssrn.215326
- Sekaran, U., & Bougie, R. (2016). Research methods for business: A skill building approach (7th ed.). Chichester, UK: John Wiley & Sons, Inc.
- Simton, M. (2018, May 8). Former hockey association treasurer enters plea deal. *KTVA*.

 Retrieved from http://www.ktva.com/story/38140178/former-hockey-association-treasurer-charged-with-wire-fraud
- Siregar, S., & Tenoyo, B. (2015). Fraud awareness survey of private sector in Indonesia. *Journal of Financial Crime*, 22(3), 329-346. doi:10.1108/JFC-03-2014-0016
- Skaife, H., Veenman, D., & Wangerin, D. (2013). Internal control over financial reporting and managerial rent extraction: Evidence from the profitability of insider trading. *Journal of Accounting and Economics*, 55(1), 91-110.
- Skalak, S., Golden, T., Clayton, M., & Pill, J. (2011). *A guide to forensic accounting investigation* (2nd ed.). Hoboken, NJ: John Wiley & Sons, Inc.
- Skousen, C., Smith, K., & Wright, C. (2008). Detecting and predicting financial statement fraud:

 The effectiveness of the fraud triangle and SAS No. 99. Working paper. Utah State

- University, University of Kansas, and Oklahoma State University. doi:10.2139/ssrn.1295494
- Smith, K. (2017, December 7). Woman accused of embezzling McHenry youth baseball funds

 previous theft, fraud convictions. Retrieved from http://www.nwherald.com/2017/12/06

 /woman-accused-of-embezzling-mchenry-youth-baseball-funds-has-previous-theft

 -fraud-convictions/a6715ho/
- Snyder, H., Andersen, M., & Zuber, J. (2017, March 1). Nonprofit fraud: How good are your internal controls? *Strategic Finance*. Retrieved from http://sfmagazine.com/post-entry/march-2017-nonprofit-fraud-how-good-are-your-internal-controls/
- Spillan, J., & Ziemnowicz, C. (2011). Who's in charge? Cases of not managing internal controls in nonprofit organizations. *Journal of Business, Society, and Government*, 3(1), 4-20.
- Stake, R. (2010). *Qualitative research: Studying how things work.* New York, NY: The Guilford Press.
- Stephens, J., & Flaherty, M. (2013, October 26). Inside the hidden world of thefts, scams and phantom purchases at the nation's nonprofits. *The Washington Post*. Retrieved from http://www.washingtonpost.com
- Szper, R., & Prakash, A. (2011). Charity watchdogs and the limits of information-based regulation. *VOLUNTAS: International Journal of Voluntary and Nonprofit Organizations*, 22(1), 112-141.
- Tan, J., & Lee, R. (2015). An agency theory scale for financial services. *Journal of Services Marketing*, 29(5), 393-405.

- Tillotson, A. R., & Tropman, J. (2014). Early responders, late responders, and non-responders:

 The principal-agent problem in board oversight of nonprofit CEOs. *Human Service Organizations: Management, Leadership & Governance*, 38(4), 374-393.
- Tinkelman, D., & Donabedian, B. (2007). Street lamps, alleys, ratio analysis, and nonprofit organizations. *Nonprofit Management & Leadership*, *18*(1), 5-17. doi:10.1002/nml.168
- Trompeter, G., Carpenter, T., Desai, N., Jones, K., & Riley, R. (2013). A synthesis of fraudrelated research. *Auditing: A Journal of Practice & Theory*, *32*(1), 287-321. doi:10.2308/ajpt-50360
- Trussel, J. (2003). Assessing potential accounting manipulation: The financial characteristics of charitable organizations with higher than expected program-spending ratios. *Nonprofit* and *Voluntary Sector Quarterly*, 32(4), 616-634. doi:10.1177/0899764003257459
- Tysiac, K. (2016, August 18). FASB modifies not-for-profit accounting rules. *Journal of Accountancy*. Retrieved from https://www.journalofaccountancy.com/news/2016/aug/fasb-modifies-not-for-profit-financial-reporting-201615022.html
- United States Department of Justice. (2016, September 20). Former executive director of military charity indicted for fraud and tax evasion. Retrieved from https://www.justice.gov/opa/pr/former-executive-director-military-charity-indicted-fraud-and-tax-evasion
- Urbach, E. (2018, July 5). Nonprofit fraud often hurts those who can least afford it. *Nonprofit Quarterly*. Retrieve from https://nonprofitquarterly.org/2018/07/05/nonprofit-fraud-often-hurts-those-who-can-least-afford-it/
- Uzun, H., Szewczyk, S. H., & Varma, R. (2004). Board composition and corporate fraud. Financial Analysts Journal, 60(3), 33-43.
- Van Duzer, J. (2010). Why Business Matters to God. Downers Grove, IL: InterVarsity Press.

- Von Schnurbein, G., & Fritz, T. (2017). Benefits and drivers of nonprofit revenue concentration.

 *Nonprofit and Voluntary Sector Quarterly, 46(5), 922-943. doi:10.1177

 /0899764017713876
- Wellar, K. (2018, October 19). The financial literacy of boards: A nonprofit must-have.

 Nonprofit Quarterly. Retrieved from https://nonprofitquarterly.org/2018/10/19/the-financial-literacy-of-boards-a-nonprofit-must-have/
- Wells, J. (2014). *Principles of Fraud Examination* (4th ed.). Hoboken, NJ: John Wiley & Sons, Inc.
- Weske, J., & Benuto, L. (2015). Share prices and price/earnings ratios as predictors of fraud prior to a fraud announcement. *Academy of Accounting and Financial Studies Journal*, 19(2), 281-297.
- Wicker, P., Longley, N., & Breuer, C. (2015). Revenue volatility in German nonprofit sports clubs. *Nonprofit and Voluntary Sector Quarterly*, 44(1), 5-24. doi:10.1177/0899764013499072
- Wilbanks, R. M., Hermanson, D. R., & Sharma, V. D. (2017). Audit committee oversight of fraud risk: The role of social ties, professional ties, and governance characteristics. *Accounting Horizons*, 31(3), 21-38.
- Wilsker, A., & Young, D. (2010). How does program composition affect the revenues of nonprofit organizations? Investigating a benefits theory of nonprofit finance. *Public Finance Review*, 38(2), 193-216. doi:10.1177/1091142110369238
- Wing, K., Gordon, T., Hager, M., Pollak, T., & Rooney, P. (2006, August). Functional expense reporting for nonprofits: The accounting profession's next scandal? *The CPA Journal*.

 Retrieved from https://www.cpajournal.com/

- Wojcik, M. E. (2011). What Intent Must the Government Prove to Convict Someone of Marriage Fraud?. *The Globe*, 48(7), 13.
- Wolf, M. (2018). What is the definition of a public nonprofit organization vs. a private nonprofit organization? Retrieved from http://smallbusiness.chron.com/definition-public-nonprofit-organization-vs-private-nonprofit-organization-20391.html
- Yang, D., Jiao, H., & Buckland, R. (2017). The determinants of financial fraud in Chinese firms:

 Does corporate governance as an institutional innovation matter?. *Technological Forecasting and Social Change*, 125, 309-320.
- Zack, G., & De Armond, L. (2015, June 24). Nonprofit fraud: It's a people problem, so combat it with governance. *Nonprofit Quarterly*. Retrieved from https://nonprofitquarterly.org/2015/06/24/nonprofit-fraud-its-a-people-problem-so-combat-it-with-governance/
- Zakaria, K., Nawawi, A., & Salin, A. (2016). Internal controls and fraud empirical evidence from oil and gas company. *Journal of Financial Crime*, 23(4), 1154-1168. doi:10.108/JFC-04-2016-0021
- Zhang, X., Bartol, K., Pfarrer, M., & Khanin, D. (2008). CEOs on the edge: Earnings manipulation and stock-based incentive misalignment. *Academy of Management Journal*, 51(2), 241-258.
- Zhu, H., Wang, P., & Bart, C. (2016). Board processes, board strategic involvement, and organizational performance in for-profit and non-profit organizations. *Journal of Business Ethics*, *136*(2), 311-328. doi:10.1007/s10551-014-2512-1

Appendix A: Sample of Nonprofit Organizations

EIN	Organization Name	NTEE Code	NTEE Description
75-3019024	123 Divorce Company	I80	Legal Services
95-3976258	A Childs Hope Fund	Q33	International Relief
	1		Human Services -
			Multipurpose and Other
87-0504354	Ability Foundation	P99	N.E.C.
			Human Service
46-1466277	Abundance for All Inc	P20	Organizations
0.4.1202200		F22	Alcohol, Drug Abuse
84-1292200	Acacia Counseling Inc	F22	(Treatment Only)
06-1130180	Acts One Eight Inc	X20	Christian
			Kindergarten, Nursery
04.2672490	Adams Montessori School	D21	Schools, Preschool, Early
04-2672489	Inc	B21	Admissions
66-0587983	Advanced Bilingual School Inc	B20	Elementary, Secondary Ed
00-0307703	me	D20	Philanthropy / Charity /
	Air Warrior Courage		Voluntarism Promotion
77-0490412	Foundation	T50	(General)
	Alaska Pacific University		Fund Raising and/or Fund
92-0150193	Foundation Inc	B12	Distribution
	Albert Einstein Healthcare		Community Health
23-2290323	Network	E21	Systems
	Alcoholics Anonymous		
0.5.0000011	Twenty-Third District		Private Independent
95-2903811	Central Steering Committee	T22	Foundations
02 1052000	All God's Children	D2 1	A 4 anti an
93-1052909	International	P31	Adoption
81-3792162	All People Harvest Global Ministries	X20	Christian
01 3772102	Willistres	AZU	Community Health
36-3261413	Allina Health System	E21	Systems
	Alpha Phi Alpha IRA Dorsey		- J
	Scholarship Endowment		Single Organization
54-1726378	Fund Inc	B11	Support
11-3763276	Alpine Christian School	B20	Elementary, Secondary Ed
	American Assoc On		
	Intellectual and		Professional Societies,
06-0636098	Developmental Disabilities	V03	Associations
	American Association for		Professional Societies &
52-1945946	Geriatric Psychiatry Inc	F03	Associations
	American Conference of		
21 1142140	Governmental Industrial	0.41	Promotion of Business
31-1142148	Hygienists Inc	S41	(Chambers of Commerce)

			O.1 N.1 .1
			Other Philanthropy,
	American Enion de af Viale ait		Voluntarism, and
27-4371984	American Friends of Kishorit	T99	Grantmaking Foundations N.E.C.
	Inc		
23-7124261	American Kidney Fund Inc	G44	Kidney
	American Swimming		C · · · W
(5,0002457	Coaches Council for Sport	NCZ	Swimming, Water Recreation
65-0083457	Development Inc	N67	
26-1491008	Amigos En Cristo Inc	X03	Professional Societies, Associations
20-1491006	Anngos En Cristo inc	Λ03	Services to Promote the
			Independence of Specific
59-1971002	Angelus Inc	P80	Populations
37-17/1002	Angelus me	100	Animal Protection and
	Another Chance Animal		Welfare (includes Humane
01-0442853	Rescue	D20	Societies and SPCAs)
01 0442033	Apple Valley Senior Citizens	D20	Societies and Si Crisj
23-7408782	Club Inc	P81	Senior Centers/Services
23 / 100/02	Applied Behavioral Concepts	101	Semer Centers, Services
06-1647745	Inc	G84	Autism
			Developmentally Disabled
99-0089327	Arc in Hawaii	P82	Services/Centers
	Arcadia Scottsdale United		
86-0395005	Soccer Club	N64	Soccer Clubs/Leagues
86-1004924	Arizona Justice Project Inc	I80	Legal Services
	Ark of Hope International		8
46-2127507	Inc	X20	Christian
	Arlington Lions Foundation		Health Treatment Facilities
59-3392548	Inc	E30	(Primarily Outpatient)
			Arts, Cultural
			Organizations -
20-0273372	Art From Ashes Incorporated	A20	Multipurpose
			Educational Services and
20-1705075	Artwell Collaborative Inc	B90	Schools - Other
	Assistance League of Los		Children's and Youth
95-1641960	Angeles	P30	Services
	Assyrian Universal Alliance		Single Organization
36-2976266	Foundation Inc	Q11	Support
	Avenida Guadalupe	~~~	Neighborhood/Block
74-2148804	Association	S22	Associations
38-3761128	AZ Compass Schools Inc	B29	Charter Schools
	Back River Restoration		Historical Societies &
26-2595058	Committee Inc	A82	Historic Preservation
04.40::5==	Ballard High School	700	Educational Services and
91-1811275	Foundation	B90	Schools - Other

			Alcohol, Drug and
			Substance Abuse,
*** ***	Baltimore Community	720	Dependency Prevention
52-1034901	Resource Center Inc	F20	and Treatment
24 1205050	Baptist Evangelistic	3701	D
34-1285058	Missionary Association Inc	X21	Protestant
04 255545	Danhana C Hamis Cantan	055	Religious Leadership,
04-3555545	Barbara C Harris Center	O55	Youth Development Nonmonetary Support
46-4245843	Beda Inc	S19	N.E.C.
70-7273073	Beda me	517	University or
61-0482955	Bellarmine University	B43	Technological
01 0102/33	Beloit Public Library	D 13	Single Organization
39-1587673	Foundation Inc	B11	Support
	Benjamin Garver Lamme		Scholarships, Student
25-6030362	Scholarship Fund	B82	Financial Aid, Awards
	Berson Family Supporting		Private Grantmaking
22-2872256	Foundation Inc	T20	Foundations
	Bessie Smith Cultural Center		
	African American Museum		Museum & Museum
62-1247459	&	A50	Activities
	Big Brothers Big Sisters of		
59-1507595	Broward Inc	O31	Big Brothers, Big Sisters
			Recreational and Sporting
01 0770070	Disated Ministrian Inc.	N/20	Camps (Day, Overnight,
81-2772278	Bigstuf Ministries Inc	N20	etc.)
11-3771298	Black Diamond Hope House Inc	L41	Temporary Shelter For the Homeless
22-1500475	Blair Academy	B25	Secondary/High School
			Specialized Education Institutions/Schools for
	Bloomington Developmental		Visually or Hearing
	Learning Center		Impaired, Learning
35-1784455	Incorporated	B28	Disabled
33 1701133	Blount Memorial Foundation	D2 0	Bisacica
62-1412287	for Medical Care Inc	E22	Hospital (General)
24-0795436	Blue Mountain Hospital	E22	Hospital (General)
74-2879796	Boerne Soccer Club Inc	N64	Soccer Clubs/Leagues
46-4021815	Bold Up Ministries	X20	Christian
40-4021013	Bonner Community Housing	A20	Cinistian
26-0890497	Agencyincorporated	L21	Public Housing
20 0000107	rigency meorporated	221	Other Housing Support
46-0406318	Booth Society Inc	L80	Services
	Boothbay Region		Ambulance/Emergency
01-0345660	Ambulance Service	E62	Transport

04-3305884	Boston Skating Club Inc Boston Volunteer Fire	N60	Amateur Sports Clubs, Leagues, N.E.C. Fire Prevention / Protection
16-1216891	Company	M24	/ Control
10 1210091	Company	1412 1	Animal Protection and
			Welfare (includes Humane
47-5045769	Bounce Animal Rescue	D20	Societies and SPCAs)
22 7440276	David Hadray Clab Lac	NICO	Winter Sports (Snow and
23-7449276	Bowie Hockey Club Inc	N68	Ice) Natural Resource
			Conservation and
04-2649404	Boxford Trails Association	C30	Protection
	Boys & Girls Club of Eden		Boys and Girls Clubs
33-0996412	Inc	O23	(Combined)
	Boys and Girls Club of the		
63-0422560	Wiregrass Inc	O21	Boys Clubs
26.2205556	Brazilian Twisters Sport	NEO	Recreational, Pleasure, or Social Club
26-2205556	Club Inc Breaking Ground Iii Housing	N50	Social Club
	Development Fund		Housing Development,
13-4138205	Corporation	L20	Construction, Management
	Breast Cancer Resource	,	Human Service
74-2743333	Center	P20	Organizations
93-1320871	Breast Friends	E60	Health Support Services
	Brecksville-Broadview		
	Heights Schools Foundation		Single Organization
34-1726629	Program	B11	Support
59-3489664	Broward Community and Family Health Centers Inc	E21	Community Health Systems
33-3403004	Buddhist Social Services	1521	Systems
20-3358821	Center	X50	Buddhist
			Environmental Quality,
			Protection, and
20-0939449	Build It Green	C99	Beautification N.E.C.
= 0.44644	Buncombe Creek Volunteer	3.60.4	Fire Prevention / Protection
73-1416411	Fire Department	M24	/ Control
14-1544112	Burke Volunteer Fire Department Inc Silas Vincent	M24	Fire Prevention / Protection / Control
14-1344112	Butt Holdsworth Memorial	10124	/ Control
74-2533723	Library Endowment Fund	B70	Libraries, Library Science
	Cabin Creek Health Center		Health - General and
55-0709223	Inc	E99	Rehabilitative N.E.C.
	California Public Safety		Management & Technical
95-4234700	Radio Assoc	M02	Assistance
46-2992483	Camp To Success	O22	Girls Clubs
52-0853501	Capitol Hill Group Ministry	P85	Homeless Services/Centers

	G T G1 O 1		
0.4.0-0-4	Care To Share Outreach	77.0	Community Mental Health
04-3797177	Center Inc	F32	Center
	Carnegie Library of		
25-0965281	Pittsburgh	B70	Libraries, Library Science
	Carson City Municipal Golf		Golf (Country Clubs, use
86-0856792	Corporation	N6A	N50)
	Catholic Charities Housing		Management & Technical
34-1963245	Corporation	L02	Assistance
	Cay Community Services		Human Service
11-3235840	Organization Inc	P20	Organizations
			Fund Raising and/or Fund
20-1696968	Celebrate Committee Inc	S12	Distribution
	Center for Haitian Studies		Private Independent
65-0136723	Inc	T22	Foundations
			Specialized Education
			Institutions/Schools for
			Visually or Hearing
	Center for Learning		Impaired, Learning
33-0960142	Unlimited Incorporated	B28	Disabled
			Home Health Care
	Center of HOPE Heaven of		(includes Visiting Nurse
42-1677889	People Empowerment	E92	Associations)
	Central American Relief		
20-8540875	Efforts	Q33	International Relief
	Central Carolina Community		
57-0793960	Foundation	T31	Community Foundations
	Central Minnesota Housing		Housing Development,
41-1752558	Partnership Inc	L20	Construction, Management
	Charlotte Curling		Winter Sports (Snow and
27-2056711	Association	N68	Ice)
			Fund Raising and/or Fund
36-3451293	Chicago Abortion Fund	E12	Distribution
	Child and Family Resource		
81-0408016	Council Inc	P40	Family Services
41-1496910	Child Care and Nutrition Inc	K40	Nutrition Programs
	Childrens Hospital &	-	Hospitals and Primary
47-0379754	Medical Center	E20	Medical Care Facilities
.,	Childrens Lifeline		Children's and Youth
77-0620629	International Inc	P30	Services
,, , , , , , , , , , , , , , , , , , , ,			Group Health Practice
	Childrens Orthopaedic		(Health Maintenance
04-2943146	Surgery Foundation Inc	E31	Organizations)
	Childrens Urological	 -	
04-2910304	Foundation Inc	E24	Hospital (Specialty)
0.2010001	Christ-Centered Christian	 '	continui (Speciality)
51-0421186	Church	X20	Christian
JI J 121100	-1101-411	1 V	CITIONNI

21 1412025	Christian Benevolent	C04	
31-1413825	Association Foundation	G94	Geriatrics
59-2974560	Christian Ministries Inc	X20	Christian
75-2758174	Church On Wheels Inc	X21	Protestant
20-0271044	Cincinnati Center for Autism	G84	Autism
			Human Service
31-1571531	Cincinnati Marathon Inc	P20	Organizations
			Animal Protection and
21 0020210		D20	Welfare (includes Humane
31-0930319	Circle Area Humane Society	D20	Societies and SPCAs)
95-1660338	Clairbourn School	B99	Education N.E.C.
			Home Health Care
27 001 47 41		F02	(includes Visiting Nurse
27-0014741	Clienter Country April 2011	E92	Associations)
31-6060318	Clinton County Agricultural	K20	Agricultural Programs
31-0000318	Society Colfax County Senior	K 20	Agricultural Flograms
85-0234167	Citizens Inc	P81	Senior Centers/Services
03-025-107	Citizens inc	101	University or
13-1740447	College of New Rochelle	B43	Technological
13 17 10 117	conege of few Roenene	D 13	Senior Citizens'
	Colony Retirement Homes Iv		Housing/Retirement
04-2668678	Inc	L22	Communities
	Commercial Fisheries		Animal Related Activities
86-1116341	Research Foundation Inc	D99	N.E.C.
	Commonwealth Human		Single Organization
52-2374004	Services Foundation	X11	Support
			Management Services for
			Small
45-2201993	Commonwise Education Inc	S43	Business/Entrepreneurs
	Communities Overcoming		Family Violence Shelters
38-2243550	Violent Encounters Inc	P43	and Services
			Community, Neighborhood
14 1400767	Community Action of	G20	Development,
14-1498767	Greene County Inc	S20	Improvement
47-0756972	Community Alliance Residential Services	L99	Other Housing, Shelter N.E.C.
47-0730972	Community Health and	L99	N.E.C.
	Wellness Center of Miami		Ambulatory Health Center,
46-1906764	Inc	E32	Community Clinic
40 1700704	Community Ministry of	L32	Emergency Assistance
84-0602837	Southwest Denver	P60	(Food, Clothing, Cash)
5. 00 02 027	Community Volunteer Fire	_ 0 0	(2002, 20011118, 20011)
	Department of Bowleys		Fire Prevention / Protection
52-1241586	Quarters & Vicinity Inc	M24	/ Control

00 000001		700	Community Mental Health
93-0633804	Community Works Inc	F32	Center
27.0649741	C	11/20	Military/Veterans'
27-0648741	Companions for Heroes Concord House of	W30	Organizations Residential Custodial Core
14-1883194	Charleston Inc	P70	Residential, Custodial Care
14-1883194	Construction Education	P/0	(Group Home) Single Organization
41-1836567	Foundation of Minnesota	B11	Support
41-1030307	roundation of winnesota	DII	Senior Citizens'
			Housing/Retirement
39-1668287	Coulee Homes Ltd	L22	Communities
27 1000207	Coventry Volunteer Fire		Fire Prevention / Protection
06-1245108	Association Inc	M24	/ Control
	Coventry Volunteer Fire CO		Fire Prevention / Protection
22-2541771	Inc	M24	/ Control
39-6026845	Covey Inc	E60	Health Support Services
27 00200.0	Crawford County Council	200	Troubles appoint a critical
23-7402065	On Aging Inc	P81	Senior Centers/Services
	Cray Medical Research		Specifically Named
36-3193655	Foundation	H80	Diseases Research
			Reproductive Health Care
	Crisis Pregnancy Outreach		Facilities and Allied
73-1209114	Inc	E40	Services
	Cristo Rey Newark High		
06-1803490	School Corp	B25	Secondary/High School
	Crossroads Handcrafts of the		International Economic
27-0843800	World	Q32	Development
95-3766911	Cusd Foundation Inc	B99	Education N.E.C.
			Specialized Education
			Institutions/Schools for
			Visually or Hearing
0.5.040.5444	~ ~	D • 0	Impaired, Learning
85-0485411	Cypress Culture Association	B28	Disabled
45 5202245	Dakota Child and Family	F20	Health Treatment Facilities
45-5392245	Clinic PA	E30	(Primarily Outpatient)
32-0156199	Daniels Music Foundation	A68	Music
22-3942318	Darrah Carr Dance Inc	A62	Dance
24 4222642	5 22	700	Human Service
31-1329649	Deaf Services Center Inc	P20	Organizations
95-4831387	Debbie Allen Dance Inc	A60	Performing Arts
06.40.50.46	Deep River Ambulance	T (0	Ambulance/Emergency
06-1255346	Association Inc	E62	Transport
41 1005641	Decree of Henry F. 14.	D02	Scholarships, Student
41-1925641	Degree of Honor Foundation	B82	Financial Aid, Awards
74 2262407	Denver Urban Economic	S21	Urban Community
74-2363487	Development Corporation	S31	Urban, Community

26-2964716	Diabetessisters	G40	Diseases of Specific Organs
45-0492755	Dieu Nhan Buddhist Meditation Association Inc District Council of Madison	P50	Personal Social Services
39-0824876	Inc Society of St Vincent De Paul	P60	Emergency Assistance (Food, Clothing, Cash) Animal Protection and
85-6019249	Dona Ana County Humane Society	D20	Welfare (includes Humane Societies and SPCAs) Higher Education
23-1352630	Drexel University Driscoll Maternal & Fetal	B40	Institutions
20-1234461	Physicians Group Eastern Kentucky Child Care	G20	Birth Defects Adult, Continuing
61-1180221	Coalition Inc	B60	Education
37-1290991	Eastlight Theatre Inc	A60	Performing Arts
20-8468493	Educate Uganda Education Development	B20	Elementary, Secondary Ed Educational Services and
04-2241718	Center Inc Educational Foundation for	B90	Schools - Other
15-4058184	Students Who Learn Differently Inc Educational Resources for	B03	Professional Societies & Associations
03-0399205	Children Inc	B99	Education N.E.C. Health Treatment Facilities
5-0244588	El Centro Family Health	E30	(Primarily Outpatient) Youth Development
76-0481264	El-Iman	O50	Programs Senior Citizens'
	Elderly Housing Corporation		Housing/Retirement
41-1384343	of Claycounty Minnesota	L22	Communities
27-3484142	Elevations Foundation Inc	T30	Public Foundations
61-1698287	Eli House Mission Elizabeth Glaser Pediatric	Z99	Unknown
95-4191698	AIDS Foundation Elko Friends in Service	G81	AIDS Emergency Assistance
88-0243970	Helping Emergency Nurses	P60	(Food, Clothing, Cash) Adult, Continuing
31-1703819	Association Emerson Health Care	B60	Education Single Organization
04-2770980	Foundation Inc Endowment Fund of	E11	Support
26-0043932	Maccabi USA Sports for Israel Inc	N11	Single Organization Support

	Escambia Search and Rescue		Search and Rescue
59-1813182	Inc	M23	Services
			Residential, Custodial Care
76-0378580	Escapees Care Inc	P70	(Group Home)
50 1550005		7710	Nonmonetary Support
58-1778237	Everette Tent Ministries	X19	N.E.C.
			Children's and Youth
38-2072675	Every Womans Place	P30	Services
0.4.00.40000	Eviction Defense	100	
94-3342323	Collaborative Inc	I80	Legal Services
<i></i>	Exmore Supportive Housing	T 0.4	D 111 TY 1
61-1503575	Inc	L21	Public Housing
	Fair Housing Center of		- 441 1
91-1238617	Washington	L21	Public Housing
52-1759052	Faith and Politics Institute	R30	Intergroup/Race Relations
			Youth Development
20-5602907	Faithful Friends	O50	Programs
	Families Against Narcotics		Alcohol, Drug Abuse
26-2302028	Inc	F21	(Prevention Only)
	Families United of		Children's and Youth
01-0367116	Washington County	P30	Services
			Senior Citizens'
	Family Extended Care of		Housing/Retirement
65-0897699	Vero Beach Inc	L22	Communities
	Family Service Agency of		
38-1360539	Mid Michigan	P40	Family Services
	Family Therapy Institute of		Family Counseling,
95-3531862	Santa Barbara	P46	Marriage Counseling
	Federal Employee Education		Scholarships, Student
52-1465583	and Assistance Fund	B82	Financial Aid, Awards
			Kindergarten, Nursery
			Schools, Preschool, Early
58-1902082	Feed My Lambs Inc	B21	Admissions
			Alcohol, Drug Abuse
95-6141262	Fellowship Center	F22	(Treatment Only)
			Group Health Practice
	Finger Lakes Migrant Health		(Health Maintenance
16-1581104	Care Project Inc	E31	Organizations)
	First Community Foundation		
31-6027662	Inc	T31	Community Foundations
	Fletcher Fire and Rescue		Fire Prevention / Protection
56-1598828	Department Inc	M24	/ Control
	Florida Society Dermatology		
74-3233295	Physician Assistant	B99	Education N.E.C.
	Flower Mound Youth Sports		
31-1514321	Association Inc	N40	Sports Training Facilities

	Food Research & Action	~~	
23-7200739	Center Inc	K40	Nutrition Programs
(2,0927002	Forrest Cemetery Foundation	W50	Cemeteries and Burial
63-0827092	Inc	Y50	Services
04 1272157	Foundation for Global	022	International Student
84-1272157	Scholars Easy dation for Lincoln City	Q22	Exchange and Aid
47-6032744	Foundation for Lincoln City Libraries	B11	Single Organization
4/-0032/44	Libraries	DII	Support Single Organization
77-0306813	Fox Theater Foundation	A11	Support
77-0300013	Tox Theater Foundation	ATT	Senior Continuing Care
37-1087901	Francis House Inc	P75	Communities
37 1007701	Freed-Hardeman Housing	175	Senior Continuing Care
58-1396689	Corporation	P75	Communities
30 1370007	Fresno New Creation	1 / 3	Communicies
77-0356325	Ministries Inc	X20	Christian
	Friends of Catholic	- -	Single Organization
52-1659600	Education Inc	T11	Support
			Historical Societies &
39-1579731	Friends of Hearthstone Inc	A82	Historic Preservation
			Fund Raising and/or Fund
26-2624529	Friends of Peb Inc	T12	Distribution
	Fundação Antonio Amaral		Scholarships, Student
26-0144674	Inc	B82	Financial Aid, Awards
	Galion Community Center-		YMCA, YWCA, YWHA,
34-1267646	YMCA	P27	YMHA
26-1196166	Gap Missions Ministries	Q33	International Relief
			Hot Line, Crisis
45-4022033	Gender Justice Nevada	F40	Intervention
	General Baptist Nursing		Nursing, Convalescent
35-2438593	Home of Piggott	E91	(Geriatric and Nursing)
	Generation Opportunity		Nonmonetary Support
46-2346050	Institute	B19	N.E.C.
	Girls Incorporated of Greater		
76-0483812	Houston	O22	Girls Clubs
56-0538016	Gods World Publications Inc	W24	Citizen Participation
			Single Organization
20-5208348	Golden Hawks Club Inc	B11	Support
			Senior Citizens'
			Housing/Retirement
59-1750569	Good Neighbors Housing Inc	L22	Communities
0.5.16.5.25.5	Good Samaritan Hospital	F2.4	TT 1.1(0 1.1)
95-1656366	Attn Chief Financial Officer	E24	Hospital (Specialty)
02 (024024	Good Samaritan Hospital	F11	Single Organization
93-6024034	Auxiliary	E11	Support

	Goodwill Industries of		Adult, Continuing
56-0861003	Eastern North Carolina Inc	B60	Education
			Water Resource, Wetlands
			Conservation and
06-1030299	Goshen Land Trust	C32	Management
			Senior Citizens'
			Housing/Retirement
66-0804803	Grameen Puerto Rico LLC	L22	Communities
00-0004003	Grand Prairie Youth Football	LZZ	Communities
75 2520757	Association	NICE.	Easthall Chalas/Lassass
75-2539757		N65	Football Clubs/Leagues
87-0691643	Grandmas House Day Care	P33	Child Day Care
	Grays Harbor Community		Hospitals and Primary
91-0568304	Hospital	E20	Medical Care Facilities
	Great Falls Community Food		
36-3540471	Bank Inc	K31	Food Banks, Food Pantries
			Animal Protection and
	Greater Androscoggin		Welfare (includes Humane
01-6011843	Humane Society	D20	Societies and SPCAs)
01 00110.5	Greater Baltimore Medical	52 0	
52-6049658	Center	E22	Hospital (General)
32 00 17030	Greater Cincinnati		Hospital (General)
	Intergroup Council of		Alcohol, Drug Abuse
31-1010589	<u> </u>	F22	
31-1010389	Alcoholics Anonymous	ΓZZ	(Treatment Only)
	Greater Seattle Intergroup		A1 1 1 D A1
01 0500204	Assn of Alcoholics	F22	Alcohol, Drug Abuse
91-0588304	Anonynous	F22	(Treatment Only)
	Green Valley Assistance		Financial Counseling,
94-2783969	Services Inc	P51	Money Management
	Grow & Lead - Community		Single Organization
38-3522344	and Youth Development	T11	Support
	Grundy Livingston		
	Kankakee Workforce		
35-2200461	Investment Board Inc	S30	Economic Development
			Land Resources
84-1339198	Gunnison Legacy Fund	C34	Conservation
	Habitat for Humanity		Housing Development,
35-1758438	International Inc	L20	Construction, Management
33 1730 130	Habitat for Humanity	L2 0	Housing Development,
73-1422362	International Inc	L20	Construction, Management
73-1722302	Habitat for Humanity	L20	Housing Development,
54 1441071	•	1.20	
54-1441871	International Inc	L20	Construction, Management
50 2221100	Habitat for Humanity	1.20	Housing Development,
58-2321199	International Inc	L20	Construction, Management
04.0004.64.6	Habitat for Humanity	T 00	Housing Development,
94-3281616	International Inc	L20	Construction, Management

	Haiti Cholera Research		Fund Raising and/or Fund
46-3860027	Funding Foundation Inc	P12	Distribution
16 1441050	Hamburg Natural History	4.00	Historical Societies and
16-1441252	Society Inc	A80	Related Activities
41 1017606	II 1 4 1 1 2 C1 1	NICO	Amateur Sports Clubs,
41-1817606	Hamel Athletic Club	N60	Leagues, N.E.C.
54.0505000	II	D 42	University or
54-0505990	Hampton University	B43	Technological
91-2160019	Hands of Hope	X20	Christian
23-2548307	Hanover Soccer Club	N64	Soccer Clubs/Leagues
	Hardin-Simmons University	7.11	Single Organization
75-6044322	Academic Foundation	B11	Support
62-0501916	Harpeth Hall School	B20	Elementary, Secondary Ed
			Community, Neighborhood
	Harrison County Agri-		Development,
20-0454620	Business Association	S20	Improvement
(1 (02 42 5 5	Harrison County Educational	D02	Scholarships, Student
61-6034355	Foundation	B82	Financial Aid, Awards
05 1011210	Hamsey My 44 Callaga	D42	Undergraduate College (4-
95-1911219	Harvey Mudd College Hattie Larlham Center for	B42	year)
34-0963865	Children With Disabilities	P82	Developmentally Disabled Services/Centers
34-0903003	Cilidren with Disabilities	1 62	Recreational and Sporting
			Camps (Day, Overnight,
03-0358613	Have Justice-Will Travel Inc	N20	etc.)
03 0330013	Hawaii LGBT Legacy	1120	ctc.)
22-3969736	Foundation	R26	Lesbian/Gay Rights
			Science, General (includes
	Health and Environmental		Interdisciplinary Scientific
52-2337019	Sciences Institute	U20	Activities)
	Health Information		Research Institutes and/or
80-0414603	Exchange of Montana Inc	W05	Public Policy Analysis
	Heartsong Health in		Heart and Circulatory
26-0907331	Community	G43	System
			Developmentally Disabled
81-0305451	Helena Industries Inc	P82	Services/Centers
	Helping Hands for Children		Children's and Youth
01-0461341	and Families	P30	Services
7 1 0 52 4004	Hendrix-Murphy Foundation	D 40	Undergraduate College (4-
71-0534984	Inc	B42	year)
05.2665050	Heritage Museum of Orange	A 5 1	III da um Managana
95-3665050	County	A54	History Museums
45-2422428	Highlands-Cashiers Physician Services Inc	E11	Single Organization
43-2422428	Hispanic Counseling Center	LH	Support Community Mental Health
11-2592214	Inc	F32	Center
11-4374414	IIIC	1 34	Contol

04 6101405	W		Historical Societies and
04-6191407	Historic Salem Inc	A80	Related Activities
94-1312328	Home of Peace of Oakland	X21	Protestant
			Amateur Sports Clubs,
23-7062425	Homenetmen	N60	Leagues, N.E.C.
22-3660414	Homes By Tlc Inc Honey Branch Industrial	P85	Homeless Services/Centers
61-1338845	Development Authority Inc Honolulu Biennial	S30	Economic Development
47-1652561	Foundation	A25	Arts Education/Schools Alcohol, Drug Abuse
20-8934436	Hope Center Ministries Hope of the Valley Rescue	F22	(Treatment Only) Human Service
27-2053273	Mission	P20	Organizations
21 2033213	1411351011	120	Services to Promote the
			Independence of Specific
62-1361122	Hope Pregnancy Center	P80	Populations
02 1001122	maps regionally control	100	Emergency Assistance
45-3833248	Hope Sanger	P60	(Food, Clothing, Cash)
	Hospice of Chattanooga		Single Organization
20-3778171	Foundation	P11	Support
86-0338886	Hospice of the Valley	P74	Hospice
	Hot Springs Documentary		1
71-0730452	Film Institute	A84	Commemorative Events University or
53-0204707	Howard University	B43	Technological
	Hudson Gateway Realtor		5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -
56-2383564	Foundation Inc	B99	Education N.E.C.
			Environmental Education
	Hudson Highlands Nature		and Outdoor Survival
14-1470087	Museum	C60	Programs
			Animal Protection and
	Humane Society of Harrison		Welfare (includes Humane
75-6060794	County	D20	Societies and SPCAs)
			Animal Protection and
	Humane Society of South		Welfare (includes Humane
64-6034439	MS	D20	Societies and SPCAs)
04 000 7 40 7	Iglesia Mision Pentecostes	***	~
81-2925435	Cristo Viene	X20	Christian
26 2202052	Indiana Life Sciences	1/20	T (1' ' 1' D 1
26-2202852	Academy Inc	V30	Interdisciplinary Research
05 2207200	Inglewood Neighborhood	1.20	Housing Development,
95-3287300	Housing Services Inc	L20	Construction, Management
38-3030262	Inkster Senior Services Inc	P81	Senior Centers/Services
26 4722412	Inland Northwest Honor	A 90	Historical Societies and
26-4723413	Flight	A80	Related Activities

		Institute for American		Alliance/Advocacy
13_	3400377	Values	W01	Organizations
15	3700377	Instrumental Music Boosters	W 01	Organizations
				Eyed Daising and/or Eyed
24	1693395	of the Massillon City Schools Inc	A 10	Fund Raising and/or Fund Distribution
34-	1093393	Schools Inc	A12	
		T		Public, Society Benefit -
		Inter-Church Organization	****	Multipurpose and Other
61-	1212528	Inc	W99	N.E.C.
		Inter-Tribal Council of the		
88-0	0096475	State of Nevada	P84	Ethnic/Immigrant Services
				Fund Raising
				Organizations That Cross
				Categories includes
				Community Funds/Trusts
		Intercommunity Charitable		and Federated Giving
36-3	3284767	Trust	T70	Programs) e.g. United Way
		Interior Community Health		Ambulatory Health Center,
92-0	0147354	Center	E32	Community Clinic
		International Association for		Professional Societies,
35-0	0894354	Food Protection Inc	K03	Associations
		International Center for		Arms Control, Peace
04-3	3550580	Conciliation Inc	Q41	Organizations
		International Homicide		Professional Societies,
42-	1322075	Investgators Associates Inc	I03	Associations
		International League of		Natural Resource
		Conservation Photographers		Conservation and
27-	1455999	Inc	C30	Protection
				Animal Protection and
		Internet Miniature Pinscher		Welfare (includes Humane
59-3	3582782	Service Inc	D20	Societies and SPCAs)
				Animal Protection and
				Welfare (includes Humane
20-	5855724	Its the Pits	D20	Societies and SPCAs)
				Natural Resource
		Izaak Walton League of		Conservation and
54-	1253532	America Inc	C30	Protection
	120000	Jeffry W Berger Research		Scholarships, Student
22-0	6881571	Scholarship Tr	B82	Financial Aid, Awards
	0001071	~ · · · · · · · · · · · · · · · · · · ·	202	Alcohol, Drug Abuse
27-	2371892	Jericho House Incorporated	F22	(Treatment Only)
2/1	23/10/2	serieno mouse meorporated	1 22	Scholarships, Student
38-	2958545	Jewell Educational Fund	B82	Financial Aid, Awards
30 1	2730343	Jewell Educational Land	D02	Fund Raising
				Organizations That Cross
		Jewish Federation Jewish		Categories includes
75 (0808797	Social Service	T70	Categories includes Community Funds/Trusts
13-	0000/9/	Social Scivice	1/0	Community Funds/ Husts

			and Federated Giving
			Programs) e.g. United Way
26 1706205	IC II · I	1.00	Other Housing Support
26-1786285	Jfs Housing Inc	L80	Services
27-0849015	Joelton Hope Center Johnny Appleseed Heritage	K31	Food Banks, Food Pantries
34-1794724	Center	A61	Performing Arts Centers University or
05-0306206	Johnson & Wales University Judeo-Christian Outreach	B43	Technological
54-1417126	Center Inc	L41	Temporary Shelter For the Homeless
61-1176695	Just Enterprises Inc	A24	Folk Arts Neighborhood Center,
33-1085540	Justpartners Inc	P28	Settlement House
33-10033-10	Justpartners me	1 20	Public Transportation
20-2310759	K & D Transit Inc	W40	Systems and Services
20 2310739	The B Transit Inc	** 10	Group Health Practice
	Kaiser Foundation Health		(Health Maintenance
94-1340523	Plan Inc	E31	Organizations)
			Community Health
94-1105628	Kaiser Foundation Hospitals	E21	Systems
	Kaiser Home Support		Homemaker, Home Health
35-1509145	Services Inc	P44	Aide
	Karnes City Volunteer Fire		Fire Prevention / Protection
74-2972956	Department Inc	M24	/ Control
		3.60.4	Fire Prevention / Protection
55-0703751	Kermit Volunteer Fire Dept	M24	/ Control
45-0403385	Keya Radio Incorporated	A34	Radio
23-3060082	Khepera Charter School	B29	Charter Schools
	Khmer Buddhist Society of		
33-0626004	San Bernardino Inc	X50	Buddhist
25-0983060	Kidsvoice	I80	Legal Services
	Kiryas Joel Volunteer		
	Emergency Medical Services		Ambulance/Emergency
06-1412359	Inc	E62	Transport
	Kiwanis Club of Lakewood		~
24 6526525	Ohio Scholarship Foundation	D02	Scholarships, Student
34-6536525	Inc	B82	Financial Aid, Awards
	171 - i - M i - 1 A 1 A i		Arts, Cultural
06 1474222	Klein Memorial Auditorium	A 20	Organizations -
06-1474233	Foundation Inc	A20	Multipurpose Emergency Assistance
20-4368366	LA Maestra Foundation Inc	P60	Emergency Assistance (Food, Clothing, Cash)
			,
65-0005948	LA Musica Di Asolo Inc	A68	Music

48-0886411	Labette Center for Mental Health Services Incorporated	F30	Mental Health Treatment
70-0000711	Lacis Museum of Lace and	1'30	Museum & Museum
20-1722834	Textiles Inc Lake Norman Little League	A50	Activities
56-1335972	Inc	N40	Sports Training Facilities Group Home, Residential Treatment Facility - Mental
59-2842486	Lakeview Villa Inc Lansdowne Volunteer Fire	F33	Health Related Fire Prevention / Protection
52-6048052	Association No 1 Inc	M24	/ Control Developmentally Disabled
38-3089589	Lap Respite Center	P82	Services/Centers
95-4311058	Las Best	O50	Youth Development Programs
45-4529860	Leader Dogs for the Blind Foundation	P11	Single Organization Support
22-6063278	Leadingage New Jersey Inc	G01	Alliance/Advocacy Organizations
35-6041946	Lebanon Area Boys & Girls Club	O23	Boys and Girls Clubs (Combined)
65-1044146	Lees Foster Home Inc Liability Insurance Trust for	P82	Developmentally Disabled Services/Centers
55-0689535	Monongalia Health System Inc and M	E11	Single Organization Support Arts, Cultural
91-1821013	Lincoln City Cultural Center Inc	A20	Organizations - Multipurpose Kindergarten, Nursery
58-2516250	Little School Inc	B21	Schools, Preschool, Early Admissions
23-7055535	Local Union No 68 Training Program Trust	J22	Employment Training
95-3915617	Lomita Kiwanis Gardens Inc	L21	Public Housing Natural Resource
41-1833478	Long Lake Home Owners Assn Inc	C30	Conservation and Protection
95-3134049	Los Angeles Mission Inc	P85	Homeless Services/Centers
	Lower Polk Community	~	Community, Neighborhood Development,
47-2405132	Benefit District Lutheran Homes & Health	S20	Improvement Single Organization
39-1466308	Services Foundation Inc	P11	Support Human Service
46-5681240	Macs Mission	P20	Organizations

Madonna Learning Center Incorporated B28 Mahamevnawa Bhavana B26-1658534 Monastery of New Jersey P37-0857818 Mainstreet Kids Manning Regional B28 Manning Regional B29 Manning Regional B20 Maranatha Brethren in Christ B5-1269250 Church Inc Mariners Museum Tr No 1 B1-6035522 Mary L and William J Osher B20-5094518 Foundation P1-0309670 P1-0309670 P1-0309670 P1-0309670 P25-1044174 Department Masonic Temple Association Maso				Specialized Education Institutions/Schools for
Madonna Learning Center Incorporated B28 Disabled Mutual/Membership Benefit Organizations, Other N.E.C. 71-0857818 Mainstreet Kids P33 Child Day Care Manning Regional 39-1902797 Healtheare Center Maple Valley Memorial 38-2700548 Scholarship Foundation B82 Financial Aid, Awards Maranatha Brethren in Christ 65-1269250 Church Ine X21 Protestant 45-3076709 Marin Summer Theater A65 Theater Mariners Museum Tr No 1 Single Organization 13-6035522 P03583005 A11 Support Masonic Temple Association 91-0309670 of Spokane Washington Masonic Temple Association MecClusky Enterprises Inc L24 Protestant McClusky Enterprises Inc L24 Protestant McClusky Enterprises Inc L24 Protestant McKenzie Personnel Employment for Disabled and Elderly) Vocational Rehabilitation (includes Job Training and Employment for Disabled and Elderly) Vocational Rehabilitation (includes Job Training and Employment for Disabled and Elderly) Wedway Extended Day Inc Medway Extende				Visually or Hearing
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26-1658534 Monastery of New Jersey Y99 Other N.E.C.				Mutual/Membership
71-0857818 Mainstreet Kids Manning Regional 39-1902797 Healthcare Center E22 Hospital (General) Maple Valley Memorial Scholarships, Student Scholarship Foundation B82 Financial Aid, Awards Maranatha Brethren in Christ 65-1269250 Church Inc X21 Protestant 45-3076709 Marin Summer Theater A65 Theater Maniners Museum Tr No 1 13-6035522 P03583005 A11 Support Mary L and William J Osher 20-5094518 Foundation of Spokane Washington Z99 Unknown Masonic Temple Association 91-0309670 Masontown Volunteer Fire Department M24 / Control Massachusetts Science Educational Services and O4-3215778 Center Corporation B90 Schools - Other 59-1846986 McClain Inc P73 Group Home (Long Term Independent Housing for People with Disabilities Vocational Rehabilitation (includes Job Training and Employment for Disabled and Elderly) MeKenzie Personnel Systems J30 and Elderly) Medway Extended Day Inc Methal Health Association in Mental Health Association,		Mahamevnawa Bhavana		
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Maple Valley Memorial 38-2700548 Scholarship Foundation Maranatha Brethren in Christ 65-1269250 Church Ine X21 Protestant 45-3076709 Marin Summer Theater Mariners Museum Tr No 1 13-6035522 P03583005 A11 Support Mary L and William J Osher 20-5094518 Foundation T30 Public Foundations Masonic Temple Association 91-0309670 of Spokane Washington Masontown Volunteer Fire Educational Services and O4-3215778 Center Corporation B90 Schools - Other 59-1846986 McClain Inc P73 Group Home (Long Term Independent Housing for People with Disabilities Vocational Rehabilitation (includes Job Training and Employment for Disabled and Elderly) McKenzie Personnel Mdi Government Service Inc Medway Extended Day Inc Medway Extended Day Inc Mental Health Association, Mental Health A		Manning Regional		
Scholarship Foundation Maranatha Brethren in Christ	39-1902797		E22	± ` ` ′
Maranatha Brethren in Christ 65-1269250 Church Inc X21 Protestant 45-3076709 Marin Summer Theater A65 Theater				
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45-3076709 Marin Summer Theater Mariners Museum Tr No 1 13-6035522 P03583005 A11 Support 20-5094518 Foundation T30 Public Foundations Masonic Temple Association 91-0309670 of Spokane Washington Masontown Volunteer Fire Prevention / Protection 25-1044174 Department M24 / Control Massachusetts Science Educational Services and 04-3215778 Center Corporation B90 Schools - Other 59-1846986 McClain Inc P73 Group Home (Long Term Independent Housing for Pople with Disabilities Vocational Rehabilitation (includes Job Training and Employment for Disabled and Elderly) 93-0864239 Systems J30 and Elderly) Wocational Rehabilitation (includes Job Training and Employment for Disabled and Employment for Disabled and Employment for Disabled and Employment for Disabled and Elderly) Wocational Rehabilitation (includes Job Training and Employment for Disabled and Elderly) Wocational Rehabilitation (includes Job Training and Employment for Disabled and Elderly) Wocational Rehabilitation (includes Job Training and Employment for Disabled and Elderly) Wocational Rehabilitation (includes Job Training and Employment for Disabled and Elderly) Wocational Rehabilitation (includes Job Training and Employment for Disabled and Employment for Disabled and Elderly) Wocational Rehabilitation (includes Job Training and Employment for Disabled and Elderly) Wocational Rehabilitation (includes Job Training and Employment for Disabled and Employment for Disa				
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13-6035522 P03583005 A11 Support Mary L and William J Osher 20-5094518 Foundation T30 Public Foundations 91-0309670 of Spokane Washington Z99 Unknown Masontown Volunteer Fire Fire Prevention / Protection 25-1044174 Department M24 / Control Massachusetts Science Educational Services and 04-3215778 Center Corporation B90 Schools - Other 59-1846986 McClain Inc P73 Group Home (Long Term Independent Housing for 59-3181989 McClusky Enterprises Inc L24 People with Disabilities Vocational Rehabilitation (includes Job Training and Employment for Disabled 93-0864239 Systems J30 and Elderly) Vocational Rehabilitation (includes Job Training and Employment for Disabled and Employment for Disabled and Elderly) 41-1801370 Mdi Government Service Inc Medway Extended Day Inc 04-3287193 M E D I P33 Child Day Care Mental Health Association,	45-3076709		A65	Theater
Mary L and William J Osher 20-5094518 Foundation T30 Public Foundations Masonic Temple Association 91-0309670 of Spokane Washington Z99 Unknown Masontown Volunteer Fire Fire Prevention / Protection 25-1044174 Department M24 / Control Massachusetts Science Educational Services and 04-3215778 Center Corporation B90 Schools - Other 59-1846986 McClain Inc P73 Group Home (Long Term Independent Housing for 59-3181989 McClusky Enterprises Inc L24 People with Disabilities Vocational Rehabilitation (includes Job Training and Employment for Disabled and Elderly) WcKenzie Personnel J30 and Elderly) Vocational Rehabilitation (includes Job Training and Employment for Disabled and Employment for Di				
20-5094518 Foundation Masonic Temple Association	13-6035522		A11	Support
Masonic Temple Association 91-0309670 of Spokane Washington Z99 Unknown Masontown Volunteer Fire Fire Prevention / Protection 25-1044174 Department M24 / Control Massachusetts Science Educational Services and 04-3215778 Center Corporation B90 Schools - Other 59-1846986 McClain Inc P73 Group Home (Long Term Independent Housing for 59-3181989 McClusky Enterprises Inc L24 People with Disabilities Vocational Rehabilitation (includes Job Training and Employment for Disabled 93-0864239 Systems J30 and Elderly) Vocational Rehabilitation (includes Job Training and Employment for Disabled 41-1801370 Mdi Government Service Inc Medway Extended Day Inc 04-3287193 M E D I P33 Child Day Care Mental Health Association,		-		
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Masontown Volunteer Fire 25-1044174 Department Massachusetts Science 04-3215778 Center Corporation B90 Schools - Other 59-1846986 McClain Inc P73 Group Home (Long Term Independent Housing for People with Disabilities Vocational Rehabilitation (includes Job Training and Employment for Disabled and Elderly) Wedway Extended Day Inc 04-3287193 Masontown Volunteer Fire Fire Prevention / Protection Educational Services and Schools - Other Group Home (Long Term Independent Housing for People with Disabilities Vocational Rehabilitation (includes Job Training and Employment for Disabled and Elderly) Vocational Rehabilitation (includes Job Training and Employment for Disabled and Elderly) Medway Extended Day Inc O4-3287193 M E D I Mental Health Association in Mental Health Association,	04.000.00	<u> </u>	700	
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04-3215778 Center Corporation B90 Schools - Other 59-1846986 McClain Inc P73 Group Home (Long Term Independent Housing for People with Disabilities Vocational Rehabilitation (includes Job Training and Employment for Disabled and Elderly) 93-0864239 Systems J30 and Elderly) Vocational Rehabilitation (includes Job Training and Employment for Disabled and Employment for Disabled and Employment for Disabled and Elderly) 41-1801370 Mdi Government Service Inc Medway Extended Day Inc 04-3287193 M E D I P33 Child Day Care Mental Health Association,	25-10441/4	<u> </u>	M24	
59-1846986 McClain Inc 59-3181989 McClusky Enterprises Inc 59-3181989 McClusky Enterprises Inc McKenzie Personnel 93-0864239 Systems J30 McKenzie Personnel 93-0864239 McClusky Enterprises Inc McKenzie Personnel 93-0864239 Systems J30 Employment for Disabled and Elderly) Vocational Rehabilitation (includes Job Training and Employment for Disabled and Elderly) Wocational Rehabilitation (includes Job Training and Employment for Disabled and Elderly) Medway Extended Day Inc 04-3287193 M E D I Mental Health Association in Mental Health Association,	04 2215770		DOO	
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McKenzie Personnel 93-0864239 Systems J30 Employment for Disabled and Elderly) Vocational Rehabilitation (includes Job Training and Employment for Disabled and Employment for Disabled Employment for Disabled and Elderly) Medway Extended Day Inc 04-3287193 M E D I Mental Health Association in (includes Job Training and Employment for Disabled and Elderly) Child Day Care Mental Health Association,	39-3181989	McClusky Enterprises Inc	L24	
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41-1801370 Mdi Government Service Inc J30 and Elderly) Medway Extended Day Inc 04-3287193 M E D I P33 Child Day Care Mental Health Association in Mental Health Association,	75-000 1 257	Systems	330	• /
41-1801370 Mdi Government Service Inc J30 and Elderly) Medway Extended Day Inc 04-3287193 M E D I P33 Child Day Care Mental Health Association in Mental Health Association,				
41-1801370 Mdi Government Service Inc J30 and Elderly) Medway Extended Day Inc 04-3287193 M E D I P33 Child Day Care Mental Health Association in Mental Health Association,				
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04-3287193 M E D I P33 Child Day Care Mental Health Association in Mental Health Association,	11 1001570			una Elaerij)
Mental Health Association in Mental Health Association,	04-3287193		P33	Child Day Care
		Mental Health Association in		
	73-0657931		F80	
Merced Center for the		Merced Center for the		1 1
77-0367895 Performing Arts A65 Theater	77-0367895	Performing Arts	A65	Theater
Residential, Custodial Care				Residential, Custodial Care
04-3831639 Mercy Drive Inc P70 (Group Home)	04-3831639	Mercy Drive Inc	P70	(Group Home)

	N. 1 . A 1		D C : 1C : (
20 1700501	Michigan Architectural	4.02	Professional Societies,
38-1698501	Foundation	A03	Associations
	M:1 C 1 1: C1:11		Kindergarten, Nursery
02 0051000	Mid-Columbia Childrens	D21	Schools, Preschool, Early
93-0951908	Council Inc	B21	Admissions
21 0004005	Mid-Ohio Board for	D10	Nonmonetary Support
31-0984885	Independent Living	P19	N.E.C.
(2 1147741	Military Order of the Stars	A 0.0	Historical Societies and
62-1147741	and Bars	A80	Related Activities
47-0544755	Millard United Sports	N40	Sports Training Facilities
41 1640640	Minnesota Housing	T 0.1	Alliance/Advocacy
41-1649643	Partnership	L01	Organizations
20.2072000	Mission Opportunities Short	D 20	Human Service
38-2873880	Term	P20	Organizations
50 0150014	M T. H	020	International Development,
59-2173214	Mission To Haiti Inc Mississippi Baptist Medical	Q30	Relief Services
64-0881013	Center	E22	Hospital (General)
04-0001013	Monmouth Conservatory of	L22	Hospital (General)
22-1764580	Music	A6E	Performing Arts Schools
20-3406668	Morning Light Foundation	B99	Education N.E.C.
	Mountain Shadows Support		
33-0311012	Group	P50	Personal Social Services
	Mountain Valley Volunteer		Fire Prevention / Protection
56-2004544	Fire & Rescue Inc	M24	/ Control
33-0700485	Mountain View Acres Inc	L21	Public Housing
	MT Angel Community		Č
93-1205915	Foundation	T31	Community Foundations
20-8686590	Mulberry Fields	X21	Protestant
94-2638257	Museo Italo-Americano	A23	Cultural, Ethnic Awareness
		-	Human Service
26-2059154	Musicworks	P20	Organizations
	Mutual Aid Ambulance		Ambulance/Emergency
25-6333828	Service Trust	E62	Transport
			Botanical Gardens,
			Arboreta and Botanical
65-0511429	Naples Botanical Garden Inc	C41	Organizations
	1		Food Service, Free Food
20-8734514	Nar Incorporated	K30	Distribution Programs
	1		Specialized Education
			Institutions/Schools for
			Visually or Hearing
			Impaired, Learning
01-0672424	Nashoba Learning Group Inc	B28	Disabled
	National Association for		Professional Societies &
84-1036938	Interpretation	B03	Associations

	National Association of		Promotion of Business
04-2791194	Black Accountants Inc	S41	(Chambers of Commerce)
	National Association of		
52-1185005	Women Judges	R24	Women's Rights
	National Cancer Assistance		
26-4277380	Foundation Inc	G30	Cancer
	National Church Residences		
91-2031606	Of	L21	Public Housing
			Management & Technical
94-3222960	National Equity Project	B02	Assistance
	National Nurse-Led Care		Nursing Services General
01-0560081	Consortium	E90	(includes Candy Stripers)
22-2020032	National Recall Alert Center	P33	Child Day Care
22-2020032	Nederland Heritage Festival	1 33	Child Day Care
76-0191887	Foundation Inc	A23	Cultural, Ethnic Awareness
/0-019100/		A23	•
00 0245762	Nevada Rural Hospital	E12	Fund Raising and/or Fund Distribution
88-0345763	Project Foundation Inc	E12	Distribution
	New Alternative Education		
26 4274546	High School of Osceola	D25	
26-4274546	County Inc	B25	Secondary/High School
02.0270626	N E G IV	D 0.1	Alliance/Advocacy
03-0278626	New Economy Coalition Inc	R01	Organizations
04.0104560	New England Deaconess	D.5.5	Senior Continuing Care
04-2104763	Association	P75	Communities
22-2304075	New Horizons in Autism Inc	P73	Group Home (Long Term
			Kindergarten, Nursery
	New Horizons Nursery		Schools, Preschool, Early
94-2938206	School Inc	B21	Admissions
			Amateur Sports Clubs,
41-0742505	New Ulm Turnverein	N60	Leagues, N.E.C.
	Nine Star University of		University or
26-0337511	Healthsciences	B43	Technological
	Ninh Thuan Friendly		Vocational Counseling /
33-0665952	Association	J21	Guidance / Testing
	North Central Alabama		Alcohol, Drug Abuse
63-0695567	Association for Alcoholism	F22	(Treatment Only)
	North County Trade Tech		`
83-0494683	High School	B25	Secondary/High School
	North High School Boosters		Single Organization
34-1176266	Club of Eastlake Ohio Inc	B11	Support
	North Shore Volunteer		Ambulance/Emergency
16-1472265	Emergency Squad Inc	E62	Transport
10 1.72203	North Texas State Soccer		Transport
75-2800087	Association Inc	N64	Soccer Clubs/Leagues
75 2000007	1 1000 ciacion inio	1101	Management & Technical
32-0033813	North-South Institute	K02	Assistance
J2 00JJ01J	1 TOTAL DOGILI HISHIAIC	1104	1 Monoranie

	Northeast Kansas Football		
48-1200834	League	N65	Football Clubs/Leagues
	NW Sarcoma Foundation A		Alliance/Advocacy
91-1717600	Non-Profit Corporation	P01	Organizations
	-		Specialized Education
			Institutions/Schools for
			Visually or Hearing
	Oasis Therapeutic Life		Impaired, Learning
26-1176618	Centers Inc	B28	Disabled
	Odyssey Charter School		
20-1787299	Incorporated	B29	Charter Schools
	Oficina Legal Del Pueblo		Civil Rights, Social Action,
74-1995879	Unido Inc	R99	and Advocacy N.E.C.
, . 1550075	Ogontz Avenue	10,5	5224 124 CCCC 1 1 1 2 1 2 1
22-2483318	Revitalization Corp	S30	Economic Development
22 2 103310	Ohio Community	550	Economic Bevelopment
34-1193406	Corrections Association	S21	Community Coalitions
31 1173 100	Corrections 7 issociation	521	Fund Raising
			Organizations That Cross
			Categories includes
			Community Funds/Trusts
			and Federated Giving
31-4379529	Ohio United Way	T70	Programs) e.g. United Way
31-73//32/	Ohio Wildlife Rehabilitators	170	Protection of Endangered
31-1358163	Association	D31	Species
31-1330103	Ohr Somayach International	D31	Species
13-3503155	Inc	X30	Jewish
01-0349706			
01-0349/00	Onpoint Health Data Open Arms Christian	E60	Health Support Services
35-1614662	Ministries	P70	Residential, Custodial Care
33-1014002	Ministries	P/0	(Group Home) Senior Citizens'
	Onehand Tamasa Nan Duefit		
20.2260010	Orchard Terrace Non - Profit	1.00	Housing/Retirement
38-2269018	Elderly Housing Corp	L22	Communities
26 4102060	O.1 1 D1- C1	N/70	Amateur Sports
36-4192960	Orland Park Sparks	N70	Competitions
04-3717267	Orphans Unlimited Inc	X20	Christian
	Orpheum Childrens Science		Educational Services and
37-1282129	Museum Inc	B90	Schools - Other
94-2728116	Other Minds	A68	Music
	Owen-Withee Community		Ambulance/Emergency
39-1784344	Ambulance Service Inc	E62	Transport
31-0934786	Oxford Senior Citizens Inc	P81	Senior Centers/Services
27-1285566	Pace Finance Corporation	G54	Epilepsy
	1		Human Services -
			Multipurpose and Other
95-4497617	Palisades Pride Inc	P99	N.E.C.

59-1090377	Palmetto Youth Center	P28	Neighborhood Center, Settlement House
51-0477445	Parent Teacher Home Visit Project Inc	B94	Parent Teacher Group
25-1803585	Parkinson Foundation of Western Pennsylvania Perinatal Advisory Council	G96	Neurology, Neuroscience
95-3818791	Leadership Advocacy and Consultati	E24	Hospital (Specialty) Animal Protection and Welfare (includes Humane
27-5017992	Pets Without Parents Shelter	D20	Societies and SPCAs) Primary/Elementary
86-0172671	Phoenix Country Day School Pittsburgh Economic and Industrial Development	B24	Schools
25-1758627	Corporation	S31	Urban, Community Ambulance/Emergency
22-222690	Plainsboro Rescue Squad Inc	E62	Transport
51-0169168	Plan International Inc Pop Warner Little Scholars	Q33	International Relief
59-2669051	Inc Population Services	N40	Sports Training Facilities International Development,
56-0942853	International Port Orford Ocean Resource	Q30	Relief Services Research Institutes and/or
56-2374399	Team Prairie Community Services	D05	Public Policy Analysis Residential, Custodial Care
41-1598442	Inc	P70	(Group Home) Alcohol, Drug and Substance Abuse,
43-1236557	Preferred Family Healthcare Inc	F20	Dependency Prevention and Treatment
86-1030251	Premier-Career Success Prescott Animal Park	B29	Charter Schools
86-0549101	Association Presence Central and	D50	Zoo, Zoological Society Community Health
36-4195126	Suburban Hospitals Network	E21	Systems Vocational Rehabilitation (includes Job Training and Employment for Disabled
43-0733936	Project Inc	J30	and Elderly)
47-0710092	Project Response Inc	F42	Rape Victim Services Community, Neighborhood Development,
05-0467353	Providence Plan	S20	Improvement

	Psychoanalytic Electronic		
13-3917468	Publishing Inc Joint Venture	A33	Printing, Publishing
13-3935079	PTA New York Congress	B94	Parent Teacher Group
23-7014116	PTA Pennsylvania Congress	B94	Parent Teacher Group
23-7014110	FTA Fellisylvallia Coligless	D9 4	Fund Raising and/or Fund
95-4521318	Public Lands for the People	C12	Distribution
)5 1 521510	Purcell Baseball Softball	C12	Baseball, Softball (includes
46-3327172	Association	N63	Little Leagues)
			Primary/Elementary
27-0120709	Que Tal Language Program Rails To Trails of Wayne	B24	Schools
34-1833726	County	N32	Parks and Playgrounds
	Ray of Hope Advocacy		7.8
41-2101423	Center Inc	F42	Rape Victim Services
80-0650308	Reach-NYC	X20	Christian
	Rebuilding Together Miami-		
65-0424304	Dade Inc	L25	Housing Rehabilitation
	Recovery House of Central		Alcohol, Drug Abuse
59-3448411	Florida Inc	F22	(Treatment Only)
0.4.0.0.0.1.0	Red Brick Council for the		
84-0632118	Arts	A26	Arts Council/Agency
50 0701027	Rehabilitation Center for	E 5 0	Rehabilitative Medical
59-0791037	Children and Adults Rescue Mission of Mahoning	E50	Services Human Service
34-6006424	Valley	P20	Organizations
34 0000424	Resource Center for Parents	120	Organizations
92-0072568	& Children	I72	Child Abuse, Prevention of
			Senior Citizens'
			Housing/Retirement
04-2763101	Revere Elderly Housing Inc	L22	Communities
			Single Organization
56-6052117	Rex Hospital Foundation Inc	E11	Support
	Rho Chapter of Sigma Chi		
21 1254020	Fraternity Scholarship Fund	D02	Scholarships, Student
31-1254020	Inc	B82	Financial Aid, Awards
20-0616001	Rhodora J Donahue	D24	Primary/Elementary Schools
20-0616001	Academy Inc Richard E Wildish	B24	Schools
26-3758815	Community Theater	A65	Theater
20-3730013	Community Theater	AUJ	Civil Rights, Social Action,
47-4043799	Rise Up	R99	and Advocacy N.E.C.
.,,	Ritchie County Integrated		
55-0539486	Family Services Inc	P40	Family Services
	Rogue Valley Veterans and		Emergency Assistance
93-0779926	Community Outreach	P60	(Food, Clothing, Cash)

	Rome Volunteer Fire		Fire Prevention / Protection
31-0085494	Department	M24	/ Control
	Ronald McDonald House		Fund Raising and/or Fund
34-1574291	Charities Inc	S12	Distribution
			Kindergarten, Nursery
			Schools, Preschool, Early
68-0462817	Rosemont Playschool Inc	B21	Admissions
	Rural Communities Housing		
45-4799736	Development Group	S21	Community Coalitions
	Sacramento Chinese of		y
94-2847211	Indochina Friendship	A23	Cultural, Ethnic Awareness
) 1 20 17 2 I I	mademia i frenasmp	1123	Residential, Custodial Care
59-2515634	Safe Harbor Haven Inc	P70	(Group Home)
39-2313034	Sale Harbor Haven file	F / O	
04.2052660	Safaranat Salara	D42	Family Violence Shelters and Services
94-2853669	Safequest Solano	P43	
76-0229177	Safety Council of Texas City	E70	Public Health Program
	Saint Simons Christian		Primary/Elementary
58-2141244	School Inc	B24	Schools
23-7366640	Salisbury Symphony Inc	A69	Symphony Orchestras
	San Diego Childrens		, ,
33-0912735	Discovery Museum	A52	Children's Museums
	•		Fund Raising and/or Fund
27-4529565	San Diego Youth Foundation	O12	Distribution
	San Francisco Center for		
94-1546088	Psychoanalysis	B99	Education N.E.C.
)	San Patricio County A & H	2,,	Agricultural, Youth
74-2770972	Auction	O52	Development
712770772	Tuellon	032	Natural Resource
	Sanctuary Friends		Conservation and
59-2443959	Foundation of the Keys Inc	C30	Protection and
33-2 44 3333	Sand Tots Parent	C30	Kindergarten, Nursery
			-
05 2052007	Participation Nursey School	D21	Schools, Preschool, Early
95-2853007	Inc	B21	Admissions
27 1010517	Sarah Bush Lincoln Health	F22	II '4 1 (C 1)
37-1019517	Center Guild	E22	Hospital (General)
060-0640-	Save the Children Federation	0.00	International Development,
06-0726487	Inc	Q30	Relief Services
			Alliance/Advocacy
23-2188166	Scenic America	C01	Organizations
	Scott & White Memorial		
74-1166904	Hospital	E22	Hospital (General)
	Scranton Volunteer Fire		Fire Prevention / Protection
16-1433495	Company	M24	/ Control
	Screen Actors Guild -		
	American Federation of		Fund Raising and/or Fund
95-3967876	Television and Radio	A12	Distribution

	Seattle Chamber Music			
91-1169836	Festival	A68		Music
				Dispute
	Seeds Community			Resolution/Mediation
94-3054165	Resolution Center	I51		Services
	Senior Citizens of the Post			
	Falls Area of Kootenai			
82-0356946	County Inc	P81		Senior Centers/Services
	Sheet Metal Workers Joint			
	Apprentice & Training			
23-2004118	Committee Of	J22		Employment Training
54-1615599	Sheltering Arms Foundation	E24		Hospital (Specialty)
	8			Undergraduate College (4-
77-0495439	Silicon Valley University	B42		year)
20-1337670	Silver Spring Day School Inc	B20		Elementary, Secondary Ed
20 1337070	Skiatook Emergency	B2 0		Diementary, Secondary Ed
73-1319139	Assistance Center Inc		0.00	0.00
75 1517157	Skills for Chicagolands		0.00	Employment, Job Related
45-1287418	Future	J99		N.E.C.
15 1207110	Slavic International			10.2.0.
	Association of Ministries			
91-1719293	Good Samaritan	Z99		Unknown
)1 1/1/ 2 /3	Small Wonder Child Care	2,,		CIMIOWII
81-0458644	Inc	P33		Child Day Care
01 0100011	Smoky Hill Child Care	100		
90-0491281	Foundation	P33		Child Day Care
				Employment Procurement
				Assistance and Job
41-1449179	Soar Career Solutions	J20		Training
				Animal Protection and
	Social Tees Animal Rescue			Welfare (includes Humane
06-1818756	Foundation	D20		Societies and SPCAs)
	Sofia Quintero Art and			,
34-1925216	Cultural Center	A23		Cultural, Ethnic Awareness
	South Carolina Association			,
	for Community Economic			
56-2049813	Development	S30		Economic Development
	South Central Foundation for			Community Recreational
90-0856131	Fitness Dance and Arts	N31		Centers
				Youth Centers, Clubs,
	South County Youth			(includes Boys/Girls
52-1225368	Association Incorporated	O20		Clubs)- Multipurpose
91-1066692	South Hill Soccer Club	N64		Soccer Clubs/Leagues
) 1 10000) <u>2</u>	Zeam IIII Secol Ciue	1101		Single Organization
56-2525079	South Lakes Booster Club	B11		Support
59-0872594	South Miami Hospital Inc	E22		Hospital (General)
JJ-00/4JJ4	South Miann Hospital Inc	1522		mospital (Ocheral)

			W:
23-7456860	South Shara Englas Inc	N68	Winter Sports (Snow and
23-7430000	South Shore Eagles Inc South Texas Youth Soccer	1100	Ice)
74-2230425	Association	N64	Soccer Clubs/Leagues
, . 2250 .25	Southeast Missouri Facilities	1,0,1	Sector Class Leagues
43-1150720	Inc	S50	Nonprofit Management
			Undergraduate College (4-
59-0722789	Southeastern University Inc	B42	year)
	Southern Illinois Research		Single Organization
37-1411195	Park Corporation	B11	Support
	Southern Tier Regional		Ambulance/Emergency
22-2563233	Emergency Medical Services	E62	Transport
26.2502172	Southside Swarm Volleyball	NGO	Amateur Sports Clubs,
26-2593173	Club Inc	N60	Leagues, N.E.C.
22-3746754	Spark Friends Inc	A80	Historical Societies and Related Activities
	*		
73-1554828	Spay Oklahoma Inc	D40	Veterinary Services Fire Prevention / Protection
06-1681024	Spickard Fire Protection District	M24	/ Control
00-1001024	District	1 V12-4	Youth Centers, Clubs,
			(includes Boys/Girls
56-2181079	Sprott Youth Center Inc	O20	Clubs)- Multipurpose
00 21010,7	St Camillus Health System	5 2 0	Community Health
39-0806167	Inc	E21	Systems
	St Charles Hospital		Single Organization
41-2076312	Foundation	E11	Support
15-0532245	St Elizabeth Medical Center	E22	Hospital (General)
	St Georges Episcopal School		• , ,
72-1311329	Endowment Fund	T30	Public Foundations
	St Louis Area Soccer		
43-1763829	Boosters Inc	N64	Soccer Clubs/Leagues
	St Louis Psychoanalytic		Community Mental Health
43-0727700	Institute	F32	Center
01 601 1001		D.5.5	Senior Continuing Care
01-6014031	St Marks Home for Women	P75	Communities
			Senior Citizens'
14-1505956	St Simeon Foundation Inc	L22	Housing/Retirement Communities
63-0288864	St Vincents Birmingham	E22	Hospital (General)
23-7293730	St Vincents Hospital Auxiliary	E11	Single Organization Support
25-129313U	Stephen Breen Memorial	L11	Scholarships, Student
35-2238435	Foundation Inc	B82	Financial Aid, Awards
35 2230 133	Stepping Stones Childrens	202	I manetar rita, rivaras
74-2431066	Center Center	P33	Child Day Care
74-2431066	Center	P33	Child Day Care

			Public, Society Benefit -
	Stepping Stones of the		Multipurpose and Other
46-4740539	Roaring Fork Valley	W99	N.E.C.
	Strickler Road Housing		Senior Citizens'
4.6.4.000.4.40	Development Fund Company	T 00	Housing/Retirement
16-1099448	Inc	L22	Communities
20-2562193	Strive Preparatory Schools Surrey Services for Seniors	B29	Charter Schools
23-2610145	Inc	P81	Senior Centers/Services
			Counseling Support
11-2973028	Survivors of the Shield Inc	F60	Groups
	Tampa Bay Defense Alliance		Military/Veterans'
45-4380305	Inc	W30	Organizations
			Graduate,
	Teachers College Columbia		Professional(Separate
13-1624202	University	B50	Entities)
			Amateur Sports Clubs,
33-0328599	Team Redlands	N60	Leagues, N.E.C.
	Tennessee Hemophilia &		
	Bleeding Disorders		Fund Raising and/or Fund
62-1662856	Foundation	B12	Distribution
			Administration of Justice,
			Courts (Court
	_		Administration, Court
	Tennessee Recovery		Reform, Alternatives to
27-1015412	Foundation	I50	Litigation and Sentencing)
40.000.00==		700	Children's and Youth
48-0806277	Tfi Family Services Inc	P30	Services
21 1706064	The American Friends of	D27	G 1 /TT: 1 G 1 1
31-1706064	Winchester College	B25	Secondary/High School
			Philanthropy / Charity / Voluntarism Promotion
25-1306992	The American Ireland Fund	T50	(General)
			` /
45-2671486	The Artist Book Foundation	A40	Visual Arts Organizations
54-1960110	The Carmel School	B20	Elementary, Secondary Ed
59-1979509	The Child Care Center Inc	P33	Child Day Care
26 405550	The Childrens Heart	C 12	Heart and Circulatory
36-4077528	Foundation	G43	System
52-2218789	The Constitution Project	R60	Civil Liberties Advocacy
	The Enterprise Center		Community, Neighborhood
20.0002625	Community Development	G20	Development,
30-0002632	Corporation	S20	Improvement
45.0000055	The Evangelical Lutheran	E01	Nursing, Convalescent
45-0228055	Good Samaritan Society	E91	(Geriatric and Nursing)

	The Fred J Morganthall II		Insurance Providers/Services (other
58-1840748	Foundation	Y20	than Health) Animal Protection and Welfare (includes Humane
38-3773335	The Good Shephard The Healthpath Foundation	D20	Societies and SPCAs) Fund Raising and/or Fund
31-1645836	of Ohio	E12	Distribution Fund Raising Organizations That Cross Categories includes Community Funds/Trusts
22 2506494	The Leah & Edward Frankel	T70	and Federated Giving
22-3506484	Supporting Foundation Inc	T70	Programs) e.g. United Way Research Institutes and/or
20-4820957	The Lloyd Society Inc The Marsh A Breeding Ground for New	V05	Public Policy Analysis
94-3142152	Performance	A65	Theater Services to Promote the Independence of Specific
43-1830354	The Oasis Institute The Orchards at Southington	P80	Populations Senior Citizens' Housing/Retirement
06-1490803	Inc The Sustainable Workplace	L22	Communities
27-2302712	Alliance Inc The Umbc Research Park	M40	Safety Education Research Institutes and/or
52-1884800	Corporation Inc	B05	Public Policy Analysis Specialized Education Institutions/Schools for Visually or Hearing Impaired, Learning
25-1561504	The Watson Institute The Wings Club Foundation	B28	Disabled Scholarships, Student
13-3648312	Inc	B82	Financial Aid, Awards Arts, Cultural
	The World War II		Organizations -
27-4793304	Foundation Therapeutic Living Services	A20	Multipurpose
85-0264256	Inc	P73	Group Home (Long Term
25-0965579	Titusville Area Hospital Tomorrow River Scholarship	E22	Hospital (General) Scholarships, Student
39-1802123	Foundation Inc	B82	Financial Aid, Awards Hot Line, Crisis
47-2097494	Translifeline	F40	Intervention

			Arts, Cultural
			Organizations -
20-3100410	Traverse City Film Festival	A20	Multipurpose
			Environmental Quality,
			Protection, and
42-1419181	Trees Forever Inc	C99	Beautification N.E.C.
	Tremont Crotona Day Care		
13-2724087	Center	P33	Child Day Care
	Tri-County YMCA of the		YMCA, YWCA, YWHA,
43-1658589	Ozarks	P27	YMHA
			Arts, Cultural
			Organizations -
20-0802317	Trinity-On-Main Ltd	A20	Multipurpose
	Tropical Health Alliance		Alliance/Advocacy
20-3556410	Foundation	E01	Organizations
			Arts, Cultural
			Organizations -
16-1668183	True To Life Foundation	A20	Multipurpose
	Trustees of Boston		University or
04-2103547	University	B43	Technological
	Trustees of the Berkshire		Museum & Museum
04-2103878	Museum	A50	Activities
	Tualatin Valley Youth		
93-1321755	Football League Inc	N65	Football Clubs/Leagues
	Tuxedo Park Fire		Fire Prevention / Protection
13-3253630	Department	M24	/ Control
			Children's and Youth
36-2167937	Ucan	P30	Services
	Ufa Widows & Childrens		Scholarships, Student
13-3047544	Fund	B82	Financial Aid, Awards
			Historical Societies &
22-2373173	Ulysses Historical Society	A82	Historic Preservation
	United Church Residences of		
58-2169014	Immokalee Florida Inc	X20	Christian
	United Disabled Americans		Government and Public
47-0922758	Inc	W20	Administration
			Fund Raising
			Organizations That Cross
			Categories includes
			Community Funds/Trusts
	United Fund of Armstrong		and Federated Giving
25-1086801	County	T70	Programs) e.g. United Way
			Fund Raising
			Organizations That Cross
			Categories includes
38-1360585	United Jewish Foundation	T70	Community Funds/Trusts

			and Federated Giving
			Programs) e.g. United Way
	United States Bowling		Amateur Sports Clubs,
14-1978956	Congress Inc	N60	Leagues, N.E.C.
11 17/0750	United Way of Southeastern	1100	Human Service
06-0771393	Conn Inc	P20	Organizations
00 0771373	Com me	120	Scholarships, Student
52-1152624	University of DC Foundation University of North Carolina	B82	Financial Aid, Awards
	School of the Arts Program		Nonmonetary Support
56-2035485	Support Corp University of North Texas	A19	N.E.C.
75-2300507	Alumni Association Inc University of the Nations	B84	Alumni Associations Higher Education
99-0240539	Kona Inc	B40	Institutions Human Service
91-1415660	Unner Walley Mand	P20	
	Upper Valley Mend		Organizations
45-4128140	Upward Scholars Urban Community	B41	Community/Junior College
26-0589430	Outreachincorporated Vacaville Social Services	P85	Homeless Services/Centers Human Service
68-0364021	Corporation	P20	Organizations Community Health
26-2648461	Vail Health System	E21	Systems Health Treatment Facilities
22-3245434	Valley Medical Association Veterans Memorial Museum	E30	(Primarily Outpatient) Museum & Museum
20-4637094	Inc	A50	Activities
27-3345879	Village at Oasis Park - Phase II Inc	L24	Independent Housing for People with Disabilities
	Visitation and Advocacy Center for the 6Th Judicial	D 0 0	Civil Rights, Advocacy for
83-0322769	District	R20	Specific Groups Other Philanthropy,
	Voluntary Optometric		Voluntarism, and
20.21=2001	Services To Humanity-	T	Grantmaking Foundations
38-3172981	Michigan	T99	N.E.C.
26-3887973	Volunteers of America Inc	P26	Volunteers of America Animal Protection and
62-1471146	Waldens Puddle Inc	D20	Welfare (includes Humane Societies and SPCAs) County / Street / Civic /
74-2061931	Walker County Fair Association	N52	Multi-Arts Fairs and Festivals
, T-2001/J1	Washington DC Chapter of	1132	Military/Veterans'
52-1382145	the Rocks Inc	W30	Organizations
J_ 1JUL17J	THE TOURS THE	1130	Organizations

62-1441526	Wayne Jolley Ministries Inc	X20	 Christian
02 1111020	wayne veney winistres me	1120	Higher Education
43-0662529	Webster University	B40	Institutions
	Wee Wisdom Day Care		
39-1247092	Center	P33	Child Day Care
			Human Service
77-0722779	West Africa Foundation	P20	Organizations
	Western Howard County		
	Youth Basketball		Amateur Sports Clubs,
52-1839088	Association Inc	N60	Leagues, N.E.C.
			Other Art, Culture,
	W4 V::-:- F 1-4:		Humanities
£1 0229000	Western Virginia Foundation for the Arts and Sciences	A 00	Organizations/Services N.E.C.
51-0238900		A99	
22-2910478	Weston Soccer Club Inc	N64	Soccer Clubs/Leagues
			Senior Citizens'
57-0872448	Westover Apartments Inc	L22	Housing/Retirement Communities
37-08/2448	Westover Apartments me	LZZ	Community, Neighborhood
	Westown Association of		Development,
39-1600531	Milwaukee Inc	S20	Improvement
		-	Science and Technology
			Research Institutes,
65-0264660	Wild Dolphin Project Inc	U99	Services N.E.C.
	Wildlife Rehabilitation		Wildlife
26-4301793	Center of Northern Utah	D30	Preservation/Protection
93-0758252	Willamette Writers	A70	Humanities Organizations
			Animal Protection and
			Welfare (includes Humane
27-1133339	Wish Bone Canine Rescue	D20	Societies and SPCAs)
20.7600020	W. 100 1 P 1	D11	Single Organization
20-5698820	Wolf Creek Foundation	D11	Support
02 0402220	Womens Rural	D60	Adult, Continuing Education
02-0492339	Entrepreneurial Network	B60	Senior Citizens'
	Woodbridge Homes for		Housing/Retirement
31-1549509	Elderly Inc	L22	Communities
27-2807199	World Is Just A Book Away	B99	Education N.E.C.
	•		
45-3178623	World Leaders Group Inc World Professional	X20	Christian
	Association for Transgender		International Development,
94-2675140	Health Inc	Q30	Relief Services
) 1 20/31 IO	Wues Parent Teacher	~ 50	101101 501 11005
31-1715053	Organization Inc	B94	Parent Teacher Group
_	Xilin North Shore Chinese		1
30-0332045	School	P84	Ethnic/Immigrant Services

Xilin Northwest Chinese	R20	Elementary, Secondary Ed
Yamhill Community Action	D20	Elementary, Secondary Ed
Partnership	P85	Homeless Services/Centers
Yellowstone River Parks		Land Resources
Association Inc	C34	Conservation
Yeshiva Shaarei Oorah	X30	Jewish
		Specialized Education
		Institutions/Schools for
		Visually or Hearing
York W Williams Jr Child		Impaired, Learning
Development Center Inc	B28	Disabled
Young Entrepreneurs		Professional Societies &
Organization	B03	Associations
		Ambulance/Emergency
Youngsville Rescue & EMS	E62	Transport
Youth Choral Theater of		
Chicago	A6B	Singing Choral
Youth Unlimited Gospel		Religious Leadership,
Outreach	O55	Youth Development
Zoological Society of		_
Milwaukee County		
Endowment Tr	D50	Zoo, Zoological Society
	School Yamhill Community Action Partnership Yellowstone River Parks Association Inc Yeshiva Shaarei Oorah York W Williams Jr Child Development Center Inc Young Entrepreneurs Organization Youngsville Rescue & EMS Youth Choral Theater of Chicago Youth Unlimited Gospel Outreach Zoological Society of Milwaukee County	School Yamhill Community Action Partnership Pellowstone River Parks Association Inc Yeshiva Shaarei Oorah York W Williams Jr Child Development Center Inc Young Entrepreneurs Organization Youngsville Rescue & EMS Youth Choral Theater of Chicago Youth Unlimited Gospel Outreach Zoological Society of Milwaukee County

Appendix B: Linearity Assumption Testing

1. Logistic regression Box-Tidwell results for revenue growth rate

				0				
	В	SE	Wald	df	p	Odds	95% CI	for Odds
						Ratio	Ra	tio
							Lower	Upper
Revenue Growth Rate	005	.007	.503	1	.478	.995	.982	1.009
Natural Log Transformation of "revgrowth" by Revenue Growth Rate	.001	.001	.730	1	.393	1.001	.999	1.003
Constant	697	.152	20.972	1	.000	.498		

2. Logistic regression Box-Tidwell results for program expense ratio

			1 0	1				
	В	SE	Wald	df	p	Odds	95% CI	for Odds
						Ratio	Ra	tio
							Lower	Upper
Program Expense Ratio	070	.088	.628	1	.428	.932	.784	1.109
Natural Log Transformation of "progexp" by Program Expense Ratio	.012	.017	.507	1	.477	1.012	.979	1.047
Constant	.699	1.067	.430	1	.512	2.013		

3. Logistic regression Box-Tidwell results for fundraising expense ratio

_ 8 8				0	1			
	В	SE	Wald	df	p	Odds	95% CI	for Odds
						Ratio	Ra	tio
							Lower	Upper
Fundraising Expense Ratio	070	.066	1.105	1	.293	.933	.819	1.062
Natural Log Transformation of "fundexp" by Fundraising Expense Ratio	.014	.016	.829	1	.363	1.014	.984	1.046
Constant	343	.215	2.539	1	.111	.709		

	В	SE	Wald	df	p	Odds	95% CI	for Odds
						Ratio	Ra	itio
							Lower	Upper
Administrative Expense Ratio	.045	.041	1.183	1	.277	1.046	.965	1.133
Natural Log Transformation of "adminexp" by Administrative Expense Ratio	009	.009	1.082	1	.298	.991	.973	1.008
Constant	895	.230	15.140	1	.000	.409		
	В	SE	Wald	df	p	Odds Ratio		ıtio
							Lower	Upper
Cash Growth Rate	.005	.003	2.206	1	.137	1.005	.999	1.011
Natural Log Transformation of "cashgrowth" by Cash Growth	.000	.000	1.278	1	.258	1.000	.999	1.000
Rate								
Rate Constant	-1.008	.156	41.918	1	.000	.365		
Constant							95% CI	for Odds

	В	SE	Wald	df	p	Odds	95% CI for Odds		
						Ratio	Ra	itio	
							Lower	Upper	
Ratio of Cash to Total Assets	.051	.033	2.331	1	.127	1.052	.986	1.123	
Natural Log Transformation of "cashtoassets" by Ratio of Cash to Total Assets	010	.007	2.191	1	.139	.990	.976	1.003	
Constant	-1.017	.219	21.679	1	.000	.362			

Appendix C: Multicollinearity Assumption Testing

1. Results before corrections.

Coefficientsa

		Unstandardized Coefficients		Standardized Coefficients			95.0% Confide	nce Interval for B	Collinearity Statistics	
Model		В	Std. Error	Beta	t	Sig.	Lower Bound	Upper Bound	Tolerance	VIF
1	(Constant)	.656	.138		4.754	.000	.385	.927		
	Revenue Growth Rate	4.662E-5	.000	.063	1.601	.110	.000	.000	.985	1.016
	Program Expense Ratio	003	.001	151	-2.210	.027	006	.000	.326	3.069
	Fundraising Expense Ratio	004	.003	077	-1.675	.094	009	.001	.729	1.372
	Administrative Expense Ratio	003	.002	123	-1.882	.060	006	.000	.357	2.802
	Cash Growth Rate	3.947E-5	.000	.064	1.495	.135	.000	.000	.830	1.205
	Ratio of Cash to Total Assets	.000	.000	044	-1.113	.266	001	.000	.989	1.011
	Ratio of Top Compensation to Total Expenses	002	.003	049	814	.416	008	.003	.430	2.326
	Ratio of Disqualified Compensation to Total Compensation	.003	.001	.081	2.071	.039	.000	.006	.991	1.010
	Ratio of Top Compensation to Total Compensation	.001	.001	.063	1.054	.292	001	.003	.429	2.328
	Asset Growth Rate	2.605E-5	.000	.049	1.142	.254	.000	.000	.821	1.218

a. Dependent Variable: Significant diversion of assets report (Y/N)

2. Results after corrections.

Coefficientsa

		Unstandardize	d Coefficients	Standardized Coefficients			95.0% Confide	nce Interval for B	Collinearity	Statistics
Model		В	Std. Error	Beta	t	Sig.	Lower Bound	Upper Bound	Tolerance	VIF
1	(Constant)	.403	.069		5.832	.000	.267	.538		
	Revenue Growth Rate	4.686E-5	.000	.063	1.607	.109	.000	.000	.985	1.016
	Program Expense Ratio	001	.001	032	824	.410	002	.001	.987	1.013
	Cash Growth Rate	3.859E-5	.000	.063	1.460	.145	.000	.000	.831	1.203
	Ratio of Cash to Total Assets	.000	.000	046	-1.160	.247	001	.000	.990	1.010
	Ratio of Disqualified Compensation to Total Compensation	.003	.001	.085	2.171	.030	.000	.006	.993	1.007
	Ratio of Top Compensation to Total Compensation	.000	.001	.021	.532	.595	001	.002	.988	1.012
	Asset Growth Rate	2.409E-5	.000	.046	1.055	.292	.000	.000	.823	1.214

a. Dependent Variable: Significant diversion of assets report (Y/N)

Appendix D: Outlier Assumption Testing

Casewise List^b

			Casewise	List			
		Observed	_		Temporary Variable		
		Significant					
		diversion of					
	Selected	assets report		Predicted			
Case	Status ^a	(Y/N)	Predicted	Group	Resid	ZResid	SResid
142	S	N**	.786	F	786	-1.919	-2.395

a. S = Selected, U = Unselected cases, and ** = Misclassified cases.

b. Cases with studentized residuals greater than 2.000 are listed.

Appendix E: Logistic Regression Results

Case Processing Summary

Unweighted Cases ^a		N	Percent
Selected Cases	Included in Analysis	643	100.0
	Missing Cases	0	.0
	Total	643	100.0
Unselected Cases		0	.0
Total		643	100.0

a. If weight is in effect, see classification table for the total number of cases.

Dependent Variable Encoding

Original Value	Internal Value
No Fraud	0
Fraud	1

Block 0: Beginning Block

Classification Table^{a,b}

Predicted

			Significant dive		
			report (report (Y/N)	
	Observed		No Fraud	Fraud	Correct
Step 0	Significant diversion of	No Fraud	415	0	100.0
	assets report (Y/N)	Fraud	228	0	.0
	Overall Percentage				64.5
- C	ent is included in the model				

a. Constant is included in the model.

Variables in the Equation

		В	S.E.	Wald	df	Sig.	Exp(B)
Step 0	Constant	599	.082	52.787	1	.000	.549

b. The cut value is .500

Variables not in the Equation

			Score	df	Sig.
Step 0	Variables	Cash Growth Rate	11.763	1	.001
		Revenue Growth Rate	3.293	1	.070
		Program Expense Ratio	1.037	1	.309
		Ratio of Cash to Total Assets	1.569	1	.210
		Ratio of Disqualified	4.533	1	.033
		Compensation to Total			
		Compensation			
		Ratio of Top Compensation to	.192	1	.661
		Total Expenses			
		Asset Growth Rate	3.977	1	.046
	Overall Stat	istics	21.004	7	.004

Block 1: Method = Enter

Omnibus Tests of Model Coefficients

		Chi-square	df	Sig.
Step 1	Step	24.059	7	.001
	Block	24.059	7	.001
	Model	24.059	7	.001

Model Summary

Step	-2 Log likelihood	Cox & Snell R Square	Nagelkerke R Square
1	812.151 ^a	.037	.050

a. Estimation terminated at iteration number 3 because parameter estimates changed by less than .001.

Hosmer and Lemeshow Test

Step	Chi-square	df	Sig.
1	7.158	8	.520

Contingency Table for Hosmer and Lemeshow Test

		Significant div	Significant diversion of assets		ersion of assets	
		report (Y/N)) = No Fraud	report (Y/I	N) = Fraud	
		Observed	Expected	Observed	Expected	Total
Step 1	1	44	45.424	20	18.576	64
	2	41	44.357	23	19.643	64
	3	40	43.647	24	20.353	64
	4	48	43.104	16	20.896	64
	5	39	42.629	25	21.371	64
	6	46	42.290	18	21.710	64
	7	45	41.953	19	22.047	64
	8	43	41.354	21	22.646	64
	9	42	40.209	22	23.791	64
	10	27	30.121	40	36.879	67

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			Predicted		
			Significant diversion of assets		
			report	Percentage	
	Observed		No Fraud	Fraud	Correct
Step 1	Significant diversion of	No Fraud	406	9	97.8
	assets report (Y/N)	Fraud	205	23	10.1
	Overall Percentage				66.7

a. The cut value is .500

Variables in the Equation

								95% (C.I.for
								EXP(B)	
		В	S.E.	Wald	df	Sig.	Evn(D)	Lower	Upper
							Exp(B)		
Step	Cash Growth Rate	.001	.000	5.191	1	.023	1.001	1.000	1.001
1 ^a	Revenue Growth	.000	.000	.676	1	.411	1.000	.999	1.001
	Rate								
	Program Expense	003	.004	.589	1	.443	.997	.990	1.004
	Ratio								
	Ratio of Cash to	002	.002	1.435	1	.231	.998	.994	1.001
	Total Assets								
	Ratio of	.013	.006	4.484	1	.034	1.013	1.001	1.026
	Disqualified								
	Compensation to								
	Total								
	Compensation								
	Ratio of Top	002	.008	.080	1	.777	.998	.982	1.014
	Compensation to								
	Total Expenses								
	Asset Growth Rate	.000	.000	.031	1	.860	1.000	.999	1.001
	Constant	396	.307	1.670	1	.196	.673		

a. Variable(s) entered on step 1: Cash Growth Rate, Revenue Growth Rate, Program Expense Ratio, Ratio of Cash to Total Assets, Ratio of Disqualified Compensation to Total Compensation, Ratio of Top Compensation to Total Expenses, Asset Growth Rate.

Appendix F: Descriptive Statistics

Variable	Status	N	Mean	Standard Deviation	Variance	Kurtosis	Skewness	Minimum	Maximum	Confidence Level (95%)
revgrowth	No Fraud	416	0.182	1.056	1.116	58.254	4.458	-7.901	11.854	0.102
	Fraud	228	1.151	10.777	116.148	192.038	13.453	-1.025	156.362	1.406
progexp	No Fraud	416	0.807	0.226	0.051	5.579	-2.339	0.000	1.000	0.022
	Fraud	228	0.787	0.248	0.062	3.064	-1.870	0.000	1.000	0.032
fundexp	No Fraud	416	0.031	0.092	0.008	60.613	6.873	0.000	1.000	0.009
	Fraud	228	0.026	0.076	0.006	56.631	6.548	0.000	0.817	0.010
adminexp	No Fraud	416	0.153	0.198	0.039	9.618	2.960	0.000	1.000	0.019
	Fraud	228	0.152	0.185	0.034	5.907	2.269	0.000	1.000	0.024
cashgrowth	No Fraud	416	0.632	6.480	41.993	365.656	18.622	-2.278	128.311	0.625
	Fraud	228	2.004	9.662	93.361	46.455	6.467	-1.666	84.133	1.261
assetgrowth	No Fraud	416	0.056	0.380	0.145	35.913	3.718	-1.250	4.114	0.037
	Fraud	228	1.543	15.172	230.198	150.126	11.912	-1.000	204.402	1.980
cashassets	No Fraud	416	0.379	0.363	0.132	-1.074	0.600	-0.423	1.000	0.035
	Fraud	228	0.329	0.668	0.446	118.668	-9.196	-8.222	1.000	0.087
topcompexp	No Fraud	416	0.056	0.109	0.012	20.140	3.743	0.000	1.000	0.010
	Fraud	228	0.052	0.099	0.010	6.477	2.516	0.000	0.523	0.013
topcomptotal										
comp	No Fraud	416	0.162	0.281	0.079	2.751	1.954	0.000	1.000	0.027
	Fraud	228	0.167	0.300	0.090	2.716	1.985	0.000	1.000	0.039
disqualified	No Fraud	416	0.013	0.107	0.011	74.205	8.616	0.000	1.000	0.010
	Fraud	228	0.036	0.170	0.029	22.403	4.828	0.000	1.000	0.022