RISK MANAGEMENT AND FINANCIAL PERFORMANCE OF DEPOSIT TAKING SAVINGS AND CREDIT CO-OPERATIVE SOCIETIES IN UASIN GISHU COUNTY, KENYA

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A RESEARCH PROJECT SUBMITTED TO THE SCHOOL OF BUSINESS IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF MASTER OF BUSINESS ADMINISTRATION (FINANCE OPTION) OF KENYATTA UNIVERSITY

SEPTEMBER 2017
DECLARATION

This Research project is my original work and has not been presented for the award of a degree in any University.

Signed: ___________________________ Date: ________________________

JACOB AYIEKE ORAO
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This Research project has been submitted for examination with my approval as University supervisor.

Signed: ___________________________ Date: ________________________

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Kenyatta University
DEDICATION

I dedicate research to the Almighty God for this far he has taken me towards the achievement of this goal. To my parents, brothers, sisters and my wife for the sacrifice they made for my education to become what I am today.
ACKNOWLEDGEMENT

First, I thank the Almighty God for his sufficient grace and power working in me both to will and to do. Sincerely it his love and care that saw me through this research project and the MBA programme.

Second, I give special thanks to my Lecturer, Dominic Ngaba., for providing unlimited, invaluable and proactive guidance throughout this study. His prowess and command of knowledge of the subject matter enabled me to shape this research proposal to this final product.

Last but not least I thank all my siblings and parents not forgetting my friends who gave me moral support and encouragement, to mention that they missed my presence while I put all my effort on the MBA programme.

Besides, I would like to thank the SACCOs in Uasin Gishu County for providing me with a good environment and facilities to complete this proposal.

To all I say a big Thank You!
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OPERATIONAL DEFINITION OF TERMS

Cooperative societies: An association of persons in a SACCO who have come together to achieve a similar economic or social goal.

SACCOs: These are member owned financial cooperatives whose primary objective is to mobilize savings and afford members access to loans on competitive terms as a way of enhancing their socio-economic wellbeing.

Deposit Taking Saccos: This is composed of those Sacco Societies which undertake both withdrawable and non-withdrawable deposits. Whereas the non-withdrawable deposits portion of the business may be used as collateral and are not refundable unless on withdrawal from membership, the withdrawable deposits portion of the business can be accessed by the members at any time.

Liquidity Risk: It is the inability of an organization like SACCOs to fund increases in assets and meet obligations as they come due, without incurring unacceptable losses.

Liquidity risk management: It is the activity of the SACCOs for managing liquidity risk and optimize the available liquidity.

Credit risk: The potential that a SACCO borrower or counterparty will fail to meet its obligations in accordance to the agreed terms.

Credit risk management: It is the practice of mitigating those loses by understanding the adequacy of both SACCOs capital and loan loss reserves at any given time. The goal of credit risk management is to maximize a Sacco’s risk-adjusted rate of returns by
maintaining credit risk exposure within acceptable parameters

**Corporate Governance:** Refers to the manner in which the power of a corporation is exercised in the stewardship of the corporation’s total portfolio of assets and resources with the objective of maintaining and increasing shareholder value and satisfaction of other stakeholders in the context of its corporate mission.

**Compliance** It means conforming to a rule, such as a specification, standard or law.

**Compliance Risk** It is the risk of not conforming to a rule, such as a specification, standard or law.

**Financial Performance:** It is the ability to leverage operational and investment decisions and strategies to achieve a business’ financial stability.

**Risk Management:** It is the process identifying, assessing, prioritizing risks and developing strategies which if implemented would mitigate the impact of the risks
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>ACCOSCA</td>
<td>African Confederation of Cooperative Savings and Credit Associations</td>
</tr>
<tr>
<td>DTS</td>
<td>Deposit Taking Saccos</td>
</tr>
<tr>
<td>FOSA</td>
<td>Front Office Services Activity</td>
</tr>
<tr>
<td>MTP</td>
<td>Modern Portfolio Theory</td>
</tr>
<tr>
<td>NDTS</td>
<td>Non Deposit Taking Saccos</td>
</tr>
<tr>
<td>PEARLS</td>
<td>Protection, Effective Financial Structure, Asset Quality, Rates</td>
</tr>
<tr>
<td>RMP</td>
<td>Risk Management Program</td>
</tr>
<tr>
<td>SACCOs</td>
<td>Savings and Credit Cooperatives Organizations</td>
</tr>
<tr>
<td>SASRA</td>
<td>Sacco Societies Regulatory Authority</td>
</tr>
<tr>
<td>WOCCU</td>
<td>World Council of Credit Unions</td>
</tr>
</tbody>
</table>
ABSTRACT

Risk management framework is important for the financial stability of Deposit Taking Saccos (DTS) and other money lending institutions in Kenya. Effective risk management can decrease the probability of default and ensure financial stability in the Savings and Credit Cooperative Societies. The aggregate ratio of non-performing loans to gross loans of Deposit Taking SACCOS has increased in successive years since 2013 while there level of compliance with capital adequacy ratios as well as the Sacco societies Act, 2008 and SASRA regulations and guideline has remained low. Furthermore, most DTSs are still not able to meet their short term obligations to its members especially loan disbursement. The general objective of the study was to analyze the effect risk management practices on the financial performance of Deposit Taking SACCOS in Uasin Gishu County, Kenya. Descriptive research design was used in this study. Primary data was collected using structured questionnaire having both closed and open ended questions from employees in 7 Deposit Taking SACCOS in Uasin Gishu County. Stratified simple random sampling were used to select 35 employees from the 12 SACCOS. Secondary data was collected from journals, books, published and published research project, SASRA published audited annual reports government reports and website through internet search and in the university library. Data collected was collated, edited, and processed using SPSS version 20 and excel spreadsheet. Descriptive statistics, correlation analysis and multiple regressions were used in the data analysis. The findings of the study revealed a significant and positive relationship between predictor variables (credit management practices, liquidity risk management practices and compliance risk management practices) and financial performance. The three predictor variables had a positive coefficient indicating an increased use of credit risk management practices, liquidity risk management practice and compliance risk management practices would result into increased profitability. Credit risk management practice had greater effect on profitability given the larger coefficient of 0.772 compared to 0.468 for liquidity risk management practices and 0.214 for compliance risk management practices. The study concludes that consistent and effective management of risks in the SACCOS would improve their financial performance hence the need to select and use appropriate risk management practices while ensuring continuous review and control. The study recommends that SACCOS should ensure cost effective and timely risk identification, measurement, prioritization and mitigation measures to ensure increased financial performance. In addition the management of licensed Deposit Taking SACCOS should strategically and continuously adopt effective and efficient credit risk management practices to minimize cases of loan default so as to enhance profitability and financial performance. Besides SACCOS should aggressively mobilize members’ shares and ensure retention of earnings so as to grow their capital reserves to boost capital adequacy and meet the capital reserve requirement by SASRA. This would ensure that SACCOS have sufficient funds to meet credit obligations to clients and run the day to day operational costs. Furthermore SACCOS should strive to ensure full compliance with SACCOS Society Act 2008, SASRA regulations on capital adequacy, asset quality, earning rating, liquidity rating, risk management, board composition and quality.
CHAPTER ONE

INTRODUCTION

1.1 Background of the Study

The Deposit-taking Sacco Societies (DTSs) is part of the larger Sacco sub-sector in Kenya which comprises the deposit-taking and the non-deposit taking Sacco Societies. Financial performance is one of the key objectives for all organizations including SACCOs. It is measured by use of many ratios and models like the return on investment, profit margin, efficiency ratios, and liquidity ratios. All organizations strive to utilize their resources effectively so as to achieve higher financial performance (Fujo and Ali, 2016). The value of a company or organization is always positively reflected by profitability and negatively by the risks that arise during the development of the economic and financial activity (Loredana, 2012).

The Sacco Societies Act (Cap 490B) and the Regulations provide for the key prudential norms and requirements which DTS are required to fully comply with in order to maintain financial stability. The key requirements which include core capital and capital adequacy ratios, asset quality, non-earning assets, liquidity requirements, limits on external borrowing, equity investments and generation of earnings. These are supplemented by regulatory guidelines issued by the Sacco societies regulatory authority from time to time, together with financial best practices.

For instance, the Sacco Societies Act (2008) requires DTSs to hold and maintain minimum liquidity, develop and implement contingency liquidity plans so as to effectively serve the members. This has led to situations where the DTSs borrow expensively from commercial banks to bridge temporary illiquidity and this has evidently threatened financial stability of the DTSs, and hence safety of member deposits. The regulatory framework also requires
DTSs to maintain minimum core capital of Kshs 10 million, together with the following capital adequacy ratios: core capital to total assets, core capital to deposit liabilities and institutional capital to total assets at the ratios of 10 percent, 8 percent and 8 percent respectively (Sacco Society Act, 2008). According to Sacco’s supervision annual report (2016) full compliance for capital adequacy for individual DTS has remained a challenge, with institutional capital to total assets ratio being the most non-complied with.

While there have been several reform initiatives in saving credit cooperative societies subsector in the past in Kenya like the introduction of SACCOs specific regulation and guidelines in recognition of the unique financial intermediation function that SACCOs play in an economy, SACCOs in Kenya are still exposed to risks which threaten their operations leading to adoption of risk management technique to mitigate and improve performance (SASRA, 2013)

1.1.1 Risk management

Risk-taking is an inherent and unavoidable aspect of financial service provision against which reward in the form of profits is sought (Musimbi, 2015). Risk is the probability or threat of damage, injury, liability, loss, or any other negative occurrence that is caused by external or internal vulnerabilities, and that may be avoided through preemptive action. Risk management is simply a practice of systematically selecting cost effective approaches for minimizing the effect of threat realization to the organization. All risks can be never fully avoided or mitigated simply because of financial and practical limitations (Moteff, 2005). Crouhy, Galai and Mark (2006) categorized risk into market risk, credit risk, liquidity risk, operational risk, legal risk, business risk, strategic risk and reputation risk. Similarly, SASRA (2015) classified risk into strategic risk, credit risk, operational risk, liquidity risk, interest rate risk and compliance risk. This study adopted SASRA
classification and considered three major risks which include credit risk, liquidity risk and compliance because it is the regulatory authority of deposit taking Saccos.

The strategies to manage risk include transferring the risk to another party, avoiding the risk, reducing the negative effect of the risk, and accepting some or all of the consequences of a particular risk (Hubbard, 2009). Risk management practices are aim at controlling opportunities and hazards that may result in risk and therefore financial institutions must have strong and rational framework for decision making by which firm’s objectives can be attained as a way of effectively managing risks (Frank, Simon and Josephine, 2014). Because of the nature of business of SACCOs and banks, several risk factors like credit, liquidity, operational and market risks are highly probable hence putting in place effective risk would ensure that they remain intact amid the intense competition in the financial industry (Ross, Westerfield and Jordan, 2008).

According to ACCOSCA (2014) risk management in SACCOs involves ensuring that members’ savings are effectively safeguarded while at the same time allowing the business growth and effective financial performance. It entails proper identification and assessment of risks to avoid any surprises in running the SACCO while ensuring clear ownership and accountability of risks amongst staff. It also entails effective and efficient allocation of resources to manage the risks, compliance with legal and regulatory requirements as well as best practices and ensuring that risk considerations are engrained in business decision making. Collier, Berry and Burke (2004) established that risk management in an organization influence the organization performance. Therefore efficient risk management is highly relevant in providing better returns to the shareholders (Akkizidis and Khandelwal, 2008). This is because it minimizes the complexities involved in planning,
executing, controlling and the overall running of a business which are critical to success by maximizing profitability which is one of the key indicators of financial performance.

1.1.2 Financial performance of Deposit-taking SACCOs

In Kenya, cooperative societies create an important part of the economy. The Vision 2030 of Kenya recognizes SACCOs as a prime mover in financial resource mobilization to create a vibrant and globally competitive financial sector in Kenya. They are estimated to provide livelihood to 63% of Kenyans both directly and indirectly (SASRA, 2013). The traditional Savings and Credit Cooperative Societies (SACCOs), described in law as Non-Deposit Taking SACCOs (NDTS) provide a limited range of savings and credit products, are registered and supervised under the Cooperative Services Act, CAP 490 by the commissioner of co-operatives.

The Deposit taking Sacco Societies (DTSs) are licensed and supervised under the Sacco Societies Act of, 2008 and is part of the larger Sacco sub-sector in Kenya which comprises the deposit- taking and the non-deposit taking Sacco Societies (Sacco supervision annual report, 2016). Besides the normal savings, deposit taking Sacco’s also provide basic banking services which include payment services, demand services and ATM services. The also provide Front Office Services Activity (FOSA). The Sacco Societies Act (2008) and SASRA regulation provide the minimum operational regulations and prudential standards required of deposit-taking Sacco Societies to ensure financial stability of the Sacco subsector. Financial performance is the measure of the results of the firm’s policies and operations within a specified time period in monetary terms. The results are expressed in form of profit or losses. Operating and financial ratios have long been used as tools for determining the condition and the performance of a firm (Ogilo, 2012).
Financial performance of SACCOs can be viewed in light of their overall profitability and return on investment. Deposit taking Sacco’s recorded growth in financial performance in 2015 as shown in Table 1. The total asset base was Kshs 393.49 Billion, as compared to Kshs 342.84 Billion recorded in 2015 and Kshs 301.5 Billion in 2014. This represented a growth of 14.8% in 2016 and 13.7% in 2015. The total assets grew by 13.7 percent to Kshs 352.8 Billion from. This was supported by growth in deposits, capital reserves and loans and advances portfolio in both the years. The aggregate core capital also registered relative growth compared in 2016 as compared to 2015 and in 2015 as compared to 2014. There was reduction in the number of DTS from 184 in 2014 to 177 in 2015 and further reduction to 176 in 2016 (Saccos annual Supervision reports, 2015 and 2016).

**Table 1.1: Trends in Aggregate DTSs Performance in Kenya in 2014-2016**

<table>
<thead>
<tr>
<th>Parameter Measurements</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of DT-SACCOs</td>
<td>184</td>
<td>177</td>
<td>176</td>
</tr>
<tr>
<td>Membership</td>
<td>3,008,497</td>
<td>3,145,565</td>
<td>3,632,597</td>
</tr>
<tr>
<td><strong>FINANCIALS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Assets</td>
<td>301,537</td>
<td>342,848</td>
<td>393,499</td>
</tr>
<tr>
<td>Deposits</td>
<td>205,974</td>
<td>237,440</td>
<td>273,579</td>
</tr>
<tr>
<td>Gross loan</td>
<td>228,524</td>
<td>258,183</td>
<td>297,604</td>
</tr>
<tr>
<td>Allowance for loan loss</td>
<td>9,213</td>
<td>7,103</td>
<td>8,683</td>
</tr>
<tr>
<td>Loans and advances</td>
<td>219,312</td>
<td>251,080</td>
<td>288,291</td>
</tr>
<tr>
<td>Capital Reserves</td>
<td>43,086</td>
<td>50,835</td>
<td>61,261</td>
</tr>
<tr>
<td>Core Capital</td>
<td>33,252</td>
<td>41,712</td>
<td>54,943</td>
</tr>
</tbody>
</table>

*Source: Sacco Supervision Annual Reports (2015 and 2016)*
According to Saccos annual supervision report (2016), the financial performance of individual Saccos was varied given the level of compliance with the prescribed capital adequacy ratios like core capital of 10 million, core capital to total assets ratio of 10%, core capital to total deposit ratio of 8% and prescribed institutional capital to total assets ratio of 8%. Notably, only 69 DTSs complied with the prescribed institutional capital to total assets ratio of 8%. The report also indicated out that the loans which was the key asset for DTSs was at risk given the increase in the ratio of non-performing loans to gross loans to 5.23% from 5.12% in 2015 driven by the increase on the non-performing loans from Kshs 13.21 billion in 2015 to Kshs 15.57 billion in 2016. The aggregate liquidity decreased from 55.90% registered in 2015 to 49.95% in 2016. The report pointed out that despite the impressive liquidity measurement being registered in successive years over and above the prescribed minimum, many DTSs were unable to meet their short term obligations to their members, particularly the disbursement of loans.

A study by Chavez (2006) based PEARL rating found that the financial performance of the SACCO sector is extremely weak and translating to weakness in other areas, especially governance, fiscal discipline, financial, operational, internal controls, and the risk management involved in running a financial institution. Mvula (2013) in a report on common issues affecting performance of DTSs, pointed out that the issues affecting performance of SACCOs included inadequate capital, poor asset quality, poor governance, poor profitability, poor liquidity and non-compliance. Similarly, Makori, Munene and Muturi (2013) indicated that SACCOs in Gusii faced various compliance challenges including non-separation of shares from deposits, high dependence on short-term external borrowing, lack of liquidity monitoring system, high investment in non-earning assets, inadequate managerial competencies and poor financial management. Ochieng and Ronga
(2016) established that 80% of the Saccos had not fully complied with the Societies Act of 2008.

SASRA guideline (2015) on risk management practices for deposit taking Sacco societies, requires each DTS to develop its own comprehensive Risk Management Program (RMP) tailored to its operational circumstances and needs. The guideline further state that the RMP should include at a minimum strategic risk, credit risk, operational risk, liquidity risk, market risk and compliance risk. While the above research outcome provide insight to challenges faced by SACCOs, risk management practice and the aggregate financial performance of DTSs in Kenya, there is no such specific information for Deposit Taking Saccos in Uasin Gishu County.

1.2 Statement of the Problem

SACCOs are important economic players as they serve millions of members; the industry is part of the cooperative sector that has positively impacted on the lives of many Kenyans over the years. SACCOs mobilize both domestic and international financial resources. Their survival is therefore of great significance. SACCOs however face a number of challenges that affects their performance (Chavez, 2006; Mvula, 2013; Ngugi, 2015). Others studies indicate that SACCOs are also face with various compliance challenges (Makori et al., 2013; Ochieng and Ronga, 2016. The Sacco Societies Act, 2008 and the SASRA regulations provide the key prudential norms and requirements which DTS are required to fully comply with in order to maintain financial stability while according SASRA guideline on risk management (2015) SACCOs are required to develop a comprehensive risk management program to mitigate market risk, liquidity risk, strategic risk, operational risk, credit risk and compliance risk.
Despite of the Act, SASRA regulations and guidelines, SACCOs especially Deposit Taking Saccos (DTSs) still face numerous risk because of the prevailing economic conditions that affects their operations and exposes them to the risk. The Saccos supervision annual report (2016) show an increase in the aggregate ratio of non-performing loans to gross loans as well as low level of compliance with the capital adequacy ratios especially with the prescribed institutional capital to total assets ratio of 8%. And further that many DTSs were still unable to meet their short term obligations to their members, particularly the disbursement of loans. Previous studies have been on the effect specific risks have on financial performance of SACCOs in Kenya (Mwangi, 2014; Omino, 2014; Ndungu, 2013; Otieno, 2013; Essendi, 2013). No study such study has been done on deposit taking Saccos in Uasin Gishu County. The question therefore is what are the crucial risk management practices and how do they effect on financial performance of DTSs in Uasin Gishu.

1.3 General Objective of the Study

The general objective of the study was to analyze the effect of risk management on financial performance of deposit taking SACCOs in Uasin Gishu County, Kenya.

1.3.1 Specific Objectives of the Study

i. To determine the effect of credit risk management on financial performance of SACCOs in Uasin Gishu County

ii. To investigate the effects of the liquidity risk management on financial performance SACCOs in Uasin Gishu County

iii. To examine the effects of compliance risk management and financial performance of SACCOs in Uasin Gishu County

1.3.2 Research Questions

This study sought to answer following research questions:
i. What are the effects of credit risk management on financial performance SACCOs in Uasin Gishu County?

ii. What are effects of liquidity risk management on financial performance SACCOs in Uasin Gishu County?

iii. What are the effects of compliance risk management and financial performance SACCOs in Uasin Gishu County?

1.4 Significance of the Study

The study generated useful knowledge and information for researchers, development practitioners, academicians, policy makers, planners and Sacco’s management in designing business strategies, policies and procedures. This is expected help the SACCOs to pursue their missions and preserves their business interests and shareholders’ value and thereby ensure improved financial performance by mitigating the various risks in the SACCOs in Kenya.

1.5 Scope of the Study

The scope of this study was on all SASRA licensed Deposit Taking Saccos in Uasin Gishu County, Kenya. This study focused on risk management and financial performance of cooperative societies in Uasin Gishu County.

1.6 Limitation of the study

The Researcher experienced some difficulty in convincing the respondents to spare some time to fill the questionnaires because of their busy schedules. To address this limitation respondents were given adequate time as per their request to fill the questionnaire. Collection of the questionnaires was also a problem since the SACCOS were in different locations of the Uasin Gishu County and the target respondents were not always in the
office. To address this limitation respondents some respondents were requested to scan and send the filled questionnaires through the email at the researchers cost.

1.7 Organization of the Study

This research project is organized into five chapters: the introduction is covered in chapter one, literature reviewed in chapter two; research methodology is described in chapter three, research findings presented in chapter four and summary, conclusion and recommendations given in chapter five. References were also given in APA format while the appendices included letter of transmittal, the data collection instruments, research permit and list of licensed Deposit Taking Saccos in Uasin Gishu County.
CHAPTER TWO
LITERATURE REVIEW

2.1 Introduction

The chapter presents theoretical review explaining the theories applied in this study. It covers empirical review on credit risk management and financial performance, liquidity risk management and financial performance and corporate governance and financial performance. The chapter also discusses conceptual framework and presents a summary of literature and research gaps.

2.2 Theoretical Review

2.2.1 Modern Portfolio Theory

Modern Portfolio Theory (MTP) was developed by Harry Markowitz in 1950. He suggested that a firm can limit the volatility its portfolio while improving its performance by spreading the risk among different types of securities. MTP is a theory of finance that attempts to maximize portfolio expected return for a given amount of portfolio risk, or equivalently minimize risk for a given level of expected return, by carefully choosing the proportions of various assets. One principle of investing states that the higher the risk, the higher the potential return and conversely, the lower the risk, the lower the return.

According to Modern Portfolio Theory, a portfolio which is a combination of individual investments exhibits risk and return characteristics based on its composition and the way those components correlate with each other. For each level of risk, there is an "optimal" asset allocation that is designed to produce the best balance of risk versus return. An optimal portfolio will attempt to balance the lowest risk for a given level of return and the greatest return for an acceptable level of risk. The full spectrum of investments must be considered
because the returns from all these investments interact hence the relationship between the returns for assets in the portfolio is important (Reilly & Brown, 2011).

The application of portfolio theory to credit risk management requires that financial institutions manage the credit risk inherent in the entire loan portfolio as well as the risk in individual credits or transactions. To manage their portfolios, bankers must understand not only the risk posed by each credit but also how the risks of individual loans are interrelated.

2.2.2 Liquidity Preference theory

The theory was advanced by John Maynard Keynes in 1936 in his book the “general theory of employment interest and money”. According to Keynes, interest is purely a monetary phenomenon because the rate of interest is calculated in terms of money. He also indicated that interest is the price paid to people for surrendering their liquid assets. Hence, the greater the liquidity preference the higher shall be the rate of interest. Since liquidity preference constitutes the demand for money, the higher a person’s liquidity preference, the less likely the person is to invest long term since cash does not earn an income (Varun, 2011).

The theory asserts that people prefer cash over other assets for three specific reasons namely for transaction, precautionary and speculative motives (Belke and Polleit, 2010). The transaction motive is premised on the fact that firms hold some cash with them to facilitate the day to day operations depending on the earnings and specific requirements. Secondly, the precautionary motive for holding money refers to the desire to hold cash to meet the unforeseen emergencies and contingencies. Equally, businessmen keep cash in reserve to overcome unfavorable conditions or to gain from unexpected deals.

Keynes holds that the transaction and speculative motives are relatively inelastic but are highly income elastic (Kumar, 2015). Furthermore, the speculative demand relates to the
desire for firms to hold cash to take advantage of the changes in the prices of bonds and securities. Keynes notes that the lower the rate of interest, the higher the speculative demand for money while the higher the rate of interest, the lower the speculative demand for money (Tushar, 2016).

In the context of this study, the theory is applicable to understand how DTSs manage their liquidity so as to avoid the risks by meeting all the short term obligations and ensure financial performance. DTSs need cash money to for the day to day operations including over the counter withdrawals and disbursement of loans, they need cash to manage the unforeseen occurrences as well as cash to invest in long term assets.

2.2.3 Agency theory

Agency theory has its origin in economic theory. The theory was fully developed by Jensen and Mackling in 1976. It states that agent is likely to pursue interests that are not favorable to the principal or shareholders in the presence of information asymmetry. Agency theory focuses on the relationship and goal incongruence between managers and shareholders. Agency relationships occur when one partner in a transaction (the principal) delegates authority to another (the agent) and the welfare of the principal is affected by the choices of the agent (Fama, 1980). Padilla (2002) opined that in agency theory, the principal expect the agents to act and make decisions in his interest.

In several occasions, agent may not necessarily make decisions in the best interest of the principals. This is because the agent may succumb to self-interest, opportunistic behavior and violate the contract between the interests of the principals and the agents (Odhiambo 2012). As such there is bound to be a conflicts between the agent and the principal. The theory therefore prescribes that people or employees are held accountable in their tasks and responsibilities. Employees must constitute a good governance structure rather than just
providing the need of shareholders, which maybe challenging the governance structure. Agency theory provides strong support for risk management as a response to mismatch between managerial incentives and shareholder interests. The agency theory emphasizes the need for risk management to align the interests of managers and shareholders and to contribute to the financial performance of the firm.

In this context the theory explains the relationship between the members of the SACCO who are the agents and the managers, employees and board of directors who run the SACCO on their behalf so that measure are put in place to minimize any eminent risk.

2.2.4 Stewardship Theory

Stewardship theory suggests that stewards will behave in a pro-social manner, a behavior which is aimed at the interest of the principal (Zahra et al, 2009). According to Odhiambo (2012) a steward protects and maximizes shareholders wealth through firm performance, by so doing, the steward’s utility functions are maximized. In this perspective, stewards are managers working to protect and make profits for the shareholders. Stewardship theory emphasizes on the role of management being stewards, integrating their goals as part of the organization (Davis, Schoorman and Davidson, 1997).

The theory recognizes the importance of governance structures that empower the steward and offers maximum autonomy built on trust (Donaldson and Davis, 1991). It stresses on the position of employee to act more autonomously so that the shareholders returns are maximized. Indeed, this can minimize the costs aimed at monitoring and controlling employee behavior (Davis et al., 1997). This theory has a great link to liquidity and compliance management of SACCOs in that managers must be adhere to the laws, regulations and guidelines to remain in operation and ensure increased financial
performance. Also they need to ensure the level of delinquent loans is minimized as stewards of the organization.

Therefore, agents who are the owners must assess the type of manager they employ and establish appropriate governance structures so as to maximize the management efficacy and drive the organizational performance. In this context, SACCOs that employ steward managers can leverage the managers by establishing firm mechanisms and organizational structures that support the manager’s activities to meet the needs of the organization and result in increased performance (Galbraith 1973, Lawrence and Lorsch 1967).

2.3 Empirical Review

2.3.1 Credit risk management and financial performance

The importance of credit risk management in banks is due to its ability in affecting the banks’ financial performance, existence and growth. Several studies have been done relating to credit risk management. Gisemba (2010) found out that SACCOs screened clients and analyzed risk before awarding credit to minimize cash loss and loan default. He concluded that there was a positive relationship between credit risk management and financial performance. Similarly, Kimari (2013) indicated that there was a direct relationship between credit risk management practices and financial performance and recommended adoption and implementation of sound credit risk management practices and credit risk policy.

Gaitho (2010) observed that majority of the SACCOs in Nairobi used credit risk management practices to mitigate risks. Njeri (2010) in a study of found that banks had adopted strategic credit risk management practices including risk assessment, monitoring, evaluation, and control and reporting to ensure financial performance. Similarly, Omasete
(2011) found that insurance companies adopted risk management practices in their operations because of their impact on financial performance. Njanike (2009) on the contrary found that effective credit risk management was absent in banks in Zimbabwe, this to occurrence of the banking crisis, and inadequate risk management systems hence financial crisis.

Murugu (2012) in his study, the effect of credit risk management practices on the performance of SACCOs in Nairobi, found that SACCOs relied on particular credit risk techniques which were not adequate to mitigate against loan losses in a dynamic and competitive lending environment. He also noted that majority of SACCOs lacked adequate credit risk monitoring and control mechanisms which results in late detection and determination of non-performing and defaulted loans.

Essendi (2013) in a study of the effect of credit risk management on loans portfolio among Saccos licensed by SASRA in Nairobi County, found that capital adequacy, earnings, liquidity and management quality had a positive coefficients in relation to loan allocations while asset quality was found to have a negative coefficient. Kimondo (2013) concluded that credit policies minimally affected the financial performance of deposit taking micro microfinance institutions in Kenya.

Mutua (2014) sought to determine the effect of credit risk management on the performance of commercial banks in Kenya and concluded that risk management contributed to financial performance of commercial banks. The application of modern approaches to credit risk identification, measurement and analysis helps the bank management to discover risks at early stages for corrective action. The study recommended that commercial banks management should understand how they can edge themselves against the eminent dangers of over exposure to credit risk which can impact negatively on their profitability.
Kagoyire and Shukla (2016) in a study of the effect of credit management on performance of Equity banks in Rwanda, found that client appraisal and collection policy significantly influenced. They established that a stringent policy was more effective in debt recovery than a lenient policy and recommended that the bank should adopt a more stringent collection policy for effective debt recovery. Muthoni (2016) found that most Sacco’s had credit management policy to guide the management of various loan products so as to minimize credit risk. And further that Saccos used guarantee and members shareholding as securities to mitigate credit risk.

2.3.2 Liquidity Risk Management and Financial Performance

Liquidity risk arises when a financial institution is not able to meet its financial obligations (Puneet and Parmil, 2012). The risk arises from maturity mismatch where liabilities have a shorter term than assets (Sambasivam and Biruk, 2013). The liquidity risk management aims at mitigating the impact of the maturity mismatch on the lenders’ statement of financial position. According to Muneeb and Kashif (2012), good liquidity management should be based on the principle of early cash collection from debtor and hold up of current debts and obligations as much as possible.

Nguyen and Perera (2012), in a study to analyze the relationship between liquidity risk and bank market power, found that listed banks usually held more liquid assets than non-listed banks to mitigate against liquidity risk. Usama (2012) also found that working capital management and cash conversion cycle had a positive effect on liquidity while average collection period had a negative effect on liquidity and therefore profitability and firm’s performance. Muthoni (2016) found out that cash management policies had contributed to enhanced liquidity of the Saccos by ensuring that loans were disbursed upon approval and that only few Saccos invested excess cash in marketable securities. Rehema (2013) further
indicated that poor asset quality leads to high levels of non-performing loans leading to liquidity shortages, inflated asset values and overstated earnings.

Sanghani (2014) found that current ratio and increase in operating cash flow positively affect the financial performance of non-financial companies listed at the Nairobi securities Exchange (NSE). El-Mehdi (2014) rates financing and liquidity upon several factors like, the adequacy of liquidity sources, ability of the institution to meet demand for liquidity needs without affecting operations, availability of cash convertible assets without loss, access to funding sources, degree of reliance short term source of financing to fund long term assets and deposit stability. According to Owino (2011) highly leveraged firms are exposed to liquidity risks because of the obligation to honor repayment of interest and principal debt which leads to huge cash outflows.

Omino (2014) established that Saccos adopted more cautious positions in their current liabilities to ensure that operating cash flows were sufficient to cover the short term obligations. Waleed, Pasha and Akhtar (2016) observed significant connection among bank liquidity ratios and returns on equity, net profit margin and Tobin q. Similarly, Khidmat and Rehman (2014) concluded that liquidity had high positive effect over Return on Assets of Chemical sector in Pakistan. Alshatti (2015) opined that banks should adopt a general framework of liquidity management to ensure efficiently execution of their operations while Ware (2015) recommended having short cash conversion cycle and increasing the current ratios to increase profitability.

Omesa (2015) indicated that the relationship between liquidity and financial performance was weak and concluded that liquidity management was not a contributor alone of the firm’s financial performance. He however noted that it was important for a firm to
understand the effect of liquidity components on the firm’s financial performance and undertake deliberate measures to optimize its liquidity level

2.3.3 Compliance Risk Management and Financial Performance

Compliance risk arises from violations or non-compliance with prescribed practices, agreements, laws, regulations, rules, ethical standards, as well as from incorrect interpretation of laws or regulations that guides the operation of the institutions (Central Bank of Kenya, 2013). According to the SACCO societies Act (2008), all SACCOs in Kenya are required to maintain a maximum of 5% ratio on non-performing loans to total loan portfolio. Increasing amount of non-performing loans to total loan portfolio is an indication of declining asset quality. The Act also prescribes the minimum core capital as Kshs 10 million. The regulator further requires all deposit taking SACCOs to maintain a core capital to total deposit ratio of 8%, core capital to total assets ratio of 10% and institutional capital to total assets of 8% and that all SACCOs to maintain a 25% ratio on external borrowing to total assets (SASRA, 2015)

According to Tunga (2013), audit control environment and accountability had a significant positive relationship with financial performance in banks and recommended that they should maintain and strengthen control environment in order to increase their financial performance. Olando, Jagongo and Mbewa (2013) found that compliance with Sacco’s by-laws in Kenya was inadequate and that incomes from investments did not adequately cover their costs. He recommended that the Government should review legal framework to ensure that institutional capital is used to grow Sacco’s wealth.

Ngugi (2015) in study of challenges facing deposit taking Saccos in Njeri County, found that ICT capacity was inadequate, SACCOs had not attained the required capital ratio and 80% of the SACCOs had not fully complied with the Societies’ Act of 2008 (revised 2012).
Nthimba and Jagongo (2015) found that most deposit taking SACCOs in Nairobi County employed strategies which included active oversight board, policies, procedures and limits and comprehensive internal controls in financial risk management. They indicated the need for sensitization and education of members by SASRA on proper financial risk management strategies by all deposit taking SACCOs.

Ochieng and Ronga (2016) established that SACCOs in Nairobi County had not attained the required human resource capacity and 80% of the Saccos had not fully complied with the Societies’ Act of 2008. They recommended review of the Act to enhance compliance, establishment of training program to enhance management capacity on compliance issues and initiation of change management to set realistic user expectation, goals and objectives by the board of directors. Further, Waiganjo, Wanyoike and Koitaba (2016) found that the quality of the Board of Directors, staff competence, and corporate governance had a significant effect on the financial performance of the SACCOs. They recommended modification of SASRA regulations to upgrade the roles and qualifications of the Board members and the need of more staff involvement in decision making at higher levels to develop their potential as future managers and directors of the SACCOs.

2.4 Summary of Literature and Research Gaps

Risk management is one of main business activities of financial institutions including Deposit Taking Saccos (DTSs). From literature reviewed the most inherent risk in SACCOs are market risk, credit risk, liquidity risk, operational risk, compliance risk and business risks (Crouhy et al., 2006; SASRA Guideline, 2015). Risk management involves the identification, assessment, and prioritization of risks followed by coordinated and economical application of resources to minimize, monitor, and control the probability and/or impact of unfortunate events or to maximize the realization of opportunities. Most
financial institutions including SACCOs are exposed to the risk of insolvency as a result of the various risks that they face in their operations. Enhanced understanding of how risk effects financial performance may decrease the probability of insolvency and provide greater stability to a depository institution. Empirical review show that liquidity risk, credit risk and compliance risk affects financial performance (Mutua, 2014, Rehema, 2013, El-Mehdi, 2014) because they affect profitability which is a key variable of financial performance. It can be assumed from the reviewed literature that effective risk management ensures that the organization meets its obligations when they become due and therefore minimizes the risks of insolvency. While the reviewed literature give information on the challenges faced by SACCOs, specific risk management practices, financial performance of Deposit Taking SACCOs and the relationship between specific risk management practices and financial performance of SACCOs in Kenya. None of the literature reviewed considered the collective effect of more than one risk management practice on financial performance of DTSs in Kenya and in Uasin Gishu County. Furthermore there is no specific information on risk management practices and financial performance for Deposit Taking Saccos in Uasin Gishu County.

2.5 Conceptual Framework

The conceptual framework interlinks independent, dependent and intervening variables as depicted Figure 2.1 was used in this study. In this framework the independent variables includes credit risk management; liquidity risk management and compliance risk management as facilitating factors for DTSs financial performance (Dependent Variable). The indicators of the financial performance is profitability is depicted to be influenced by the various indicators of the independent variables like credit appraisal and monitoring, debt collection policy, cash conversion cycle, credit payment, debtors collection, operating cash cycle, compliance with Saccos societies laws and regulations. In the framework it is
conceptualized that credit risk management, liquidity risk and compliance risk affects financial performance of DTSs

**INDEPENDENT VARIABLES**

**Credit Risk Management**
- Credit (loan) appraisal
- Credit (loan) monitoring
- Debt collection policy

**Liquidity Risk Management**
- Cash conversion cycle
- Credit payment
- Debtors collection
- Operating cash flow

**Compliance Risk Management**
- Saccos societies
- SASRA regulations
- Corporate governance practices

**DEPENDENT VARIABLE**

Financial Performance of DTSs
- Profitability

*Figure 2.1: A Conceptual Framework Analysis Model, Researcher (2016)*
CHAPTER THREE
RESEARCH METHODOLOGY

3.1 Introduction
This chapter describes the research design and research methodology that was used in the study, the chapter was presented under the following sub-headings: research design, the study area, population of the study, sample and sampling procedures, data collection instruments and procedures and data analysis.

3.2 Research Design
The research adopted a descriptive research design. It portray accurately the characteristics of a particular individual situation or group (Gall and Borg, 2006). It was preferred because it could be used to investigate problems in realistic settings (Kothari, 2006). It enabled the researcher to collect comprehensive data by interviewing or administering questionnaires to a sample of selected respondents and thus provided relevant and specific information. Data was collected and used to describe the relationship between risk management and financial performance of Deposit Taking Saccos in Uasin Gishu County.

3.3 The Study Area
The study was carried out in Uasin Gishu County, North Rift region. Uasin Gishu County is situated in the mid-west of the Rift Valley covering an area of 3,345.2 square kilometers and lies between longitude 34 degrees 50’ east and 35 degrees 37’ west and latitude 0 degrees 03’ south and 0 degrees 55’ north . The county is further sub-divided into six sub-counties namely; Soy, Turbo, Moiben, Ainabkoi, Kapseret and Kesses. The county has an estimated population of 894,179 with urban population contributing about 31% of the entire population. The population density is 267 persons per sq.km .The County has potential labor force of 550,000 (56%) of the entire population. Hence 44% of the population is
dependent. Uasin Gishu County is a highland plateau with altitudes falling gently from 2,700 metres above sea level to about 1,500 metres above sea level. The County lies within the Lake Victoria catchment zone and all its rivers drain into the lake.

3.4 Target Population of the Study

According to Mugenda and Mugenda (2003), a population refers to an entire group of individuals, events or objects having a common observable characteristic. In other words, population is the aggregate of all that conforms to a given specification. The Target population was 86 employees from 12 deposit taking SACCOs licensed by SASRA in Uasin Gishu County (Appendix 4). The employees included 12 branch managers, 12 administrators, 24 credit officers, 12 finance officers, 12 marketing officers and 24 auditors/accountants.

3.5 Sampling Design

Sampling is a process of selecting a number of individuals or objects from a population such that the selected group contains elements representative of the characteristics found in the entire group (Orodho, 2002). In this study stratified random sampling was used to select 35 employees from the 12 deposit taking SACCOs licensed by SASRA in Uasin Gishu County as indicated in Table 3.1. This is 36.4% of target population since according to Mugenda and Mugenda (2006), a sample of 30% is representative in a descriptive research.

The formula, \( n_i = n \cdot p_i \) was then be used to select respondents from each category of employees (Kothari, 2004)

Where

- \( n_i \) = number of elements to be drawn from stratum \( i \)
- \( n \) = total sample
- \( p_i \) = proportion of population included in stratum \( i \)
Table 3.1 Sample size

<table>
<thead>
<tr>
<th>Categories</th>
<th>Population</th>
<th>n.p</th>
<th>n_i</th>
</tr>
</thead>
<tbody>
<tr>
<td>Branch Managers</td>
<td>12</td>
<td>35(12/96)</td>
<td>4</td>
</tr>
<tr>
<td>Credit Officers</td>
<td>24</td>
<td>35(24/96)</td>
<td>9</td>
</tr>
<tr>
<td>Administrators</td>
<td>12</td>
<td>35(12/96)</td>
<td>5</td>
</tr>
<tr>
<td>Finance Officers</td>
<td>12</td>
<td>35(12/96)</td>
<td>4</td>
</tr>
<tr>
<td>Marketing officers</td>
<td>12</td>
<td>35(12/96)</td>
<td>4</td>
</tr>
<tr>
<td>Auditors/Accountants</td>
<td>24</td>
<td>35(24/96)</td>
<td>9</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td><strong>96</strong></td>
<td></td>
<td><strong>35</strong></td>
</tr>
</tbody>
</table>

Source: Own conceptualization (2017)

3.6 Data collection instruments

The main research instrument that was used in the study was questionnaires. The questionnaire was developed by the researcher based on the research objectives. Structured questionnaire had both closed and open ended questions. Closed ended question was used because the researcher sought to find out specific answers to the questions while open ended questions was used as the study seeks the opinion of the respondents concerning the problem in question. The questionnaire was divided into five main sections which included general information of respondent, credit risk management section, liquidity risk management section, corporate governance section and financial performance section.

3.6.1 Validity of data collection instruments

Validity is the accuracy or meaningfulness and technical soundness of the research. It is the degree to which a test measures what it purport to measure. (Mugenda and Mugenda, 2003). The instruments was given to lecturer as experts to assess their validity. Suggestions and inputs was incorporated accordingly to improve on the instruments. Content validity was
also done to ensure the instruments covered exhaustively the study objectives. This was for the purposes of determining validity of instruments and identifying unclear items in the instruments.

3.6.2 Reliability of data collection instruments
Reliability estimated the consistency of measurement, or more simply the degree to which an instrument measured the same way each time it is used under the same conditions with the same subjects. The developed questionnaire was further assessed for reliability. The test-retest method was used in assessing reliability. The researcher administered the questionnaires to randomly selected subjects who were not involved in the study. After a period of two weeks the researcher again administered the same questionnaires to the same subjects under the same conditions. Both sets of questionnaires were scored and the scores correlated using Pearson product moment correlation coefficient. The correlation coefficient was 0.76 and therefore the questionnaire was considered reliable.

3.7 Data Collection Procedures
In this study data was collected using structured questionnaire with both closed and open ended questions. Data was collected from managers and employees in operations, credit management, and risk management sections. Some questionnaires were dropped and picked while others were mailed though emails of the selected respondents. Secondary data was collected from past studies, SASRA published audited annual reports for the five year period from 2011 to 2015, journals, government reports and website.

3.8 Data analysis and presentation
3.8.1 Data analysis
The data collected was collated, edited, validated and processed using the Statistical Package for Social Science (SPSS) version 20 and excel spreadsheet will be used to aid in
the computation of the statistics. Descriptive and inferential statistics were used in the analysis. Descriptive statistics involved the use of mean, standard deviations, frequencies and percentages to describe the features of the independent variable so as to develop the basic features of the study and form the basis of virtually every quantitative analysis of the data.

Inferential statistics involved the use of correlation and regression analysis. Correlation analysis was used to determine both the significance and degree of association of the variables. The correlation technique is used to analyze the degree of relationship between two variables. It varies between -1 and +1 with both ends of the continuum indicating perfect negative and perfect positive relationship between any two variables respectively. Regression analysis was used to determine the significance of the relationship between the dependent variable and all the independent variables collectively and individually. The regression model below was applied in the analysis.

\[ Y = \beta_0 + \beta_1 X_1 + \beta_2 X_2 + \beta_3 X_3 + e \]

Where:
- \( Y \) = Financial performance
- \( X_1 \) = Credit Risk Management practices
- \( X_2 \) = Liquidity Risk Management practices
- \( X_3 \) = Compliance Risk Management practices
- \( \beta_0 \) = Constant
- \( \beta_1, \beta_2, \beta_3 \) = Beta values
- \( e \) = error term

### 3.8.2 Data presentation

The analyzed data were presented in tables, charts, graphs and figures to allow for easy understanding and interpretation of findings.
3.9 Ethical Issues

Ethical considerations relate to the moral standards that the researcher should consider in all research methods in all stages of the research design. After approval from the University was obtained to conduct the study, permission was obtained from the management of all the sampled deposit taking SACCOs in Uasin Gishu County. The participants were also informed that the information they provided was not be used in any way to harm the participants or exploited for commercial and selfish personal gain, but only for academic purposes. Full disclosure, fair treatment and privacy were also practiced through a cover letter for all the questionnaires.
CHAPTER FOUR
RESEARCH FINDINGS

4.1 Introduction
This chapter presents findings of the study. Both descriptive and inferential outputs are presented together with the interpretation of the findings.

4.2 Response Rate
From the 35 questionnaires administered, 30 questionnaires were properly filled and returned. This represents an overall response rate of 85.7%. According to Babbie (2002) return rate of 50% is acceptable to analyze and publish, return rate of 60% is good while 70% is very good. This implies that return rate of 85.7% was very good.

4.3 Descriptive Statistics
4.3.1 General respondents and business information
4.3.1.1 Gender of the Respondents
Respondents were asked to state their gender and the results are shown in the figure 4.1 below.

![Figure 4.1: Gender of respondents](source.png)

Figure 4.1: Gender of respondents
Source. Data analysis, 2017
Results in Figure 4.1 show that 63.3% of the respondents were male while 36.7% were female. This indicates a relatively well representation of all genders.

### 4.3.1.2 Designation of Respondents

Respondents were asked to indicate their designation in the Sacco, and the results presented in Table 4.1 below.

<table>
<thead>
<tr>
<th>Designation</th>
<th>Frequency</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Branch Managers</td>
<td>5</td>
<td>16.7</td>
</tr>
<tr>
<td>Auditor/Accountants</td>
<td>7</td>
<td>23.3</td>
</tr>
<tr>
<td>Administrators</td>
<td>5</td>
<td>16.7</td>
</tr>
<tr>
<td>Finance Officers</td>
<td>2</td>
<td>6.7</td>
</tr>
<tr>
<td>Credit Officers</td>
<td>8</td>
<td>26.7</td>
</tr>
<tr>
<td>Marketing officers</td>
<td>3</td>
<td>10.0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>30</strong></td>
<td><strong>100.0</strong></td>
</tr>
</tbody>
</table>

Source. Data analysis, 2017

Result presented in Table 4.1 above revealed that 26.7% of the respondents interviewed were credit officers from the various SACCOs followed by auditors/accountants at 23.3%, administrators and Branch managers at 16.7%, marketing officers at 10% and finance officers at 6.7%. This indicates that all the key position in the SACCO were well represented.

### 4.3.1.3 Duration worked in the organization

The respondents were asked to state how long they had worked in the Sacco. The results are shown in figure 4.2 below.
Findings in Figure 4.2 revealed that 43.3% of the staff interviewed had worked in the SACCOs for less than 5 years, 33.4% had worked for between 5-10 years and 23.3% had worked for more than 10 years. This implies that majority of the respondents had less than 5 years’ work experience and therefore had good knowledge of the operations of the SACCOs in their various positions.

4.3.1.4 Type of ownership by Deposit Taking Saccos (DTSs)

Respondents were asked the type of ownership they had in their Saccos and the results presented in Table 4.2 below

<table>
<thead>
<tr>
<th>Type of ownership</th>
<th>Frequency</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sacco shares</td>
<td>27</td>
<td>90.0</td>
</tr>
<tr>
<td>Housing Investment</td>
<td>5</td>
<td>16.7</td>
</tr>
<tr>
<td>Fosa Account</td>
<td>20</td>
<td>66.7</td>
</tr>
<tr>
<td>Members deposit</td>
<td>23</td>
<td>76.7</td>
</tr>
</tbody>
</table>

Source. Data analysis, 2017
From result in Table 4.2, the ownership of most SACCOs was through shares (90%) followed by members deposit at 76.7%, FOSA accounts at 66.7% through and housing investment at 16.7%. This implies that most respondents have realized that to benefit more you have to own the SACCO through acquisition of shares and patronizing other ownership in Housing Investment, FOSA Accounts, and Member deposit.

**4.3.1.5 Risk Mitigation Strategies by the Saccos**

The respondents were asked to state whether their Saccos had the risk mitigation strategies and the results are shown in table 4.3 below.

<table>
<thead>
<tr>
<th>Response</th>
<th>Frequency</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>27</td>
<td>95.0</td>
</tr>
<tr>
<td>No</td>
<td>3</td>
<td>5.0</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td><strong>30</strong></td>
<td><strong>100</strong></td>
</tr>
</tbody>
</table>

Source. Data analysis, 2017

Table 4.3 revealed that 95% of the respondent agreed that their SACCOs had risk mitigation strategy while 5% indicated they did not have. This implies that most SACCOs were in a position to manage the risks and therefore ensure increased performance. This conforms to findings by Njeri (2010) that banks in Kenya had adopted strategic risk management practices and with Omasete (2014) that Insurance companies in Kenya had adopted risk management practices in their operations because of their greater effect on financial performance. This is contrary to findings by Dhakal (2011) that risk management was not imbedded into the SACCOs institutional cultures and its value were not shared by all employees in the microfinance in Napal.
The respondents were asked to state the risk mitigation strategies used by the organizations and the results are shown in table 4.4.

**Table 4.4: Risk mitigation strategies used by the DTSs**

<table>
<thead>
<tr>
<th>Strategies</th>
<th>Frequency</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insuring loans/ assets</td>
<td>27</td>
<td>100</td>
</tr>
<tr>
<td>Guaranteeing loans</td>
<td>27</td>
<td>100</td>
</tr>
<tr>
<td>Sharing credit information</td>
<td>27</td>
<td>100</td>
</tr>
<tr>
<td>Implementation of policies, procedures and limits</td>
<td>27</td>
<td>100</td>
</tr>
<tr>
<td>Senior management oversights</td>
<td>23</td>
<td>85.2</td>
</tr>
<tr>
<td>Strengthening internal control systems</td>
<td>18</td>
<td>66.7</td>
</tr>
<tr>
<td>Audits(internal /external)</td>
<td>16</td>
<td>59.3</td>
</tr>
<tr>
<td>Boards oversight</td>
<td>20</td>
<td>74.1</td>
</tr>
</tbody>
</table>

Source. Data analysis, 2017

Result presented in Table 4.4 above revealed that some of the risk mitigation strategies included insuring loans/asset, guaranteeing loans, share credit information, senior management oversight, implementation of policies, procedures and limits, audits, strengthening internal control system and board oversight. This means that most SACCOs were in a position to manage the risks and therefore ensure increased performance. The findings agree with Muthoni (2016) that the SACCOs mainly used guarantee and members shareholding as securities to mitigate credit risk.

### 4.3.2 Credit risk management practices

Table 4.4 show the findings of what the credit team checked during credit appraisal before loan approval. From the findings, credit review teams checked financial statements of the
borrowers (93.3%), collateral of the borrowers (90%), checked the character of borrower (87.6%), and share capital (50%)

Table 4.5: What the credit review team checks during credit appraisal.

<table>
<thead>
<tr>
<th>Issue checked</th>
<th>Frequency</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Character of borrower</td>
<td>26</td>
<td>86.7</td>
</tr>
<tr>
<td>Collateral of borrower</td>
<td>27</td>
<td>90.0</td>
</tr>
<tr>
<td>Share capital</td>
<td>15</td>
<td>50.0</td>
</tr>
<tr>
<td>Borrowers financial statements</td>
<td>28</td>
<td>93.3</td>
</tr>
</tbody>
</table>

Source. Data analysis, 2017

The findings indicate that most SACCOs reviewed the loans thoroughly before approval which could mean reduced risks due to loan defaults and improved profitability. The findings are supported by Kanyiri cited in Musimbi (2015) that the credit appraisal criteria should include a thorough understanding of the borrower or counterparty, as well as the purpose and structure of the credit, and its source of repayment. The finding is also in line with Gisemba (2010) that SACCOs adopted various approaches in screening and analyzing risk before awarding credit to client to minimize loan loss which included establishing capacity, conditions, use of collateral, borrower screening and use of risk analysis in attempt to reduce and manage credit risks.

Additionally the credit review teams checked individual credit exposure (83.3%), compliance with internal guidelines (80%), status of existing loan facility (93.3%), loan repayment history (86.7%), and completeness of the loan application (96.7%) before loan disbursement as presented in Figure 4.3 below. The finding implied that credit review teams reviewed the loans thoroughly using outlined criteria before making a decision on disbursement even after the initial approval. This is in line with the findings of Kagoyire
and Shukla (2016) that credit committees’ involvement in making decisions regarding loans was essential in reducing default/credit risk while the use of credit checks on regular basis enhances credit management, and the use of customer credit application forms improves monitoring and credit management.

![Issues checked before loan disbursement](image)

**Figure 4.3: Issues checked by credit review teams of DTSs before loan disbursement**
Source. Data analysis, 2017

Furthermore results on credit collection practices by SACCOs as presented in Table 4.6 show that 90% of the SACCOs had written loan collection policy, 96.7% agreed that loan collection policy applied equally to all borrowers, 76.7 indicated that all loans are marked for close attention while 36.7% agreed that a loan is considered delinquent if it is one day past due. This implies that most SACCOs has loan policy and guidelines for managing loan collection thereby enhancing collection and minimizing default. This findings is supported by Kimondo (2013) that a good credit policy should help management to attract and retain customers, without having negative impact on cash flow. This agrees with Muthoni (2016) that that most SACCOs have a credit management policy which is crucial in laying down
guidelines and procedures on how to manage the variety of loan products offered by the SACCOs and minimize credit risk.

**Table 4.6: Use of Credit collection practices in Credit management by DTSs**

<table>
<thead>
<tr>
<th>Practice</th>
<th>Frequency</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written loan collection policy</td>
<td>27</td>
<td>90</td>
</tr>
<tr>
<td>Collection policy apply equally to all borrowers</td>
<td>29</td>
<td>96.7</td>
</tr>
<tr>
<td>All loans are marked for close attention</td>
<td>23</td>
<td>76.7</td>
</tr>
<tr>
<td>A loan is considered delinquent if it is one day past due</td>
<td>11</td>
<td>36.7</td>
</tr>
<tr>
<td>All loans are subject to penalties after a specified number of days of delinquency</td>
<td>21</td>
<td>70</td>
</tr>
</tbody>
</table>

Source. Data analysis, 2017

4.3.3 **Liquidity risk management practices**

Table 4.7 show level of vulnerability by DTSs to liquidity risk. From the table, 33.3% of the SACCOs were fairly vulnerable to liquidity risk, 30% were vulnerable while 26.7% were vulnerable while 10% were not vulnerable. This implied that most DTSs are vulnerable to liquidity risk in varying levels and therefore measure must be put in place to manage this kind of risk to ensure increased performance. This agrees with Kumar (2013) that prudent effective liquidity risk management helps ensure a bank’s ability to meet its obligations as they fall due and reduces the probability of an adverse situation.
Table 4.7: Level of vulnerability by DTSs to liquidity risk

<table>
<thead>
<tr>
<th></th>
<th>Frequency</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very vulnerable</td>
<td>8</td>
<td>26.7</td>
</tr>
<tr>
<td>Vulnerable</td>
<td>9</td>
<td>30.0</td>
</tr>
<tr>
<td>Fairly vulnerable</td>
<td>10</td>
<td>33.3</td>
</tr>
<tr>
<td>Not vulnerable</td>
<td>3</td>
<td>10.0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>30</strong></td>
<td><strong>100.0</strong></td>
</tr>
</tbody>
</table>

Source. Data analysis, 2017

Figure 4.4 shows time taken to processing loan by DTSs. From the findings, loan processing in 53.3% of the SACCOs took less than one week while 46.7% took between 1-4 weeks. This is an indication of good liquidity management by most DTSs because they are able to process the loan in the shortest time possible.

![Figure 4.4: Time taken to process credit (loan) by DTSs](image)

Source. Data analysis, 2017

From the results in Figure 4.5, 74% of the respondents indicated that the maximum duration for salary advance is one month, 13% indicated that it was six months, 10% that it was...
more than one year and 3% that it was three months. This is an indication that most SACCOs had short debt collection cycle which is good for liquidity. This is supported by Muneeb and Kashif (2012) who indicated that good liquidity management should be based on the principle of early cash collection from debtor and hold up of current debts and obligations as much as possible.

![Pie chart showing the maximum duration of salary advance](image)

**Figure 4.5: Maximum duration of salary advance**
Source. Data analysis, 2017

Results presented in Figure 4.6 shows that the cash conversion cycle management was used to a greater extent by 30% SACCOs, to medium extent by 53% and to small extent by 17% of the SACCOs. It also show that operating cash flow management was used to a great extent by 39%, to a medium extent by 47% and to a small extent by 14%. This implies that that funds were available for disbursement for new loan applicants. This is in line with finding by Muthoni (2016) that cash management policies have contributed to enhancing the liquidity of the SACCOs, ensuring loans are disbursed upon approval resulting to increase in profitability through the interest.
Results also shows credit payment management was used to a great extent (73%), medium extent (23%) and small extent (5%) to ensure the performance of the DTSs. This finding suggests that most SACCOs met the credit obligation promptly, a good indication that the SACCOs were liquid most of the time. Results further shows that debtors’ collection management was used to a great extent (68%), medium extent (29%) and small extent (3%) to ensure the performance of the DTSs. This implies that debtors pay quickly and the risk of customers not paying in time is minimized resulting into improved liquidity and investment hence financial performance.

![Liquidity Risk mitigation measures](image)

**Figure 4.6: How liquidity risk mitigation measures ensure DTSs performance**
Source. Data analysis, 2017

### 4.3.4 Compliance Risk Management Practices

Result presented in Figure 4.7 show that 68.4% agreed that compliance to corporate governance practices was high, 23.3% said it was moderate and 8.3% said it was low. This implies better risk management by most SACCOs and optimal performance since as stated by Murtishaw and Sathaye (2016) corporate governance seeks to ensure that the power of an organization is used in a manner that facilitates independence, responsibility, efficient,
fairness, accountable, social responsibility, transparency, efficiency and discipline. The finding agrees with Waiganjo et al. (2016) that corporate governance have a significant effect on financial performance of SACCOs. It is also supported by findings by Tunga (2013) that audit control environment and accountability which are aspects of corporate governance had a significant effect on financial performance.

Additionally 65% of the respondents agreed that compliance to financial reporting was high, 28% moderate and 7% low. This implies earlier detection of the likely risk and timely mitigation and therefore increased financial performance. This is because it is a requirement by SASRA that all licensed SACCOs adhere to monthly returns on capital adequacy, liquidity and deposits, quarterly returns on risk classification of assets and loan loss provisioning, investment returns, financial performance and annual returns (audited financial statements). Also 63.3% of the respondents agreed that compliance to Sacco’s
Society act 2008 was high, 26.7% said it was moderate and 3.3% said it was low. This implies reduced risks since the Act gives guidance on the overall operations and management of the SACCO including statutory appointment of directors.

Similarly 53.3% agreed that compliance to statutes governing business operations was high, 33.3% said it was moderate and 13.3% said it was low. This implies that most SACCOs had policies that guides their day to day business operation and therefore reduced incidences of risks and prompt risk mitigation. This is because with the enactment of SASRA, staff are more independent to carry out their duties without the interference of the board. Risk assessment and making provision for loan losses as well as setting aside reserves and a fund from which members can be refunded incase the Sacco collapses has been made mandatory.

Furthermore 50% agreed that compliance common laws of directors duties and liabilities was high, 42% said it was moderate and 8% said it was low. This means prudent management of risk and increased performance of the SACCOs since the board of directors plays a key oversight role in the SACCOs management. This is in line with SASRA (2015) that the Board of directors has the ultimate responsibility for the level of risk taken by the Sacco. They approve the overall business strategies and significant policies of their organizations, including those related to taking and managing risks and ensure that senior management implements the procedures and controls necessary to comply with adopted policies on risk management.

4.4 Inferential statistics
This section presents the results of the correlation and regression analysis done in the study to evaluate the nature of the relationship between the dependent (financial performance)
and independent variables (credit risk management practices, liquidity risk management practices and compliance risk management practices)

4.4.1 Correlation analysis

Correlation analysis was used to determine both the significance and degree of association of the dependent variable (financial performance) and independent variables (credit risk management practices, liquidity risk management practices and compliance risk management practices). Results of correlation analysis was presented in Table 4.8 below

Table 4.8: Results presented in Table below show Pearson Correlation

<table>
<thead>
<tr>
<th></th>
<th>Financial Performance</th>
<th>Credit Risk Management</th>
<th>Liquidity Risk Management</th>
<th>Compliance Risk Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Financial performance</td>
<td>Pearson Correlation</td>
<td>1.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Credit Risk Management</td>
<td>Pearson Correlation</td>
<td>.762**</td>
<td>1.000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sig. (1-tailed)</td>
<td>.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Liquidity Risk Management</td>
<td>Pearson Correlation</td>
<td>.427**</td>
<td>.529**</td>
<td>1.000</td>
</tr>
<tr>
<td></td>
<td>Sig. (1-tailed)</td>
<td>.002</td>
<td>.001</td>
<td></td>
</tr>
<tr>
<td>Compliance risk management</td>
<td>Pearson Correlation</td>
<td>.346*</td>
<td>.088</td>
<td>.277*</td>
</tr>
<tr>
<td></td>
<td>Sig. (1-tailed)</td>
<td>.023</td>
<td>.644</td>
<td>.018</td>
</tr>
</tbody>
</table>

Source. Data analysis, 2017

From the results in Table 4.8 above, credit risk management practices and financial performance were found to be positively and significantly related (r=0.762, p<0.000). Similarly liquidity risk management practices and financial performance were found positively and significantly related (r=0.425, p <.002) and further that compliance risk
management practices and financial performance were positively and significantly related (r=0.346, p<0.023). This implies that a unit increase in each of the variables led to an increase in financial performance (profitability) in the Deposit Taking SACCOs. The degree of association between credit management practices were higher when compared to liquidity risk management practices and compliance risk management practices. This was because credit risk management practices had r=0.762 when compared to r=0.425 for liquidity risk management practices and r=0.346 for compliance risk management practices.

4.4.2 Regression analysis

Result presented in Table 4.9 show the SPSS output for model fitness which shows the significance of the relationship between the dependent and independent variables.

Table 4.9: Model Summary-Goodness Fit

<table>
<thead>
<tr>
<th>Model</th>
<th>R</th>
<th>R Square</th>
<th>Adjusted R Square</th>
<th>Std. Error of the Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>.721a</td>
<td>.519</td>
<td>.453</td>
<td>.856</td>
</tr>
</tbody>
</table>

a. Dependent Variable: Financial Performance (Profitability)
b. Predictors: (Constant), Credit risk practices, liquidity risk management practices, compliance risk management practices

From the findings, the coefficient of correlation (R) of 0.721 indicates that the predictors of the model which are credit risk management practices, liquidity risk management practices and compliance risk management practices have a correlation of 72.1% with the dependent variable financial performance (profitability). The coefficient of determination (R²) of 0.519 indicates that the model explains 51.9% of the variations in profitability of the Deposit Taking Saccos in Uasin Gishu County, Kenya. This means that other factors not studied in this research contributes 48.1% of the variance in the dependent variable.
Besides results of the ANOVA presented in Table 4.10 indicated that the variations in financial performance (profitability) was explained by the model to the extent of 7.756 out of 14.944 while other variables not captured by the model explains 7.188 out of 14.944 of the variations in financial performance of DTSs. The F Value was 9.367 and produces a p value of 0.000. This was less than the set level of significance of 0.05 for a normal distributed data and therefore the model was significant in explaining the financial performance of Deposit Taking Saccos.

Table 4.10: ANOVA

<table>
<thead>
<tr>
<th>Model</th>
<th>Sum of Squares</th>
<th>df</th>
<th>Mean Square</th>
<th>F</th>
<th>Sig.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regression</td>
<td>7.756</td>
<td>3</td>
<td>2.585</td>
<td>9.367</td>
<td>.000b</td>
</tr>
<tr>
<td>Residual</td>
<td>7.188</td>
<td>26</td>
<td>.276</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>14.944</td>
<td>29</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

a. Dependent Variable: Financial Performance (Profitability)
b. Predictors: (Constant), Credit risk practices, Liquidity risk management practices, Compliance risk management practices

Results of regression model coefficients were presented in Table 4.11, using the coefficients the regression equation can be expressed as \( Y = 1.555 + 0.772X_1 + 0.468X_2 + 0.214X_3 \). From the findings, financial performance of Deposit Taking Saccos in Uasin Gishu County, Kenya would be at 1.555 when credit risk management practices, liquidity risk management practices and compliance risk management practices are at zero. Results also show that a unit increase in credit risk management practices would lead to an increase in the financial performance by factors of 0.772 at \( p < 0.01 \). Similarly a unit increase in liquidity risk management practices would lead to an increase in the financial performance.
by factors of 0.468 at (p < 0.01) and further that a unit increase in compliance risk management practices would lead to an increase in the financial performance by factors of 0.214 at (p < 0.05).

Table 4.11: Regression model coefficients

<table>
<thead>
<tr>
<th>Model</th>
<th>Unstandardized Coefficients</th>
<th>Standardized Coefficients</th>
<th>t</th>
<th>Sig.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>B</td>
<td>Std. Error</td>
<td>Beta</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>(Constant)</td>
<td>1.555</td>
<td>.503</td>
<td>3.093</td>
</tr>
<tr>
<td></td>
<td>Credit risk management</td>
<td>.772</td>
<td>.191</td>
<td>3.834</td>
</tr>
<tr>
<td></td>
<td>practices</td>
<td></td>
<td>.754</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Liquidity risk management</td>
<td>.468</td>
<td>.127</td>
<td>3.597</td>
</tr>
<tr>
<td></td>
<td>practices</td>
<td></td>
<td>.501</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Compliance risk management</td>
<td>.214</td>
<td>.101</td>
<td>2.158</td>
</tr>
<tr>
<td></td>
<td>practices</td>
<td></td>
<td>.202</td>
<td></td>
</tr>
</tbody>
</table>

Source. Data analysis, 2017

This findings indicated that credit risk management practices had a greater influence on financial performance than liquidity risk management practices at significance level of p < 0.01. Compliance risk management practices was significant at p < 0.05. This is in line with Mwangi (2012) that some risk management practices do have significant effect on financial performance more than others. The findings are in agreement Kimari (2013) that there was a direct relationship between credit risk management practices and financial performance of SACCOs. It further agrees with Omino (2014) that the liquidity risk mitigation approaches adopted by different SACCOs had a significant effect on their financial performances.
CHAPTER FIVE
SUMMARY CONCLUSION AND RECOMMENDATIONS

5.1 Introduction
This chapter provides a summary of the findings, conclusions and recommendations. This section is guided by the three research objectives.

5.2 Summary of findings

Objective 1: Credit risk management practices and financial performance
The findings under this objective revealed that before loan approval, 87.6% of credit review teams in SACCOs checked the character of the borrowers, 90% checked collateral of the borrowers, 50% checked share capital and 93.3% checked borrower’s financial statements. Results also show that before loan disbursement, 83.3% of credit review teams checked individual credit exposure, 80% checked compliance with internal guidelines, 93.3% checked status of existing loan facility, 86.7% checked loan repayment history, 96.7% checked completeness of the loan application. Results further show that 90% of respondents agreed to have written loan collection policy, 96.6% agreed that loan collection policy apply equally to all borrowers, 76.7% that all loans are marked for close attention and 36.7% that a loan is considered delinquent if it is one day past due.

Objective 2: Liquidity management practices and financial performance
The findings under this objective show that 33.3% of the SACCOs were fairly vulnerable to liquidity risk, 30% were vulnerable while 26.7% were vulnerable while 10% were not vulnerable. This implied that most DTSs are vulnerable to liquidity risk in varying levels. Additionally, loan processing in 53.3% of the SACCOs took less than one week while 46.7% took between 1-4 weeks. Results of findings further revealed that 73% of SACCOs used credit payment management to a great extent followed by debtors’ collection
management at 68%, operating cash flow management at 39% and cash conversion cycle management at 30%.

**Objective 3: Compliance risk management and financial performance**

Result of compliance risk management revealed high compliance to corporate governance practices was at 68.4%, financial reporting at 65%, Sacco’s Society act 2008 at 63.3%, SACCOs by laws at 60%, assets quality ratios at 56.7%, statutes governing business operations at 53.3%, common laws of director’s duties and liabilities at 50% and capital adequacy at 36.7%. Generally the level of compliance was high indicating that risk can be detected early and mitigated promptly.

**Correlation and regression results**

Correlation analysis results show that the effect of both credit risk management practices, liquidity risk management practices and compliance risk management practices on financial performance were positive and significant. Results of the findings also revealed that the degree of association between credit management practices were higher at $r=0.762$ when compared to liquidity risk management practices at $r=0.425$ and compliance risk management practices at $r=0.346$.

From the regression analysis results, a unit increase in credit risk management practices result in 0.772 increase in the financial performance at $p < 0.01$, a unit increase in liquidity risk management practices result in 0.468 increase in the financial performance at $p < 0.01$, a unit increase in compliance risk management practices would result in 0.214 increase in financial performance at $p < 0.05$. The effect of credit risk management practices on financial performance of DTSs is higher when compared to liquidity risk management and compliance risk management.
5.3 Conclusions

Based on the findings this study concludes that most SACCOs had in place risk mitigation strategies which enabled risk identification, analysis, control, avoidance, minimization and elimination. This is because most SACCOs conducted credit reviews before loan approval, before loan disbursements and had in place written loan collection policies. They also had in place effective cash conversion cycle management, credit payment management, operating cash flow management and debtors’ collection management and also had high compliance to the SACCOs Society laws and policies and SASRA guidelines. The study further conclude that credit risk management practices had high effect on the financial performance indicated by the higher factor of 0.772 as compared to 0.468 and 0.214 for liquidity risk management and compliance risk management respectively. In general consistent and effective management of risks would improve financial performance hence the need for SACCOs to select and use appropriate risk management practices while ensuring continuous review and control.

5.4 Recommendations

Since the various risk management practices were found to have a significant but varying influence on financial performance of Deposit Taking Saccos in Uasin Gishu, this study recommends that SACCOs should ensure cost effective and timely risk identification, measurement, prioritization and mitigation measures to ensure increased financial performance. The study also recommends that the management of licensed Deposit Taking Saccos (DTSs) should strategically and continuously adopt effective and efficient credit appraisal, credit monitoring and debt collection practices to enhance to minimize cases of loan default so as to enhance profitability and financial performance. In this respect they should establish of a knowledgeable credit committee and credit department staff to monitor and evaluate properly the loan applications before approval and disbursement.
The study further recommends that SACCOs should establish trends of bad loans by identifying the economic sector that records higher bad loans and the factors that accounts for bad loans so as to reduce the risks in this sector. Additionally, SACCOs should aggressively mobilize members’ shares and ensure retention of earnings so as to grow their capital reserves to boost capital adequacy and meet the capital reserve requirement by SASRA. This would ensure that SACCOs have sufficient funds to meet credit obligations to clients and run the day to day operational costs. Finally, SACCOs should strive to ensure full compliance with SACCOs Society Act 2008, SASRA regulations on capital adequacy, asset quality, earning rating, liquidity rating, risk management, board composition and quality,

5.5 Suggestion for further research

The study recommends that a study be done on the relationship between specific aspects of compliance with SASRA regulation and financial performance. It further recommends that the study be done in more counties for comparative purposes so as to get a wider and critical view.
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APPENDICES

Appendix 1: Letter of Transmittal and Informed Consent

Jacob Ayieke Orao,
Kenyatta University,
P.O. Box 43844-00100, GPO, Nairobi

4th September 2017

Dear Sir/Madam,

RE: TO WHOM IT MAY CONCERN

I am Jacob Ayieke Orao, a student researcher from the Kenyatta University carrying out a survey seeking to analyze the effect of risk management on financial performance of Deposit Taking SACCOs in Kenya. In my schedule, I would be visiting your business company for a face-to-face interview with your selected board/committee and staff members as survey respondent on behalf of the company who been sampled for this purpose or fill in the questionnaire and return back whichever is applicable. The date, time of arrival and departure will be communicated to your company over cell phone or electronic mail communication. Kindly confirm this information is received and there will be time for interview not lasting more than 20 minutes.

I would appreciate if you would give me your views on the how risk management practices affect the financial performance of your SACCO Ltd as will be guided by a structured questionnaire. The answers you give will be treated in confidence and your identity will not be revealed to anyone.

Looking forward to your maximum cooperation in this regard; do you have any questions?

Yours Faithfully,
Jacob Ayieke Orao
D53/OL/27264/2013
Appendix 2: NACOSTI Research Permit
Appendix 3: Survey Questionnaire

I am a student undertaking Research from the Kenyatta University. My study seeks to Analyze the effect of risk management on financial Performance of Deposit Taking Saccos in Uasin Gishu. This is in partial fulfillment of my academic requirement for the award degree of Master of Business Administration (Finance). Your response to the following questions will be treated with utmost confidentiality and will be used for academic purposes only.

General Instructions:

*It is essential that every question be answered completely, accurately and in details by ticking or filling in where appropriate. Eligibility: Only registered Sacco members or authorized representatives.*

<table>
<thead>
<tr>
<th>Questionnaire Serial Number</th>
<th>Interview Date:</th>
</tr>
</thead>
</table>

**Section A : General Information**

<table>
<thead>
<tr>
<th>A1. Name of Respondent (Optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A2. Mobile Number of respondent</td>
</tr>
<tr>
<td>A3. Gender of Respondent 1=Male 2=Female</td>
</tr>
<tr>
<td>A4. Please indicate your designation in the SACCO? 1= General Manager  5= Chief Cashier</td>
</tr>
<tr>
<td>2= Finance Officer  6= Accountant</td>
</tr>
<tr>
<td>3= Credit Officer  7= Risk Manager</td>
</tr>
<tr>
<td>4= Marketing Officer  8= other specify...</td>
</tr>
</tbody>
</table>

| A5. What form of ownership do you have in your Sacco? 1=Sacco shares  3=FOSA Account |
| 2= Housing investment  4= Member deposits |

| A6. How long have you been in the Sacco Society Limited? 1=Less than 5 years  2= 5-10 years |
| 3= Above 10 years |

| A7i. Does the SACCO have risk mitigation strategies? 1=Yes 2=No |

<table>
<thead>
<tr>
<th>A7ii. If Yes in A7i above, which risk mitigation strategies did your organization use?............</th>
</tr>
</thead>
</table>
**Section B: Credit Risk Management**

**B1.** What do your credit team check during borrower credit review? Indicate as to whether you A=Agree or D=Disagree (tick as appropriate in the box)

<table>
<thead>
<tr>
<th>What is checked by credit team</th>
<th>A</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>1=The character of the borrower</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2=Collateral of borrower</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3=Share capital</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4=Prevailing financial condition</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**B2i.** What does your credit team check before disbursing credit to borrowers account after loan approval? Indicate as to whether you A=Agree or D=Disagree (tick as appropriate in the box)

<table>
<thead>
<tr>
<th>What is checked by credit team</th>
<th>A</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>1=Individual credit exposure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2=Compliance with internal guidelines</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3=Completeness of loan application</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4=other specify…….</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**B2ii.** What do your credit team check after approval and disbursement of loan to borrowers account? Indicate as to whether you A=Agree or D=Disagree (tick as appropriate in the box)

<table>
<thead>
<tr>
<th>What is checked by credit team</th>
<th>A</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>1=Loan being paid in time</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2=Status of loan</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3=other specify…….</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**B3.** What guides your loan collection? Indicate as to whether you A=Agree or D=Disagree (tick as appropriate in the box)

<table>
<thead>
<tr>
<th>What is checked by credit team</th>
<th>A</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>1=Written loan collection policy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2=Collection policies apply equally to all borrowers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3=All loans are marked for close attention</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4=A loan is considered delinquent if it is one day past due.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5=All loan are subject to penalties after a specified number of days of delinquency</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6=Other specify…..</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
B4 How would you describe the effect of credit risk management practises in B1, B2 and B3 above on financial performance of your SACCO?

<table>
<thead>
<tr>
<th></th>
<th>1 = Very High</th>
<th></th>
<th>3 = Moderate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

B5. Please give reasons for your response in B4 above

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
</table>

Section C: Liquidity Risk Management

C1. How vulnerable is the cooperative Sacco to liquidity risk?

<table>
<thead>
<tr>
<th></th>
<th>1 = Very Vulnerable</th>
<th></th>
<th>3 = Fairly Vulnerable</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

C2. How long does it take to process credit?

<table>
<thead>
<tr>
<th></th>
<th>1 = one day</th>
<th></th>
<th>3 = One month</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

C3. What is the maximum average duration do you allow for salary advances?

<table>
<thead>
<tr>
<th></th>
<th>1 = one month</th>
<th></th>
<th>3 = one year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

C4. To what extent do your Sacco use the following liquidity risk mitigation measures to ensure its performance? Indicate as to whether it is Great extent = GE, Moderate extent = ME, Small Extent = SE, Not at all = NA

<table>
<thead>
<tr>
<th></th>
<th>GE</th>
<th>ME</th>
<th>SM</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

C5. How would you describe the effect liquidity risk management practises in C4 above affect financial performance of your SACCO?

<table>
<thead>
<tr>
<th></th>
<th>1 = Very High</th>
<th></th>
<th>3 = Moderate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Section D: Compliance Risk Management

D1. In your opinion to what extent does compliance risk management affect financial performance of your organization?

<table>
<thead>
<tr>
<th>1=Great extent</th>
<th>2=Moderate extent</th>
<th>3=Small extent</th>
<th>4=Not at all</th>
</tr>
</thead>
</table>

Give reasons for the response in D1

……………………………………………………………………………………………………
……………………………………………………………………………………………………

D2. How does compliance with the following policies, laws and regulations affect the financial performance of your organization (Indicate as to whether it is High = H, Moderate = M, Low = L)

<table>
<thead>
<tr>
<th>Policy/Policy</th>
<th>H</th>
<th>M</th>
<th>L</th>
</tr>
</thead>
<tbody>
<tr>
<td>SACCO Societies Act 2008</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Financial reporting (monthly/quartely/annually)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common laws of directors duties and liabilities</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Statutes governing business operations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corporate governance practices</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Section E: Financial Performance

E1. How effective is profitability in determining financial performance?

<table>
<thead>
<tr>
<th>1=Very Effective</th>
<th>2=Effective</th>
<th>3=Less effective</th>
</tr>
</thead>
</table>

E2. Please give reasons for you answer in E1 above

……………………………………………………………………………………………………
……………………………………………………………………………………………………
……………………………………………………………………………………………………

E3. By what percentage range did the profitability of your organization improve in the last three years? Tick appropriately

<table>
<thead>
<tr>
<th>Percentage Range</th>
<th>1 = &lt; 10%</th>
<th>2 = 10-20%</th>
<th>3 &gt; 20%</th>
</tr>
</thead>
</table>

E4. What is your opinion on improving the financial performance in the SACCO sub sector in Kenya

……………………………………………………………………………………………………
……………………………………………………………………………………………………
……………………………………………………………………………………………………

Thank You Very Much for Your Cooperation in This Regard
Appendix 4: List of Deposit Taking Saccos in Uasin Gishu and their Performance

<table>
<thead>
<tr>
<th>No.</th>
<th>Name Of DTS</th>
<th>Total Assets (Kshs. Millions)</th>
<th>Total Deposits(Kshs. Millions)</th>
<th>Net Loans(Kshs. Millions)</th>
<th>Turn Over(Kshs. Millions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Mwalimu National SACCO</td>
<td>37,410.25</td>
<td>27,784.71</td>
<td>24,822.94</td>
<td>4,972.21</td>
</tr>
<tr>
<td>2.</td>
<td>Stima SACCO</td>
<td>24,481.93</td>
<td>19,017.99</td>
<td>21,027.73</td>
<td>3,404.20</td>
</tr>
<tr>
<td>3.</td>
<td>Harambee SACCO</td>
<td>22,009.20</td>
<td>14,534.15</td>
<td>17,427.38</td>
<td>2,364.44</td>
</tr>
<tr>
<td>4.</td>
<td>Kenya Police SACCO</td>
<td>20,024.39</td>
<td>13,663.06</td>
<td>16,428.44</td>
<td>3,125.57</td>
</tr>
<tr>
<td>5.</td>
<td>Afya SACCO</td>
<td>14,820.43</td>
<td>11,674.61</td>
<td>11,552.05</td>
<td>2,161.48</td>
</tr>
<tr>
<td>6.</td>
<td>Ukulima SACCO</td>
<td>9,975.27</td>
<td>7,372.40</td>
<td>7,530.56</td>
<td>1,074.58</td>
</tr>
<tr>
<td>7.</td>
<td>Boresha SACCO</td>
<td>4,941.54</td>
<td>2,824.46</td>
<td>3,768.24</td>
<td>764.92</td>
</tr>
<tr>
<td>8.</td>
<td>Magereza SACCO</td>
<td>4,190.50</td>
<td>3,147.86</td>
<td>2,896.32</td>
<td>553.59</td>
</tr>
<tr>
<td>9.</td>
<td>Noble SACCO</td>
<td>1,530.88</td>
<td>1,157.06</td>
<td>1,189.06</td>
<td>261.46</td>
</tr>
<tr>
<td>10.</td>
<td>Moi University SACCO</td>
<td>1,437.21</td>
<td>563.06</td>
<td>485.37</td>
<td>31.66</td>
</tr>
<tr>
<td>11.</td>
<td>Baraton University SACCO</td>
<td>114.34</td>
<td>72.13</td>
<td>86.30</td>
<td>19.64</td>
</tr>
<tr>
<td>12.</td>
<td>Ainabkoi SACCO</td>
<td>91.02</td>
<td>62.06</td>
<td>13.63</td>
<td>4.59</td>
</tr>
</tbody>
</table>

Source: The Sacco Annual Supervision report, 2016