The Impact of Credit Risk Management on Financial Performance of Commercial Banks in Kenya

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This study analysed the impact of credit risk management on the financial performance of commercial banks and also attempted to establish if there exists any relationship between the credit risk management determinants by use of CAMEL indicators and financial performance of commercial banks in Kenya. A causal research design was undertaken in this study and this was facilitated by the use of secondary data which was obtained from the Central Bank of Kenya publications on banking sector survey. The study used multiple regression analysis in the analysis of data and the findings have been presented in the form of tables and regression equations. The study found out that there is a strong impact between the CAMEL components on the financial performance of commercial banks. The study also established that capital adequacy, asset quality, management efficiency and liquidity had weak relationship with financial performance (ROE) whereas earnings had a strong relationship with financial performance. This study concludes that CAMEL model can be used as a proxy for credit risk management.

Key Words: Credit Risk, Management, Financial Performance, Commercial Banks, Kenya

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Introduction

Credit risk is defined as the potential that a bank borrower or counterparty will fail to meet its obligations in accordance with agreed terms. According to Chijoriga (1997) credit risk is the most expensive risk in financial institutions and its effect is more significant as compared to other risk as it directly threatens the solvency of financial institutions. The magnitude and level of loss caused by the credit risk as compared to other kind of risks is severe to cause high level of loan losses and even bank failure. While financial institutions have faced difficulties over the years for a multitude of reasons, the major cause of serious banking problems continues to be directly related to lax credit standards for borrowers and counterparties, poor portfolio risk management, or a lack of attention to changes in economic or other circumstances that can lead to a deterioration in the credit standing of a bank’s counterparties (Basel, 1999).

Loans are the largest source of credit risk to commercial banks. However, other sources of credit risk exist throughout the activities of a bank, including in the banking book and in the trading book, and both on and off the balance sheet. Banks are increasingly facing credit risk (or counterparty risk) in various financial instruments other than loans, including acceptances, interbank transactions, trade financing, foreign exchange transactions, financial futures, swaps, bonds, equities, options, and in the extension of commitments and guarantees, and the settlement of transactions. The goal of credit risk management is to maximise a bank’s risk adjusted rate of return by maintaining credit risk exposure within acceptable parameters. Banks need to manage the credit risk inherent to the entire portfolio as well as the risk in individual credits as transactions (Sinkey, 1992).

Credit risk management should be at the centre of banks operations in order to maintain financial sustainability and reaching more clients. Despite these facts, over the years there has been increased number of significant bank problems in both, matured as well as emerging economies (Brownbridge and Harvey, 1998; Basel, 2004). Bank problems, mostly failures and financial distress have afflicted numerous banks, many of which have been closed down by the regulatory authorities (Brownbridge and Harvey, 1998). Among other factors, weakness in credit risk management has all along been cited as the main cause for bank problems (Richard et al., 2008 and Chijoriga, 1997). Since exposure to credit risk continues to be the leading source of problems in banks world-wide, banks and their supervisors should be able to draw useful lessons from past experiences. Banks should now have a keen awareness of the need to identify, measure, monitor and control credit risk as well as to determine that they hold adequate capital against these risks and that they are adequately compensated for risks incurred (Basel, 1999).

Pazarbasioglu (1999) believes that the best warning signs of financial crises are proxies for the vulnerability of the banking and corporate sector. He adds that the most obvious indicators that can be used to predict banking crises are those that relate directly to the soundness of the banking
system. In the 1980's and early 1990's, several countries in developed, developing and transition economies experienced several banking crises requiring a major overhaul of their banking systems (IMF, 1998). As the banking sector continues to embrace innovations, the intensity and variety of risks that the players are exposed also continue to increase in tandem. To ensure that the growth in the banking sector does not jeopardize its stability, risk management is crucial.

In view of this, the CBK carried out a risk management survey on the Kenyan banking sector in September 2004. The survey’s objective was to determine the needs of the local banking sector with regard to risk management. The survey was necessitated by the drive to fully adopt Risk Based Supervision and to incorporate the international risk management best practices envisioned in the 25 Basel Core Principles for Effective Banking Supervision. The survey culminated in the issuance of the Risk Management Guidelines (RMGs) in 2005 and the adoption of the Risk Based Supervision approach of supervising financial institutions in 2005. In response to this, commercial banks embarked upon an upgrading of their risk management and control systems (CBK, 2005).

In order to assess the adequacy and impact of the Risk Management Guidelines, 2005 on Kenyan banking institutions, CBK issued risk management survey 2010. The goal of the CBK risk management survey 2010 was to determine whether the RMGs issued in 2005 have had any impact on the institutions and as to whether the RMGs are adequate, as well as establishing the necessary amendments and/or additions that needed to be introduced to ensure that the RMGs remained relevant, current and reflective of circumstances in the operating environment. Their finding was that generally the institutions revealed that the Risk Management Guidelines issued in 2005 had, for the majority of them; enhanced risk-awareness and risk-management at the institutions, increased the efficiency and effectiveness of risk management, helped reduce financial losses, led to the establishment of effective and better-resourced risk management functions, and enhanced the overall decision making processes in their institutions (CBK, 2010).

Credit Risk Management Measurement

Operating and financial ratios have long been used as tools for determining the condition and the performance of a firm. Modern early warning models for financial institutions gained popularity when Sinkey (1975) utilized discriminant analysis for identifying and distinguishing problem banks from sound banks and Altman (1977) examined the savings and loan industry. To anticipate banks’ financial deterioration, procedures have been developed to identify banks approaching financial distress. These procedures, though varying from country-to-country, are designed to generate financial soundness ratings and are commonly referred to as the CAMEL rating system (Gasbarro et al., 2002). In Kenya, the Central Bank also applies the CAMEL rating system to assess the soundness of financial institutions which is an acronym for Capital Adequacy, Asset Quality, Management Quality, Earnings and Liquidity (CBK, 2010). Numerous prior studies have examined the efficacy of CAMEL ratings and they generally
conclude that publicly available data combined with regulatory CAMEL ratings can identify and/or predict problem or failed banks (Gasbarro et al., 2002). Internal factors have been identified as the most important causes of troubled banks, commencing with Sinkey (1979) and most recently Hanc (1998). In particular, Sinkey points out that the internal factors causing bank failures are decisions over which the managers and directors of the bank have direct control.

This study was guided by the following objectives:

i. To analyse the impact of credit risk management on the financial performance of commercial banks in Kenya.

ii. To establish if there exists a relationship between the credit risk management determinants and the performance of commercial banks in Kenya.

METHODS

This research problem was studied through the use of causal research design. The target population for this study constituted 42 commercial banks registered and operational as at 31st December, 2011 licensed to carry out banking business in Kenya under the Banking Act Cap. 488. A population census was applied in this study. However, commercial bank(s) which were not in operation for the entire 5 year period or under receivership were dropped due to incompleteness of the records or missing data. This research used secondary data which was collected from the CBK publications on banking sector survey and the respective banks’ financial statements for the period of analysis 2006-2010. The data analysis method used was based on Pearson correlation analysis and a multiple regression model which took the form of:

\[ Y = \beta_0 + \beta_1X_1 + \beta_2X_2 + \beta_3X_3 + \beta_4X_4 + \beta_5X_5 + \epsilon \]

Where: \( Y \) = Dependent variable \( X_1, X_2, X_3, X_4 \) and \( X_5 \) = Independent variables \( \beta_0 \) = Constant \( \beta_1, \beta_2, \beta_3, \beta_4, \beta_5 \) = Regression coefficients or change included in Y by each X value \( \epsilon \) = error term

The dependent variable was the financial performance of the banks whereas the independent variables were the CAMEL components of Capital adequacy, Asset quality, Management efficiency, Earnings and Liquidity.

RESULTS AND DISCUSSION

Correlation Coefficient

As a key assumption of regression model, the study sought to establish whether there was linearity between independent and dependent variables. The average values of the datasets were used for the five year period (2006 – 2010). The results are presented on table 4.1 below.
Pearson correlation was used to analyse the correlations between the variables and financial performance. Table 1 reveals the correlation coefficients between the variables and financial performance. Table 1 shows that capital adequacy has a correlation coefficient of -0.25 at p=0.035 with financial performance. The correlation coefficient between asset quality and financial performance is (R=-0.324) at p=0.041. Management quality also has correlation with financial performance given R values of -0.512 at p=0.001. A correlation was also established between earnings quality and ROE at 95% confidence levels with R values of 0.89 at p<0.001. A correlation was also observed between liquidity and financial performance of 0.362 at p=0.022.

**Goodness of Fit Statistics**

Table 1: Regression Model Goodness of Fit

<table>
<thead>
<tr>
<th>Year</th>
<th>R</th>
<th>R Squared</th>
<th>Adjusted Squared</th>
<th>Std. Error of the Estimate</th>
<th>Durbin-Watson</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006</td>
<td>.912a</td>
<td>0.832</td>
<td>0.807</td>
<td>4.171811</td>
<td>2.077</td>
</tr>
<tr>
<td>2007</td>
<td>.771a</td>
<td>0.594</td>
<td>0.534</td>
<td>6.601744</td>
<td>2.044</td>
</tr>
<tr>
<td>2008</td>
<td>.949a</td>
<td>0.901</td>
<td>0.887</td>
<td>4.06234</td>
<td>1.756</td>
</tr>
<tr>
<td>2009</td>
<td>.971a</td>
<td>0.943</td>
<td>0.935</td>
<td>3.173106</td>
<td>1.902</td>
</tr>
<tr>
<td>2010</td>
<td>.929a</td>
<td>0.862</td>
<td>0.842</td>
<td>4.148072</td>
<td>1.763</td>
</tr>
</tbody>
</table>

Source: Research data
a. Predictors: (Constant), Liquidity, Management Quality, Earnings Quality (ROA), Capital Adequacy, Asset Quality
b. Dependent Variable: ROE

Table 2 illustrates that the strength of the relationship between financial performance and independent variables (liquidity, management quality, earnings quality (ROA), capital adequacy and asset quality). The correlations results depicted a linear relationship between the dependent and the independent variables aggregates with R having lowest values of 0.771 in 2007 and highest values of 0.971 in 2009. The determination coefficients, denoted by $R^2$ had higher values of 0.912, 0.949, 0.971 and 0.929 in the years 2006, 2008, 2009 and 2010 respectively.

The study also used Durbin Watson (DW) test to check that the residuals of the models were not auto correlated since independence of the residuals is one of the basic hypotheses of regression analysis. Being that the DW statistics were close to the prescribed value of 2.0 for residual independence, it can be noted that there was no autocorrelation.

**Multicollinearity Test**

The study conducted formal detection-tolerance or the variance inflation factor (VIF) for multicollinearity. For tolerance, value less than 0.1 suggest multicollinearity while values of VIF that exceed 10 are often regarded as indicating multicollinearity. The average data for the 5 year period was used.

<table>
<thead>
<tr>
<th>Tolerance</th>
<th>VIF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capital Adequacy</td>
<td>.768</td>
</tr>
<tr>
<td>Asset Quality</td>
<td>.752</td>
</tr>
<tr>
<td>Management Quality</td>
<td>.675</td>
</tr>
<tr>
<td>Earnings</td>
<td>.987</td>
</tr>
<tr>
<td>Liquidity</td>
<td>.876</td>
</tr>
</tbody>
</table>

Source: Research data

Table 3 shows that the values of tolerance were greater than 0.1 and those of VIF were less than 10. This shows lack of multicollinearity among independent variables. It, therefore, omitting variables with insignificant regression coefficients, would be in appropriate.
**Regression Analysis - 2006**

### 4: Regression Coefficients - 2006

<table>
<thead>
<tr>
<th></th>
<th>Unstandardized Coefficients</th>
<th>Standardized Coefficients</th>
<th>( t )</th>
<th>Sig.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>(Constant)</strong></td>
<td>8.790</td>
<td>4.438</td>
<td>1.980</td>
<td>.056</td>
</tr>
<tr>
<td>Capital Adequacy</td>
<td>-.102</td>
<td>.079</td>
<td>-.099</td>
<td>-1.292</td>
</tr>
<tr>
<td>Asset Quality</td>
<td>-.282</td>
<td>.068</td>
<td>-.300</td>
<td>-4.136</td>
</tr>
<tr>
<td>Management Efficiency</td>
<td>-28.709</td>
<td>56.970</td>
<td>-.042</td>
<td>-.504</td>
</tr>
<tr>
<td>Earning Quality</td>
<td>4.326</td>
<td>.461</td>
<td>.738</td>
<td>9.378</td>
</tr>
<tr>
<td>Liquidity</td>
<td>8.403</td>
<td>15.186</td>
<td>.043</td>
<td>.553</td>
</tr>
</tbody>
</table>

Source: Research data

The established regression equation for year 2006:

\[
\text{ROE} = 8.790 - 0.102\times \text{Capital Adequacy} - 0.282\times \text{Asset Quality} - 28.709\times \text{Management Efficiency} + 4.326\times \text{Earnings} + 8.403\times \text{Liquidity}.
\]

Table 4 reveals the regression coefficients for the year 2006. Table 4.4 shows that holding capital adequacy, asset quality, management efficiency, earnings and liquidity constant financial performance will be 8.790. Capital adequacy, asset quality and management efficiency all had negative coefficients of -0.102, -0.282 and -28.709 respectively. Earnings quality had a positive coefficient of 4.326 and liquidity also had a positive coefficient of 8.403.

**Regression Analysis - 2007**

### Table 5: Regression Coefficients – 2007

<table>
<thead>
<tr>
<th></th>
<th>Unstandardized Coefficients</th>
<th>Standardized Coefficients</th>
<th>( t )</th>
<th>Sig.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capital Adequacy</td>
<td>-.009</td>
<td>.049</td>
<td>-.028</td>
<td>-.178</td>
</tr>
<tr>
<td>Asset Quality</td>
<td>-.261</td>
<td>.093</td>
<td>-.385</td>
<td>-2.796</td>
</tr>
<tr>
<td>Management Efficiency</td>
<td>20.600</td>
<td>98.166</td>
<td>.029</td>
<td>.210</td>
</tr>
<tr>
<td>Earning Quality</td>
<td>2.764</td>
<td>.581</td>
<td>.719</td>
<td>4.755</td>
</tr>
<tr>
<td>Liquidity</td>
<td>.796</td>
<td>22.593</td>
<td>.005</td>
<td>.035</td>
</tr>
</tbody>
</table>

Source: Research data

The established regression equation for year 2007:

\[
\text{ROE} = 12.414 - 0.009\times \text{Capital Adequacy} - 0.261\times \text{Asset Quality} + 20.6\times \text{Management Efficiency} + 2.764\times \text{Earnings} + 0.796\times \text{Liquidity}.
\]
Table 5 shows the regression coefficients for the year 2007. Table 5 reveals that holding independent variables constant (capital adequacy, asset quality, management efficiency, earnings and liquidity), financial performance will be 12.414. Capital adequacy had a negative coefficient of -0.009 and asset quality also had a negative coefficient of -0.261. Management efficiency, earnings quality and liquidity all had positive coefficients of 20.600, 2.764 and 0.796 respectively.

**Regression Analysis - 2008**

**Table 6: Regression Coefficients – 2008**

<table>
<thead>
<tr>
<th></th>
<th>Unstandardized Coefficients</th>
<th>Standardized Coefficients</th>
<th>T</th>
<th>Sig.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Constant)</td>
<td>13.214</td>
<td></td>
<td>2.935</td>
<td>.006</td>
</tr>
<tr>
<td>Capital Adequacy</td>
<td>-21.850</td>
<td>-.227</td>
<td>-3.669</td>
<td>.001</td>
</tr>
<tr>
<td>Asset Quality</td>
<td>-.119</td>
<td>-.119</td>
<td>-1.963</td>
<td>.058</td>
</tr>
<tr>
<td>Management Efficiency</td>
<td>-88.597</td>
<td>-.115</td>
<td>-1.652</td>
<td>.108</td>
</tr>
<tr>
<td>Earning Quality</td>
<td>5.473</td>
<td>.868</td>
<td>14.094</td>
<td>.000</td>
</tr>
<tr>
<td>Liquidity</td>
<td>-.684</td>
<td>-.011</td>
<td>-.160</td>
<td>.874</td>
</tr>
</tbody>
</table>

Source: Research data

The established regression equation for year 2008:

\[
\text{ROE} = 13.214 - 21.85\times \text{Capital Adequacy} - 0.119\times \text{Asset Quality} - 88.597\times \text{Management Efficiency} + 5.473\times \text{Earnings Quality} - 0.684\times \text{Liquidity}.
\]

Table 6 depicts the regression coefficients for the year 2008. Table 6 illustrates that financial performance will be 13.214 if the independent variables (capital adequacy, asset quality, management efficiency, earnings and liquidity) are held constant. All the independent variables had negative coefficients except for earnings quality with Capital adequacy, asset quality, management efficiency and liquidity having negative coefficients of -21.850, -0.119, -88.597 and -0.684 respectively. Earnings quality had a positive coefficient of 5.473.
Regression Analysis - 2009

Table 7: Regression Coefficients - 2009

<table>
<thead>
<tr>
<th>Item</th>
<th>Unstandardized Coefficients</th>
<th>Standardized Coefficients</th>
<th>T</th>
<th>Sig.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Constant)</td>
<td>6.129</td>
<td>1.799</td>
<td>3.407</td>
<td>.002</td>
</tr>
<tr>
<td>Capital Adequacy</td>
<td>-.149</td>
<td>-.163</td>
<td>-3.582</td>
<td>.001</td>
</tr>
<tr>
<td>Asset Quality</td>
<td>-.054</td>
<td>-.038</td>
<td>-.744</td>
<td>.462</td>
</tr>
<tr>
<td>Management Efficiency</td>
<td>-46.856</td>
<td>-.061</td>
<td>-1.277</td>
<td>.210</td>
</tr>
<tr>
<td>Earning Quality</td>
<td>6.316</td>
<td>.941</td>
<td>17.533</td>
<td>.000</td>
</tr>
<tr>
<td>Liquidity</td>
<td>4.983</td>
<td>.012</td>
<td>.274</td>
<td>.786</td>
</tr>
</tbody>
</table>

Source: Research data

The established regression equation for year 2009:

\[ \text{ROE} = 6.129 - 0.149 \times \text{Capital Adequacy} - 0.054 \times \text{Asset Quality} - 46.856 \times \text{Management Efficiency} + 6.316 \times \text{Earnings Quality} + 4.983 \times \text{Liquidity}. \]

Table 7 depicts the regression coefficients for the year 2009. Table 7 shows that holding capital adequacy, asset quality, management efficiency, earnings and liquidity constant financial performance will be 6.129. Capital adequacy, asset quality and management efficiency all had negative coefficients of -0.149, -0.054 and -46.856 respectively. Earnings quality had a coefficient of 6.316 and liquidity 4.983.

Regression Analysis - 2010

Table 8: Regression Coefficients - 2010

<table>
<thead>
<tr>
<th>Item</th>
<th>Unstandardized Coefficients</th>
<th>Standardized Coefficients</th>
<th>T</th>
<th>Sig.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Constant)</td>
<td>8.416</td>
<td>2.759</td>
<td>3.050</td>
<td>.004</td>
</tr>
<tr>
<td>Capital Adequacy</td>
<td>-16.913</td>
<td>-0.214</td>
<td>-3.011</td>
<td>.005</td>
</tr>
<tr>
<td>Asset Quality</td>
<td>-.079</td>
<td>-.060</td>
<td>-.766</td>
<td>.449</td>
</tr>
<tr>
<td>Management Efficiency</td>
<td>-97.887</td>
<td>-0.123</td>
<td>-1.716</td>
<td>.095</td>
</tr>
<tr>
<td>Earning Quality</td>
<td>5.737</td>
<td>.894</td>
<td>12.024</td>
<td>.000</td>
</tr>
<tr>
<td>Liquidity</td>
<td>18.387</td>
<td>.040</td>
<td>.566</td>
<td>.575</td>
</tr>
</tbody>
</table>

Source: Research data

The established regression equation:

\[ \text{ROE} = 8.416 - 16.913 \times \text{Capital Adequacy} - 0.079 \times \text{Asset Quality} - 97.887 \times \text{Management Efficiency} + 5.737 \times \text{Earnings Quality} + 18.387 \times \text{Liquidity}. \]

P<0.001
Table 8 shows the regression coefficients for the year 2010. Table 8 reveals that holding capital adequacy, asset quality, management efficiency, earnings and liquidity constant financial performance will be 8.416. Capital adequacy, asset quality and management efficiency all had negative coefficients of -16.913, -0.079 and -97.887 respectively. Earnings quality had a positive coefficient of 5.737 and liquidity also had a positive coefficient of 18.387.

**Impact of Credit Risk Management Determinants on the Financial Performance of Commercial Banks in Kenya**

The study found that there is a significant impact between the CAMEL components on the financial performance of commercial banks as depicted on Table 2 which shows the regression model of goodness fit for the respective years under study. From Table 2, the value for $R^2$ is 0.832 in the year 2006, which means that CAMEL components explain 83.2 percent variations in the financial performance of banks. 2007 has the lowest value of $R^2$ at 0.594 which means that CAMEL components explain 59.4 percent variations of the financial performance of banks. Similarly years 2008, 2009 and 2010 have $R^2$ values of 0.901, 0.943 and 0.862 implying that CAMEL components explain 90.1 percent, 94.3 percent and 86.2 percent variations of financial performance of banks respectively. The CAMEL rating system can thus be used as a credit risk management indicator in the determination of financial performance of commercial banks.

Analysis from tables 4 to 8 shows the regression coefficients for the years 2006 to 2010 and it was established that the intercept value was positive ranging from the lowest value of 6.129 in 2009 to 13.214 in 2008. Table 4 depicts that a unit increase in capital adequacy will lead to a decrease in financial performance by 0.102, a unit increase in asset quality will lead to a decrease in financial performance by a factor of 0.282 and a unit increase in management efficiency will further lead to a 28.709 decrease in financial performance. Table 4 also implies that a unit increase in earnings quality of the company will cause a 4.326 increase in financial performance whereas a unit increase in liquidity will cause an 8.403 increase in financial performance.

Table 5 depicts that a unit increase in capital adequacy will cause a 0.009 decrease in financial performance and a unit increase in asset quality will lead to a 0.261 decrease in financial performance. Table 4.5 also reveals that that a unit increase in management quality will lead to a decrease in financial performance by 88.597. An increase in earnings quality
would lead to a 5.473 increase in financial performance and a negative increase of 0.684 in financial performance is obtained with unitary increase in liquidity.

Table 7 reveals that a unit increase in capital adequacy will cause a 0.149 decrease in financial performance and a unit increase in asset quality will lead to a 0.054 decrease in financial performance. A unit increase in management efficiency will lead to a 46.856 decrease in financial performance and a unit increase in earnings quality will lead to a 0.054 decrease in financial performance. Likewise a unit change in liquidity would cause a 4.983 positive change in financial performance.

Table 8 depicts that a unit increase in capital adequacy will lead to a decrease in financial performance by 16.913, a unit increase in asset quality will lead to a decrease in financial performance by a factor of 0.079 and a unit increase in management efficiency will further lead to a 97.887 decrease in financial performance. Table 8 also implies that a unit increase in earnings quality of the company will cause a 5.737 increase in financial performance. While a unit increase in liquidity will cause an 18.387 increase in financial performance.

**Conclusion**

The study established that credit risk management by use of CAMEL indicators has a strong impact on the financial performance of commercial banks in Kenya. This study therefore concludes that CAMEL model can be used as a proxy for credit risk management. The CAMEL indicators in this study had strong impact on the financial performance with the CAMEL components being able to explain variations of up to 94.3 percent in 2009 on financial performance of commercial banks.

The study also established the relationship between credit risk management proxied by CAMEL indicators and financial performance of commercial banks in Kenya. The study concludes that capital adequacy, asset quality, management efficiency and liquidity have weak relationship with financial performance of banks in Kenya. Earnings have a strong relationship with financial performance.
This is because earnings as proxied by return on assets determine the ability of a bank to increase capital (through retained earnings), absorb loan losses, support the future growth of assets, and provide a return to investors. Thus, as each shilling invested in assets increases its revenues generation, the financial performance of banks increase.

The study recommends that commercial banks should also try to keep their operational cost low as this negates their profits margin thus leading to low financial performance. This is depicted by the strong effect of earnings on financial performance. Commercial banks should also check their credit policy and practices. By this they would reduce loss on non-performing loans which raises their expenses and consequent reduction in financial performance.

The study suggests that a further study can be done on the impact of credit risk management by use of CAMEL indicators on the financial performance of other financial institutions like the micro finance institutions (MFIs) and SACCOs. This is to ascertain if the CAMEL model can be applied as a proxy for credit risk management on the other financial institutions in the Kenyan market. Further studies can also be undertaken on risk management practices followed by commercial banks in Kenya whereby the study will aim to investigate on the awareness about risk management practices within the banking sector. The study can comprise of data collected through both, primary as well as secondary sources with the purpose of using primary source data being to check the extent to which different risk management practices have been followed by the commercial banks through the use of a questionnaires whereas, the objective to use secondary data will be to link the risk weighted Capital Adequacy Ratio (CAR) to the different financial indicators of the commercial banks that are used to measure the banks’ financial soundness.

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