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### **RESEARCH ARTICLE**

# An Empirical Analysis of Employee Engagement on Employee Performance in Technical Institutions in Kenya

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### Abstract

Purpose The purpose of this paper was to examine the influence of employee engagement on employee performance in technical institutions in Kenya. The study therefore, sought to establish the influence of employee engagement on employee performance. Methodology The paper adopts regression model to test the effect of employee engagement on employee performance Findings –The study findings revealed that there is a positive and significant relationship between employee engagement and employee performance ( $\beta$ =.338; t=6.366; p<.05). Limitations/implications Given that the study looked at, employee engagement and employee performance at one point in time, longitudinal time span research is recommended to provide more insights on these variables. A longitudinal approach may also help in improving the models ability to make causal statements. Theoretical implications - The study contributes to theory by analysing empirically the extent of the relationship between employee engagement and employee performance. Originality/value this is the first study that focuses on testing the influence of employee engagement on employee performance in technical institutions in Kenya.

Keywords: Employee engagement, Employee performance, Technical institutions.

### Introduction

Management of human resources has long been considered as an important component of any organization .This is because people add value to organizations through their knowledge, skills and capabilities. Human capital theory posits that people add value to the organisation through their knowledge, skills, experiences, talents and intelligent quotient [1, 2].

Anitha [3] concurs with resource based view and knowledge based view and acknowledges that people is one resource that cannot be duplicated or imitated by competitors and is considered the most valuable if asset managed and engaged properly in appropriate tasks. The theory underpins the philosophies of human resource management and human capital management which have employee engagement as a critical component in performance. Employee performance is an indicator which measures how well an employee accomplishes the set targets in line with organizational objectives. Improving

employee performance and overall organization performance is the focus of every manager in an organization. [4,5] asserted that it is important for an organization to establish a comprehensive measurement index that provides managers and staff with clear directions through the set goals.Evidence show that organisations with superior performance actively engages their employees [6-12].

However empirical results on employee engagement and employee performance show contradicting results both at employee level and organization level. The link between employee engagement and employee performance was sharply contrasted by Murphy [13] in his study which linked employee engagement scores and employee appraisal scores. Murphy found that workers who were deemed to be low performers in their annual review scored higher than those employees who were viewed as high performers. He further established that

employees highly engaged were low performers and that those employees who were low in engagement were high performers. Jaupi and Llaci, [14] in their study 'Employee Engagement and its Relation with Key Economic Indicators' established that in Albania, the region that reported the lowest income per capita (GDP 24%), had the most employees engaged (76.4%).

These findings indicate a sharp contrast to years of research linking high employee engagement to increased emplovee performance, productivity, profitability and overall organizational performance. This implies that more research is needed to explore the concept of employee engagement because of contradicting findings. The contrasting findings by researchers motivated this study. Naicker [15] Nazem, Mozaiini and Seifi [16] agree that most empirical studies on employee engagement and have been done in developed economies and thus need for more studies in developing economies with varving institutions. demographics and cultural context.

This stream of thought is further extended by Basu and Sengupta [17], Hussain [18] Nasiruzzaman, Qudaih and Ahmad [15] who acknowledge that relatively few studies have focused on the concept of knowledge management achieved through employee engagement and thus employee performance in learning institutions particularly in Vocational Education Technical. and Training (TVET). Technical. Vocational Education and Training (TVET) provides learners with the technical skills. A World Integrating TVET into the Bank report on knowledge economy in Middle East and North Africa (MENA) region covered Egypt, Jordan, Lebanon and Tunisia and one of the recommendations of the report was to refocus the role of TVET as an instrument for the knowledge economy in order to provide highly skilled and knowledgeable individuals of different ages, with experience to meet the demands of the dynamic labor market [19].

Afeti [20] and World Bank [19] pointed out the challenges facing TVET institutions in Africa and asserted that TVET is back on the development agenda of many African countries. Ministry of Education Science and Technology pointed out that to become industrialized, Kenya requires the technical competencies from TVET institutions that match the requirements of the knowledge economy and this can be partly achieved by engaging employees to enhance retention and thus high performance. Kenya is in the forefront in rebranding TVET as holding the key to rapid industrialization and national development. However the development agenda emphasizes more on infrastructure within TVET and pays little attention on employees who bring knowledge, skills and capabilities for better performance in these institutions leading to high turnover and consequent loss of tacit knowledge [20].

This if further supported Koech, who established that masters and PhD holders in technical institutions in Kenya were exiting to universities because of better terms of service at the universities.Moreover, the Inter University Council for East Africa-IUCEA reported that in Kenya, Uganda, Tanzania, Rwanda and Burundi, there is a general agreement that technical vocational education and training (TVET) is seen as having a lower status than school and university qualifications.

Therefore, the society at large considers TVET as a fall-back option for learners for whom all other routes have been exhausted, or as an entry route to the university.The consequence of this is that the economy, the emerging and incumbent workers suffer. In Kenya today there is an acute shortage of technicians, artisans, plumbers all products of TVET and organizations in Kenya particularly the private sector outsource these skills from other countries (IUCEA Report, 2014; Ministry of Industrialization and Enterprise Development, 2014).

The government of Kenya in outsourcing equipment medical for the county government emphasized that there were no sufficient technicians to operate and service the equipment' sthus confirming the need for TVET institutions to take up the challenge (Ministry of Health, 2015). It is also argued in literature that TVET will supply the industry with the most needed middle level skills to spur growth [20]. Based on these arguments, the study found the need to conduct the study on employee engagement and employee performance in Kenya which is a developing economy and particularly in **TVET** institutions

# Literature Review and Hypothesis Development

# The Concept of Employee Performance

According to Campbell, [21]employee performances are behaviors which employees display they are observable, measurable and are valued by the organization because of its relevance to organizational goals. It is also evident from extant literature that most research on employee performance has focused on variables relevant to particular occupations rather than identifying broad dimensions of employee performance which would allow for greater generalizability of results beyond one occupation.

However according Viswesvaran and Ones [22] individual employee performance has been a central variable in much research in relation to overall organization performance but as a construct, employee performance for a long time received little attention when compared with other relevant variables. Therefore, this study considered employee performance as a dependent variable based on this gap in literature. The little attention that employee performance received over the years has been attributed partly to more emphasis on wider systemic issues in attempting to understand organizational performance and also because researchers tend to put more emphasis on independent variables [23].

Campbell [21] further articulates that the measurement of employee performance as a variable tends to be controlled by employees other than the researcher. The issue here is that employees tend to rate themselves highly as posited by Donaldson, Thomas, and Graham [24] and Donaldson and Grant-Vallone [25]. This limitation was mitigated by the study by keenly considering the specific questions being asked and the type of research questions as argued by Donaldson and Grant- Vallone [25].

Further to note is that employee performance has often been confused with activities and measures over which employees have little or no control such as productivity, efficiency and output [21]. Output for instance is a measure been used for individual which has performance but in practice it is a reflection of many factors such as the work environment, availability of equipment, standard of equipment, resources.

management support and other systemic issues as pointed out by the total quality management literature. These factors contribute to employee performance but are not part of the individual workers efforts [26]. The measurement of job performance is also complicated by the fact that what counts for job performance is itself complex, changes over time and varies according to situations and organizations as commended by Hough and Oswald [27].

This lack of comparability of performance dimensions from one occupation to another affects the generalizability of the research findings and therefore, there is need to build on what scholars have done in identifying broad dimensions of employee performance which would allow for greater generalizability of results and cross-level inferences to be made. In response to this complexity, researchers have adopted a range of approaches in dealing with employee performance. In a review of models of job performance, Viswesvaran and Ones, [22] used ideas developed by Binning and Barrett [28] to analyze the approaches for handling employee performance. The Campbell et al. [29] model is based on a review of the job performance literature and extensive confirmatory research conducted in United States military settings. On the basis of this research they settled on eight components of job performance which are; Job specific task proficiency, non-job specific task proficiency, written and oral communication, task proficiency, demonstration of effort, maintenance of personal discipline, facilitation of peer and team performance, supervision or Leadership and management or administration.

However Campbell *et al.* [29] cautioned that these components are not necessarily present in every job and are not the last word for defining the employee performance domain. argued Thev also that the various components are relatively independent and are relevant for performance research. This gives room for researchers to explore more on employee performance. This means more effort on the part of scholars to generate more general models of individual performance. This study addresses these concerns. The Viswesvaran et al., [30] model established ten dimensions of performance as follows; Productivity ,effort, job knowledge, interpersonal competence, administrative competence quality, communication competence. leadership, compliance with authority and overall performance .There are significant differences between these models, Productivity and Quality for instance appear on the Viswesvaran et al. [30] model and are bv Office of Personnel supported Management, [31] and Hakala, [32] but not among the Campbell et al.[29]dimensions, whereas there seems to be no equivalent for non-job specific task proficiency in the Viswesvaran et al.[30] list. However the overlap between the lists is substantial and that these models both appear to reflect broader and more fundamental structures of employee performance.

Office of Personnel Management, [31] considers quality, quantity, timeliness and cost effectiveness as general measures of employee performance which are used to generate specific measures of employee performance. The performance elements that are measured in the employee include both individual and group assignments and responsibilities. Group assignment includes internal group dynamics processes, such as problem decision-making or solving processes, or group or team development.

Office of Personnel Managementhowever, agrees that there are certain aspects of performance at the individual level that may not be able to measure because the employee has no control over them. Hakala [32] builds on Office of Personnel Management [31] arguments that employee performance is indicated by quantity, quality, and timeliness. cost-effectiveness by adding absenteeism, creativity, and adherence to personal habits and policy, personal grooming components.

Hakala, further commends that these are broad and that some measures components for instance quality, cost effectiveness are beyond the control of the individual employee and therefore is need for more to be done by researchers. The study acknowledged the diversity and measurable. These include; task proficiency competence or job knowledge, demonstration of effort, interpersonal competence, communication competence, leadership, maintenance of personal discipline, facilitation of peer and team performance, creativity and adherence to policy. From these components of employee performance the study developed nine items.

# Employee Engagement and Performance

Employee engagement was first used by Khan in 1990 [33] in his study "Psychological conditions of personal engagement and disengagement at work" which was published in the academy of management journal. It was until the mid-1990s when Gallup started to refine and extend employee engagement by developing twelve items (Q12) to measure employee engagement which were then adopted and validated by many researchers through studies as well practical as considerations concerning its usefulness in the workplace [6,34,35,11,13].

There were many and conflicting definitions of employee engagement in the early years, however the construct as grown over time and there is evidence of consensus among researchers. Ameta-analysis study by Shuck and Wollard of 140 articles that mentioned the word employee engagement revealed an emergent and working definition. They defined employee engagement as a positive cognitive, emotional and behavioral state directed towards organizational outcomes. The study concurs with Shuck and Wollard and operation alizes employee engagement as a rational and emotional connection an employee feels toward the organization which influences in turn the emplovee to consistently speak positively about the potential organization to co-workers, employees, and customers. The employee also has an intense desire to be part of the organization and therefore exert extra effort and engage in behavior that contributes to organizational success. This view is in tandem with the argument by Hewitt [36] Murphy [13].

Since the inception of engagement construct, researchers have studied various aspects of employee engagement. It is evident from extant literature that employee engagement has an impact on organization results both at employee level and organization level. From employee level perspective, a study by Hakanen, Perhoniemi, **Toppinen-Tanner** found a positive relationship between employee engagement and employee Halbesleben and initiative over time. Wheeler [8] conducted a study with a sample size of 587 employees and established a significant relationship between employee engagement and performance and the results

were consistent when employee performance was rated by supervisors, co-workers and even self. Fredrickson [37] in his study established that engaged employees are more receptive to new experiences thus they tend to explore their environments leading to more innovation and creativity at work.

This view is supported by Bakker, Demerouti, Ten Brummelhuis [38] who posited that engaged employees are more willing to learn things. This shows that engaged new employees are able to translate their thoughts to action and therefore achieve high performance in the work place [8,9]. Kim, Kolb, and Kim [10] reviewed empirical studies on employee engagement and performance and established that existing empirical studies confirms direct and/or indirect positive effects of employee engagement on employee performance within organizations. Kruse (2012) did an analysis of 28 research studies by different scholars and revealed that there is a correlation between employee engagement and service, quality, safety, retention, profits sales. and total shareholder returns.

The link between employee engagement and employee outcome is further supported by Wagner and Saks, Harter and Fleming and Asplund who articulated that engaged employees often portray a deep positive emotional connection with their work and are consistently more productive, profitable, safer, healthier and less likely to leave their employer. This finding further agrees with Harter et al. [6] who conducted a metaanalysis and found that employee engagement relates to higher profitability and customer satisfaction hence customer loyalty. This view is further supported by a four year longitudinal study by Winkler et al. Who used 755 retail bank employees to assess employee engagement on business unit metrics and established that employee engagement had more impact on business results. A significant amount of research shows that engaged employees tend to outperform their disengaged counterparts [39].

A study by Rampersad pointed out that disengaged employees can be a serious liability to the organization as it causes organizations to incur excess costs as a result of underperformance on crucial tasks, leading to widespread customer dissatisfaction. The study pointed out major causes of employee disengagement as lack of trust between employee and management, unhealthy competition, bullying, harassment, excess control, toxic politics and poor level of equity in pay packages. Therefore, a disengaged employee or team is ready for exit from the organization and thus, there is need for organizations to engage employees at all levels.

However according to Murphy, [13] it is no longer the case anymore that highly engaged employees are high performers in all areas. The link between employee engagement and employee performance was sharply contrasted by Murphy [13] in his study which linked employee engagement scores and employee appraisal scores. Murphy found that workers who were deemed to be low performers in their annual review scored higher than those employees who were viewed as high performers. He further established that highly engaged employees were low performers and that those employees who were low in engagement were high performers.

These findings indicate a sharp contrast to years of research linking high employee engagement increased employee to performance, productivity, profitability and overall organizational performance. This implies that more research is needed to explore the concept of employee engagement because of the contradicting findings. This confirms the theoretical perspectives of Rana and Ardichvili [40] who articulated that there is no consensus on the relationships between emplovee engagement and other organizational variables. This inconsistencies evidenced in literature leads to the development of the following hypothesis;

### Employee Engagement Influences Employee Performance

# Materials and Methods

The study adopted explanatory research design to show the causal relationship between employee engagement and employee performance. The study used cluster sampling to arrive at the most representative region in Kenya in terms of types and number of technical institutions. Rift valley has eight Public technical institutions namely: Eldoret National polytechnic, Rift Valley Institute of Science and Technology, Rift Valley Technical Training Institute, Kaiboi Technical Training Institute, Kitale Technical Training Institute, Ollessos Technical Training Institute, Government Training Institute and Kenya Industrial trainingas indicated in Table 1 (Appendix 1). The target population was 3147 employees and 343 formed the sample size as per Cochran's formulaas shown in Table 2 (Appendix 2).

Random sampling technique was used to identify the respondents who filled the questionnaires. However, of out 343 respondents, 326 responded, hence giving a response rate of 95.04% .After data cleaning 316 questionnaires were found to be complete and were used in data analysis. All items in the study were anchored on a five point likert scale. Questionnaires were validated through pretest and a panel of experts. Croncbach alpha tests were used to assess the reliability of the instrument and the computed Cronbach alpha coefficient results were all above 0.7 and this fall within the accepted limit by [41].

Data were screened to assess whether the of regression assumptions were met. Normality of the distribution of data was tested graphically by inspection of histogram and p-p plots and numerically by Shapiro-Wilk test and the findings were within the accepted thresholds of .05 and above. Linearity of study variables was tested using Pearson moment correlation and the inspection of the correlation matrix revealed that there is a linear relationship between the study variables. Independence of errors was checked using Durbin-Watson statistic and it was within the accepted threshold of according to Haves 1.5to 2.5[42].Multicolinearity was tested by running the Variance Inflation Factors (VIF) and the tolerance levels and standard cut-off points suggested by Scott [43] were observed.

# Results

The respondents were asked to provide information regarding their age, gender, level of education. The purpose of this information was to help the researcher to understand the demographic context within which the study was conducted. The results presented in Table 3 (Appendix 3) shows that women were the majority comprising 165 (52.2%) and men were 151 (47.8%).

Regarding the level of education, majority of the respondents were aged between 35 and 44 years 128 (40.5%), followed by 25 to 34 vears 95 (30.1%), followed by 45 to 54 years 60 (19.0%), followed by 18-24 years 24 (7.6%) and over 55 years 9 (2.8%). Concerning the of education. majority level of the respondents 107 (33.9%) have first degree, followed by holders of master's degree 70 (22.2%). Diploma 64 (20.3%) and higher diploma holders were comprised of 63 respondents (19.9%). PhD holders were the least 12(3.8%).

# **Correlation Analysis**

Results in Table 4 (Appendix 4) revealed that employee engagement significantly and positively correlate with employee performance as shown correlation coefficient value of .338. The results signify that increased levels of employee engagement are associated with increased employee performance. Therefore, evidence of linear relationship between employee engagement and employee performance paved way for regression analysis.

# **Hypothesis Testing**

The hypothesis states that employee engagement influences employee performance. This hypothesis failed to reject as shown by results in Table 5 (Appendix 5). The coefficient of estimates ( $\beta$ =.338; t=6.366; p < .05) confirmed that employee engagement significantly influences employee performance. Results in Table 6 (Appendix 6) revealed that employee engagement significantly influences employee performance. The R<sup>2</sup> value of 0.114 implies that the employee engagement contributes 11.4% of variation in employee performance. The overall regression model is statistically significant (40.527; p < .05) as shown by the F change statistic in Table 7 (Appendix 7)

# **Discussion and Conclusion**

This research investigated and tested the employee engagement influence of on employee performance in TIVET institutions in Kenya. The findings indicate a positive and significant relationship between employee engagement and employee performance. The findings further revealed a significant influence of employee engagement on performance. The results signify that employee engagement contributes 11.4% of employee performance in TIVET institutions in Kenya.

This result links well with the conclusions of that an important way to enhance employee performance is to focus on fostering employee engagement because employees who are fully engaged are positive, energetic, dedicated, resilient and perform better.Engagement model by Corporate Leadership Council 2004 links well with this result. The theory argues that employee rational and emotional commitment leads to discretionary effort thus high performance.

The findings of this studycontradicts the findings of Murphy, [13] and Jaupi and Llaci, [14] who found that employees who bring value to the organization in terms of performance are those employees who are low in engagement. Employee engagement positively influences employee performance. Based on this finding, the study argues that Managersin TVET institutions should develop policies that recognize engaged employees by rewarding their performance.

The institutions should also develop policies to address issues that disengage employees at work as pointed out by Rampersad who observed that lack of trust between employees and management, unhealthv competition, bullying, harassment, excess control, toxic politics and poor level of equity in pay packages. These factors that push valuable employees out the organization and therefore, managers in their quest to retain talent must purpose to discover and act on the factors that push valuable employees out the organization and build on the factors that hold employees to stay.

# Implication to Managers and Researchers

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The findings of the study provide a basis to TIVET managers in making policy guidelines and interventions on employee engagement in order to improve employee performance. Merry (2013) argued that annual employee survey help organizations to get beyond thinking of engagement as just a survey but also as a tool to support organizational development in terms of employee career development.

Hewitt [36] contend that career opportunities remain one of the top drivers of employee engagement. Based on previous empirical studies and the results of this study, it is evident that more enlightening of interpretation of results between employee engagement and employee performance can be reflected better if an initiative is taken by researchers to assess the role of the third variable in the relationship. This view is supported by Rana, Ardichvili and Tkachenk [40] who observed that moderation analyses would best reflects on the relationships and offer more accurate estimation of the relationships under study.

### Limitations of the Study

This study was confined on knowledge management, employee engagement and employee performance in TVET institutions in rift valley Kenya hence, limiting the generalizability of the findings. To augment the research findings of this study, the study recommends a replica study to explore these findings in different environments and cultures.

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### Table 1: Proportionate Sample Size for Each Institution

Name of Institution	Population	Sample Size
Eldoret polytechnic	854	854x343/3147 =93
Rift Valley Institute of Science and Technology	632	632x343 /3147=68
Rift Valley Technical Training Institute	459	459x343 /3147=50
Kitale Technical Training Institute	627	627x343 /3147=68
Olessos Technical Training Institute	258	294x343 /3147=28
Kaiboi Technical Training Institute	263	263x343 /3147=29
Government Training Institute	34	34x343 /3147= 4
Kenya Industrial Training Institute	20	20x34/3147=3
Total	3147	343

Source: Survey Data (2014)

### Appendix 2

# Table 2: List OF Registered Public Tvet Institutions as At December 2013 NAME OF INSTITUTION AND REGION

	RIFT VALLEY							
1	EldoretNational polytechnic	UasinGishu						
2	Rift Valley Institute of Science and Technology	Nakuru						
3	Rift Valley Technical Training Institute	UasinGishu						
4	Kaiboi Technical Training Institute	Nandi						
5	Kitale Technical Training Institute	Tranzoia						
6	Ollessos Technical Training Institute	Nandi						
7	Government Training Institute	Baringo						
8	Kenya Industrial training	Nakuru						
	WESTERN REGION							
1	Bumbe Technical Training Institute	Busia						
2	Bushiangala Technical Training Institute	Kakamega						
3	Friends College Kaimosi	Hamisi						
4	Kisiwa Technical Training Institute	Bungoma						
5	Matui Technical Training Institute	Kakamega						
6	Nayera Technical Training Institute	Busia						
7	Sangalo Institute of Science and Technology	Bungoma						
8	Sigalagala Technical Training Institute	Kakamega						
9	Shamberere Technical Training Institute	Kakamega						
	NAIROBI REGION							
1	Kabete Technical Training Institute	Nairobi						
2	Kenya Technical Teacher College	Nairobi						
3	Kiambu Institute of Science and Technology	Kiambu						
4	Masaai Technical Training Institute	Kajiado						
5	Nairobi Technical Training Institute	Nairobi						
6	Thika Technical Training Institute	Thika						
	NYANZA REGION	***						
1	Keroka Technical Training Institute	Kisii						
2	Kisumu Polytechnic	Kisumu						
3	Gusii Institute of Technology	Kisii						
4	Mawego Technical Training Institute	Rachuonyo						
5	Siaya Institute of Technology	Siaya						
	CENTRAL REGION							
1	Kavangua Institute of Technology	Kirinyaga						
2	Nyandarua Institute of Science and Technology	Nyandarua						
3	Michuki Technical Training Institute	Kangema						
4		Nyeri South						
5	Kiirua Technical Training Institute	Meru						
6	Nyeri Technical Training Institute	Nyeri						
7	Pc Kinyanjui Technical TraininingIstitute	Nairobi						
	EASTERN REGION							
1	Wote Technical Trining Institute	Makueni						
2	Meru Technical Training Institute	North Imenti						
3	Rwika Technical Training Institute	Mbeere						
4	Nkabune Technical Training Institute	Meru						
5	North Eastern Technical Training Institute Garissa							

1

6	Meru Technical Training Institute	North Imenti			
COAST REGION					
1	Mombasa Technical Training Institute				

# Appendix 3

# Table3: Demographic Profile of the Respondents

Variable	Frequency	Percentage	
Gender			
Male	151	47.8%	
Female	165	52.2%	
Age			
18-24 years	24	7.6%	
25-34 years	95	30.1%	
35-44 years	128	40.5%	
45-54 years	60	19.0%	
Over 55 years	9	2.8%	
Level of education			
Diploma	64	20.1%	
Higher Diploma	63	20.1%	
Degree	107	34.2%	
Masters	70	21.9%	
PhD	12	3.8~%	

Source: Survey Data (2015)

### Appendix 4

#### **Table 4: Correlations**

		Employee performance	Employee engagement
Employee performance	Pearson Correlation	1	.338**
	Sig. (2-tailed)		.000
	Ν	316	316
Employee engagement	Pearson Correlation	.338**	1
	Sig. (2-tailed)	.000	
	Ν	316	316

\*\*. Correlation is significant at the 0.01 level (2-tailed).

### Appendix 5

### **Table 5: Coefficients**

-		Unstandardized Coefficients		Unstandardized Coefficients Coefficients			
	Model	В	Std. Error	Beta	t	Sig.	
1	(Constant)	1.272	.099		12.913	.000	
_	Employee engagement	.292	.046	.338	6.366	.000	

### Appendix 6

#### Table 6: Model Summary

				Std. Error Change Statistics						
		R	Adjusted	of the	<b>R</b> Square	F			Sig. F	
Model	R	Square	<b>R</b> Square	Estimate	Change	Change	df1	df2	Change	Durbin-Watson
1	.338ª	.114	.111	.49355	.114	40.527	1	314	.000	1.630

### Appendix 7

### Table 7: ANOVA a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	9.872	1	9.872	40.527	.000 <sup>b</sup>
	Residual	76.488	314	.244		
	Total	86.360	315			