

EFFECTS OF DEBT FINANCING ON FINANCIAL PERFORMANCE OF FIRMS QUOTED ON THE NIGERIA STOCK EXCHANGE (2008-2012)

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Abstract

Effects of debt financing on financial performance of firms quoted on the Nigerian stock exchange (2008-2012) was carried out with the following objectives (i) to determine the impact of debt financing on Earnings Per Share (EPS) of Nigerian firms, (ii) to determine whether debt financing (TDR) has enhanced the value of Nigerian firms. The following research questions were asked (a) to what extent does debt financing impacts on the earning per share of Nigerian firms (b) to what extent can debt financing enhance the value of Nigeria firms. The following hypotheses were stated. (i) debt financing does not have a significant impact on earnings per share of Nigerian firms, (ii) debt financing does not enhance the value of Nigerian firms. Out of the population of two hundred and seventy six (276) quoted firms, thirty (30) were selected as the sample size through stratified random sampling method (excluding the financial service industry). Hypothesis one was tested using the Ordinary Least Square (OLS) simple linear regression model. Hypothesis II was tested using the Multiple Discriminant Analysis (MDA) model. Findings from the test of hypotheses suggest that total debt ratio does have a positive but a non significant impact on earning per share of Nigerian firms, that debt financing does enhance the value of Nigerian firms. The implications of the finding is that firms management should ensure that the financial decision are made in a way to fundamentally create and enhance the overall value of the firm. The conclusion is that debt financing is costly when a firm cannot cover its interest expenses on creditors and that earning decline can develop during economic financial trauma. Yet it is a better option for capitalizing a firm. The study recommends that the amount of debt finance in the financial mix of a firm should be at the optimal level so as to ensure adequate utilization of the firms assets for enhanced firm profitability.

Introduction

The importance of a companys choice of financing matters because, it bordered on the effect of the overall performance of the company. Initially in the field of finance, the perception is that elongating a companys gearing by recapitalizing a company through debt financing would also enhance value to a certain point and should such a point be exceeded it will result to high cost of capital then leading to reduction in market value. This was the view until when Modigliani and Miller countered it, as they say that the capitalization of a company remains constant and all other criteria met up with, the company's debt and equity added together by market value will not depend on its method of capital structure (Modigliani and Miller, 1963).

Notwithstanding, the rate at which a company operates its recapitalization especially through debt financing, impacts on its acceptable value remains a subject of long debate. Majorily, capitalization is justified when returns compensate for the capital invested.

Statement of the Problem

Debt is a risky financing choice which consequences on the corporate profitability and value can be considerable (e.g. the risk of bankruptcy and its consequence for the stakeholders).

Objectives of the Study

- (1) To determine the impact of debt financing (TDF) on earning per share (SPS) of Nigerian firms.
- (2) To determine whether debt financing (TDR) has enhanced the value of Nigerian firms.

Research Questions

- (1) To what extent does debt financing impacts on the earning per share of Nigerian firms?
- (2) To what extent can debt financing enhance the value of Nigerian firms?

Hypotheses

- (1) Debt financing does not have a significant impact on earnings per share of Nigerian firms.
- (2) Debt financing does not enhance the value of Nigerian firms.

Scope and Delimitation of the Study

This research work is delimited to actively quoted companies in Nigeria stock exchange excluding financial service sectors and this serves as the scope.

Review of Related Literatures

Conceptual Review

Corporate performance may include the ability of an organization to accomplish all the established objectives, and Fubara (2004) holds that performance refers to a number of different aspect, viz profit, growth, market share, price, quality, quantity, time, good pay; contributing to this Brealey, Myers and Marcus (2004) say that corporate finance is an area which focuses on how companies (firms) invest in real assets and how they raise the money to pay for these investments.

Theoretical Framework

This work is rooted in the pecking order theory of financing of a firm which was propounded by Steward, Myers and Nicholas in Magiluf (1984) (Simerly and Mingfang, 2000).

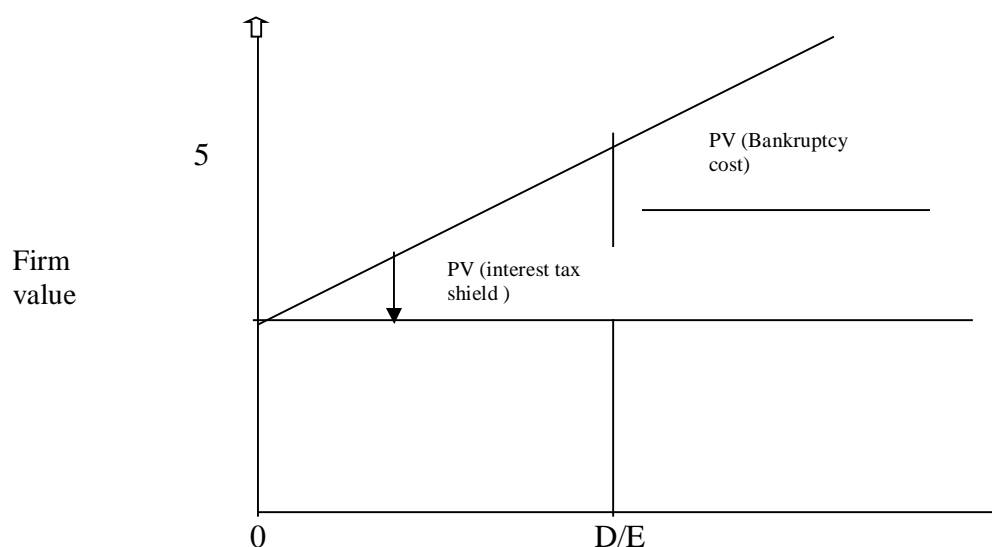


Figure 1: Trade-off Theory
Source: Simerly and Mingfang (2000:90).

As could be seen from the above, when the equity value is on the increase (i.e. leverage) a trade off between the interest tax shield and the bankruptcy cost occurs resulting to an optimal capital structure

$$\frac{D}{E} \quad \text{ie} \quad \frac{\text{Debt}}{\text{Equity}}$$

Empirical relevance of the trade off theory has often been questioned. Fama and French (2002) criticize not only the trade off theory but the pecking order theory as well because taxes are often large but bankruptcy is rare. However, graham (2000) in his contribution to the trade off theory used it to examine the interest tax spread between corporate bonds and tax exempt municipal bonds to estimate the tax rate paid by marginal investors in corporate bond empirically, and found that the theory may explain difference in D/E ratio between industries but it does not explain difference within the same industry.

Empirical Review

Matarirano and Fatoki (2010) investigated the impact of debt on the profitability of small manufacturing firms in Zimbabwe, applying regression analysis to a set of data from small firms; the results indicated that the use of debt has a negative impact on the profitability of small manufacturing firms. The study thus recommended the creation of tax incentives and more equity finding for small manufacturing firms.

Methodology

Ex-past-facto method was used, as this involves gathering records of past events.

Population of the Study

Forty-five (45) sectors of publicly quoted companies made up of 276 companies formed the population of the study whereas thirty (30) firms that are not under financial services formed the sample size.

Model Specification

Hypothesis (i), as $EPS = a + b \text{ TDR} + \mu$

Hypothesis (ii) as $Z = x_1 (\text{NPM/TDR}) + x_2 (\text{TAT/TDR}) + x_3 (\text{EPS/TDR})$

EPS = earning per share

a = Regression equation intercept

b = Regression equation coefficient

Z = Score for multiple discriminant analysis value

Where $X_1 = 0.012$

$X_2 = 0.014$

$X_3 = 0.033$

The values of $X_1 = X_3$ were adopted.

From the weights assigned by Altman (1968) Multiple Discriminant Analysis (MDA) model with a guideline score of 2.675 to measure firms when debt financing is employed (Heine, 2000)

X = coefficient for value parameters

μ = error term

Test of Hypothesis One

Hypothesis one seeks to reveal the impact of TDR on the EPS of Nigerian firms. To test this hypothesis, Simple Regression analysis was applied to data from Appendix 1 and 2 and at 95% confidence interval.

Statement of Hypothesis One

Ho: Total debt ratio does not have a significant impact on earnings per share of Nigerian firms.

H₁: Total debt ratio has a significant impact on earnings per share of Nigerian firms.

Decision Rule: Reject the null hypothesis if t-statistics > 2 and p-value < 0.05 otherwise, accept H₀.

The regression result for test of hypothesis one is as presented in Table I below.

Table 1: Standard OLS for the Sample

Dependent Variable: EPS

Method: Least Squares

Sample: 1 151

Included observations: 126

Variable	Coefficient	Std. Error	t-Statistic	Prob.
TDR	0.198563	0.155095	1.280271	0.2028
C	1.172431	0.311671	3.761761	0.0003
R-squared	0.013046	Mean dependent var		0.823806
Adjusted R-squared	0.005087	S.D. dependent var		1.706254
S.E. of regression	1.701908	Akaike info criterion		3.917123
Sum squared resid	359.1650	Schwarz criterion		3.962144
Log likelihood	-244.7788	Hannan-Quinn criter.		3.935414
F-statistic	1.639093	Durbin-Watson stat		1.288434
Prob(F-statistic)	0.202840			

Source: Author's Computation using E views 7.2.

Where C = Constant of the Equation

Decision

The decision criteria is to reject the null hypothesis if t-statistics is > 2 and the p-value < 0.05 otherwise, accept the null. Table 11 shows t-statistics of 1.280 being < 2 and probability of $0.2028 > 0.05$. Therefore, the researcher accepted the null hypothesis and conclude that total debt rate does not have a significant impact on earnings per share of Nigerian firms.

Test of Hypothesis Two

Hypothesis two seeks to establish if debt financing, as captured by TDR enhances the value of a sample of Nigerian firms applying the Multiple Discriminant Analysis. To test this hypothesis, the following Multiple Discriminant Analysis (MDA) equation specified as

$$Z = X_1 (\text{NPM/TDR}) + X_2 (\text{TAT/TDR}) + X_3 (\text{EPS/TDR}) \dots\dots\dots (ii)$$

Heine (2000) and Onwumere et al (2011) noted that the weights attached to the value parameters as coefficients of the value parameters are:

$$\begin{aligned} X_1 &= 0.012 \\ X_2 &= 0.014 \\ X_3 &= 0.033 \end{aligned}$$

Statement of Hypothesis Two

H₀: Debt financing does not enhance the value of Nigerian firms.

H₁: Debt financing enhances the value of Nigerian firms.

Decision Criteria: The values of $X_1 = X_3$ were adopted from Altman, 1968 Multi Discriminant Analysis model as applied by Onwumere, Ibe and Okpara (2011). According to Onwumere et al (2011) Altman established a guideline score of 2.675 to measure firms when debt financing is employed. He further classified debt financing for firm(s) as having enhanced value given a Z-score > 2.675 , or it has not enhanced value given a Z score < 2.675 . Therefore, the researcher accepted the H₀ if Z score < 2.675 otherwise reject the H₀

$$Z = 0.012 (0.16821) + 0.014 (76.4143) + 0.033 (1.0504) \dots\dots\dots (iii)$$

$$Z = 0.002018 + 10.7298 + 0.03466 \dots\dots\dots (iv)$$

$$Z = 10.7668.$$

Decision

Given a Z-score = $10.7668 > 2.675$ the researcher has to reject the null hypothesis and accept the alternate hypothesis and conclude that debt financing enhances the value of Nigerian firms.

Discussion

From the research work, share of Okomu PLC and Guinness recorded good earning while shares of Afrimedia, Thomas Wyatt, His and first aluminum earned negative returns on their shares. Trancrop, pharma Deko, Eterna oil and triple Gee shares picked up from negative earnings in 2010 to record positive earnings in 2011 and 2012 from the decision the null hypothesis was rejected, and the researcher concludes that total debt rate have a positive effect on earnings per share of Nigerian firms. The financial structure decisions of the firms offers opportunities to create value for stakeholders, thus firms must select that form of debt with the lowest explicit cost and least damaging impact on the firm and its shareholders through a positive variability in earnings per share, therefore, the amount of debt finance must increase the reward of an investor for making the investment thus showing a positive effect. As could be observed from the findings, debt finance has a positive effect on earnings per share and this is in line with the findings of Patra (2005), which agree with the findings of this work essentially, the overall objective of this research was to determine the effect of firms as a result of the firms use of debt, Given a Z score $33.18 > 2.675$, the researcher rejected the null hypothesis and accepted

the alternate that debt financing does enhance the value of Nigerian firms, this is consistent with the works of Simerly and Mingfang (2000) and Onwumere, Ibe and Okpara (2011).

Summary of Findings

- (1) The total debt ratio have little or no effect on earning per share of Nigerian firms.
- (2) Debt financing enhances the value of Nigerian firms.
- (3) It is rare for any firm to depend solely on equity finance.

Conclusion

The use of debt presents some problems to business managers because management must select that form of debt with the lowest explicit cost and least damaging impact on the firm and its shareholders through variability in earnings per share; management must also, assemble a financial structure which is composed of the least mix of both debt and equity capital.

Recommendations

- The amount of debt finance in the financial mix of the firm should be at the optimal level so as to ensure adequate utilization of the firms assets.
- Managers of organization should employ debt financing in a way that it enhances value for firm owners, i.e. leading to an increase in returns to equity holders.
- Since it is rare for any firm to depend solely on equity finance, thus management may seek other sources of funding which may not be in the interest of equity holders.

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APPENDIX I

Total Debt Ratio (TDR)

Firms/Years	2012	2011	2010	2009	2008
Okomu	0.2164	0.1886	0.336	0.582	0.48497
Presco	0.579	0.724	0.946	1.138	NA
UAC	0.4998	0.6643	0.909	0.31	0.23085
TRANSCORP	0.5605	0.6129	0.514	2.987	2.43473
UACPDN	1.2837	1.3035	1.33	1.087	1.06397
JuliusBerger	6.5063	10.323	5.086	0.14	1.69396
Guinness	0.3812	0.3962	0.355	0.338	0.42992
DangoteFlour	0.1373	0.1425	0.017	0.016	0.01428
GSK	0.5107	0.4993	0.45	0.455	0.43281
PharmaDeko	1.9497	-4.946	-4.683	-2.408	-6.40489
HIS	0.6759	0.5803	0.572	0.724	0.837
CourtVille	0.0402	0.0073	0.014	0	0.45331
BagCo	0.345	0.4297	1	1	10.0007
BetaGlass	0.2764	0.2988	0.306	0.301	0.30702
TWN	2.5509	2.0875	1.726	1.615	1.57583
FirstAlum	0.0755	0.0591	0.038	0.089	1.71078
Eterna	0.0817	0.4214	0.867	7.829	0.09489
MRS	0.2093	0.1571	0.474	0.666	0.33802
AcadPress	0.9473	1.302	1.068	0.265	0.37931
RedStar	0.1973	0.2274	0.309	0.133	0.13329
Livestock	0.0005	0.0012	0.002	0.002	0.00329
Leventis	1.9306	1.5357	1.02	0.736	0.50189
Nig. Ropes	1.1542	0.6813	1.069	1.112	0.96486
May & Baker	0.898	0.744	0.514	0.603	0.69738
JAPAU	0.0991	2.1134	0.843	0.523	0.7326
Costain	0.467	0.6165	0.476	0.45	0.50598
Triple Gee	-4.4954	-1.199	-2.46	16.04	15.3327
AfroMedia	8.6766	0.8068	0.764	0.47	0.2132
BOC Gases	6.0616	3.5143	3.222	1.847	1.36802
Unilever	0.6576	0.4084	0.375	0.459	0.71703

Source: Author's Compilation (2014) from Audited Financial Reports of various years.

APPENDIX II

Earning per Share (EPS) in Kobo

Years	2012	2011	2010	2009	2008
Okomu	1800	823	342	115	253
Presco	302	169	110	24	67
UAC	257	37	199	314	265
TRANSCORP	5	12	-3	-24	-94
UACPDN	164	124	169	221	335
JuliusBerger	648	3.68	2.31	272	204
Guinness	1216	931	918	804	784
DangoteFlour	16	75	107	34	6
GSK	295	240	207	178	134
PharmaDeko	745	76	-466	-486	-208
HIS	-0.45	0.02	0.14	12.64	6.73
CourtVille	020	0.15	0.14	0.18	0.52
BagCo	16	6	-2	5	422
BetaGlass	309	295	277	239	191
TWN	-13	-14	-3	1	1
FirstAlum	-1750	-1.9	1.5	-12.2	-35.9
Eterna	93	55	-132	-5213	-2084
MRS	408	772	414	-89	771
AcadPress	16	26	37	15	27
RedStar	44	36	31	21	33
Livestock	82	79	58	42	10
Leventis	111	134	146	55	43
Nig. Ropes	110	80	90	50	50
May & Baker	600	300	300	470	500
JAPaul	108	324	162	171	263
Costain	641	731	470	276	335
Triple Gee	221	68	-931	-176	-293
AfroMedia	-990	-7	1091	844	10.87
BOC Gases	817	9.65	2072	23	0.08
Unilever	145	111	108	69	28

Author's Compilation (2014) From Audited Financial Reports of various years

APPENDIX III

Calculation of the Altman' Ratio i.e. {(NPM/TDR), (TAT/TDR), (EPS/TDR)}

Year s	Firms	TDR	EPS	TAT	NPM	NPM/TD R	EPS/TDR	TAT/TD R
2012	Okomu	0.216363	1800	0.32671 9	0.88253 5	4.078945	8319.334	1.510049
2011		0.188556	823	1.05890 3	0.35282 4	1.871189	4364.749	5.615849
2010		0.335831	342	0.77685 4	0.26765 8	0.797002	1018.37	2.313231
2009		0.582097	115	0.68836 5	0.11590 4	0.199114	197.5615	1.18256
2008		0.484974	253	0.74435 5	0.25505 1	0.525906	521.6772	1.534834
2012	Presco	0.57899	302	0.65003 8	0.26844 3	0.46364	521.5979	1.122711
2011		0.724002	169	0.668	0.19826 5	0.273846	233.4248	0.922649
2010		0.946148	110	0.51963 2	0.20330 8	0.21488	116.2609	0.549209
2009		1.138322	24	0.48643 3	0.05978 9	0.052524	21.08366	0.427324
2008		#VALUE !	67	0.58501 4	0.17002 5	0	0	0
2012	UAC	0.499784	257	0.88023 7	0.05903 9	0.118129	514.2222	1.761234
2011		0.66426	37	0.74062 4	0.01608	0.024208	55.7011	1.114961
2010		0.908749	199	0.70643	0.06099 7	0.067122	218.9824	0.777366
2009		0.310108	314	1.00026 5	0.07100 1	0.228955	1012.552	3.225543
2008		0.230848	265	0.93491 6	0.07904 6	0.342418	1147.943	4.049923
2011	TRANSCOR P	0.560467	5	0.33883 9	0.08931 6	0.159359	8.921129	0.604566
2010		0.612892	12	0.32415 5	0.23029 5	0.375751	19.57931	0.528894
2009		0.514467	-3	0.37393 2	-0.0563	-0.10944	-5.83127	0.726834
2008		2.986721	-24	0.10939 3	-0.59073	-0.19779	-8.03557	0.036627
2007		2.434734	-94	0.08165	-1.01372	-0.41636	-38.6079	0.033535

2012	UACPDN	1.283731	164	0.16872	0.18109 5	0.141069	127.7526	0.131429
2011		1.303474	124	0.09827 8	0.24622 6	0.1889	95.1304	0.075397
2010		1.329598	169	0.12118 5	0.27800 1	0.209087	127.1061	0.091144
2009		1.086978	221	0.05348 9	0.71629 6	0.65898	203.3161	0.049209
2008		1.063971	335	0.20822	0.27631 6	0.259703	314.8583	0.195701
2012	Julius Berger	6.506251	6.48	1.80686 8	0.03946 1	0.006065	0.995965	0.277713
2011		10.32339	3.68	1.53520 4	0.02635 5	0.002553	0.356472	0.148711
2010		5.085857	2.31	3.70770 1	0.01614 5	0.003174	0.454201	0.729022
2009		0.140354	272	7.99683 3	0.02195 8	0.156446	1937.958	56.97619
2008		1.693961	204	9.39187 6	0.02181 3	0.012877	120.4278	5.544328
2007		1.677995	588	7.62959 5	0.02250 3	0.01341	350.4183	4.546853
2011	Guinness	0.381191	1216	2.22259 1	0.14497 4	0.380319	3190.004	5.830653
2010		0.396191	931	2.29048	0.12559 9	0.317016	2349.877	5.781253
2009		0.355343	918	2.08647 2	0.15189 5	0.427461	2583.42	5.871713
2008		0.338433	804	1.40201 8	0.17146 7	0.506651	2375.655	4.142675
2007		0.429923	784	1.37630 2	0.17170 1	0.399377	1823.582	3.201274
2011	Dangote Flour	0.137254	16	1.30648 1	-0.00677	-0.0493	116.572	9.518691
2010		0.142486	75	1.41078 9	-0.04047	-0.28402	526.3674	9.901242
2009		0.017369	107	1.53742 9	0.00485 3	0.279415	6160.274	88.5139
2008		0.016252	34	1.27939 7	-0.00179	-0.11044	2092.048	78.72233
2007		0.01428	6	1.40879 4	-0.00273	-0.19086	420.1815	98.65816
2012	GSK	0.510705	295	1.16131 2	0.11156 6	0.218454	577.6324	2.273938
2011		0.499312	240	1.19986	0.10661	0.213525	480.6618	2.403043

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2010		0.449526	207	1.18308 1	0.11725 9	0.260849	460.485	2.631841
2009		0.454956	178	1.23795 3	0.11381 6	0.25017	391.2468	2.72104
2008		0.432806	134	1.30525	0.10182 8	0.235273	309.6074	3.015785
2012	PharmaDeko	1.949668	745	0.38359 2	0.69411 8	0.356018	382.1164	0.196747
2011		-4.94613	76	0.49111	0.03340 9	-0.00675	-15.3655	-0.09929
2010		-4.68253	-466	0.20123 2	-0.93859	0.200446	99.51883	-0.04298
2009		-2.40795	-486	0.55150 5	-0.91944	0.381837	201.8313	-0.22903
2008		-6.40489	-208	1.10639 3	-0.21911	0.03421	32.47517	-0.17274
2011	HIS	0.675898	-0.45	0.48173 3	-0.18022	-0.26664	-0.66578	0.71273
2010		0.580304	0.02	0.49568 2	0.00620 9	0.010699	0.034465	0.854177
2009		0.572211	0.14	0.38732 3	0.06308 4	0.110246	0.244665	0.676889
2008		0.723845	12.64	1.33914 8	0.10433 9	0.144146	17.46229	1.850047
2007		0.836996	6.73	0.86243 5	0.08893 5	0.106255	8.040657	1.030393
2011	CourtVille	0.040151	0.2	0.39923	0.35487 9	8.838686	4.981234	9.943282
2010		0.007274	0.15	0.28174 5	0.36818 1	50.61912	20.62266	38.73558
2009		0.014475	0.14	0.26640 3	0.38969 9	26.92132	9.671525	18.40375
2008		0	0.18	0.21427 2	0.62196 6	0	0	0
2007		0.453307	0.52	0.19444 9	0.01027 5	0.022666	1.147126	0.428956
2011	BagCo	0.344964	16	1.50428 3	0.05516 6	0.159917	46.38161	4.360692
2010		0.429705	6	4.59577 6	0.02188 8	0.050938	13.96307	10.69519
2009		1	-2	1.00578 9	-0.00915	-0.00915	-2	1.005789
2008		1	5	0.99873 6	0.02569 9	0.025699	5	0.998736

2007		10.00066	422	1.35198 5	0.09598 1	0.009597	42.19722	0.13519
2011	BetaGlass	0.276379	309	0.89241 3	0.12146 4	0.439483	1118.028	3.228942
2010		0.29877	295	0.87594 5	0.13184 4	0.441289	987.3819	2.931837
2009		0.306051	277	0.94862 3	0.13111 9	0.42842	905.0772	3.099557
2008		0.300685	239	0.95723 4	0.13141 2	0.437043	794.8525	3.183513
2007		0.307015	191	0.79588 3	0.12318 3	0.401228	622.1194	2.592326
2012	TWN	2.550881	-13	0.37578 2	-0.22701	-0.08899	-5.09628	0.147315
2011		2.087506	-14	0.28357 1	-0.22152	-0.10612	-6.70657	0.135842
2010		1.726364	-3	0.28576 9	-0.03823	-0.02215	-1.73776	0.165532
2009		1.614901	1	0.40424 7	0.00483 7	0.002995	0.619233	0.250323
2008		1.575831	1	0.29670 1	0.01243	0.007888	0.634586	0.188282
2011	FirstAlum	0.07546	-17.5	1.33869 1	-0.04314	-0.57164	-231.91	17.74036
2010		0.05908	-1.9	1.27073 7	-0.00452	-0.07659	-32.1598	21.50873
2009		0.037573	1.5	1.17154 1	0.00404 3	0.107615	39.92223	31.18035
2008		0.088571	-12.2	2.90750 9	-0.02129	-0.24032	-137.743	32.82686
2007		1.710783	-35.9	3.29271 6	-0.05886	-0.03441	-20.9845	1.924684
2011	Eterna	0.081722	93	6.50661 6	0.02949 1	0.360868	1137.998	79.61843
2010		0.421408	55	2.15123	0.05111 8	0.121303	130.5148	5.104863
2009		0.866811	-132	1.26638 1	-0.16207	-0.18698	-152.282	1.460965
2008		7.829325	- 5213	1.74997 2	-0.03382	-0.00432	-665.83	0.223515
2007		0.094889	- 2084	3.78273 6	-0.02761	-0.29093	-21962.4	39.86467
2011	MRS	0.209269	408	3.26441	0.01460 4	0.069784	1949.64	15.59907
2010		0.15709	772	3.48805	0.02470	0.157253	4914.388	22.20423

				7	3			
2009		0.473767	414	17.0674 1	0.01408 7	0.029733	873.8469	36.02488
2008		0.666049	-89	13.6715 6	-0.00463	-0.00695	-133.624	20.52636
2007		0.338022	771	13.4179 1	0.02697 7	0.07981	2280.915	39.69533
2012	Acad. Press	0.947293	16	1.71074 7	0.04029 3	0.042535	16.89024	1.805933
2011		1.302006	26	1.56922 3	0.05173 3	0.039733	19.96918	1.205235
2010		1.067536	37	1.64557 8	0.06839 5	0.064069	34.65926	1.541473
2009		0.265336	15	2.77315 8	0.03449 6	0.130008	56.53216	10.45151
2008		0.37931	27	2.50806 9	0.04491 3	0.118406	71.1818	6.612181
2012	RedStar	0.197301	44	2.18072 1	0.07541 2	0.382217	223.0095	11.05276
2011		0.227415	36	1.91454 9	0.07161 7	0.31492	158.301	8.418752
2010		0.308617	31	2.61029 8	0.04360 5	0.141291	100.4482	8.458053
2009		0.13281	21	2.30069 6	0.04123 5	0.310485	158.1211	17.32327
2008		0.133292	33	2.33924 3	0.06315 4	0.473802	247.5765	17.54975
2012	Livestock	0.000477	82	0.89872 3	0.18124 2	379.8689	171865.2	1883.648
2011		0.001183	79	0.92912	0.16113 2	136.1842	66768.4	785.2637
2010		0.001675	58	0.94047 6	0.13375 7	79.83432	34617.8	561.3314
2009		0.002348	42	1.09657 3	0.10415 5	44.35617	17886.46	466.9955
2008		0.00329	10	#DIV/0!	0.03178 3	9.659633	3039.213	0
2012	Leventis	1.930613	111	2.77674 9	0.03132	0.016223	57.4947	1.438274
2011		1.535727	134	3.50506 5	0.03755 9	0.024457	87.25507	2.282348
2010		1.019853	146	4.10646 6	0.04040 2	0.039616	143.1579	4.026527
2009		0.735624	55	2.92735 5	0.02584 6	0.035135	74.76644	3.979417

2008		0.50189	43	#DIV/0!	0.02784 6	0.055483	85.67623	0
2012	Nig. Ropes	1.154182	110	0.69964 4	0.06714 2	0.058173	95.30557	0.606182
2011		0.681284	80	0.54325 7	0.05996	0.08801	117.4253	0.797402
2010		1.068726	90	0.71911 9	0.05048 5	0.047239	84.21245	0.672875
2009		1.112051	50	0.81939 7	0.03409 5	0.03066	44.96195	0.736834
2008		0.964863	50	#DIV/0!	0.04070 2	0.042184	51.82085	0
2012	May & Baker	0.898046	600	1.44636 9	0.07683 3	0.085555	668.1174	1.610574
2011		0.743989	300	1.19089 1	0.05397 2	0.072544	403.2318	1.600683
2010		0.513626	300	1.44453 2	0.09384 5	0.182712	584.083	2.812422
2009		0.602951	470	1.61615 5	0.05095 7	0.084512	779.499	2.680406
2008		0.697378	500	#DIV/0!	0.04794 6	0.068752	716.9714	0
2012	JaPaul	0.099145	108	0.83959 5	0.17159 9	1.73078	1089.309	8.468322
2011		2.113396	324	1.22731 7	0.16238 6	0.076837	153.3078	0.580732
2010		0.843203	162	1.35243	0.13555 8	0.160766	192.1246	1.60392
2009		0.522512	171	0.63324 5	0.19504 8	0.373289	327.2654	1.211925
2008		0.732595	263	#DIV/0!	0.17796 6	0.242925	358.9976	0
2012	Triple Gee	0.466972	641	1.20324 9	0.17087 1	0.365912	1372.673	2.576703
2011		0.616498	731	1.06170 2	0.15818 5	0.256586	1185.729	1.722149
2010		0.476267	470	1.01901	0.12839 2	0.26958	986.841	2.139576
2009		0.450058	276	0.69594 1	0.09404 7	0.208966	613.254	1.546335
2008		0.505981	335	#DIV/0!	0.11767 5	0.232569	662.0808	0
2012	Costain	-4.49536	221	1.72031 1	0.09231 5	-0.02054	-49.1618	-0.38269
2011		-1.19913	68	1.39894	0.03579	-0.02985	-56.7078	-1.16663

				1	2			
2010		-2.46022	-931	0.42080 8	-1.33899	0.544256	378.4209	-0.17104
2009		16.04267	-176	1.23184 3	-0.12694	-0.00791	-10.9707	0.076785
2008		15.33267	-293	#DIV/0!	-0.37167	-0.02424	-19.1095	0
2012	Afromedia	8.676576	-9.9	0.18855 5	-2.6858	-0.30955	-1.141	0.021731
2011		0.80684	-7	0.35554 5	-0.09294	-0.11519	-8.67583	0.440664
2010		0.764053	10.91	0.52156 4	0.11789 6	0.154304	14.27912	0.682629
2009		0.4698	8.44	0.42643	0.14218 8	0.302657	17.96509	0.907685
2008		0.213195	10.87	#DIV/0!	0.22417 4	1.051498	50.98609	0
2012	BOC Gases	6.061569	8.17	0.74477 6	0.01570 1	0.00259	1.347836	0.122869
2011		3.514302	9.65	0.61571 1	0.02513 2	0.007151	2.745922	0.175201
2010		3.221964	20.72	1.61602 7	0.04042 1	0.012545	6.43086	0.501566
2009		1.846837	23	0.64086	0.13773 7	0.07458	12.45373	0.347004
2008		1.36802	0.08	#DIV/0!	0.08312 1	0.06076	0.058479	0
2011	Unilever	0.65757	145	4.66156	0.10034	0.152592	220.5087	7.089067
2010		0.408429	111	4.69240 3	0.08931 4	0.218678	271.7729	11.4889
2009		0.374794	108	4.91169 9	0.09203 5	0.245561	288.1582	13.10506
2008		0.45922	69	4.32561 2	0.06946 8	0.151273	150.2547	9.419471
2007		0.717029	28	#DIV/0!	0.0317	0.04421	39.05005	0
Total for 150 observations						$\Sigma 762.0256$	$\Sigma 346156.9$	$\Sigma 4758.31$
Sample Average = (Total/150 observations)						5.046527	2292.43	31.512
Industry Average = (Sample Average/N) where N = 30 Firms						0.16821	76.4143	1.0504

Source: Author's Compilation from Audited Financial Report of various firms