

1 A Cross Sector Comparison of Financial Trends in Textile, Food
2 and Chemical Sectors: An Empirical Analysis of Profitability,
3 Leverage, Liquidity and Activity

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7

8 **Abstract**

9 The aim of the study is to use ratio analysis to observe significant financial trends within three
10 major sectors of the non financial industry for the 2005-2010 period?.namely textile, food and
11 chemical sectors. Consequences shows that at least for the test period, 11 out of 14 financial
12 ratios are statistically different across the three non financial sectors. By itself, economic
13 trends and cross sectional abnormalities with in observed non financial industry segments are
14 better embedded.

15

16 **Index terms—**

17 **1 Introduction**

18 he model of this research is extracted from private and government companies included in non financial industry.
19 The focal point of this investigation is on investment management because of its significance in commerce and
20 industry the specific focus is on financial ratio analysis. Financial ratios give the advantage when they are matched
21 up with other matching ratios. When we are using ratios in order to check the performance of a company two
22 different approaches are attained they judge due course and they provide the comparison between two companies
23 or more than two. Eventually, evaluating a ratio of one Author ? ?: Lahore Business School, The University
24 Of Lahore. e-mails : hirraghafoor@gmail.com, ramiz_rehman@hotmail.com certain ratios appear to be getting
25 poorer position it indicates that firm is in declining position. It is important to judge a company's ratios in
26 comparison to other industries. If we are performing comparison of different firms and it shows that one firm's
27 ratio is increasing eventually, we must find out whether it is increasing in comparison to its competitor. If it
28 isn't as flushed as its opponents. This indicates that company isn't is in sound situation or handled well as its
29 other industry rivals are.(Kousar and Saba, 2012) did a wise compariso of banks (Salman and Qamar, 2011) used
30 two pharmaceuticals and compared them by using appropriate financial ratios. We here compare the operational
31 and financial position of the entire sectors (textile, food and chemical) which one's performance is superlative
32 as compared to others. We check the impact of TA and TS on dependant variables i.e. profitability, liquidity,
33 activity and leverage.

34 **2 II.**

35 Literature Review (Justin, 1924) The period 1920's was the time which shows great interest of analysts about the
36 use of financial ratios for measuring future financial failures and the effect of financial statements (Gilman, 1925)
37 thought current ratio was the only ratio for the analysis of financial staement ??Wall and Dunning, 1928) were
38 the first who gave the idea of using many ratios rather than only current ratio (Bliss, 1923) merge financial ratios
39 with business returns (Smith and Winakor, 1935) proceed the work of Wall and propose that CA to TA and Net
40 Worth to TA give more accurate result than CR (Holdren, 1964) establish that financial ratios also examine the
41 effect of Lifo and Fifo methods of inventory assessment on financial ratios (Beaver, 1966) use financial ratios to
42 predict future failure in profile analysis (Altman, 1968) prompted by giving position to these ratios accordind

3 IV. METHODS AND RESULTS

43 to their weights (Horrigon, 1968) predicted these ratios will be very helpful for conducting research when the
44 income is limited (Dakin, 1972) continue the work of Study solely depend on the published financial data, so it
45 is subject to all limitations that are inherent in the condensed published financial statements. Inflation couldn't
46 be taken into contemplation in the present study. It was not possible to convert the relevant financial data into
47 their present values because of non availability of sufficient information required for the purpose. The study is
48 of crucial importance to measure the firm liquidity, leverage, activity and profitability and other indicators that
49 the business is conducted in a rational and normal way. Multiple analysis of variance with independent sample
50 characteristics were analysed through Statistical Package for the Social Sciences (SPSS). The analysis of variance
51 do not control for several factors that may systematically affect profitability, leverage, liquidity and activity. They
52 are Total Sales and Total Assets. We control for the factors mentioned above in a multiple regression framework.

53 way to recognize a company's movement if firm ratios are gradually improving it implies a positive effect on
54 company's financial situation. On the other hand if company in comparison to another company is a factual
55 Beaver by adding cash to sale ratio ??O Connor, 1973) prefer weighted index instead of using singly used ratios
56 to predict financial failures but still there is a sign of instability to forecast ROR (Abdul Khalil, 1974) criticize
57 by providing evidence about the lack of usefulness of ratios ??O Connor, 1974) replied ratios are the first step
58 in predicting ROR. After this era research continues using financial ratios in foretelling different aspects as Long
59 term and Short term financial decision making (Backer and Gosman, 1980) profitability (Dholakia, 1978) level
60 of risk (Choi, Hino, Min, Nam, Ujiie, Stonehill, 1983) determine particular ratio is not adequate to measure
61 performance rather than using a group of ratios (Soenon and Bulke, 1988) describe a ratio defines a relationship
62 between two facts numerator and denominator (MC leary, 1992) bankruptcy (Rujoub, Cook, Hay, 1995) financial
63 failure (Bar and Siems, 1996) distinguish failed banks from non failed (Yeh, 1996) observations. We exclude
64 financial firms from the analysis reported here. We take all companies of the three mentioned sectors because
65 if we make a sample with criteria as a company attaining share value of above 90 percent will be included in
66 our sample, the study will furnish biased results. The motive is to integrate those companies whose total assets
67 and total sales should not be zero. For this the number of companies taken in our sample is 263. It excludes
68 the defaulter companies which were black listed by Karachi Stock Exchange on 31 st December 2012. The total
69 number of defaulter companies for these sectors is 114.

70 Summary figures computing size indicate that they are precisely huge firms. The average of the annual sale of
71 chemical sector is greater than that of the food and textile sector. If we measure these companies in term of size
72 than it is found that government firms employ more people than private firm so the size of government firms is
73 always greater than the private firms.

74 3 IV. Methods and Results

75 (Beaver, 1966) and (Altman, 1968) were the first who used these yard sticks called financial ratios. The objective
76 of our study is the comparison of profitability, leverage, liquidity, activity for the model companies present in
77 textile, food and chemical sector. It determines which sector is working more efficiently as compared to other
78 sectors of Pakistan. Efficiency in our study measures operational cycle efficiency of an industry which includes
79 how asset is managed sufficiently to get profit of an industry. The operating cycle is cash-RM-WIP-FG-A/R-cash.
80 R.M includes labor FOH and A/R. it shows if operational cycle is working efficiently than the overall profitability
81 of an industry is high. The ratios that measure the efficiency are Inventory Turnover, Total Asset Turnover.

82 Altman, Beaver judge against two sectors. They used models to compare these two groups. The model
83 used by them is ratio analysis and bankruptcy. They used average mean value of two groups to have economic
84 comparison. We focus on the leverage, liquidity, profitability, and activity comparison of these sectors of KSE.
85 Profitability is proxied by ROA, ROE, ROCE and Net Profit Margin. Two ratios are Current and quick ratios
86 which are accepted measures of the liquidity of a firm. Another variable leverage is measured through interest
87 cover, dividend cover, debt equity and cash flow to debt ratio. Another aspect of the firm includes activity
88 proxied by asset turnover and inventory turnover.

89 In order to determine the difference between sectors (textile, food and chemical) i.e. means of theses
90 independent variables the Wilk's Lamda is used. The omnibus MANOVA test indicates that Wilk's Lamda.
91 In this test Wilk's Lamda $p = 0.000$ which the three groups are significant different in term of the fourteen
92 financial ratios.

93 Debt equity ratio, ROA, ROE, ROCE, Inventory turnover, Net Profit Margin, EPS. However, Dividend cover
94 ($f = 0.131$, $p = .878$), Interest cover ($f = 1.130$, $p = 0.349$), Operating cash flow to debt ratio ($f = 0.547$,
95 $p = 0.590$) are not significantly different among textile, food and chemical sector. In order to find where the
96 differences are present in these ratios we use post -hoc (LSD) strategy. The mean difference is significant at 0.05
97 levels. In case of quick ratio chemical vs food ($MD = 0.5917$, $p = 0.00$), chemical vs textile ($MD = 0.4100$, $p =$
98 0.000) which are significantly different whereas food vs textile ($MD = -0.1817$, $p = 0.017$) which is not significantly
99 different. Asset turnover ratio for chemical vs food ($MD = -0.4483$, $p = 0.000$), food vs textile ($MD = 0.6633$, $p =$
100 0.000), and for chemical vs textile it is ($MD = 0.2150$, $p = 0.018$) which is not significantly different. current ratio
101 for chemical vs food ($MD = 0.5217$, $p = 0.000$), chemical vs textile ($MD = 0.3083$, $p = 0.001$) which are significantly
102 different where as current ratio food vs textile ($MD = -0.2133$, $p = 0.015$) which is not significantly different. ROE
103 for chemical vs food ($MD = 1.8433$, $p = 0.629$) which is not significantly different where as chemical vs textile
104 and food vs textile are significantly different. ROCE food and chemical industry are higher than textile whereas

105 chemical vs food (MD= 7.5567, p= 0.044) are not significantly different whereas chemical vs textile and food
106 vs textile are significantly different. Inventory turnover is higher for chemical than for food and textile and is
107 significantly different for all the three sectors i.e. p=0.000. Dividend cover ratio is higher for chemical sector
108 than for textile and food sector. DCR for chemical vs food (MD= 0.3917, p=0.822), chemical vs textile (MD= 0.8750, p= 0.617), food vs textile (MD= 0.4833, p=0.782). Interest cover ratio is higher for chemical than for
110 food. ICR for chemical vs food (MD = 0.83, p=0.418), chemical vs textile (MD= 1.50, p=0.154), food vs textile
111 (MD= 0.67, p=0.515). NPM is statistically significantly different for all the sectors but it is highest for chemical
112 sector than food and textile. Operating cash flow to debt ratio is not significantly different which is chemical vs
113 food (p = 0.887), chemical vs textile (p = 0.3460), food vs textile (p = 0.425).

114 V. Time Series Analysis of Textile, Food and Chemical Sectors a) Data

115 The initial sample comes from three sectors of KSE. We here check the dependency of profitability, graphically.
116 There are also various factors that logically affect the profitability, leverage, liquidity and activity. Two most
117 noticeable factors are total assets and total sales. We can control the exceeding issues of profitability, leverage,
118 liquidity and activity in a multi variant regression model. Evaluation of these are reverted on these two factors
119 i.e. assets and sales. Our time series analysis use accounting data which consists of only those firms for which
120 income statement and balance sheet are available for six years period. The blacklisted and defaulters are excluded
121 from the data. VI. Changes in Profitability, Leverage, Liquidity and Activity for Textile, Food and Chemical
122 Sectors

123 In our cross-sectional comparisons we measure profitability, liquidity, leverage and activity. Our extensive
124 approach is to compute the intensity of these measures over different time periods and to illustrate interventions
125 from changes in the intensity of these measures. Our accounting data will give more accurate results than the
126 results present in annual reports of these firms. So here we discuss those measures that are not discussed in last
127 section (cross-sectional comparisons). For profitability measure we use ROA, ROE, ROCE, NPM paralleling the
128 liquidity of a company we use current ratio and quick ratio. Another variable leverage is proxied by interest cover
129 ratio, dividend cover, debtequity ratio and cash flow to debt ratio and the last we examine activity in relation to
130 asset turnover and interest turnover.

131 liquidity, activity and leverage on Total Assets and Total Sales. So it overall gives the impact of Total Assets
132 and Total Sales on dependant variables i.e. profitability, liquidity, activity and leverage. We use financial ratios
133 to evaluate the movements among those ratios here by use the time series data. We use six year data for a single
134 ratio of a single sector and represent it 1 shows the strength of association between dependant variables quick and
135 current ratios and all the independent variable joined together i.e. total assets and total sales and the influence of
136 independent variable on the liquidity of food, textile and chemical sectors. It was observed that noncurrent asset
137 increased by one unit quick ratio increased by 3.081 units whereas current ratio decreased by 5.573 units which
138 is statistically significant at 1 percent level whereas current asset increased by one unit quick ratio increased by
139 2.535 units and current ratio decreased by 9.538 that is statistically significant at 1 percent level. However, sales
140 increased by one unit quick ratio decreased by 1.802 units whereas current ratio decreased by 9.538 units which
141 is statistically significant at 1 percent level. The multiple correlated coefficients between the dependant variables
142 quick ratio and current ratio and the independent variables noncurrent asset, current asset, sales are 0.357 and
143 0.441. It indicates that quick ratio and current ratio are affected by noncurrent asset, current asset and sales
144 at some level. It is obvious from the value of R2 that 12.7 percent of variations in quick ratio and 19.4 percent
145 of variations in current ratio were accounted by the joint deviation in current asset, noncurrent asset and sales.
146 Table 2 shows the strength of association between dependant asset turnover and inventory turnover ratios and all
147 the independent variable taken together i.e. total assets and total sales and the influence of independent variable
148 on the liquidity of food, textile and chemical sectors. It was observed that noncurrent asset increased by one unit
149 asset turnover decreased by 3.51 units whereas inventory turnover increased by 5.960 units which is statistically
150 significant at 1 percent level whereas current asset increased by one asset turnover ratio decreased by 4.661 units
151 and inventory turnover ratio decreased by 3.226 which is statistically significant at 1 percent level. However,
152 sales increased by one unit asset turnover increased by 4.177 units whereas inventory turnover ratio increased
153 by 2.644 units which is statistically significant at 1 percent level. The multiple correlated coefficients between
154 the dependant variables asset turnover and inventory turnover and the independent variables noncurrent asset,
155 current asset, sales are 0.973 and 0.591. It indicates that asset turnover and inventory turnover are affected by
156 noncurrent asset, current asset and sales at some level. It is obvious from the value of R2 that 94.6 percent
157 of variations in asset turnover and 34.9 percent of variations in inventory turnover are accounted by the joint
158 deviation in current asset, noncurrent asset and sales. Table 3 Figure 1 represents illustrative graph of the sample
159 taken from annual reports of textile, food and chemical sectors for liquidity measures for a period of six years.
160 The graph shows that average quick ratio during the years for textile sector is essentially flat till 2008 and then
161 decrease with slight intensity. In the same pattern quick ratio for food sector will remain unchanged throughout
162 the six years that's why it is less noticeable whereas chemical sector peaks in 2007 and then declines sharply till
163 2010. The same model appears for average current ratio during the years the textile sector is flat till 2008 and
164 then starts declining whereas the food sector remains constant throughout the six years period. The chemical
165 sector peaks sharply in 2007 and then starts declining with high tendency. Figure 2 shows a graph of the measure
166 of average activity ratio for the six years peiod. The asset turnover ratio for textile,food and chemical remains
167 unchanged throughout the six years period. There is only a slight difference between these years. Whereas,

4 VII. CONCLUSION

168 the inventory turnover ratio for textile increase gradually till 2007 then decrease for one year and then starts
169 increase for 2009 and 2010. At the same pattern food sector increase sharply in 2007 than remains unchanged
170 and increase at high intensity in 2010. Chemical sector falls in 2008 then peaks in 2009 then declines slightly in
171 2010. Figure ?? and 4 give the graphs of the measure of average, activity, profitability and leverage ratios and
172 changes in trends of above mentioned sectors by using these ratios.

173 4 VII. Conclusion

174 The examination of multi variate test table indicates that the means of textile, food and chemical are significantly
175 different in term of eleven ratios i.e. Quick ratio, Trade debt, Asset turnover, Current ratio, Debt equity ratio,
176 ROA, ROE, ROCE, Inventory turnover, Net Profit Margin, EPS. However, Dividend cover ($f = 0.131$, $p =$
177 $.878$), Interest cover ($f = 1.130$, $p = 0.349$), Operating cash flow to debt ratio ($f = 0.547$, $p = 0.590$) are not
178 significantly different among textile, food and chemical sector. In order to find where the differences are present
179 in these ratios we use post -hoc (LSD) strategy. The mean difference is significant at 0.05 levels. Chemical
180 sector's ability to meet current liabilities is higher than textile nad food sector so it has higher liquidity. AT is
181 high for food industry than chemical and textile industry. Current ratio for chemical sector is higher than the
182 two. Food industry indicate high risk as it is able to meet its long term and other obligations than other two
183 sectors. Chemical industry earn more return on its assets than food and chemical. Same as, due to high ROE it
184 indicates more income is generated by given level of assets. ROCE is same for food chemical as well as textile
185 sector. Chemical sector represents efficient inventory management as the industry is efficient in managing and
186 selling inventory. DCR and ICR for chemical sector is higher because it can meet interest obligations. NPM
187 is used to measure the amount of income that a company is able to generate for its revenue. Higher its value
188 higher will be the profitability. So the chemical sector has high profitability than food and textile. Operational
189 cash flow to debt ratio is not significantly different for all the three sectors. Cash flow is an actual amount that
190 a company is engendering to run its future business. Higher the cash flow the more leverage the company is
191 considered. Leverage and financial risk of a company. For textile and food it is .3460 and .425. The minimum
192 level given to this ratio is 0.2. By using which is obvious in multi variant comparison and multi variant regression.
193 The difference in profitability of chemical sector is not only statistically significant but also huge. So it various
194 measures we came to know that textile and food firms are significantly less profitable than chemical firms. The
195 result is rather tough provides support to the above point that chemical sector performance is superlative as
compared to food and textile. ¹



Figure 1: Note: Figure 1

¹ A Cross Sector Comparison of Financial Trends in Textile, Food and Chemical Sectors: An Empirical Analysis of Profitability, Leverage, Liquidity and Activity

whether private companies are working more or less as to publically traded companies (Deventer and Malatesta, 2001) effect of inflation on financial results (Tatoglu, 2003) liquidity (S.k. Acarvci, 2007) operational nad financial performance of public and private sector (Aftab, Nasr, 2008) liquidity and profitability for financial situation and profit/loss (Karacaer, Kapusuzoglu, 2008) financial analysis (Mukhuti, Bhunia and Roy, 2011) the alliance between liquidity and profitability (Bhunia and Brahma, 2011) financial and operational position of insurance companies (H. Malik, 2011) association between profitability and liquidity ratios (Bhunia, Khan and Mukhuti, 2011) manufacturing sector of india 3years before Merger and Acquisition and 3 years after (Leepsa and Mishra, 2012) relationship between profitability and liquidity ratios (Khan, Sajjad, 2012)

III. Cross-Sectional Comparison of Textile Food and Chemical Sectors

a) Data

Our cross-sectional comparison use data accessed through websites of Karachi Stock Exchange, State Bank of Pakistan and Annual reports of incorporated firms. This study integrates secondary data for six years period. The information reported for most of the companies include its Assets, Debt, Equity, Capital employed,

Figure 2:

1

Dependant variable	Explanatory variables				R	R2
	NCA	CA	Sales			
QR	3.081	2.535		-1.802	.357	.127
CR	-5.573	2.707		-9.538	.441	.194

[Note: Note: This table reports results of regressions of liquidity, activity, profitability and leverage measures on variables noncurrent assets, current assets and sales.Sales]

Figure 3: Table 1 :

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2

Dependant variable	Explanatory variables				
	NCA	CA	Sales	R	R2
AT	-3.510	-4.661	4.177	.973	.946
IT	5.960	.3.226	2.644	.591	.349

[Note: Note: This table reports results of regressions of liquidity, activity, profitability and leverage measures on variables noncurrent assets, current assets and sales. Sales and Assets are measured in million of rupees. Figures for sales and assets are from annual reports of textile, food and chemical sectors for 2005, 2006, 2007, 2008, 2009, 2010. MANOVA calculated with Wilk's Lamda are significant at the 1 percent level.]

Figure 4: Table 2 :

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Note: Global Journal of Management and Business Research

Explanatory variables

Dependant variable	NCA	CA	Sales	R	R2
ROA	-3.476	-6.480	-3.932	.2.458	.561
ROE	-7.198	-1.568	1.804	6.574	.820
ROCE			7.774	4.051	.742
NPM			1.642	-7.344	.314

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Figure 5: Table 3 :

4

Dependant variable	Explanatory variables				
	NCA	CA	Sales	R	R2
IC	4.299	-9.11	8.560	.848	.719
DC	5.237	-7.961	-5.414	.243	.059
DE	1.290	-4.132	-7.008	.393	.154
OCD	6.810	-1.470	4.505	.771	.595

Note:

Figure 6: Table 4 :

QR_____CR?..

Figure 7:

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