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Raimount Boan Tua & Francis M. Hutabarat. Financial Distress Analysis Of Food And Beverage
Sub Sector At Indonesian Stock Exchangebased On Springate Method: 198-207
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FINANCIAL DISTRESS ANALYSIS OF FOOD AND BEVERAGE SUB SECTOR AT INDONESIAN STOCK EXCHANGE BASED ON SPRINGATE METHOD

Raimount Boan Tua & Francis M. Hutabarat

Universitas Advent Indonesia

1fmhutabarat@gmail.com, 2manalu.raymont@gmail.com

Abstract

Every company was founded by at least one or more persons. The more people that contribute to the formation of the company surely a lot of opinion will be considered in making a decision. But above all, they have the same thinking that is for profit. And when talking about the profits we can't escaped ourselves of talking about financial performance of the company. Financial performance really essential for the continuance of a company. Any investor who wants to see the performance of a company can look into the financial statement of the company. Investor is essential for every company since they are one way out for companies who want to develop a product or for those company who are experiencing financial problems. There are various ways to analyze the performance and health of a company. And bankruptcy model of Springate method are one of such models. The study used descriptive method and the data used were secondary data derived from the financial report of Manufacturing Companies of Food and Beverage Sub-Sector companies of year 2008 and 2013. The analysis of Springate shows that generally all companies have good financially performance or solvent and financially sound except for 3 companies in 2008, namely: AISA, INDF, and STTP. GGRM, HMSP and WIIM are solvent and does not have financial problems as the score given are below the standard of Springate Model.

Keywords: Springate, Food and Beverage, Financial Distress

INTRODUCTION

very company was founded by at least one or more persons. The more people that contribute to the formation of the company surely a lot of opinion will be considered in making a decision. But above all, they have the same thinking that is for profit. And when talking about the profits we can't escaped ourselves of talking about financial performance of the company. Financial performance really essential for the continuance of a company. Any investor who wants to see the performance of a company can look into the financial statement of the company.

Investor is essential for every company (Tandelilin, 2010) since they are one way out for companies who want to develop a product or for those company who are experiencing financial problems. There are various ways to analyze the performance and health of a company.

A company that are in need of a financial predictions are able to know the financial condition of the company through financial statement analysis, since financial statement depicted the performance of the company. The financial statements can indicate the condition of the company's performance. Through this analysis, one can pinpoint whether the company's allocated their funds and resources inappropriately. The effect can cause a decrease of the company financial performance. The condition stated is called financial distress (Sadgrove, 2005; Vickerz, 2006; Beaver, Correia, and McNichols, 2011, Pucsek, 2013). Any companies can experience financial difficulties to the level of financial distress. Even though the economy is stable, still some companies can also experiencing financial

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distress problems. (Sadgrove, 2005; Vickerz, 2006; Altman and Hotchins, 2006). Financial distress experienced by the company will give concerns of various parties, both internal sectors such as: managers and employees, as well as external parties such company: investors and creditors (Husnan and Pudjiastuti, 2002; Brigham & Houston, 2010; Harahap, 2015).

Financial distress can be seen as the company have negative performance in their operating income and net income (Sawir, 2004; Brahmana, 2007). Liquidity problem also sign of financial distress (Hanifah, 2013, Fahmi, 2014, Hery, 2015, Ida & Santono, 2011). In year 2015 for instance, in Indonesia, there are companies that experiencing poor financial performance and moreover, almost bankrupt (Khumaini, 2015). In Indonesia Stock Exchange there are various sectors of industry. One of them is a manufacturing Sector which comprises of various sub-sectors. In this study, the research will examine the various sub sectors of manufacturing sector, namely the Food and Beverage sub-sector. There are 11 out 14 companies listed in the Indonesia Stock Exchange as food and beverage companies in the sub-sector for this research.

Code	Food and Beverage	Code	Food and Beverage
AISA	PT. Tiga Pilar Sejahtera Food,	PSDN	PT. Prashida Aneka Niaga,
	Tbk		Tbk
CEKA	PT. Wilmar Cahaya Indoensia, Tbk	SKBM	PT. Sekar Bumi, Tbk
DLTA	PT. Delta Djakarta, Tbk	SKLT	PT. Sekar Laut, Tbk
INDF	PT. Indofood Sukses Makmur, Tbk	STTP	PT. Siantar Top, Tbk
MLBI	PT. Multi Bintang Indonesia Tbk	ULTJ	PT. Ultrajaya Milk Industry and Trading Company, Tbk
MYOR	PT. Mayora Indah, Tbk		- , ,

Table 1. Food and Beverage Companies

As Indonesia brimming with various issues and problems, one particular issues arise in terms financial downturn. In 2008, the world has experience world financial crisis that some said has occured in Indonesia. In 2013, there are also analysis on the condition of the nation at the time that have downturn in the ecobomy. It is interesting to look into the condition of the companies especially food and beverage companies that has impact in the day to day consumption of the society especially in Indonesia. Are the company able to cope with the situation or are they in financial distress. Following Altman in 1968, many researcher developed methods or ways to predict the occurrence of financial distress such as Springate in 1978 and Zmijewski in 1984. (Sadgrove, 2005; Vickers, 2006; Pucsek, 2013). Thus, based upon the description given above, this study then will analyze the Financial Distress of Food and Beverage Sub Sectors Companies Listed at Indonesia Stock Exchange using Springate Method.

METHOD OF THE STUDY

The study used descriptive method where the data used collected, analyzed and presented in a descriptive manner. The data used were secondary data derived from the financial report of Manufacturing Companies of Food and Beverage Sub Sector Companies of year 2008 and 2013. The sample used in the study was 11 out of 14 companies that are listed as companies listed at Indonesia Stock Exchange from Food and Beverage Sub Sector. Analysis was done using Springate method of S-Score with four financial ratios: working capital to total asset, earnings before interest and taxes to total assets, profit before tax to total current liabilities, and sales to total assets. The following is Springate method formula:

S-Score = 1.03X1 + 3.07X2 + 0.66X3 + 0.4X4

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The assessment of Springate formula:

- S < 0862 Prediction is that company potentially experiencing financial difficulties and potentially going bankrupt.
- S > 0862 Prediction is that the company is solvent thus has sound financial performance

The analysis on the differences of Food and Beverage companies S-Score is done using paired sample t-test.

RESULT OF THE STUDY

PT. Tiga Pilar Sejahtera Food Tbk (AISA)

Food and Beverage sub-sector is one of the industrial sector listed at Indonesian Stock Exchange. There are 11 out of 14 companies listed in the sub sector in the study (see Table 1). The following Table 2 shows AISA Springate Method S-Score that gives the financial condition of the companies. Springate used S-Score standard of 0.862 to differentiate companies that financially sound and companies that are potentially bankrupt.

Table 2. S-Score AISA

AISA	2008	2013	Springate	2008	2013
Asset	1,016,958	5,020,824	X1	-0.042	0.215
Liability	625,913	2,664,051	X2	0.16	0.275
Working Capital	-41,786	1,048,280	Х3	0.205	0.533
EBIT	52,975	449,586	X4	0.192	0.323
EBT	112,976	613,246	S-score	0.515	1.346
Sales	489,172	4,056,735	Interpretation	Bankrupt	Solvent

Table 2 shows the results of S-Score of AISA in year 2008 and 2013. The results shows that in 2008 AISA can't cope with the financial crisis and have the result of analysis of Financial Distress and potentially Bankrupt. However, in year 2013 the result of S-Score is 1.346 above the standard 0.862 that means that the company is financially sound and healthy.

PT. Wilmar Cahaya Indonesia Tbk (CEKA)

The following Table 3 shows CEKA Springate Method S-Score that gives the financial condition of the companies. Springate used S-Score standard of 0.862 to differentiate companies that financially sound and companies that are potentially bankrupt.

Table 3. S-Score CEKA

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CEKA	2008	2013	Springate	2008	2013
Asset	604.642	1,069,627	X1	0.599	0.316
Liability	357.737	541.352	X2	0.214	0.248
Working Capital	351.914	328.084	Х3	1,044	1,562
EBIT	42.124	86.553	X4	1,299	0.947
EBT	87.863	90.91	S-score	3,156	3,073
Sales	1,963,638	2,531,881	Interpretation	Solvent	Solvent

Table 3 shows the results of S-Score of CEKA in year 2008 and 2013. The results shows that in 2008 and 2013 CEKA result shows S-Score above the standard 0.862 2008 (3.156), and 2013 (3.073) that means that the company is financially sound and healthy.

PT. Delta Djakarta Tbk (DLTA)

The following Table 4 shows DLTA Springate Method S-Score that gives the financial condition of the companies. Springate used S-Score standard of 0.862 to differentiate companies that financially sound and companies that are potentially bankrupt.

Table 4. S-Score DLTA

DLTA	2008	2013	Springate	2008	2013
Asset	698,297	867,041	X1	0.591	0.723
Liability	174,316	190,483	X2	0.518	1.269
Working Capital	400,615	608,896	Х3	0.46	1.523
EBIT	117,738	358,396	X4	0.674	0.923
EBT	100,039	605,264	S-score	2.243	4.438
Sales	1,177,061	2,001,359	Interpretation	Solvent	Solvent

Table 3 shows the results of S-Score of DLTA in year 2008 and 2013. The results shows that in 2008 and 2013 DLTA result shows S-Score above the standard 0.862 2008 (2.243), and 2013 (4.438) that means that the company is financially sound and healthy.

PT. Indofood Sukses Makmur Tbk (INDF)

The following table 5 shows INDF Springate Method S-Score that gives the financial condition of the companies. Springate used S-Score standard of 0.862 to differentiate companies that financially sound and companies that are potentially bankrupt.

Table 5. S-Score INDF

INDF	2008	2013	Springate	2008	2013

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Asset	39,594	78,093	X1	-0.043	0.171
Liability	184,486	39,72	X2	0.202	0.264
Working Capital	-1,664	12,993	Х3	0.176	0.488
EBIT	2,6	6,718	X4	0.392	0.296
EBT	4,341	14,33	S-score	0.727	1.219
Sales	38,799	57,732	Interpretation	Bankrupt	Solvent

Table 2 shows the results of S-Score of INDF in year 2008 and 2013. The results shows that in 2008 INDF can't cope with the financial crisis and have the result of analysis of Financial Distress and potentially Bankrupt with S-Score of 0.727. However, in year 2013 the result of S-Score is 1.219 above the standard 0.862 that means that the company is financially sound and healthy.

PT. Multi Bintang Indonesia Tbk (MLBI)

The following table 6 shows MLBI Springate Method S-Score that gives the financial condition of the companies. Springate used S-Score standard of 0.862 to differentiate companies that financially sound and companies that are potentially bankrupt.

MLBI 2008 2008 2013 2013 Springate Asset 941,389 1,782,148 X1 -0.04 -0.009 Liability 597,123 794,615 X2 1.024 2.717 Working -36,331 -16,29 Х3 0.337 1.319 Capital **EBIT** Χ4 313,976 0.563 0.799 1,576,945 **EBT** 286,286 1.884 4.826 S-score 2,283,604 Sales Solvent Solvent 1,325,661 3,561,989 Interpretation

Table 6. S-Score MLBI

Table 3 shows the results of S-Score of MLBI in year 2008 and 2013. The results shows that in 2008 and 2013 MLBI result shows S-Score above the standard 0.862 2008 (1.884), and 2013 (4.826) that means that the company is financially sound and healthy.

PT. Mayora Indah Tbk (MYOR)

The following table 7 shows MYOR Springate Method S-Score that gives the financial condition of the companies. Springate used S-Score standard of 0.862 to differentiate companies that financially sound and companies that are potentially bankrupt.

Table 7. S-Score MYOR

MYOR 2008	2013	Springate	2008	2013
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2,922,998	9,710,223	X1	0.322	0.398
1,646,322	5,816,323	X2	0.288	0.429
915,052	3,753,153	Х3	0.296	0.817
274,07	1,356,073	X4	0.535	0.495
345,42	1,304,809	S-score	1.441	2.139
3,907,674	12,017,837	Interpretation	Solvent	Solvent
	1,646,322 915,052 274,07 345,42	1,646,3225,816,323915,0523,753,153274,071,356,073345,421,304,809	1,646,322 5,816,323 X2 915,052 3,753,153 X3 274,07 1,356,073 X4 345,42 1,304,809 S-score	1,646,322 5,816,323 X2 0.288 915,052 3,753,153 X3 0.296 274,07 1,356,073 X4 0.535 345,42 1,304,809 S-score 1.441

Table 7 shows the results of S-Score of MYOR in year 2008 and 2013. The results shows that in 2008 and 2013 MYOR result shows S-Score above the standard 0.862 2008 (1.441), and 2013 (2.139) that means that the company is financially sound and healthy.

PT. Prashida Aneka Niaga Tbk (PSDN)

The following table 8 shows PSDN Springate Method S-Score that gives the financial condition of the companies. Springate used S-Score standard of 0.862 to differentiate companies that financially sound and companies that are potentially bankrupt.

Table 8. S-Score PSDN

PSDN	2008	2013	Springate	2008	2013
Asset	286,965	681,832	X1	0.36	0.232
Liability	150,807	264,232	X2	0.669	0.195
Working Capital	100,377	153,663	Х3	0.493	1.239
EBIT	62,502	43,238	X4	0.994	0.751
EBT	42,051	56,942	S-score	2.516	2.417
Sales	713,114	1,279,553	Interpretation	Solvent	Solvent

Table 8 shows the results of S-Score of PSDN in year 2008 and 2013. The results shows that in 2008 and 2013 MYOR result shows S-Score above the standard 0.862: 2008 (2.516), and 2013 (2.417) that means that the company is financially sound and healthy.

PT. Sekar Bumi Tbk (SKBM)

The following table 9 shows SKBM Springate Method S-Score that gives the financial condition of the companies. Springate used S-Score standard of 0.862 to differentiate companies that financially sound and companies that are potentially bankrupt.

Table 9. S-Score SKBM

SKBM	2008	2013	Springate	2008	2013
Asset	189,505	497,653	X1	-0.581	0.139
Liability	217,184	296,528	X2	0.136	0.483
Working Capital	-106,84	67,329	Х3	0.203	1.72
EBIT	8,417	78,305	X4	1.19	1.042
EBT	62,383	146,58	S-score	0.948	3.384
Sales	563,956	1,296,618	Interpretation	Solvent	Solvent

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Table 9 shows the results of S-Score of SKBM in year 2008 and 2013. The results shows that in 2008 and 2013 SKBM result shows S-Score above the standard 0.862: 2008 (0.948), and 2013 (3.384) that means that the company is financially sound and healthy.

PT. Sekar Laut Tbk (SKLT)

The following table 10 shows SKLT Springate Method S-Score that gives the financial condition of the companies. Springate used S-Score standard of 0.862 to differentiate companies that financially sound and companies that are potentially bankrupt.

2008 **SKLT** 2013 2008 **Springate** 2013 Asset 201,003 301,989 X1 0.213 0.1 Liability 100,335 162,339 X2 0.113 0.169 **Working Capital** 41,626 29,396 Х3 0.079 1.239 **EBIT** 7,367 16,598 X4 0.623 0.751 **EBT** 7,091 19,691 S-score 1.028 2.259 Sales 313,125 567,049 Solvent Solvent Interpretation

Table 10. S-Score SKLT

Table 9 shows the results of S-Score of SKLT in year 2008 and 2013. The results shows that in 2008 and 2013 SKBM result shows S-Score above the standard 0.862: 2008 (1.028), and 2013 (2.259) that means that the company is financially sound and healthy.

PT. Siantar Top Tbk (STTP)

The following table 11 shows STTP Springate Method S-Score that gives the financial condition of the companies. Springate used S-Score standard of 0.862 to differentiate companies that financially sound and companies that are potentially bankrupt.

STTP	2008	2013	Springate	2008	2013
Asset	626,75	1,470,059	X1	0.082	0.06
Liability	263,313	775,931	X2	0.018	0.298
Working Capital	50,142	85,275	Х3	0.087	0.761
EBIT	3,678	142,799	X4	0.399	0.461
EBT	29,169	310,019	S-score	0.586	1.580
Sales	624,401	1,694,935	Interpretation	Bankrupt	Solvent

Table 11. S-Score STTP

Table 11 shows the results of S-Score of STTP in year 2008 and 2013. The results shows that in 2008 and 2013 SKBM result shows S-Score above the standard 0.862: 2008 (0.586), and 2013 (1.580) that means that the company is financially sound and healthy.

PT. Ultrajaya Milk Industry and Trading Company Tbk (ULTJ)

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The following table 12 shows ULTJ Springate Method S-Score that gives the financial condition of the companies. Springate used S-Score standard of 0.862 to differentiate companies that financially sound and companies that are potentially bankrupt.

Table 12. S-Score ULTJ

ULTJ	2008	2013	Springate	2008	2013
Asset	1,718,997	2,811,621	X1	0.228	0.341
Liability	1,135,324	796,476	X2	0.48	0.477
Working Capital	380,774	929,716	Х3	0.39	0.812
EBIT	268,782	436,72	X4	0.317	0.492
EBT	250,723	423,195	S-score	1.415	2.122
Sales	624,401	1,694,935	Interpretation	Bankrupt	Solvent

Table 12 shows the results of S-Score of ULTJ in year 2008 and 2013. The results shows that in 2008 and 2013 ULTJ result shows S-Score above the standard 0.862: 2008 (1.415), and 2013 (2.122) that means that the company is financially sound and healthy.

Analysis of Data Differences

The differences of the Food and Beverage companies in their S-Score of year 2008 and 2013 was analyzed using paired-sample t-test. The following table 13 shows the paired results of the companies listed at Food and Beverage sub sector. The results shows that the S-Score of companies in 2013 are all above the standard 0.862 which means they are financially sound or healthy. On the other hand, on 2008, there are three companies that have S-Score below the standard 0.862, they are: AISA (0.515), INDF (0.727), STTP (0.586) which means they have potential to be bankrupt.

Table 13. S-Score ULTJ

2008	2013
0.515	1.346
3.156	3.073
2.243	4.438
0.727	1.219
1.884	4.826
1.441	2.139
2.516	2.417
0.948	3.384
1.028	2.259
0.586	1.58
	0.515 3.156 2.243 0.727 1.884 1.441 2.516 0.948 1.028

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ULTJ 1.415 2.122

Table 14. Paired Sample t-test

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Year 2008	1.4963	11	.86112	.25964
	Year 2013	2.6185	11	1.19494	.36029

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	Year 2008 & Year 2013	11	.568	.068

Paired Samples Test

		Paired Differences					11		
		Mean		Std. Error Mean	95% Confidence Interval of the Difference				
			Mean Std. Deviation		Lower	Upper	ti.	df	Sig (2-tailed)
Pair 1	Year 2008 - Year 2013	-1.12218	.99975	30144	-1.79382	- 45054	-3.723	10	.004

In analyzing the significant differences of the result of year 2008 and 2013 of Food and Beverage companies, the result shows that there is significant difference between S-Sore of Food and Beverage Companies in Year 2008 and 2013 with = 0.004 at = 0.05. The difference is because the difference in average S-Score in 2008 with 1.4963 and in year 2013 with 2.6185 which means the year 2013 has Food and Beverage Companies with better performance.

CONCLUSION

The study concluded that based on the results of the study the Food and Beverage Sub Sector has generally good financial performance in Year 2013. On the other hand, during the world financial crisis on 2008, out of 11 companies studied, only three companies that have performance below the standard given and have potential to be bankrupt, they are: AISA, INDF and STTP based on the S-Score score performance. Thus, Food and Beverage companies are then recommended based on the study for investors to invest. For the company itself, they can further use this method to assess their performance and bankruptcy level. The study also suggest further research using different method or different companies to analyzed.

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