

Rhino Resource Partners LP (RNO)

Price:	\$14.00	Net Tang. Bk Value Incl. Cash (NTBVIC):	\$305,390,000.00	Net Tang. Book Yr. 5 (Inc. Cash):	\$492,431,898.69
Market Cap:	\$388,780,000	NTBVIC/Market Downside Recovery:	78.55%	Avg. Year FCF/Share:	\$20,036,152.35
Cash:	\$700,000	Op. Cash Flow:	\$78,305,120	Year 5 Disposition FCF Multiple:	3.0
Debt:	\$162,380,000	Implied Years to Fill Gap:	1.06	Year 5 Disposition Price:	\$552,540,355.73
Net Cash:	-\$161,680,000	Today's Equity if 5x Op. CF:	\$540,305,360	Net Tang. Book+ Gain Disposition:	\$552,540,355.73
Enterprise Value:	\$550,460,000	IRR:	7.28%	Price:	\$19.90
Shares Outstanding:	27,770,000			Target Market Cap:	\$552,540,356
				Target Enterprise Value:	\$714,220,356

* Our future intrinsic value measures the total return, which includes both capital appreciation and dividend income.

Rhino Energy LLC was formed by Wexford Capital, a hedge fund co-founded by a UCLA alum, in 2003 and the LP, which is constituted by the coal assets was IPOd in 2010. Wexford owns roughly 66% of the outstanding shares and has the call right to purchase all the outstanding shares if Wexford and its' affiliates acquire 80% of the outstanding shares.

Dividend yield - \$28MM to common, \$11MM to subordinated, and \$1MM to general partner, or a combined \$40MM in distribution. The LP doesn't hold any earnings.

Common shareholders are the common shareholders via the 2010 IPO, Preferred shareholders (Wexford Capital) are the subordinated, and Wexford Capital is the GP. There is 15.35 MM common shares, and 12.4MM subordinated shares. Wexford recognized a cost of conversion from their economic interest to their 9.1MM common shares at \$8/share and 12.4MM subordinated at \$8/share.

If there are 15.3MM shares and it is selling at \$14/share, then the market cap is \$214MM. The payout per common share is \$1.84. With a \$28MM distribution, **this implies a dividend yield for the common shareholders at 13%.**

Wexford at \$173MM initial contribution is making out at \$28MM in distributions annually, or a 16% return on investment.

The Co. sold 4.7 million tons of coal and produced 4.3 million, with the balance purchased from third parties.

Assets

463.7 million tons of coal reserves - 442.8 million steam coal (used at utility company power plants) and 20.9 metallurgical coal (used as raw material for making steel). **Also, 417 million non-reserve coal deposits, or not yet qualified as commercially viable by the SEC. This is a possible catalyst for the Co. should further testing provide proof of economic relevance to the future operations.**

For this particular stock, we are as worried of the ownership structure as the actual business operations.

Year	Present Value	Holding Period					Terminal Value			Sale Price
	0	1	2	3	4	5	6	7	8	TBV at Year 5 + 3 Years FCF
Tangible Book Value	305.39	341.91	378.87	416.28	454.13	492.43				492.43
Annual Change		36.52	36.96	37.40	37.85	38.30				
Annual FCF	17.97	18.31	19.16	20.03	20.90	21.78	20.04	20.04	20.04	60.11
Annual Op. Cash Flow	79.74	78.31	79.16	80.03	80.90	81.78	80.04	80.04	80.04	
Annual PP&E Investment	(61.77)	(60.00)	(60.00)	(60.00)	(60.00)	(60.00)	(60.00)	(60.00)	(60.00)	
Today's Tangible Book Value	305.39	343.84	387.13	435.87	490.75	552.54				552.54
Intrinsic Value IRR	12.59%									
Market Price	388.78	417.10	447.47	480.06	515.03	552.54				552.54
Market Price IRR	7.28%									

Debt	0.00%	0.00
Equity	100.00%	388.78
Total	100.00%	388.78

	Present Value	Holding Period					Terminal Value			Sale Price	
	Historic	ProForma	1	2	3	4	5	6	7	8	
Book Equity	305.39	388.78	425.36	462.38	499.85	537.76	576.12				
Goodwill	0	83.39	83.39	83.39	83.39	83.39	83.39				
Debt	161	161.00	161.00	161.00	161.00	161.00	161.00				
Debt Interest Rate		7.00%	7.00%	7.00%	7.00%	7.00%	7.00%				
Additional Interest Expense		-0.09	-0.09	-0.09	-0.09	-0.09					
Tangible Book Value	305.39	305.39	341.97	378.99	416.46	454.37	492.73				492.73
Annual Change			36.58	37.02	37.46	37.91	38.36				
Annual FCF	17.97	18.36	19.22	20.09	20.96	21.84	21.84	21.84	21.84	21.84	65.53
Annual Net Income	40.22	36.58	37.02	37.46	37.91	38.36	38.36	38.36	38.36	38.36	
Annual Op. Cash Flow	79.74	78.36	79.22	80.09	80.96	81.84	81.84	81.84	81.84	81.84	
Dividend Payments											
Annual PP&E Investment	(61.77)	(60.00)	(60.00)	(60.00)	(60.00)	(60.00)	(60.00)	(60.00)	(60.00)	(60.00)	
Debt Paydown	0.00						0.00	0.00	0.00		

Sale Price in Year 5											558.26
Remaining Debt Balance											0.00

Capital Left for Equity Investor											558.26
Dividend Payments											0.00
Total Cash In Flow											558.26

Invested Equity	388.78	417.96	449.32	483.04	519.29	558.26					
IRR	7.50%										

Value Losers											
Interest payments to Bank	-0.37										
Goodwill Premium to Original Sellers	83.39										
Debt Paydown to Bank											
Debt Increase											
Total Value Losers	83.02										

Value Gap between LBO and unleveraged (5.72)

Unaccounted Value Losers (88.75)

SN VALUATION

LBO Pro Forma Income Statement

Name:

Rhino Resource Partners LP

Ticker:

RNO

	Historical				Forecasted				
	12 months ending 2009-12-31	12 months ending 2010-12-31	12 months ending 2011-12-31	12 months ending 2012-12-31	2013	2014	2015	2016	2017
Revenue	419.79	305.65	367.22	352.00	355.52	359.08	362.67	366.29	369.96
COGS	340.33	223.39	271.51	252.94	266.64	269.31	272.00	274.72	277.47
Gross margin	79.46	82.26	95.71	99.06	88.88	89.77	90.67	91.57	92.49
SG&A	16.75	16.45	21.82	20.44	21.33	21.54	21.76	21.98	22.20
R&D	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unusual expense	1.71	-10.06	-3.17	-4.89	0.00	0.00	0.00	0.00	0.00
Other operating expense	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Depreciation is: Excluded from COGS					0.00	0.00	0.00	0.00	0.00
Operating Income (EBITA)	61.00	75.87	77.06	83.51	67.55	68.22	68.91	69.60	70.29
Interest income/(expense)	-5.26	-0.61	-2.67	-1.91	-11.36	-11.36	-11.36	-11.36	-11.36
Gain (loss) on sale of asset	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Income before tax	19.46	41.15	38.07	40.22	56.19	56.86	57.54	58.23	58.93
Tax	0.00	0.00	0.00	0.00	19.67	19.90	20.14	20.38	20.63
Income after tax	19.46	41.15	38.07	40.22	36.52	36.96	37.40	37.85	38.30
Minority Interest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Equity in affiliates	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Net income	19.46	41.15	38.07	40.22	36.52	36.96	37.40	37.85	38.30
*Figures are in millions (\$)									
EPS (based off today's share count)	\$0.70	\$1.48	\$1.37	\$1.45	\$1.32	\$1.33	\$1.35	\$1.36	\$1.38
P/E (historical today's price; forecasted intrinsic price)	19.98	9.45	10.21	9.67	11.42	12.11	12.83	13.61	14.43
Revenue Growth	N/A	-27.19%	20.14%	-4.14%	1.00%	1.00%	1.00%	1.00%	1.00%
Tax Rate	0.00%	0.00%	0.00%	0.00%	35.00%	35.00%	35.00%	35.00%	35.00%
Implied Debt Interest Rate	-4.31%	-1.67%	-1.87%	-1.17%	-7.06%	-7.06%	-7.06%	-7.06%	-7.06%
Margins									
COGS	81.07%	73.09%	73.94%	71.86%	75.00%	75.00%	75.00%	75.00%	75.00%
Gross margin	18.93%	26.91%	26.06%	28.14%	25.00%	25.00%	25.00%	25.00%	25.00%
SG&A	3.99%	5.38%	5.94%	5.81%	6.00%	6.00%	6.00%	6.00%	6.00%
R&D	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Unusual expense	0.41%	-3.29%	-0.86%	-1.39%	0.00%	0.00%	0.00%	0.00%	0.00%
Other operating expense	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Depreciation is: Excluded from COGS	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Operating Income (EBITA)	14.53%	24.82%	20.98%	23.72%	19.00%	19.00%	19.00%	19.00%	19.00%
Interest income/(expense)	-1.25%	-0.20%	-0.73%	-0.54%	-3.20%	-3.16%	-3.13%	-3.10%	-3.07%
Gain (loss) on sale of asset	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Other	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Income before tax	4.64%	13.46%	10.37%	11.43%	15.80%	15.84%	15.87%	15.90%	15.93%
Tax	0.00%	0.00%	0.00%	0.00%	5.53%	5.54%	5.55%	5.56%	5.58%
Income after tax	4.64%	13.46%	10.37%	11.43%	10.27%	10.40%	10.52%	10.65%	10.77%
Minority Interest	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Equity in affiliates	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Net income	4.64%	13.46%	10.37%	11.43%	10.27%	10.29%	10.31%	10.33%	10.35%

						Adjustment		Adjusted Proforma	2011	2012	2013	2014	2015
	As of 2009-12-31	As of 2010-12-31	As of 2011-12-31	As of 2012-12-31	As of 2013-03-31	+	-						
Cash	0.68	0.08	0.45	0.46	0.70			0.70	19.01	38.17	58.19	79.10	100.88
Short term investment	0.38	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
Cash and Short term	1.06	0.08	0.45	0.46	0.70			0.70	19.01	38.17	58.19	79.10	100.88
Accounts Receivable	24.38	27.35	37.24	33.56	34.00			34.00	34.00	34.00	34.00	34.00	34.00
Other receivables	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
Total Receivables	24.38	27.35	37.24	33.56	34.00			34.00	34.00	34.00	34.00	34.00	34.00
Total Inventory	14.65	16.59	17.58	19.96	15.04			15.04	15.04	15.04	15.04	15.04	15.04
Prepaid Expenses	3.54	4.25	2.21	2.78	3.36			3.36	3.36	3.36	3.36	3.36	3.36
Other Current Assets	1.18	2.09	1.60	0.51	0.03			0.03	0.03	0.03	0.03	0.03	0.03
Current Assets	44.81	50.36	59.08	57.27	53.13	0.00	0.00	53.13	71.44	90.60	110.62	131.53	153.31
PP&E, Gross	398.90	442.11	637.56	682.95	683.00			683.00	743.00	803.00	863.00	923.00	983.00
Change in Depreciation	36.28	34.11	36.33	41.37	41.37			41.37	41.78	42.20	42.62	43.05	43.48
Accumulated Depreciation	128.22	159.53	187.45	225.48	225.00			225.00	266.78	308.99	351.61	394.66	438.14
PP&E, Net	270.68	282.58	450.11	457.47	458.00			458.00	476.22	494.01	511.39	528.34	544.86
Goodwill	0.20	0.20	0.20	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Intangibles	0.81	0.72	1.31	1.23	1.21			1.21	1.21	1.21	1.21	1.21	1.21
Long term investments	17.19	18.75	18.74	23.66	22.96			22.96	22.96	22.96	22.96	22.96	22.96
Other long term assets	6.28	6.04	9.36	13.34	14.20			14.20	14.20	14.20	14.20	14.20	14.20
Long Term Assets	295.16	308.29	479.72	495.70	496.37			496.37	514.59	532.38	549.76	566.71	583.23
Total Assets	339.97	358.65	538.80	552.97	549.50	0.00	0.00	549.50	586.02	622.98	660.39	698.24	736.54
Accounts Payable	13.85	15.49	23.14	18.03	18.00			18.00	18.00	18.00	18.00	18.00	18.00
Accrued Expense	14.89	12.68	14.44	16.66	16.00			16.00	16.00	16.00	16.00	16.00	16.00
Other current Liabilities	5.70	4.80	8.60	8.00	5.82			5.82	5.82	5.82	5.82	5.82	5.82
Total Current Liabilities	34.44	32.97	46.18	42.69	39.82	0.00	0.00	39.82	39.82	39.82	39.82	39.82	39.82
Notes Payables/Short Term Debt	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
Current port. Of LT Debt/Capital Leases	2.24	2.91	1.33	2.35	1.38			1.38	1.38	1.38	1.38	1.38	1.38
Long term Debt	119.90	33.62	141.76	161.20	161.00	0.00	0.00	161.00	161.00	161.00	161.00	161.00	161.00
Capital Lease Obligations	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
Total Interest Earning Debt	122.14	36.53	143.09	163.55	162.38	0.00	0.00	162.38	162.38	162.38	162.38	162.38	162.38
Deferred Income tax	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
Minority Interest	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
Other liabilities	45.00	41.53	42.41	47.58	48.56			48.56	48.56	48.56	48.56	48.56	48.56
Total Liabilities	201.58	111.03	231.68	253.82	250.76	0.00	0.00	250.76	250.76	250.76	250.76	250.76	250.76
Redeemable Preferred Stock	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
Non-redeemable Preferred Stock	0.00	10.41	11.65	11.42	11.17			11.17	11.17	11.17	11.17	11.17	11.17
Common Stock	0.00	236.58	293.10	292.79	292.79		0.00	292.79	292.79	292.79	292.79	292.79	292.79
Additional Paid-in capital	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dividends Paid	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
Retained Earnings	114.02	0.00	0.00	0.00	0.00		0.00	0.00	36.52	73.48	110.89	148.74	187.04
Treasury Stock	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Equity	24.39	0.62	2.35	1.43	1.43		0.00	1.43	1.43	1.43	1.43	1.43	1.43
Total Equity	138.41	247.61	307.10	305.64	305.39	0.00	0.00	305.39	341.91	378.87	416.28	454.13	492.43
Liability + Equity	339.99	358.64	538.78	559.46	556.15	0.00	0.00	556.15	592.67	629.63	667.04	704.89	743.19
Variance	-0.02	0.01	0.02	-6.49	-6.65			-6.65	-6.65	-6.65	-6.65	-6.65	-6.65
Debt/Equity	0.88	0.15	0.47	0.54	0.53			0.53	0.47	0.43	0.39	0.36	0.33
Inventory Turnover	28.65	18.42	20.89	17.64	23.64			23.40	23.64	23.87	24.11	24.35	24.60
Inventory Turnover Days	12.74	19.81	17.47	20.70	15.44			15.60	15.44	15.29	15.14	14.99	14.84
Days Inventory Outstanding	15.71	27.11	23.63	28.80	20.59			21.70	20.59	20.38	20.18	19.98	19.78
Accounts Receivable Turnover	17.22	11.18	9.86	10.49	10.46			10.35	10.46	10.56	10.67	10.77	10.88
Accounts Receivable Turnover Days	21.20	32.66	37.01	34.80	34.91			35.26	34.91	34.56	34.22	33.88	33.54
Days Payable Outstanding	14.85	25.31	31.11	26.02	24.64			25.97	24.64	24.40	24.15	23.92	23.68
Days Sales Outstanding	21.20	32.66	37.01	34.80	34.91			34.80	35.26	34.91	34.56	34.22	33.88
Cash Conversion Cycle	22.06	34.46	29.54	37.58	30.85			30.53	31.20	30.89	30.59	30.29	29.99
Net tangible assets/share	\$4.98	\$8.91	\$11.05	\$10.77	\$10.76				\$12.07	\$13.40	\$14.75	\$16.11	\$17.49

	12 months ending 2009-12-31	12 months ending 2010-12-31	12 months ending 2011-12-31	12 months ending 2012-12-31	2011	2012	2013	2014	2015
Net Income	19.46	41.15	38.07	40.22	36.52	36.96	37.40	37.85	38.30
Depreciation	36.28	34.11	36.33	41.37	41.78	42.20	42.62	43.05	43.48
Net Income + Depreciation	55.74	75.26	74.40	81.59	78.31	79.16	80.03	80.90	81.78
Amortization	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Deferred Taxes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Non Cash Items	2.94	-10.00	1.41	-4.50	0.00	0.00	0.00	0.00	0.00
Change in Working capital	-17.19	-10.26	-8.89	2.65	0.00	0.00	0.00	0.00	0.00
Accounts Receivable	0.00	-2.97	-9.89	3.88	0.00	0.00	0.00	0.00	0.00
Other Receivables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Inventory	0.00	-1.94	-0.99	-2.38	0.00	0.00	0.00	0.00	0.00
Prepaid Expenses	0.00	-0.71	2.04	-0.57	0.00	0.00	0.00	0.00	0.00
Accounts Payable	0.00	1.64	7.65	-5.11	0.00	0.00	0.00	0.00	0.00
Cash from Operating Activities	41.49	55.00	66.92	79.74	78.31	79.16	80.03	80.90	81.78
Capital Expenditures Expenditures	-27.84	-26.25	-91.86	-61.77	-60.00	-60.00	-60.00	-60.00	-60.00
Long term investment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Investing Activities	0.49	-11.40	-96.17	3.37	0.00	0.00	0.00	0.00	0.00
Cash from Investing Activities	-27.35	-37.65	-188.03	-58.40	-60.00	-60.00	-60.00	-60.00	-60.00
Financing Cash flow items	-1.08	5.83	-51.79	-41.56	0.00	0.00	0.00	0.00	0.00
Total Cash Dividends Paid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Issuance (Retirement) of Stock	0.00	62.01	66.92	0.00	0.00	0.00	0.00	0.00	0.00
Issuance (Retirement) of Current Portion Debt	-	-	-	-	0.00	0.00	0.00	0.00	0.00
Issuance (Retirement) of Long Term Debt	-14.32	-85.81	106.36	20.23	0.00	0.00	0.00	0.00	0.00
Cash from Financing Activities	-15.40	-17.97	121.49	-21.33	0.00	0.00	0.00	0.00	0.00
Foreign Exchange effect	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Beginning Cash Balance	1.94	0.69	0.08	0.45	0.70	19.01	38.17	58.19	79.10
Net Change in Cash	-1.25	-0.61	0.37	0.01	18.31	19.16	20.03	20.90	21.78
Ending Cash Balance	0.69	0.08	0.45	0.46	19.01	38.17	58.19	79.10	100.88
Capex to Revenue	6.63%	8.59%	25.01%	17.55%	16.88%	16.71%	16.54%	16.38%	16.22%
Depreciation to Sales	8.64%	11.16%	9.89%	11.75%	11.75%	11.75%	11.75%	11.75%	11.75%
Amortization to Sales	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
A/R to Sales	5.81%	8.95%	10.14%	9.53%	9.44%	9.35%	9.25%	9.16%	9.07%
Distributable FCF/EV Yield	2.57%	3.15%	-22.00%	3.88%	3.33%	3.48%	3.64%	3.80%	3.96%
Dividend Yield	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
FCF (Ops-Investing)	13.65	28.75	-24.94	17.97	18.31	19.16	20.03	20.90	21.78

SN VALUATION

LBO Debt Schedule

Ticker:

RNO

	Proforma	2013	2014	2015	2016	2017
Net Change in Cash	0.01	18.31	19.16	20.03	20.90	21.78
Current Portion Debt Repayment						
Long Term Debt Repayment						
Outstanding Debt	162.38	162.38	162.38	162.38	162.38	162.38
Current Portion Debt Balance	1.38	1.38	1.38	1.38	1.38	1.38
Long Term Debt Balance	161.00	161.00	161.00	161.00	161.00	161.00
Forward Libor Curve		3.00%	3.00%	3.00%	3.00%	3.00%
Spread		4.00%	4.00%	4.00%	4.00%	4.00%
Interest Rate		7.00%	7.00%	7.00%	7.00%	7.00%
Interest Expense		11.37	11.37	11.37	11.37	11.37
Cash Balance		0.46				
Interest @ 1.0%		0.00	0.00	0.00	0.00	0.00
Net Interest Expense/(Income)		11.36	11.36	11.36	11.36	11.36
Net Interest Rate		7.06%	7.06%	7.06%	7.06%	7.06%
EBITDA		67.55	68.22	68.91	69.60	70.29
EBITDA/Interest Expense Coverage		5.94	6.00	6.06	6.12	6.18

Interest Rate Coverage Table

Debt Rating					
AAA					
AA					
A+					
A		A	A	A	A
A-	A-				
BBB					
BB+					
BB					
B+					
B					
B-					
CCC					
CC					
C					
D					

*Source: NYU; Professor Damodaran

Altman Z Score

Company Name:

Rhino Resource Partners LP

Ticker:

RNO

Period	2009	2010	2011	2012	2013	2014	2015	2016	2017
Working Capital	10.37	17.39	12.90	13.31	31.62	50.78	70.80	91.71	113.49
Total Assets	339.97	358.65	538.80	549.50	586.02	622.98	660.39	698.24	736.54
X1	0.03	0.05	0.02	0.02	0.05	0.08	0.11	0.13	0.15
Retained Earnings	114.02	0.00	0.00	0.00	36.52	73.48	110.89	148.74	187.04
Total Assets	339.97	358.65	538.80	549.50	586.02	622.98	660.39	698.24	736.54
X2	0.34	0.00	0.00	0.00	0.06	0.12	0.17	0.21	0.25
EBITDA	61.00	75.87	77.06	83.51	67.55	68.22	68.91	69.60	70.29
Total Assets	339.97	358.65	538.80	549.50	586.02	622.98	660.39	698.24	736.54
X3	0.18	0.21	0.14	0.15	0.12	0.11	0.10	0.10	0.10
Market Value of Equity	388.78	388.78	388.78	388.78	417.10	447.47	480.06	515.03	552.54
Total Liabilities	201.58	111.03	231.68	250.76	250.76	250.76	250.76	250.76	250.76
X4	1.93	3.50	1.68	1.55	1.66	1.78	1.91	2.05	2.20
Net Sales	419.79	305.65	367.22	352.00	355.52	359.08	362.67	366.29	369.96
Total Assets	339.97	358.65	538.80	549.50	586.02	622.98	660.39	698.24	736.54
X5	1.23	0.85	0.68	0.64	0.61	0.58	0.55	0.52	0.50
Altman Z Score	3.49	3.71	2.19	2.10	2.14	2.27	2.41	2.54	2.68

$$Z = 1.2 \times X1 + 1.4 \times X2 + 3.3 \times X3 + 0.6 \times X4 + 1.0 \times X5$$

Z-SCORE ABOVE 3.0 –The company is considered 'Safe' based on the financial figures only.

Blue

Z-SCORE BETWEEN 2.7 and 2.99 – 'On Alert'. This zone is an area where one should 'Exercise Caution'.

Green

Z-SCORE BETWEEN 1.8 and 2.7 – Good chance of the company going bankrupt within 2 years.

Yellow

Z-SCORE BELOW 1.80- Probability of Financial Catastrophe is Very High.

Red