

A Short-Run Financial Management Model on Lotus 1-2-3

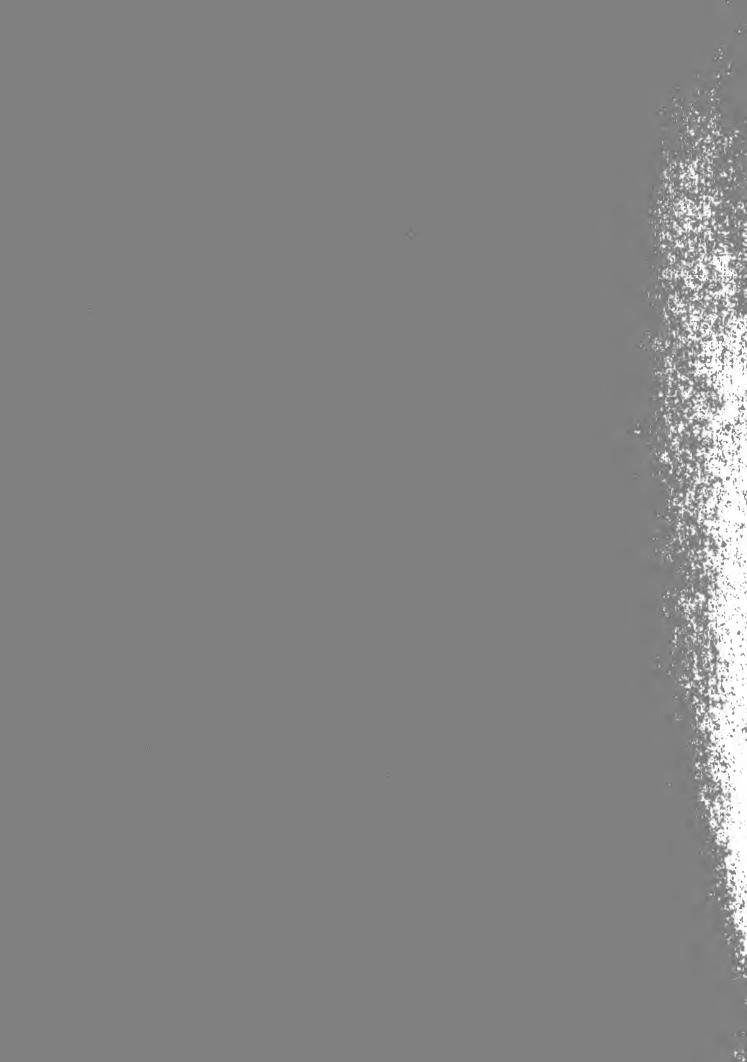
James A. Gentry Darrel Greifzu

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A Short-Run Financial Management Model on Lotus 1-2-3

James A. Gentry, Professor Department of Finance

> Darrel Greifzu Nieman-Marcus

### ABSTRACT

This paper presents a short-run financial management model (SRFMM) that is programmed on Lotus 1-2-3. The model integrates the cash budget, income statement and balance sheet. It highlights the inputs required to simulate monthly financial statement and generate key financial ratios, funds flow components and other insightful financial information. The SRFMM makes it possible for a user to simulate a series of planning scenarios and discover the total financial implications of each simulation. Digitized by the Internet Archive in 2011 with funding from University of Illinois Urbana-Champaign

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### A Short-Run Financial Management Model on Lotus 1-2-3

Discovering the linkages between short- and long-run financial management processes and learning to interpret financial performance are fundamental skills for students of finance. The task of integrating short- and long-run financial planning systems occurs when cash budget information is converted into accrual accounting information for pro forma balance sheets and income statements. Learning the origins of cash inflows and outflows and how they are transformed into basic financial statements is a cornerstone to the applied art of financial management.

The next step is to discover what happens to financial performance when the original planning scenario is altered. Simulating various planning scenarios and evaluating how and why financial performance changed is an enlightening experience. The building of interpretative skills is enhanced through the analysis of a wide variety of simulated conditions.

We have designed a short-run financial management model (SRFMM) on Lotus 1-2-3 that provides an experimental mode for students to discover the linkages that exist between the cash budget and the accrual accounting statements. A second objective of the model is to provide students an opportunity to analyze several financial performance scenarios and develop their interpretative skills.

The objectives of the paper are to provide an overview of the SRFMM; to introduce the key inputs and to show the interdependence among the inputs in constructing the primary statements of the financial forecast; to illustrate the financial statements generated by the SRFMM; and finally, to discuss the uses of the model in creating real world environment that motivates student learning as it relates to short-run financial forecasting.

### THE MODEL

#### Overview

The SRFMM creates a financial forecast for twelve monthly periods. The model generates cash budgets, pro forma income statements and balance sheets plus a variety of diagnostic statements for measuring the financial performance of a firm. A conceptual framework of the initial input information required to operate the SRFMM is presented in Exhibit 1.

The financial statements generated by SRFMM are shown in Exhibit 1. The input data is subdivided into three categories: (1) <u>beginning</u> <u>information</u> from preceding periods; (2) <u>information for forecasting</u> sales, production, fixed assets, tax rates, cash collection and payment patterns, interest earned on marketable securities, and interest paid on short- and long-term debt; and (3) <u>policy variables</u> for credit terms to customers, percent of sales in ending inventory, depreciation rates, minimum cash and minimum marketable securities. The input information is highlighted because it is the foundation of the forecast and the focal point when evaluating the outcomes generated by the SRFMM.

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Inputs

The operation of the SRFMM is best understood by presenting a case example. The Hoover Textile division of GK&W Chemicals is used to illustrate the use of the SRFMM.<sup>1</sup> We have taken the basic input information that underlies the forecast in order to create examples that highlight the capabilities of the model. Hoover Textiles has been the cash cow of GK&W Chemicals, but competition is threatening to take away a portion of their market. A new product has been market tested and is about to be distributed nationally. Management is very concerned about the future of Hoover Textiles and, as fate would have it, they have just received an offer to sell the division. The case provides information for simulating various planning scenarios and to determine the value of Hoover Textiles.

A graphic overview of the key linkages in the SRFMM is found in Exhibit 2. The conceptual framework in Exhibit 2 shows that the cash budget, the fixed asset schedules, the cost of sales module and the financing/ dividend inputs are primary sources of information used in constructing the balance sheet and income statements. In highlighting the primary input linkages that exists in the SRFMM, we shall frequently refer to Exhibit 2.

The determination of the cash flow is tied to the payment behavior of a firm's customers, which we refer to as a firm's collection patterns. In determining the cash inflows, the monthly sales forecast and cash collection patterns are presented in Exhibit 3. The forecast assumes sales in month t will be converted to cash in the following collection pattern--5% in cash, 30% in 30 days, 20% in 60 days and 42%

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in 90 days with 3% uncollectable. Credit terms are 2% due in 30 days. The receivables balance patterns used to determine the amount of receivables outstanding on the balance sheet are easily determined given the forecasted cash collection pattern before discounts, Stone [5].

	Cash Collection Pattern	Receivables Balance Pattern
Period	(in percent)	(in percent)
Cash 30 days 60 days	5 30 20	95 65 45
90 days Bad Debt	42 3	

Exhibit 2 highlights how the receivable balance patterns convert the outstanding cash information to accrual accounting receivable in the balance sheet.

The forecasted purchases are presented in Exhibit 3. The payment pattern for purchases is also in Exhibit 3 and it is 10% in cash, 50% in 30 days, 30% in 60 days and 10% in 90 days. The payment patterns refer to the payment of cash to suppliers. There is a 1% discount if purchases are paid in cash. The payment patterns to the suppliers can also be converted to payables balance patterns.

		Payables
	Payment	Balance
	Patterns	Pattern
Period	(in percent)	(in percent)
Cash	10	90
30 days	50	40
60 days	30	10
90 days	10	

Exhibit 2 portrays the key role that payable balance patterns play in converting the deferral of cash outflows to accounts payable in the balance sheet.

The schedule showing the externally forecasted sales in quantity (units) and estimated price per unit are presented in Exhibit 4. The collection patterns and the payment patterns are critical pieces of information used to forecast cash inflows and outflows respectively, for the cash budget which is presented in Exhibit 5. The receivable and payable balance patterns are vital inputs for computing the respective balance sheet items.

Production and purchases are synonymous in the SRFMM. Conceptually, production costs are shown as a separate module in Exhibit 2 and they are direct inputs to the income statement in Exhibit 6. The production forecast is dependent on the sales forecast, the desired ending inventory, and beginning inventory. Fixed overhead and variable overhead costs are other inputs from Exhibit 7 that are used to determine forecasted production costs. The equation for determining production is:

where

Desired Ending Inventory = 
$$X$$
 (Sales<sub>t+1</sub>) (1a)  
and  $X = .70$  in the case.

The calculation of the fixed asset schedule is presented in Exhibit 8. The forecasting inputs for fixed assets, namely, additions

to fixed assets, changes in existing fixed assets and changes in accumulated depreciation, are shown in Exhibit 7. Conceptually, Exhibit 2 shows that the net fixed asset information is transferred to the cash budget and then directly to the balance sheet in Exhibit 9. The depreciation expenses on the additions to the fixed assets are inputs to the income statement as shown in Exhibit 2.

The forecasted interest rates on marketable securities and the interest rates on short- and long-term debt are presented in Exhibit 7. Also the forecasted monthly inflation rates for sales and production costs as well as forecasted information on long-term debt offerings and repayments, sale of common stock and dividends payments are shown in Exhibit 7.

The cash budget utilizes the above information to provide key information to the balance sheet and income statement. The cash budget, Exhibit 5, uses a hierarchical approach to determine the allocation of any excess cash or the financing of a cash flow shortfall. When cash inflows are greater than cash outflows and there is excess cash, the model uses the following hierarchy of rules to draw down the excess cash to the minimum cash balance: (1) retires short term debt, (2) if cash remains it is invested in marketable securities.

When cash outflows threaten to reduce the cash account to a level below the policy minimum, the model uses the following hierarchy of rules in order to replenish the cash account to its minimum balance: (1) sell sufficient marketable securities to cover the shortfalls or until the minimum marketable securities level is reached, (2) if

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a shortfall still exists, borrow short term debt to finance the remaining balance. As reflected in Exhibit 2, the cash budget injects increases or decreases to the balance sheet accounts of cash, marketable securities or short term debt.

The cash budget supplies the following information to the firm's income statement: sales, purchases, interest income, other costs (fixed and variable overhead), interest expense, and taxes. These linkages are shown in Exhibit 2. The cost of sales module in Exhibit 2 is a direct production expense input to the income statement. A weighted average ending inventory value is determined and transferred to the cost of sales module and then transferred to the balance sheet.

The planned offering or retirement of long term debt or the sale or repurchase of common stock is a direct input into the cash budget and then transferred to the balance sheet. Also a planned outflow to dividends is an input to the cash budget and subsequently is reflected in the income statement. The above transactions are depicted in Exhibit 2.

### Outputs

The three major output exhibits are the cash budget (Exhibit 5), the income statements (Exhibit 6) and the balance sheets (Exhibit 9). The key linkages among these three exhibits were developed earlier and conceptually shown in Exhibit 2.

The monthly cash based funds flow statements in Exhibit 10 are generated from information in the monthly income statements and balance sheets. There are eight net funds flow components: operations, working capital, financial, fixed coverage expenditures,

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dividends, investment, other assets and liabilities and net change in cash. The monthly relative funds flow components (funds flow component/total net flow) are also created as outputs by the model. The cash based funds flow model provides insightful information for analyzing the implications of changes in the level and trend of relative cash inflow and outflow components, Gentry, Newbold and Whitford [2].

The ratio analysis information is found in Exhibit 11. The duPont analysis shows the components of return on total assets, the financial leverage multiplier and return on net worth. The profitability measures are the return on gross margin, operations and net income. The objective of the profitability measures is to identify trends in the changes of costs of production, operations and financing. Liquidity is measured with the current, quick and cash ratio. Additionally the cash conversion cycle, Richards and Laughlin [4], is calculated by the model. Debt management performance is measured with the debt ratio and the coverage ratio.

When the level and trends of items in financial statements are analyzed, the common sized income statements and balance sheets are an invaluable source of information. The common size statements are calculated by the SRFMM, but examples are not included as exhibits. Finally, the information used in creating receivables and payables is in Exhibit 12.

#### USING THE MODEL

The changing role of the workstation and the rapid development of the personal computer and spreadsheet programs has revolutionized the

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accomplishment objectives of financial management. A challenge to management is to determine what information will give the firm a competitive advantage. The SRFMM depends on information from various data schedules and is designed as a planning tool for management to interpret the financial results that were created by various planning strategies. When using computer models to aid the learning process, a major challenge is to maintain the unresolved mystery that underlies the case or problem. An objective is to present a case with an optimal amount of information, and avoid revealing critical information that makes a case trivial. Creating an exciting learning environment is a key to successful learning through a computer model.

Before introducing the SRFMM it is very important to have students calculate by hand cash budgets, pro forma income statements and balance sheets. This is a time consuming and often frustrating experience, but it is very critical in helping students to discover the linkages among the statements. Furthermore, discovering the overwhelming task of completing all of the financial statements in the forecast without a computer model is an important event.

An overview of the various uses of the SRFMM will provide insights on how to use the model in the classroom. One of the major benefits of the SRFMM is to provide students an opportunity to be involved in an active financial forecast and learn about the strengths and weaknesses of the forcasting process. A hands on simulation approach allows students to discover why certain inputs can greatly increase profitability, liquidity or growth, while other inputs have little or no effect on outcomes. Learning the benefits of a "what if" type

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simulation is invaluable. It allows students to observe the power of the model to rapidly generate several forecasts with vastly different assumptions. Additionally, it is extremely important for students to observe and test the relationships that exist between the cash budget, the balance sheet and the income statement. The SRFMM provides students an opportunity to be totally involved in a natural learning experience related to financial forecasting.

In the past the model has been introduced with a case. The case provides basic information for a financial forecast which is placed in a data file that students can easily access. After completing the first analysis, students can interpret the results and prepare inputs for a second analysis, which are included in the case. The results of the second analysis can be compared to the results of the first, which provides a discovery type learning experience. The primary learning objective of the case is to present basic financial forecasting concepts, which, in turn, can be explored and tested with the model. In summary, the SRFMM provides the framework for students to have an integrated and dynamic learning experience concerning financial forecasting through a Lotus 1-2-3 program.

After learning how to use the SRFMM, students have a second case in which they are responsible for inputting information directly into the model. Usually the second assignment is a credit analysis case that focuses on the need for bank credit. In a different setting, the SRFMM is used to provide a rich learning experience for students interested in small business research projects. It is our judgment

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that the types of problems or issues which the model provides a useful framework is limited only by the creativity of the user.

There are several scenarios one can utilize when using SRFMM to create a stimulating learning environment. One technique is to present the model with appropriate labels for all of the exhibits, but without entering any information from the case into the model. The student has to determine the vital information and insert it into the model. When the information is entered in the appropriate cells, the SRFMM will generate a financial forecast. The student uses the forecasted information to analyze the case. The brighter students will recognize that certain elements of the data are questionable and will experiment with other inputs to determine the sensitivity of the forecast to changes in specific relationships, e.g., a change in the sales forecast, production costs or the tax rate.

A second approach is to load the information from the case into the model and provide several scenarios of possible strategies being considered by management. Strategies that create a paradoxical result are especially useful in flushing out anomalies or dilemmas that confront management. The student becomes involved in changing key inputs and simulating various strategies. Interpreting the outcomes involves students in a rich learning experience.

An extremely useful approach for advanced students is to write a case that utilizes the SRFMM. Case writing is a unique learning experience that creates higher levels of motivation and insight. Leenders and Erskine [3] show the degree of difficulty or the educational

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challenge in the case, can be viewed in at least three major dimensions-analytical, conceptual and presentation. When using a micro-computer model, the case writer develops a creative skill for presenting the input information for the SRFMM. Creating the output exhibits is also a challenge to the case writer because the solution to the mystery of the case must be subtle. A final benefit of case research is to "shake up" researchers' and research consumers perceptions of reading, and to broaden their ways of construing knowledge, Bonama [1]. Case research with the SRFMM can help researchers to rethink knowledge in novel and insightful ways. The model can provide information that will give management a competitive advantage.

The SRFMM can be altered to provide additional information. The challenge to all users is to identify new and novel uses of the model. The creating of new diagnostic statements or the addition of new linkages in the short-run financial forecasting process is the final challenge to all users of the SRFMM. The authors invite you to use the SRFMM in an upper level short-run financial management offering or a course on the analyses of financial statements. To receive a copy of the program send a five dollar check to the first author.

### FOOTNOTE

 The GK&W Chemicals case is in a University of Illinois publication by James A. Gentry, Joseph A. Kiedaisch and David T. Whitford entitled <u>A Short Run Financial Forecasting Model</u>.

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INPUTS TC	EXHIBIT 1 INPUTS TO SHORT-RUN FINANCIAL MANAGEMENT MODEL	MENT MODEL
MONTHLY INI	Y INPUTS	ΜΟΝΤΗLΥ ΟυΤΡυΤS
Beginning <sub>(t - 1</sub> ) and Forecasted Variables	Policy Variables	
• Sales	Sales Discount	<ul> <li>Cash Budgets</li> </ul>
Unit price	<ul> <li>Discount Period</li> </ul>	Income Statements
Growth rate of unit price Units		<ul> <li>Balance Sheets</li> </ul>
Production	• Percent of Sales in	
Cost per unit	Ending Inventory	<ul> <li>Fund Flows Analysis (Cash Based)</li> </ul>
Growth rate of cost		
Variable overhead per unit Fixed overhead per period		• Ratio Analvsis
Inventory, _ 1 (units)		DuPont analysis
Inventory, -, (cost)		Profitability
<ul> <li>Fixed Assets</li> </ul>	Depreciation Rate	Liquidity
Beginning		Debt management
Additions		
Cost of retired assets		• Common Size lacomo Statemente
Fixed assets <sub>t -1</sub>		
Accumulated depreciation <sub>t-1</sub>		<ul> <li>Common Size Balance Sheets</li> </ul>
• Tax Rate		
<ul> <li>Interest Rate on M/S</li> </ul>		Cash Conversion Cycle
<ul> <li>Interest Rate on S. T. Debt</li> </ul>	Minimum Cash	
<ul> <li>Interest Rate on L. T. Debt</li> </ul>	• Minimum M/S	<ul> <li>Causes of Changes in Receivables</li> </ul>
<ul> <li>All Balance Sheet Items<sub>t-1</sub></li> </ul>		Sales effect
<ul> <li>Collection Experience</li> </ul>		Collection effect
(Cash, 30, 60, 90, bad debt)		Joint effect
<ul> <li>Payment Pattern</li> </ul>		
(Cash, 30, 60, 90 days)		
<ul> <li>Purchase Discount</li> </ul>		
(Cash, 30, 60, 90 days)		

EXHIBIT 2 KEY LINKAGES IN THE SRFMM

L

	INCOME STATEMENT		== Dividends		Beginning Inventory	Purchase Discounts      Other Production     Available for Sale		FINANCING & DIVIDENDS	Addition of or Retirement of:     Addition of or Retirement of:
CASH BUDGET	DEPENDENT ON COLLECTION/ INFLOW AND DISBURSEMENT OUTFLOW ITEMS BEHAVIOR BEHAVIOR		Div			FIXED ASSETS	Betired     Ending	Deprectation     Beginning     Current	- Hetired FA
	COLLECTION PAYMENT BEHAVIOR	Payables Balance	BALANCE SHEET	Cash •	S.T. Debt • Inventories •		Accum. Depr	Common Stocks	

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# COLLECTION AND PAYMENT PATTERN INPUTS

HISTORICAL COLLECTION EXFERIENCE	-	-	,	â		HATORIC	AL PA-ME	NT PATTE		_		
GROSS SALES		-2 2200.0	-1 2400.0	0 200 <b>0.</b> 0		58663 201	FCFAGES		-5- 0.0041	-1 1960.0	-1 1950.0	0 1300.0
CASH 30 DAYS 30 DAYS 30 DAYS BAD DEBT	5% 30% 20% 42% 3%	42%	5% 30% 20% 42% 3%	5% 30% 10% 42% 3%		0484 30 0418 av 0418 90 0418			101 595 301 105	5.4 - 4 - 7	10% 50% 30% 10%	
SALES DISCOUNT						FLRCHASE	DISCOUN	Ī				
CASH 30 DAYS 60 DAYS 70 DAYS	2% 2% 0% 0%	2% 2% 0% 0%	2% 2% 0% 0%	2% 2% 0% 0%		CASH 30 DAYS 30 DAYS 30 DAYS 70 DAYS			13 02 03 02	12 02 02 03	17 03 07 07	
COLLECTION EXPERIENCE	4	7	ū	4	5	Ĺ	7		ç	19		12
GRUSS SALES	1000.0	2 3300.0	2200.0 2		2000 <b>.</b> 0	5 2000.9		2700.0			3000.0	
CABH 30 DAYS 50 DAYS 70 DAYS 840 DE3T	5% 20% 42% 3%	5% 30% 20% 42% 3%	EX 30% 20% 41% 5%	5% 30% 20% 42% 3%	EX 30% 20% 42% 3%	30% 20% 42%	5% 30% 20% 42% 3%	EX 20% 20! 42% 12	00% 20% 42%	5% 30% 20% 421, 7%	0% 36% 20% 42% 3%	
BALES DISCEUNT .												
CASH TO DAVS 60 DAVS 90 BAVS	2% 2% )% 0%	22 22 33 07	2% 2% 0%	2% 2% 6% 0%	22 21 03 03	24 21 93	-% 2% 0% 0%	1% 1% 6%	14 	2% 2% 0% 9%	23 23 04 02	2% 2% 0%
PANMENT PATTERN					_		_					_
GROSS PURCHASES	1 747,4			4 2021.2		6 2127.0				10 2143.0	:1 2201.7	-2 -2 -11-4
CHSH TO CAYS 50 CHFS 90 CAYS	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	201. 201.	104 500 100 100	100 500 16. 171					5). 1. i	10% 50% 78%		10% 2011 10%
FUFINAEE DIELLUNT												
0454 100 0448 200 0448 70 0448	2 P 2 P 2 P 2 P 2 P 2 P 2 P 2 P 2 P 2 P	÷ •	2 2 3 3 4 3 4 3 4 3 4 3			.4			· · ·	11. 1. -1. -31.		

# SALES, PRODUCTION, AND INVENTORY FORECASTS

BALES FORECRET	<b>*</b>	1	2	4	5	ċ	7	6	9	10	i i * # * #	12
NUMBER OF UNITE PRICE PER UNIT	100.0 30.0	:10.0 Z0.0	:10.0 30.0	160.0 30.0	100.) 50.0	:00.0 []].0	160.0 30.0	70.0 30.0	∓0.) 30.0	F0.0 30.0	100.0 10.0	100.0 30.0
FORECASTED GROBE SALES Exfected sales cisocumt Expected sad dest	0000.0 -21.0 -70.0	3300.0 -23.1 -99.0	3300.0 -23.1 -99.0	3000.0 -21.0 -70.0	3000.0 -21.0 -70.0	2000.0 -21.0 -90.0	3000.0 -21.0 -70.0	2700.0 -18.9 -31.0	2700.0 -13.9 -81.0	2700.0 -12.9 -81.0	3000.0 -21.0 -90.0	3000.0 -21.0 -90.0
NET SALES	2889.0	3177.9	3177.9	2839.0	2889.0	2869.0	2889.0	2600.1	2600.1	2600.1	2889.0	2889.0
FROEVETION SCHEDULE (UNITS)												
DEBIRED ENDING INVENTORY BEGINNING INVENTORY	77.0 140.0	77.0 77.0	70.0 77.0	70.0 70.0	70.0 70.0	70.0 70.0	63.0 70.0	63.0 63.0	43.0 63.0	70.0 63.0	70.0 70.0	77.0 70.0
THANGE IN INVENTORY Referances 54183	-63.0 100.0	6.0 110.0	-7.0 110.0	0.0 100.0	0.0 100.0	0.0 100.0	-7.0 100.0	0.0 70.0	0.0 70.0	7.0 90.0	0.0 100.9	7.0 100.0
PRODUCTION	37.0	110.0	103.0	100.0	100.C	100.0	93.0	70.0	90.0	37.0	100.0	107.0
FRODUCTION COSTS .:)												
NUMBER OF UNITS COST FER UNIT	37.0 20.2	110.0 20.4	103.0 20.5	100.0 20.8	100.0 21.0	100.0 21.2	93.0 21.4	90.0 21.7	70.0 21.5	77.0 22.1	100.0 22.3	107.0 22.5
TOTAL PRODUCTION COSTS		2244.2	2122.4	2031.2	2102.0	2113.0		1949,1	1958.6	2:43.0	2231.3	2411.4
ENCING INVENTORY												
NUMBER OF ENITS WEIGHTED AVERAGE COST FER UNIT	77.0 20.0	77.0 20.3	70.) 20.3	70.0 20.7	70.0 20.9	70.0 21.1	63.0 21.3	63.0 21.5	63.0 21.7	70.0 21.7	70.0 12.2	77.0 72.4
ENDING INVENTORY	1543.2	1559.5	1431.9	1446.5	1461.2	1475.9	1341.2	1354.8	1368,5	1576.3	1551.4	1723.9

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### CASH BUDGET

CAEH BUDGET												
PERICO	1	2	1	, L	5	5	-	9	7	1Ú		12
SALE OF COMMON STOCK ISSUANCE OF LT DEBT	12.3 0.0	2451.7 0.7 0.0 0.0 0.0	2571.9 0.7 0.0 0.0 0.0	5037.2 0.7 0.0 0.0 0.0	075.0 0.7 0.0 0.0 0.0	0.7 0.0 0.0	2389.9 1.0 0.0 0.0 0.0	2874.3 0.7 0.0 0.0 0.0	2786.1 0.7 0.0 0.0 0.0	2726.1 5.2 0.0 0.0 59.0	2414.8 0.7 0.0 0.0 0.0	2703.0 0.7 0.0 0.0 0.0
TOTAL CASH INFLOWS	2151.3	2452.4	2572.6	5037.9	3075.7	3015.7	2890.0	2375.0	2785.3	2779.3	2615.5	2703.7
FIXED GVERHEAD ST BORROWING INTEREST EXPENSE LT DEBT INTEREST EXPENSE LT DEBT RETIREMENT ADDITION TO FIXED ASSETS DIVIDEND TAX	76.0 50.0 12.1 35.0 0.0 200.0 1000.0 240.5	1630.9 77.0 80.0 10.2 35.0 0.0 0.0 0.0 263.4	1336.4 77.0 30.0 7.3 35.0 0.0 0.0 254.3	1015.3 70.0 30.0 4.9 35.0 0.0 100.0 1000.0 209.7	2105.9 70.0 50.0 5.9 35.0 0.0 0.0 0.0 193.5	2097.8 70.0 80.0 4.1 33.0 0.0 0.0 0.0 191.0	2097.7 70.0 80.0 15.0 100.0 100.0 183.4	2037.2 43.0 80.0 5.3 CE.0 0.0 0.0 0.0 140.1	178).0 43.0 80.0 1.0 35.0 0.0 0.0 133.1	1980.6 63.0 80.0 0.9 55.) 8.0 300.0 1000.0 102.0	2077.9 70.0 80.0 3.4 55.0 0.0 0.0 0.0 141.1	2194.2 70.0 80.0 1.3 35.0 0.0 0.0 131.5
CHANGE IN OTHER ASSETS CHANGE IN OTHER LIABILITIES	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.) 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0
TOTAL CASH OUTFLEWS	 3576.5	2076.5	2290.2	 J513.:	2502.2	 2477.7	 3556.0	2360.5	2222.1	 3560.6	2407.4	 2312.4
NET CASH FLOW Beginning cash	-1725.3 710.0	355.8 500.0	282.5 500.0	-477.2 500.0	573.4 500.0	E37.7 500.0	-675.1 E(0.0	5:4,5 500.0	294.7 500.0	-781.3 500.0	205.1 500.0	171.T 500.0
	-1015.J 500.0	655.8 500.0	782.3 500.0	22.8 300.0	1073.4 500.0	1007.7 500.0	-175.1 500.0	1014.5 500.0	774.7 500.0	-251.3	709.1 500.0	671.0 519.0
BURPLOS OR SHORTAGE OF CASH		355.3	282.3	-477.2	573.4	237.7	-075.1	314.5	474.7	-781.3	209.1	191.3
BEGINNING MARMETABLE SECURITIES MINIMUM M/S FEQUIPEMENT	:238.0 :00.0	100.0 100.0	100.0 100.0	100.0 100.0	106.0 100.0	100.0 100.0	144.8 100.7	:00.0 :00.0	100.0 100.0	477.= 100.0	100.0 100.0	100.0 100.0
SURPLUS OR EHORTAGE OF M/S	1705.0	0.0	0.0	0.0	ð.0	<b>0.</b> 0	44.3	0.0		377.9	0.0	( <b>.</b> )
M/S USED TO MEET MIN CASH Cash USED TO MEET MIN M/S	15:5.3 0.0	0.9 0.9	0.0 0.0	9.0 6.9	0.0 (.)	0.0 0.0	44.8 0.0	1.0 9.9	0.0 0.0	377.7 9.0	910 910	
CABH SHITGE NOT MET SU EXCESS M/ MUS Entge Not Met Sk excess CAS		2.6 610		477.2		).) 0.9				5		).) .:
4001710x 75 87 00086041x8	• 9	5.0	2.)	-72		. <u>(</u>	 2			40 <u>7</u> ,4	 	j.:
REBUCTION IN ET EGRADAINS UBE OF ELERLIE DARK EALE OF MIE HED E MONIMIE INC. ON MIE FROM SURRUS FUNDE				0.0	етт.4 0.0 N.9			514.5 9 9	J.,		1 a.: 	
ENDING ST CORPORING Enging M/S Ending Cref	:217.1 199.9 500.0	271.5 100.0 510.9	137.1 190.0 190.9	1055.I 100.0 500.0	492.9 12.12		551.2 12.70 12.72	100.0		12.19		

# INCOME STATEMENTS

INCOME STATEMENTS												
FERIOD	i	2	c,	4	5	ć	7	8	7	10	11	12
REVENUE												
GROGS SALES	3000.0	3200.0	3300.0	3000.0	3000.0	3000.0	3000.0	2700.0	2700.0	2700.0	3000.0	3000.0
EXPECTED SALEE DISCOUNTS	-21.0	-23.1	-23.1	-21.0	-21.0	-21.0	-21.0	-18.9	-18.9	-13.7	-21.0	-21.0
EXFECTED BAD DEBT		-99.0	-99.0	-90.0	-90.0	-90.0	-90.0	-81.0	-81.0	-81.0	-90.0	-90.0
INTEREST REVENUE	12.3	0.7	0.7	0.7	0.7	0.7	1.0	0.7	0.7	3.2	0.7	0.7
TOTAL REVENUE		3178.6	3178.6		2889.7					2603.3		
EDST OF SALES												
BEGINNING INVENTORY	2300.0	154312	1559.5	1431.9	1446.6	1461.2	1475.9	1341.2	1354.8	1368.5	1536.3	1551.4
PRODUCTION	747.4	2244.2	2122.4	2081.2	2102.0	2123.)	1994.2	1949.1	1953.5	2143.0	2231.3	2411.4
ALAILABLE FOR SALE	3547.4	0787.4		3513.1	1548.6	3584.2	3470.0	3270.3	1323.5	3511.5	3767.5	3762.9
		1559.5	1431.9							1536.3		
COST OF SOODS SOLD	2004.2	2227.9	2250.1	2066.5	2087.4	2108.4	2129.9	1935.5	1955.0	1975.2	2216.2	2238.9
EXPECTED PURCHASE DISCOUNTS	-0.7	-2.2	-2.1	-2.1	-2.1	-2.1	-2.0	-1.9	-2.0	-2.1	-2.2	-2.4
XET COST OF GOODS SOLD	2003.4	2225.7	2248.0	E064.4	2085.3	2106.2	2126.9	1933.5	1953.0	1973.1	2214.0	2236.4
GROSS MARGIN	397.8	952.9	S30.6	825.2	804.4	783.4	763.1	667.2	647.8	630.2	575.7	653.2
	70.0	77.0	77.0	70.0	70.0	70.0	70.0	63.0	63.0	53.0	70.0	70.0
FIXED OVERPEAD EXPENSE					-				. = = =			
	173.0	178.0	178.0	175.0	179.0	179.0	179.5	179.5	179.5	190.5	180.3	160.5
OTHER FIXED EXPENSES	80.)	80.0	90.0	<b>90.</b> 0	80.0	80.0	80.0	89.0	80.0	80.0	50.0 	59.0 
EARNINGE BEFORE INTEREST AND TAX	369.9	517.9	595.3	496.2	475.4	452.4	433.6	I44.7	325.3	306.7	145.2	322.7
GAL FROM SALE OF FIXED AGSETS	0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	-50.0	0.0	0.0
INTEREST EXFENSE	47.1	45.2	42.3	35.9	43.7	39.1	35.0	40.3	36.0	75.0	35.4	36.a
EARNINGS BEFORE TAXES		572.7	555.3	456.3	431.5	415.3	398.5	304.5	289.0	221.7	306.8	286.1
Ξġ X	240.5	263.4	254.5	209.9	198.5	191.0	183.4	140.1	133.1	102.0	141.1	171.6
NET INCOME	282.3	309.2	278.3	246.4	233.0	224.3	215.2	164.4	155.2	117.7	165.7	154.5
	=====	=====	=====	======	=====	=====	=====	=====	::::::	=====	=====	=====

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# PRODUCTION, FIXED ASSET, LIQUIDITY AND FINANCING INPUTS

HISTORICAL INFORMATION -3	-2	-1	Û									
DGLLAR AMOUNT OF SALES 1500.0 DOLLAR AMOUNT OF FROD. 1500.0 SALES PRICE IN t=0 UNIT COST OF PROD IN t=0 # UNITS IN INV AT t=0 WEIGHTED AVERAGE COST OF INV												
PRODUCTION VARIABLES	i	2	3	3. 1	5	5	?	8	9	10	11	12
	90.0 11 45%	0.7 50.0 1%	0.7 80.0 1%	70% 6.7 80.0 1% 46%	70% 0.7 80.0 1% 46%		1%	70X 0.7 60.0 1% 45%		70% 0.7 30.0 1% 45%	0.7 80.0 1%	70% 0.7 80.0 1% 46%
FIXED ASSETS ASSUMPTIONS												
CCST OF REFINED ASSETS	100.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	100.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	(90.0 0.0 30.0 50.)	0.0 0.0 0.0 0.0	0.0 6.0 0.0 0.0			
OTHER ABBETE / LIABILITIES												
CHANGE IN OTHER RESETS CHANGE IN OTHER LIRBILITIES		0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0		).0 0.0			6.0 0.0	
LIQUIDIT + ABSUMFTIGNS												
	500.0 100.0	500.0 100.0		500.0 100.0	500.0 100.0	500.0 100.0	500.0 100.0		500.) 100.0		500.0 190.0	500.0 100.0
INTEREST RATE VARIABLES												
INTEREST PATE ON M/S Interest rate on st sorrowings Interest rate on Lt debt			10.01		19.6%	10.01	8.0% 19.0% 12.0%	10.0%	19.64	10.0%		10.0%
INFLATION ASSUMPTIONS												
MONTHLY INFLATION OF SALES PRICE MONTHLY INFLATION OF PRID COST		3. 3% 1. 39	0.3% 1.4%		0.0% 1.0%		). 04 1 1	0.04 1.04	с улу С 4 1/2 1 4 - 3/2 в 4 - 3		с. т. Укол с. т. с. т.	
CHANGES IN LONG-TERK FIN-HOING												
PARMENT OF LT CEBT PRINCIPAL ISBLE OF AGN LT CEBT BALE OF MEW COMMEN BYDDA	1.0 2.2 2.2	. · ·		1.10				2.9	1.9		•••	• · Ž
SIVIJEAS A 15N3												
DIVICENC	129.1	·• Ū		1961	4 1 1 1			1.2	0.đ	1090.4	5	· .

### FIXED ASSET SCHEDULE

### CALCULATION OF ENDING FIXED ASSETS

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FERIOD	1	2	3	1	5	ó	7	8	9	19	11	12
SEGINWING FIXED ASSETS ADDITIONS TO FIXED ASSETS COST OF RETIRED ASSETS	:7±00.0 200.0 0.0	17800.0 0.0 0.0	17800.0 0.0 0.0	17300.0 100.0 0.0	17930.0 0.0 0.0	17900.0 6.0 6.0	100.0	17950.0 0.0 0.0	17950.0 0.0 0.0	300.)	19050.0 0.0 0.0	18050.0 0.0 0.0
ENDING FIXED ASSETS AT COST	17900.0	17800.0	17800.0	17900.0	17900.0	17900.0	17950.0	17950.0	17950.0	18050.0	18050.0	18050.0
BEG. ACC. DEPRECIATION DEPRECIATION EXPENSE ACC. DEFF OF RETIRED ASSETS	5870.0 178.0 0.0	10048.0 178.0 0.0	10225.0 178.0 0.0	10404.0 179.0 0.0	10583.0 179.0 0.0	10762.0 179.0 0.0	179.5	11070.5 179.5 0.0	11250.0 179.5 0.0	180.5	11510.0 150.5 0.0	11690.5 130.5 0.0
ENDING ACC. DEPRECIATION	10048.0	10226.0	10404.0	10593.0	10762.0	10941.0	11070.5	11250.0	11429.5	11510.0	11690.5	11871.0
RETIREMENT OF ASSETS												
PROCEEDS FROM SALE OF F/A	ú.0	0.0	0.0	0.0	<b>0.0</b>	0.0	0.0	0.0	0.0	50.0	0.0	0.0
CCST OF RETIRED ASSETS ACC. DEPR OF RETIRED ASSETS	0.0 9.0	0.0		0.0	0.0	0.0		0.0	0.0		0.0	0.0 0.0
BOOK VALUE	0.0	0.0	0.0	0.0	0.9	0.0	9.0	0.0	0.0	100.0	0.0	0.0
F/A GAIN GR LOSS	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-50.0	0.0	0.0

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### BALANCE SHEETS

BALANCE SHEETS													
PERIOD	- 0	) 1	. 2		4 4	1.3	à	7	8	ç	.)		12
CURRENT ASSETS													
CASH	710.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0
MARKETABLE SECURITIES	1918.0	100.0	100.0	100.0	100.0								•••••
ACCOUNTS RECEIVABLE	4465.0	5236.0	5997.0	6630.0	6510.0	6324.0	6187.0	6180.0	5895.0	5700.0	5565.0	5841.0	6036.0
ALLOW. FOR DISCOUNT	-12.0	-18.0	-19.3	-19.8	-16.0	-18.0	-13.0	-18.0	-16.2	-16.2	-15.2	-16.0	-18.0
ALLOW. FOR SAD CEST	-273.0	-283.0	-321.0	-348.0	-378.0	-378.0	-369.0	-360.0	-351.0	-342.0	-333.0	-333.(	-342.0
NET ACCOUNTS RECEIVABLE	E 4130.0	4930.0	5656.2	6262.1	6114.0	5928.0	5902.0	5802.0	5527.9	5341.8	5215.8	5470.0	5676.0
INVENTORY	2900.0			1431.9	1446.6	1461.2	1475.9	1341.2	1354.8	1368.5	1536.3	1551.4	1723.9
OTHER CUPRENT ASSETS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	0.0
TOTAL CURRENT ASSETS	9523.0	7073.2	7815.7	8294.1	3160.5	7969.2	7922.7	7743.2	7482.0	7635.2	7352.1	7641.2	 7=99.9
FIXED ASSETS													
C2S7	17600.0	17300.0	17300.0	17800.0	17900.0	17900.0	17900.0	17930.0	17950.0	17950.0	13050.0	16050.0	18950.0
ACC. DEPRECIATION	F870.0	10048.0	10226.0	10404.0	10583.0	10762.0	10941.0	11070.5	11250.0	11429.5	11510.0	11690.5	11971.0
NET FIXED ASSETS	7730.0	7752.0	7574.0	7396.0	7317.0	7133.0	6959.0	6879.5	6700.)	e520.5	6540.0	 5359.5	 6179.0
UTNER ASSETS	2.0	0.0	0.0	υ.υ 	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ASSETS	17255.0	14825.2	15389.7 =====	15590.1 =====	15477.¢ =====	15127.2	14981.7	14622.7	14182.o	14208.7	13892.1	:4006.9	14173.9
CUARENT LIABILITIES													
ACCOUNTS FAYABLE	3420.0	1987.7	2598.a	2382.6	1946.5	1934.5	2959.7	2854.2	2764.2	1750.3	27:1.0	3062.0	• • • • •
ALLOW. FOR PUR DISCOUNT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ù.0	0.0	0.0	0.0	0.0	
NET ACCOUNTS PAYABLE	3480.0	1937.7	2598.8	2832.5	2945.5	2934.5	2959.7	2854.2	2764.2	2750.8	2711.0	J062.3	
S-T BERREWING	1450.)	1227.3	871.5	569.1	1065.3	472.7	0.0	531.2	115.8	0.ð	107 4	195.0	4.3
OTHER CURRENT LIAS.	0.)	9.9	0.0	5.0	0.0	0.0	0.0	0.9 	9.9	0.0	2,0	0.0	0.0
TOTAL CURRENT LI-3.	4930.)	3214.9	0470.2	3471.7	4012.8	3425.4	2955.7	3485.4	1381.0	2750.8	3314.4	3137.á	7281.1
LONG TERM DEBT	5500.0	1500.0	3300.0	1500.0	7500.0	3500.0	3500.0	3596. A	7566,6	7566 6	7576 e	7503-0	7500 S
OTHER LIAPILITIES	$\psi, 0$	(), Ú	0.0	0.0	¢.0	9 <b>.</b> 9	0.0	0.0	0.0	0.0	9.9	).)	0.0
EQUITY													
COMMON STOC/	2500.0	2500.0	2:00.0	2600.0	2500.0	2500.0	2600.0	15(0,0	7566.0	7500.0	7400-0	7400-0	5.00 e
PETAINED EAFNINGS	5018.0	5510.3	5819,5	a118.J	53a <b>4.</b> 7	5597.7	5912.0	2013 - 1 2013 - 1 2014 - 1	5201.7	5057.9	4477.5	4640.0	4777.8
TOTAL EDUITY	3287.	3114.3	3417,5	1710.0	7834.7	8197.7	3402. ;		7391,7	7957,7	 1977.a		5,797
NCTACHLIAG, AND EDLET:	. They -												
		3.0.2	:1.27.	12010.1		13127.2	14651.7	-5121	1-132.5	142,817	11372.1	1-2014	14173.9

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# FUNDS FLOW ANALYSIS (PAGE 1)

FUNDS FLOW ANALYSIS	1	2	3	<u>1</u>	5	ć	7	3	9	10	11	12
OPERATING INFLOWS												
NET SALES	1997.0	3177.9	3177.9	2889.0	2889.0	2889.0	2889.0	2600.1	2600.1	2200.1	2389.0	2839.0
INTEREST REVENUE	12.5	0.7	0.7	0.7	0.7	0.7	1.0	0.7	0.7	3.2	0.7	0.7
TOTAL OPERATING INFLOWS	2901.3	3178.6	3178.6	2389.7	2989.7	2839.7	2890.0	2600.8	2600.8	2603.3	2859.7	2889.7
OFERATING GUTFLONS												
NET COSS	2003.4	2225.7	2248.0	2054.4	2085.3	2106.2	2126.9	1933.5	1753.0	1973.1	2214.0	2236.4
OTHER FIXED EXPENSE	80.0	80.0	30.0	80.0	80.0	80.0	80.0	30.0	80.0	80.0	0.08	80.0
VARIABLE OVERHEAD EXP	70.0	77.0	77.0	70.0	70.0	70.0	70.0	63.0	63.0	63.0	70.0	70.0
LOSS ON SALE OF FIXED AGGETS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	0.0
TAI	240.5	263.4	254.5	209.9	198.5	191.0	183.4	140.1	133.1	102.0	141.1	131.6
TOTAL OPERATING OUTFLOWS	2393.9	2646.1	2657.5	2424.3	2433.8	2447.3	2460.2	221 <b>6.</b> é	2229.1	2268.0	2505.1	2518.0
NET OPERATING FUND FLOW	507.4	532.5	519.1	465.3	455.9	442.4	429.7	384.2	371.7	335.2	384.5	371.6
WORKING CAFITAL INFLOWS												
DEC. IN A/R			0.0	148.2	186.0		0.0	274.2		120.0		0.0
DEC. IN INV.			127.7		0.0	0.0		0.0		0.0		
	0.0		283.8	ė3.7	0.0		0.0	0.0		160.2	151.2	214.8
DEC. IN OTHER CA	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
INC. IN OTHER CL	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL A.C. INFLOWS ACRKING SAPITAL OUTFLOWS	1234.8	611.1	411.5	212.1	136.0	149.1	134.7	274.2	135.0	286.2	151.2	214.3
INC. IN A/R	750.0	726.2	a96.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	274.2	165.0
INC. IN INV.	0.0	15.3	0.0	14.7	14.6	14.7	0.0	13.7	13.7	167.8	15.1	172.5
DEC. IN A/P	1492.3	0.0	0.0	0.0	9.9	0.0	105.5	90.0	13.4	0.0	0.0	0.0
INC. IN STHER CA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DEC. IN OTHER CL		0.0	0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL W.C. OUTFLOWS	2242.3	742.5	606.0	14.7	24.6	14.7	105.5	103.6	27.0	167.8	29°.3	358.6
NET J.C. FUNDE FLOW	-985.5	-131.4	-194.5	197.4	161.4	134.4	29.2	170.5	159.0	116.4	-138.1	-143.7
FINANCIAL INFLOWS												
INC. IN LT DEBT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Č.Ö	0.0	0.0
INC. IN COMMON STOCK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THE. IN ST BORROWING	0.0	0.0	0.0	277.2	0.0	0.0	531.2	0.0	0.0	463.4	6.0	C.0
TETAL FIN. INFLOWS	6.0	0.0	0.0	477.2	0.0	0.0	631.E	0.0	0.0	403.4	0.0	0.0
FINANCIAL OUTFLEWS												
DEC. IN LT DEBT	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	0.0	0.0	0.0
DEC. IN COMMON STOCK	0.0	0.0	0.0	9 <b>.</b> 0	0.0	0.0	0.0	0. ×	0.0	0.0	0.0	0.0
DEC. IN ST BORRDWING	222.7	355.0	182.0	0.0	573.4	472.7	0.∪	514.5	115.8	0.0	208.1	191.3
TOTAL FIN. CUTFLOWS	222.7	755.8	232.7	3.0	573.4	492.9	0.0	5:4.5	116.8	0.0	208.1	191.3
VET FINANCING FUNDS FLOW	-222,7	-335.3	-282.5	477.2	-373.4	-16516	ə:1.1	-5:4.5	-116.3	403.4	-103	-191.3
ITHER INFLOWS										ø		
LEL. IN STREE ASSENS	4.3	0.0	0.0	3.0	6.0	<u>0</u> .0	<b>0.</b> 9	ۇ. ئ	9.0	6.0	5.2	٤.0
INE. 14 GTHER 11-5.		0.0		3.0	3.0	613	2.9	i.e.	0.0	5.0	242	÷
10140 BTAER (NAFE043		0.0		0.0	3.9	9.2		0.0		5.0	2.3	<b>0</b> .)
GTHER COTFLOWS												
I: IFTER HOBERS	9.19	0.0	8.C	).9	1. E	9.9	1.9	2.0	9.9	્યન ફો	4.9	9 <b>.</b> 9
DEEL LY LFHER LINE.	ē.)	0.0	1.1	0.0	9.0	1.g	5.9	2.2	9.0	9.9	0.0	ê.ê
CTAL UCHER CONFLOWS	S.Ø.	8.Ĵ	். ர	÷.)		0.0	14 a.a.	5.V		)	5.0	0.0
WET GIREF FLADS FLIW	9.g		$\phi_{i}\phi_{j}$	9.0	)	2.0	2.	1	3.1	4,9	<b>).</b> 1	0.0
Pures 10,24438 8498-88	47.1	-5.1	2 · · · · ·			<b>19</b> .1	75.0	40.3	· 24.0	15.0	12.7	[a.3

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# FUNDS FLOW ANALYSIS (PAGE 2)

DIVIDENO	1000.0	0.0	0.0	1000.0	0.0	0.0	1000.0	0.0	0.0	1900.0	0.0	0.0
NET INVESTMENT												
ADDITIONS TO FIXED ASSETS	200.0	0.0	0.0	100.0	9.0	0.0	100.0	0.0	0.0	300.0		0.0
BOOK VALUE OF DISPOSED ASSETS		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0		0.0
NET INV. FUNDS FLOW	-200.0	0.0	0.0	-100.0	0.0	0.0	-100.0	0.0	0.0	-200.0	0.0	0.0
CHANGE IN CASH / NET FUNDS FLOW	-1948.0	, Ó	.0	.0	.0	44.8	-44.8	.0	377.9	-377.9	.0	.0
BEG. CASH & M/S	2548.0	600.0	500.0	600.0	600.0	600.0	644.8	500.0	600.0	977.9	500.0	600.0
ENDING CASH & M/S	500.0	600.0	600.0	600.0	600.0	644.8	600.0	600.0	977.9	600.0	600.0	600.0
TOTAL FLOW	3712.1	1143.6	930.6	1154.6	641.9	591.5	1240.5	653.4	557.7	1402.8	535.8	596.5
ENDING TOTAL ASSETS	14825.2	15389.7	15690.1	15477.6	15127.2	14881.7	14622.7	14182.5	14208.7	13392.1	14000.9	14178.7
TOTAL FLOW/TOTAL ASSETS	0.2504	0.0743	0.0593	0.0746	0.0424	0.0397	0.0348	0.0464	0.0392	0.1010	0.0583	0.0414
OPERATIONS	0.1357	0.4656	0.5578	0.4030	0.7102	0.7479	0.3464	0.5835	0.6665	0.2390	0.7178	0.5337
ACCOUNTS RECEIVABLE	-0.2020	-0.6350	-0.6512	0.1284	0.2578	0.2130	0.0000	0.4165	0.3335	0.0893	-0.5118	-0.3172
INVENTORY	0.3386	-0.0143	0.1372	-0.0127	-0.0228	-0.0248	0.1086	-0.0207	-6.0245	-0.1176	-0.0282	-0.2742
ACCOUNTS PAYABLE	-0.4020	0.5344	0.3050	0.0553	-0.0155	0.0391	-0.0850	-0.1367	-0.0239	0.1142	0.2822	0.3663
OTHER CURRENT ASSETS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	-0.0300	-0.3112		0.4135	-0.8934		0.5067	-0.7814	-0.2074	0.2876	-0.3684	-0.3262
	0.0000	0.0000	0.0000	0.0000	0.0000	9.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FIXED COVERAGE EXPENSE											-0.0716	-0.0525
	-0.0539	0.0000		-0.0866	0.0000		-0.0306	0.0000		-0.1426	0.0000	0.0000
	-0.2694	0.0000		-0.8661	0.0000		-0.8061	0.0000		-0.7129	9.0000	0.0000
	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000		0.0000		0.0000
CHANGE IN CASH .	0.5248	.0000	.0000	.0000	.0000	-0.0758	0.0361	.0000	-0.6777	0.2694	.0000	.0000
TOTAL FLOW - INFLOWS												
OPERATIONS	507.4	532.5	519.1	465.3	455.7	442.4	429.7	384.2	371.7	335.2	384.5	371.6
ACCOUNTS RECEIVABLE	0.0	0.0	0.0		136.0	125.0	0.0		186.0	126.0	0.0	0.0
	1256.3	0.0	127.7		9.0	0.0		0.0	0.0	0.0		0.0
ACCOUNTS PAYABLE	0.0	611.1	263.8	53.9	0.0	23.1		0.0	9.6		151.2	214.8
OTHER CURRENT ASSETS	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0
OTHER CURRENT LIABILITIES	9.0	0.0		0.0	0.0	0.0		0.0	0.0	0.)	0.0	0.0
S-T BORROWING	0.0	0.0	0.9	477.2	0.0	0.0	631.2	0.0	0.0	403.4	J.J	0.0
OTHER FINANCING	0.0	0.0	0.0	0.0	0.0	Ů.Ů	0.0		0.0	0.0	0.0	0.0
INVESTMENT	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER A & L	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
CHANGE IN CASH	1948.0	0.0	.0	.0	.0	0.0	44.3	.0	<b>0.</b> 0	377.9	0.0	.0
TOTAL FLOW	3712.1	1143.6	930.5	1154.5	541.7	591.3	1240.5	o\$3.4	557.7	1402.3	536.8	586.5
TOTAL FLOW - OUTFLOUS												
OPERATIONS	0.0	0.9	Ú.Č	0.0	9.9	0.0	0.0	0.0	6.0	aa	ۇ. ۋ	ĉ ŭ
	150.0	726.2			0.9							195.0
INVENTORY	0.9	15.3			14.5	14.7				157.3		172.0
ACCOUNTS PAYABLE	:492.3	0.0			e, 9				10.4			
OTHER CURRENT HESETS	0.9	0.0	0.0	ð.e	Ó.ð							
OTHER CLERENT LIABILITIES	0.0	0.0	<b>0.</b> 0	0.9	1.0	9.9						
S-T BORROWING	222.7	355.8	182.3	9.9	671.4	472.4	0.0		:15.8	0.0		171.3
OTHER FINANCING	9.0	10.0	9.0	0.0	3.0	0.0	0.0		0.0			
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# FUNDS FLOW ANALYSIS (PAGE 3)

FIXED COVERAGE EXPENSE	47.1	45.2	42.3	39.9	43.9	39.1	35.0	40.3	36.0	35.0	38.4	36.5
INVEGTMENT	200.0	0.0	0.0	100.0	0.0	0.0	100.0	0.0	0.0	200.0	0.0	9.0
DIVIDEND	1000.0	0.0	0.0	1000.0	0.0	9.0	1000.0	0.0	0.0	1000.0	0.0	0.0
OTHER A & L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHANGE IN CASH	0.0	.0	0.0	0.0	0.0	44.8	0.0	0.0	377.9	0.9	.0	0.0
TOTAL FLOW	3712.1	1143.6	930.6	1154.6	641.9	591.5	1240.5	638.4	557.7	1402.8	535.8	586.5

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# FINANCIAL RATIOS

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RATIO ANALYEIS												
DUPONT ANALYSIS	1	2	3	4	Ľ	ģ	7	8	9	10	4 4 1 1	12
PROFIT MARGIN ASSET TURNOVER	5.77% 2.34		9.40% 2.43	8.53% 2.24	8.07% 2.29	7.74% 2.33	7.45% 2.37	6.32% 2.20	6.01% 2.20	4.61%	5.73% 2.48	5.35% 2.45
RETURN ON ASSETS FIN. LEVERAGE MULTIPLIER	22.85%	24.11%	22.25%	19.10%	18.48% 1.85	18.08% 1.77			13.17%	10.34%	14.20%	13.08%
RETURN ON EQUITY		44.08%	41.13%	37.13%	34.11%	31.95%	33.82%		23.56%	20.30%	27.45%	
PROFITABILITY												
RETURN ON GROSS HARGIN RETURN ON OFERATIONS PROFIT MARGIN	31.08% 19.72% 9.77%			28.55% 17.18% 8.53%		27.12% 15.73% 7.76%		25.66% 13.26% 6.32%		24.24% 11.80% 4.61%	23.39% 11.95% 5.73%	
LIQUIDITY												
CURRENT RATIO GUICK RATIO CASH RATIO	2.20 1.72 0.19	2.25 1.80 0.17	2.39 1.78 0.17	2.03 1.67 0.15	2.33 1.90 0.17	2.63 2.18 0.22	2.22 1.34 0.17	2.60 2.13 0.21	2.30	2.22 1.75 0.18	2.35 1.97 0.16	2.44 1.91 0.18
DEBT MANAGEMENT								•				
DEBT RATIO TIMES INTEREST EARNED	45.27% 12.10			48.54% 12.43	45.81% 10.83		47.77% 12.39	44.99% 8.56	43.99% 9.04	49.05% 3.75	48.27% 9.00	47.83% 3.81
CASH CONVERSION CYCLE												
ACCOUNTS RECEIVABLE Inventory	51.2 23.1	53.4 21.0	59.1 19.1	63.5 21.0	61.6 21.0	50.2 21.0	60.2 18.9	43.8 21.0	61.a 21.0	60.2 23.4	57.0 21.0	58.9 23.1
ACCOUNTS PAYABLE	74.3 29.8	74.4 35.0	78.2 38.5	84.5 42.8	82.6 42.2	81.3 42.2	79.2 40.3	84.8 42.9	82.7 42.3	83.5 44.3	78.0 41.5	92.1 44.0
# OF DAYS IN CYCLE	44.5 =====	37.4 	39.8 =====	41.7	40.3	39.1	 	41.9	40.4	 	36.5 =====	38.1

NOTE: ALL RATIO CALCULATIONS ARE BASED ON NET SALES. NET SALES = GROSS GALES - EXPECTED GALES DISCOUNT - EXPECTED GAD DEBT

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# RECEIVABLES AND PAYABLES

CALCULATION OF ENDING A/R	1	2	3	4	5	ć	7	8	9	10	11	12
BEGINNING ACCOUNTS RECEIVABLE GROSS SALES EXPECTED SALES DISCOUNTS EXPECTED BAD DEBT	4150.0 3000.0 -21.0 -90.0	4930.0 3300.0 -23.1 -99.0	5655.2 3300.0 -23.1 -99.0	6262.2 3000.0 -21.0 -90.0	5114.0 5000.0 -21.0 -90.0	5928.0 3000.0 -21.0 -90.0	5802.0 3000.0 -21.0 -70.0	5802.0 2700.0 -18.9 -91.0	5527.8 2700.0 -18.9 -81.0	5341.8 2700.0 -18.9 -81.0	5215.8 3000.0 -21.0 -90.0	5490.0 3000.0 -21.0 -90.0
SUBTOTAL	7069.0	8107.9	8834.1	9151.2	9003.0	8817.0	8691.0	5402.1	8127.9	7941.9	8104.8	8379.0
GROSS COLLECTION ACTUAL SALES DISCOUNT ACTUAL BAD DEBT	2229.0 -15.0 -75.0	2539.0 -21.3 -66.0	2667.0 -23.1 -72.0	3120.0 -22.8 -60.0	3186.0 -21.0 -90.0	3135.0 -21.0 -99.0	3009.0 -21.0 -97.0	2985.0 -20.7 -70.0	2875.0 -18.9 -90.0	2835.0 -18.9 -90.0	2724.0 -19.2 -90.0	2805.0 -21.0 -81.0
NET COLLECTIONS	2139.0	2451.7	2571.9	3037.2	3075.0	3015.0	2369.0	2974.3	2786.1	2726.1	2614.8	2703.0
ENDING ACCOUNTS RECEIVABLE	4930.0 =====	5656.2 =====	6262.2 =====	5114.0 	5928.0 =====	5802.0 =====	5802.0 =====	5527.8	5341.8 =====	5215.8	5490.0 =====	5676.0 =====
CALSULATION OF ENDING A/P												
BEGINNING ACCOUNTS PAYABLE GROSS PURCHASES EXPECTED PURCHASE DISCOUNT	3480.0 747.4 -0.7	1987.7 2244.2 -2.2	2573.8 2122.4 -2.1	2882.6 2081.2 -2.1	2746.5 2102.0 -2.1	2736.5 2123.0 -2.1	2959.7 1994.2 -2.0	2354.2 1949.1 -1.9	2764.2 1953.6 -2.0	2750.8 2143.0 -2.1	2911.0 2231.3 -2.2	3062.3 2411.4 -2.4
SUBTOTAL	4226.7	4229.6	4719.1	4961.7	5046.4	5057.5	4951.8	4801.4	4730.9	4891.7	5140.1	5471.2
GROSE PAYMENTS ACTUAL FURCHASE DISCOUNTS	2239.7 -0.7	1633.1	1838.6 -2.1	2017.3	2112.0	2099.9	2099.7	2039.1	1982.0 -2.0	1932.8 -2.1	2080.1	2196.6
NET PAYMENTS	2239.0	1630.9	1836.4	2015.3	2107.9	2097.8	2097.7	2037.2	1930.0	1980.6	2077.9	2194.2
ENDING ACCOUNTS PAYABLE	1987.7 =====	2598.8 =====	2882.6	2946.5 =====	2936.5 =====	2959.7	2854.2	2764.2	2730.8	2911.0 =====	3062.3 =====	3277.1 =====

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