

## Chapter 10

## Evaluating Commercial Loan Requests

## Fundamental credit issues

$\square$ Regardless of the type of loan, all credit requests mandate a systematic analysis of the borrower's ability to repay.
$\square$ When evaluating loan requests, bankers can make two types of errors in judgment.

- Extending credit to a customer who ultimately defaults.
- Denying a loan to a customer who ultimately would repay the debt.
$\square$ In both cases, the bank loses a customer and its profits are less.


## Five fundamental issues

$\square$ Five fundamental issues
－Character and data quality
－Use of loan proceeds
－Loan amount
－Source and timing of repayment
－Collateral
$\square$ In addition to these issues，credit analysis should examine risks that are unique to each loan．
－Quality of mgt；the soundness of the business； sensitivity to economic conditions；the firm＇s relationship with other creditors；etc．

## Character and quality of data

$\square$ The foremost issue in assessing credit risk is determining a borrower's commitment and ability to repay debts.
$\square$ An individual's honesty, integrity, and work ethic typically evidence commitment. For a business, commitment is evidenced by the owners and senior management.
$\square$ Whenever there is deception or a lack of credibility, a bank should not do business with the borrower.
$\square$ It is often difficult to identify dishonest borrowers.
$\square$ The best indicators are the borrower's financial history and personal references.

## Use of loan proceeds

$\square$ Loan proceeds should be used for legitimate business operating purposes
$\square$ Speculative asset purchases and debt substitutions should be avoided．
$\square$ The true need and use of the loan proceeds determines the loan maturity，the anticipated source and timing of repayment， and the appropriate collateral．
$\square$ One common pitfall is to focus too much on collateral and end up financing a firm＇s long－term needs with short－term notes．

## Loan Amount

$\square$ The amount of credit required depends on the use of the proceeds and the availability of internal sources of funds.
$\square$ Borrowers often ask for too little in requesting a loan and return later for more funds.

## Primary source and timing of repayment

$\square$ Loans are repaid from cash flows．
$\square$ Four basic sources of cash flows：
－Liquidation of assets
－Cash flow from normal operations
－New debt issues
－New equity issues

## Collateral

$\square$ Collateral is the security a bank has in assets owned and pledged by the borrower against a debt in the event of default．
$\square$ Liquidating collateral is clearly a second best source of repayment for three reasons：
－There are significant transactions costs associated with foreclosure．（Time，money．）
－Bankruptcy laws allow borrowers to retain possession of the collateral long after they have defaulted．

## What can be collateral？

$\square$ Virtually any assets，or the general capacity to generate cash flow，can be used as collateral．
$\square$ Collateral must exhibit three features：
－Its value should always exceed the outstanding principal on a loan．
－A lender should be able to easily take possession of collateral and have a ready market for sale．

## Evaluation: A four-part process

$\square$ The purpose of credit analysis is to identify and define the lender's risk in making a loan.
$\square$ Four-part process:

- Overview of management, operations, and the firm's industry
- Common size and financial ratio analysis
- Analysis of cash flow
- Projections and analysis of the borrower's financial condition


## Step 1：Overview of management，operations and industry

$\square$ Background information on the firm＇s operations
－Organizational and business structure
－Products or services provided
－Competitive position in the marketplace
－Business and industry outlook report
－Management character and quality
－The nature of the borrower＇s loan request and the quality of the financial data provided．

## Step 2: Common size and financial ratio analysis

$\square$ Common size ratio:

- divide by total assets (balance sheet) or net sales (income statement).
- It is adjusted for size and thus enables comparisons across firms in the same industry or line of business.
- The figures can be distorted, if a firm has one balance sheet or income statement item that differs sharply from industry standards.


## Financial ratio analysis

$\square$ Four categories
－Liquidity ratios：indicate its ability to meet its short－term obligations and continue operations．
－Activity ratios：signal how efficiently a firm uses assets to generate sales．
－Leverage ratios：indicate the mix of the firm＇s financing between debt and equity and potential earnings volatility．
－Profitability ratios：indicate the firm＇s sales and earnings performance（ROE，ROA）．

## Step 3: Cash flow analysis

$\square$ Cash flow estimates are compared to principal and interest payments and discretionary cash expenditures to assess a firm's borrowing capacity and financial strength.
$\square$ Cash flows:

- Operating activities
- Investing activities
- Financing activities


## Step 4：Financial projections

$\square$ The previous 3 stages：historical performance
$\square$ The final step addresses the future conditions．
$\square$ In order to understand the range of potential outcomes，an analyst should make forecasts that incorporate different assumptions about the future．
$\square$ Sensitivity analysis：three alternative scenarios

## Risk-classification scheme

$\square$ After evaluating the borrower's risk profile along all dimensions, a loan is placed in a rating category ranked according to the degree of risk.
$\square$ Such a system is used for credit granting and pricing decisions.

## Two types of errors in judgment:

## $\square$ Type I Error

- Making a loan to a customer who will ultimately default
- Type II Error
- Deny a loan to a customer who would ultimately repay the debt.



## Ratio analysis

$\square$ Liquidity and activity ratios
$\square$ Leverage ratios
$\square$ Profitability ratios



## Liquidity and activity ratios

$\square$ Net Working Capital $=C A-C L$
$\square$ Current Ratio $=C A / C L$
$\square$ Quick Ratio $=($ Cash $+A / R) / C L$
$\square$ Days Cash = Cash / Avg. daily sales
$\square$ Inventory Turnover = COGS / Avg. Inv.
$\square \quad A R$ Collection (Days $A / R)=(A / R) /$ Avg. daily sales
$\square$ Days Cash to Cash
= Days Cash + Days A/R + Days inventory
$\square$ Days Payable Outstanding =AP / Avg. daily pur. = AP / [(COGS + II nventory) / 365]
$\square \quad$ Sales to net fixed assets = Sales / Net fixed assets

## Wades Office Furniture： Liquidity Ratios

| Wades Office Furniture <br> Unaudited：，SIC \＃2522 <br> FINANCIAL RATIOS | $\mid\left[-\right.$ HIS T O RIC A L－］${ }_{\text {c }} \mid$ | $\begin{gathered} {[- \text { HIS T O R IC A L-] }} \\ 2000 \\ \$ 1,000 \end{gathered}$ | $\begin{gathered} {[-H I S T O R I C A L-]} \\ 2001 \\ \$ 1,000 \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| Liquidity Ratios |  |  |  |
| Current Ratio | 1.45 | 1.48 | 1.40 |
| Quick Ratio | 0.78 | 0.81 | 0.74 |
|  | Days Times | Days Times | Days Times |
| Days Cash | 6.8053 .70 x | 5.9361 .53 x | 2.11172 .64 x |
| Accounts Receivable Turnover | $60.46 \quad 6.04 \mathrm{x}$ | 62.395 .85 x | $55.67 \quad 6.56 \mathrm{x}$ |
| Inventory Turnover | $83.20 \quad 4.39 \mathrm{x}$ | 81.094 .50 x | $78.00 \quad 4.68 \mathrm{x}$ |
| Days AP Outstanding | $48.83 \quad 7.47 \mathrm{x}$ | 60.60 6．02 x | $53.09 \quad 6.88 \mathrm{x}$ |
| Days Cash to Cash Cycle | 101.62 3．59 x | 88.814 .11 x | $82.70 \quad 4.41 \mathrm{x}$ |
| Est．W．C．financing Needs | \＄1，417 | \＄1，320 | \＄1，870 |
| Memo：COGS／Accounts payable | e 6.09 x | 5.97 x | 6.44 x |

## Leverage ratios

$\square$ Debt Ratio $=$ Debt／Total assets
$\square$ Debt to tangible net worth＝Debt／Tang．NW
$\square$ Times interest earned＝EBIT／Int．exp．
where，
EBIT＝Earns before tax plus int．exp．
$\square$ Fixed Charge Coverage
$=(E B I T+l e a s e ~ p a y) /(I n t$. exp．+ lease pay）
$\square$ Net Fixed Assets to Tangible NW
$\square$ Dividend Payout \％
＝Dividends paid／Net profit

## Wades Office Furniture： Leverage Ratios



## Profitability ratios

$\square$ Return on Equity（ROE）
＝Net income／Total equity
－Profit before taxes to net worth ＝Profit before taxes／Tangible net worth
$\square$ Return on Assets $($ ROA $)=$ Net income／Total assets
－Profit before taxes to total assets ＝Profit before taxes／Total assets
$\square$ Asset utilization（AU）＝Sales／Total assets sometimes referred to as asset turnover
$\square$ Profit margin（PM）＝Net income／Sales
$\square$ Sales growth $=\Delta$ Sales $/$ Last period＇s sales
$\square$ Income taxes to profit before taxes $=$ Reported income tax／Profit before taxes

## Wades Office Furniture： Profitability Ratios

| Wades Office Furniture <br> Unaudited：，SIC \＃2522 FINANCIAL RATIOS | $\left\lvert\, \begin{gathered} \mid \text { [- H I S T O R I C A L-] } \\ 1999 \\ \$ 1,000 \end{gathered}\right.$ | $\begin{gathered} {[-H I S T O R I C A L-]} \\ 2000 \\ \$ 1,000 \end{gathered}$ | $\begin{gathered} {[-H I S T O R I C A L-]} \\ 2001 \\ \$ 1,000 \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| Profitability Ratios |  |  |  |
| Return on Net Worth（ROE） | 18．07\％ | 13．05\％ | 22．54\％ |
| Profit Before Taxes to Net Worth | rth 29．09\％ | 21．94\％ | 36．24\％ |
| Return on Assets（ROA） | 5．61\％ | 4．44\％ | 7．57\％ |
| Profit Before Taxes to TA | 8．67\％ | 7．21\％ | 11．76\％ |
| Equity mult（leverage＝TA／TE） | 3.22 x | 2.94 x | 2.98 x |
| Income |  |  |  |
| Tot．asset turnover（sales／TA） | 2.32 x | 2.39 x | 2.77 x |
| All other income／total assets | 0．00\％ | 0．00\％ | 0．00\％ |
| Expenses |  |  |  |
| Net profit margin（NI／net sales） | s） $2.42 \%$ | 1．86\％ | 2．73\％ |
| COGS／net sales | 67．22\％ | 66．28\％ | 66．41\％ |
| Operating expenses／net sales | s 26．35\％ | 28．20\％ | 27．27\％ |
| Income Taxes to Earnings Before | fore 35．34\％ | 38．46\％ | 35．67\％ |
| Sales／Net Fixed Assets | 12.19 x | 13.66 X | 18.20 X |

## Cash flow analysis: Cash pays a loan not net income

## $\square$ Cash Assets

$\sum_{i=1}^{n} \Delta A_{i}=\sum_{i=1}^{m} \Delta L_{j}+\Delta N W$
$\square$ Let $A 1^{i=1}=$ Cash, then:
$\Delta A_{1}=\sum_{j=1}^{m} \Delta L_{j}-\sum_{i=2}^{n} \Delta A_{i}+\Delta N W$
$\square$ Let $\Delta N W=\Delta$ stock $+\Delta$ surplus $+\mathrm{NI}-$ DIV
$\Delta A_{1}=\sum_{i=1}^{m} \Delta L_{1}-\sum_{i=2}^{n} \Delta A_{i}+\Delta$ stock $+\Delta$ surplus $+N I-$ Div
$\square$ Let $\mathrm{NI}=$ Revenues - Expenses - Taxes

$$
\begin{aligned}
\Delta A_{1} & =\sum_{j=1}^{m} \Delta L_{j}-\sum_{i=2}^{n} \Delta A_{i}+\Delta \text { stock }+\Delta \text { surplus } \\
& + \text { Revenues - Expenses - Taxes - DIV }
\end{aligned}
$$

## Sources and uses of cash

$\Delta A_{1}=\sum_{j=1}^{m} \Delta L_{j}-\sum_{i=2}^{n} \Delta A_{i}+\Delta$ stock $+\Delta$ surplus
＋Revenues－Expenses－Taxes－DIV
$\square$ Sources of cash are：
－Increase in any liability
－Decrease in any non－cash asset
－New issues of stock
－Additions to surplus
－Revenues
$\square$ Uses of cash are：
－Decrease in any liability
－Increases in any non－cash assets
－Repayment／refunding of stock
－Deductions from surplus
－Cash expenses，taxes，dividends

## Understanding sources and uses

$\square$ Assets are a use of cash: - (At - At-1)
$\square$ Liabilities are a source of cash: - +(Lt - Lt-1)
$\square$ Revenues are a source of cash: - +Revenues
$\square$ Expenses are a use of cash:

- -Expenses
$\square$ Just sum up each part


## There are two types of cash flow statements

1. Direct

- Converts the income statement into a "cash based income statement."
- Begins with net sales and adjust for changes in balance sheet items.

2. Indirect

- Adjusts net income for non-cash charges and changes in balance sheet items.


## Four sections in either cash flow statement.

## 1. Operations

- Includes income statement items and all current assets and current liabilities.

2. Investing

- Includes all long term assets

3. Financing

- Includes all long term liabilities and equity (except retained earnings) plus dividends paid.

4. Cash

- Total of the above, but must equal the actual change in cash and marketable securities.


## Converting the income statement into a cash based income statement

1．Operating：
$\square$ Cash sales：
－＋Net Sales
－－$\Delta$ Accounts receivables
－＝Cash sales
$\square$ Cash purchases（negative value）：
－COGS
－$\Delta$ I nventory
$+\Delta$ Accounts payable
＝Cash purchases
＝Cash gross margin

# Converting the income statement into a cash based income statement 

Operating（continued）：
$\square$ Cash operating expenses（negative value）：
－－Operating expenses
－＋Non－cash charges（dep．and amortization．）
－$\Delta$ Prepaid expenses
$+\Delta$ Accruals
＝Cash operating expenses
$\square$ Other expenses and taxes：
－Other expenses＋Other income
－Reported taxes
－＋Income tax payables and deferred inc．tax
－＝Other expenses and taxes
$\square=$ Cash flow from operations（CFO）

## Cash based income statement（cont．）

2．Investing：
－Capital Exps．$=\Delta$ Net fixed assets＋depreciation
－$\Delta$ Other long term assets
－＝Cash used for Investing．
3．Financing：
－Payments for last periods current maturity debt
－Payments for dividends
－＝Payments for financing
－$+\Delta$ Debt + EOP CM debt
－New stock issues
－＝External Financing
4．＝Change in cash and marketable securities

## Projections of financial condition

$\square$ Pro Forma projections of the borrowers condition reveal:

- How much financing is required.
- When the loan will be repaid.
- Use of the loan.
$\square$ Pro Forma Projections
- Determine critical and non critical assumptions.
- Use industry projections, internal projections and judgment to determine sales projections.


## Pro Forma: I ncome Statement

$\square \quad$ Sales $_{2002}$
$\square \mathrm{COGS}_{2002}$

$$
\begin{aligned}
= & \text { Sales }_{2001} \times\left(1+g_{\text {sales }}\right) \\
& =\$ 12,430 \times(1+0.20)=\$ 14,916
\end{aligned}
$$

$=$ Sales $_{2002} \times$ COGS $\%$ of Sales $=\$ 14,916 \times 0.68=\$ 10,143$
ㅁ Sell. $\operatorname{Exp}_{2002}$
$=$ Sales $_{2002} \times$ Selling Exp. \% of Sales $=\$ 14,916 \times 0.13=\$ 1,939$
ㅁ G\&A Exp 2002
$=$ Sales $_{2002} \times$ G\&A Exp. \% of Sales
$=\$ 14,916 \times 0.122=\$ 1,820$
$\square$ Int. $\operatorname{Exp}_{2002}$
$=($ Bank debt $2002 \times$ rate on bank debt $)$ + (L.T. debt $2002 \times$ rate on L.T. debt)
$=\$ 697 \times 0.145$
$+[(\$ 75+\$ 50+\$ 350+\$ 225) \times 0.09]$
$=\$ 186$

## Pro Forma: Balance Sheet (Assets)

Associate balance sheet items with sales.
$\square \quad \begin{aligned} &= \text { Days A/R } \times \text { Average Daily Sales } \\ & 2002 \\ &=50 \quad \times(\$ 14,916 / 365)=\$ 2,043\end{aligned}$
$\square$ Inventory ${ }_{2002}=$ COGS $_{2002} /$ Inventory turnover

$$
=\$ 10,143 / 4.9=\$ 2,070
$$

Capital expenditures from the capital budget:
$\square$ Gross fixed $\begin{aligned}(G F A)_{2002} & =\text { GFA }_{2001}+\text { Cap. Exp. } 2002 \\ & =\$ 791+\$ 400=\$ 1,191\end{aligned}$
$\square$ Accumulated depreciation 2002

$$
\begin{aligned}
&=\text { Acc. Dep. } 2001+\text { depreciation exp. } 2002 \\
&=\$ 346 \\
&+\$ 110=\$ 973
\end{aligned}
$$

## Pro Forma: Balance Sheet (Liabilities)

Trade credit may be tied to inventory growth, thus accounts payable tied to inventory growth:
$\square \mathrm{AP}_{2002}=$ Days AP $\times$ Avg. Daily purchases 2002

$$
\begin{aligned}
& =\text { Days AP } \times\left(\left(\mathrm{COGS}_{2002}+\Delta \operatorname{lnv} \cdot 2002\right) / 365\right) \\
& =53 \times(\$ 10,143+(\$ 2,070-\$ 1,764) / 365) \\
& =\$ 1,517 \times
\end{aligned}
$$

Principal payments on debt can be obtained from the capital budget:
$\square L^{2} D_{2002}=L_{T D}^{2001}+$ New $L_{2002}-C M L_{2} D_{2002}$

$$
=\$ 300+\$ 0 \quad-\$ 75
$$

$$
=\$ 225
$$

-Term notes $(\mathrm{TN})_{2002}=\mathrm{TN}_{2001}+$ New TN $2002-\mathrm{CM} \mathrm{TN}_{2002}$

$$
=\$ 0+\$ 400-\$ 50
$$

$$
=\$ 350
$$

## Pro Forma: Balance Sheet (Equity)

## Balance sheet definitions:

$\square$ Retained earnings (RE) 2002

$$
=\mathrm{RE}_{2001}+\left(\mathrm{NI}_{2002}-\text { Div }_{\cdot 2002}\right)+\text { Acct }
$$

Adjust.

$$
\begin{aligned}
& =\$ 804+(\$ 339-\$ 0)+0 \\
& =\$ 1,893
\end{aligned}
$$

$\square$ Stock $_{2002}=$ Stock $_{2001}+$ New stock issues

## Pro Forma: Determining the "Plug Figure"

- Sales growth will determine growth in receivables, inventory and profit.
- Net Income varies directly with sales in a stable environment.
The difference in projected asset base and total funding without new debt determines additional credit needed or the Plug figure.
- When Assets $_{2002}>$ Liabilities $_{2002}+$ Net worth 2002 )
$\rightarrow$ Additional financing is required (notes payable plug): Notes payable $2002=A_{2002}-\left(L_{2002}+\mathrm{NW}_{2002}\right)$
- When Assets $_{2002}<$ Liabilities $_{2002}+$ Net worth 2002 )
$\rightarrow$ Surplus cash, invest (marketable securities (plug): Mkt. securities $2002=-\left(A_{2002}-\left(L_{2002}+N W_{2002}\right)\right)$


## Wades financial projections assumptions： Most likely circumstances，income statement

$\square$ Sales increase by 20 percent annually．
$\square$ Cost of goods sold equals 68 percent of sales．
$\square$ Selling expenses average 13 percent of sales，
$\square$ G\＆A expenses average 12.2 percent of sales
$\square$ Depreciation equals $\$ 110,000$ annually．
$\square$ Noninterest expense equals \＄110，000 in 2002 and $\$ 135,000$ in 2000.
$\square$ Interest expense equals 14.5 percent of bank debt and 9 percent of other long－term debt．
$\square$ Income taxes equal 36 percent of earnings before taxes
$\square$ Income tax payable increases annually by the rate of change in 2001.

## Wades financial projections assumptions： Most likely circumstances，balance sheet

$\square$ A／R collection improves to：
50 in 2002 and 46 in 2000.
$\square$ Inventory turnover increases to：
4.9 in 2002 and 5.1 times in 2000.
$\square$ Days AP outstanding remains constant at 53 ．
$\square$ Prepaid expenses increase by $\$ 5,000$
$\square$ Accruals increase by $\$ 20,000$ annually．
$\square \$ 400,000$ is loaned to purchase new equipment，with the principal repaid in 8 equal annual installments．
－depreciation on the new equip．\＄40，000，while depreciation on old will be $\$ 70,000$ per year．
$\square$ The minimum cash required is $\$ 120,000$ ．
$\square$ Other assets remain constant at \＄50，000．

## Pro forma Projections：Wades Office Furniture，Income Statement

| Wades Office Furniture Unaudited：，SIC \＃2522 INCOME STATEMENT | $\begin{aligned} & \text { [-H IS } \\ & \% \text { Cha } \end{aligned}$ | 2001 <br> \＄1，000 | A L－］ \％of Total | $\mid[--P R O$ <br> \％Cha |  | M A－－］ \％of Total | $\mid[--P R O$ <br> \％Cha |  | M A－－］ \％of Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | 51．88\％ | 12，430 | 100．0\％ | 20．00\％ | 14，916 | 100．0\％ | 20．00\％ | 17，899 | 100．0\％ |
| Cost of goods sold | 52．19\％ | 8，255 | 66．4\％ | 22．87\％ | 10，143 | 68．0\％ | 20．00\％ | 12，171 | 68．0\％ |
| Gross profit | 51．27\％ | 4，175 | 33．6\％ | 14．33\％ | 4，773 | 32．0\％ | 20．00\％ | 5，728 | 32．0\％ |
| Selling expenses | 58．67\％ | 1，628 | 13．1\％ | 19．11\％${ }^{\text {「 }}$ | 1，939 | 13．0\％ | 20．00\％ | 2，327 | 13．0\％ |
| Management salaries | 0．00\％ | 0 | 0．0\％ | 0．00\％ | 0 | 0．0\％ | 0．00\％ | 0 | 0．0\％ |
| General \＆administrative expensé | 39．47\％ | 1，689 | 13．6\％ | 7．74\％${ }^{\prime}$ | 1，820 | 12．2\％ | 20．00\％ | 2，184 | 12．2\％ |
| Research and development expen | 0．00\％ | 0 | 0．0\％ | 0．00\％${ }^{\prime \prime}$ | 0 | 0．0\％ | 0．00\％ | 0 | 0．0\％ |
| Depreciation \＆amortization | 2．82\％ | 73 | 0．6\％ | 50．68\％${ }^{\prime \prime}$ | 110 | 0．7\％ | 0．00\％ | 110 | 0．6\％ |
| Other operating expenses | 0．00\％ | 0 | 0．0\％ | 0．00\％${ }^{\prime \prime}$ | 0 | 0．0\％ | 0．00\％ | 0 | 0．0\％ |
| Total operating expenses | 46．88\％ | 3，390 | 27．3\％ | 14．12\％ | 3，869 | 25．9\％ | 19．43\％ | 4，621 | 25．8\％ |
| Operating profit | 73．67\％ | 785 | 6．3\％ | 15．20\％ | 904 | 6．1\％ | 22．43\％ | 1，107 | 6．2\％ |
| Interest on marketable securities | 0．00\％ | 0 | 0．0\％ | 0．00\％ | 0 | 0．0\％ | 0．00\％ | 0 | 0．0\％ |
| Income on long term investments | 0．00\％ | 0 | 0．0\％ | 0．00\％${ }^{\text {² }}$ | 0 | 0．0\％ | 0．00\％ | 0 | 0．0\％ |
| Interest expense－Bank Notes | 31．93\％ | 157 | 1．3\％ | －35．62\％ | 101 | 0．7\％ | －48．49\％ | 52 | 0．3\％ |
| Interest expense－Term notes＋LT | 0．00\％ | 0 | 0．0\％ | \＃N／A | 85 | 0．6\％ | －16．47\％ | 71 | 0．4\％ |
| All other expenses | 17．44\％ | 101 | 0．8\％ | 8．91\％${ }^{\prime}$ | 110 | 0．7\％ | 22．73\％ | 135 | 0．8\％ |
| All other income | 0．00\％ | 0 | 0．0\％ | 0．00\％${ }^{\prime}$ | 0 | 0．0\％ | 0．00\％${ }^{\text { }}$ | 0 | 0．0\％ |
| Total All Other Income（Expenses | 25．85\％ | （258） | －2．1\％ | 14．76\％ | （296） | －2．0\％ | －12．84\％ | （258） | －1．4\％ |
| Profit before taxes | 113．36\％ | 527 | 4．2\％ | 15．41\％ | 608 | 4．1\％ | 39．60\％ | 849 | 4．7\％ |
| Income taxes | 97．89\％ | 188 | 1．5\％ | 16．46\％ | 219 | 1．5\％ | 39．60\％ | 306 | 1．7\％ |
| Extraordinary and other income（e | 0．00\％ | 0 | 0．0\％ | 0．00\％${ }^{\prime}$ | 0 | 0．0\％ | 0．00\％ | 0 | 0．0\％ |
| Net income | 123．0\％ | 339 | 2．7\％ | 14．8\％ | 389 | 2．6\％ | 39．6\％ | 543 | 3．0\％ |
| Dividends | 0．00\％ | 0 | 0．0\％ | 0．00\％${ }$ | 0 | 0．0\％ | 0．00\％ | 0 | 0．0\％ |
| Retained earnings | 123．03\％ | 339 | 2．7\％ | 14．82\％ | 389 | 2．6\％ | 39．60\％ | 543 | 3．0\％ |
| 1 |  |  |  |  |  |  |  |  |  |

## Pro forma Projections：Wades Office Furniture Balance Sheet（Assets）

| Wades Office Furniture Unaudited：，SIC \＃2522 BALANCE SHEET | ［－HISTORICAL－］ |  |  | ［－－PRO FORM A－－］ |  |  | ［－P P O F ORMA－－］ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $2001$ | $\%$ of |  | $2002$ | \％of |  | $2003$ | \％of |
| ASSETS |  |  |  |  |  |  |  |  |  |
| Cash | －45．86\％ | 72 | 1．6\％ | 66．67\％${ }^{\text {² }}$ | 120 | 2．3\％ | 0．00\％ | 120 | 2．1\％ |
| Marketable securities | 0．00\％ | 0 | 0．0\％ | 0．00\％ | 0 | 0．0\％ | 0．00\％ | 0 | 0．0\％ |
| Accounts receivable | 35．53\％ | 1，896 | 42．3\％ | 7．77\％ | 2，043 | 38．7\％ | 10．40\％ | 2，256 | 39．6\％ |
| Inventory | 46．39\％ | 1，764 | 39．4\％ | 17．35\％ | 2，070 | 39．2\％ | 15．29\％ | 2，387 | 41．9\％ |
| Prepaid expenses | －70．00\％ | 15 | 0．3\％ | 33．33\％ | 20 | 0．4\％ | 25．00\％ | 25 | 0．4\％ |
| Deferred tax asset | 0．00\％ | 0 | 0．0\％ | 0．00\％ | 0 | 0．0\％ | 0．00\％ | 0 | 0．0\％ |
| Other current assets | 0．00\％ | 0 | 0．0\％ | 0．00\％ | 0 | 0．0\％ | 0．00\％ | 0 | 0．0\％ |
| Current assets | 34．45\％ | 3，747 | 83．6\％ | 13．51\％ | 4，253 | 80．6\％ | 12．56\％ | 4，787 | 84．0\％ |
| Gross fixed assets | 17．36\％ | 791 | 17．7\％ | 50．57\％ | 1，191 | 22．6\％ | 0．00\％ | 1，191 | 20．9\％ |
| Leasehold improvements | 17．82\％ | 238 | 5．3\％ | 0．00\％ | 238 | 4．5\％ | 0．00\％ | 238 | 4．2\％ |
| Less accumulated dep． | 24．91\％ | 346 | 7．7\％ | 31．79\％${ }^{\text {² }}$ | 456 | 8．6\％ | 24．12\％ | 566 | 9．9\％ |
| Net fixed assets | 14．02\％ | 683 | 15．2\％ | 42．46\％ | 973 | 18．4\％ | －11．31\％ | 863 | 15．1\％ |
| Notes \＆contracts receivable | 0．00\％ | 0 | 0．0\％ | 0．00\％ | 0 | 0．0\％ | 0．00\％ | 0 | 0．0\％ |
| Long－term investments | 0．00\％ | 0 | 0．0\％ | 0．00\％ | 0 | 0．0\％ | 0．00\％ | 0 | 0．0\％ |
| Intangible assets | 28．21\％ | 50 | 1．1\％ | 0．00\％ | 50 | 0．9\％ | 0．00\％ | 50 | 0．9\％ |
| Other noncurrent assets | 0．00\％ | 0 | 0．0\％ | 0．00\％ | 0 | 0．0\％ | 0．00\％ | 0 | 0．0\％ |
| Total Assets | 30．80\％ | 4，480 | 100．0\％ | 17．77\％ | 5，276 | 100．0\％ | 8．04\％ | 5，700 | 100．0\％ |

Pro forma Projections：Wades Balance Sheet（Liabilities and Equities）

| Wades Office Furniture Unaudited：，SIC \＃2522 BALANCE SHEET | $\begin{aligned} & \text { [- H I S } \\ & \text { \% Cha } \end{aligned}$ | 2001 <br> \＄1，000 | A L \％of Total | $\begin{aligned} & {[--P R O} \\ & \% \text { Cha } \end{aligned}$ |  | И A --] \％of <br> Total | $\text { \| }--P R O$ <br> \％Cha |  | I A --] \％of <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LIABILITIES \＆EQUITY |  |  |  |  |  |  |  |  |  |
| Notes payable－bank | 53．26\％ | 892 | 19．9\％ | －21．85\％ | 697 | 13．2\％ | －48．49\％ | 359 | 6．3\％ |
| Accounts payable | 41．19\％ | 1，282 | 28．6\％ | 18．35\％ | 1，517 | 28．8\％ | 19．52\％ | 1，813 | 31．8\％ |
| Accrued expenses | 34．88\％ | 348 | 7．8\％ | 5．75\％ | 368 | 7．0\％ | 5．43\％ | － 388 | 6．8\％ |
| Income tax payable | 27．42\％ | 79 | 1．8\％ | 27．42\％${ }^{\text {² }}$ | 101 | 1．9\％ | 27．42\％ | 128 | 2．3\％ |
| Current maturity－Term note | 0．00\％ | 0 | 0．0\％ | \＃N／A | 50 | 0．9\％ | 0．00\％ | 50 | 0．9\％ |
| Current maturity－LTD | 0．00\％ | 75 | 1．7\％ | 0．00\％ | 75 | 1．4\％ | 0．00\％ | － 75 | 1．3\％ |
| Other current liabilities | 0．00\％ | 0 | 0．0\％ | 0．00\％ | 0 | 0．0\％ | 0．00\％ | 0 | 0．0\％ |
| Current liabilities | 41．96\％ | 2，676 | 59．7\％ | 4．93\％ | 2，808 | 53．2\％ | 0．20\％ | 2，814 | 49．4\％ |
| Deferred tax liability | 0．00\％ | 0 | 0.0 | 0．00\％${ }$ | 0 | 0．0\％ | 0．00\％${ }^{\text {² }}$ | 0 | ．0\％ |
| Term notes | 0．00\％ | 0 | 0．0\％ | \＃N／A | 350 | 6．6\％ | －14．29\％ | 300 | 5．3\％ |
| Long－term debt（LTD） | －20．00\％ | 300 | 6．7\％ | －25．00\％ | 225 | 4．3\％ | －33．33\％ | 150 | 2．6\％ |
| Other noncurrent liabilities | 0．00\％ | 0 | 0．0\％ | 0．00\％ | 0 | 0．0\％ | 0．00\％ | 0 | 0．0\％ |
| Total liabilities | 31．68\％ | 2，976 | 66．4\％ | 13．68\％ | 3，383 | 64．1\％ | －3．53\％ | 3，264 | 57．3\％ |
| Common stock－ | 0．00\％ | 600 | 13．4\％ | 0．00\％ | 600 | 11．4\％ | 0．00\％ | 600 | 10．5\％ |
| Paid－in surplus | 0．00\％ | 100 | 2.2 | 0．00\％${ }^{\prime \prime}$ | 100 | 1．9\％ | 0．00\％ | 100 | 1．8\％ |
| Preferred stock | 0．00\％ | 0 | 0．0\％ | 0．00\％ | 0 | 0．0\％ | 0．00\％ | 0 | 0．0\％ |
| Treasury and other equities | 0．00\％ | 0 | 0．0\％ | 0．00\％ | 0 | 0．0\％ | 0．00\％ | 0 | 0．0\％ |
| Retained earnings | 72．90\％ | 804 | 17.9 | 48．41\％ | 1，193 | 22.6 | 45．54\％ | 1，737 | 30．5\％ |
| Stockholder＇s equity | 29．10\％ | 1，504 | 33．6\％ | 25．88\％ | 1，893 | 35．9\％ | 28．70\％ | 2，437 | 42．7\％ |
| Total Liab and Equity | 30．80\％ | 4，480 | 100．0\％ | 17．77\％ | 5，276 | 100．0\％ | 8．04\％ | 5，700 | 100．0\％ |

## Pro forma Projections： <br> Wades Office Furniture Liquidity and Leverage Ratios



Pro forma Projections：Wades Profitability，Cash Flow and Growth Ratios


## Pro forma projections：Wades Cash Based Income Statement（operations）

Wades Office Furniture｜historical｜pro FORMAtPRO FORMA Unaudited：，sIC \＃2522 CASH BASED INCOME STATEMENT Net sales Chang

Cash receipts from sales
Cost of goods sold
Change in inventory
Change in accounts payable
Cash purchases
Cash margin
Total operating expenses Depreciation \＆amortization Change in prepaid expenses Change in accruals Change in other current assets \＆liab．

Cash operating expenses
Cash operating profit
Interest on marketable securities Income on long term investments All other expenses \＆income（net）

Cash before interest \＆taxes
Interest expense－Bank notes Interest expense－Term notes and LTD Income taxes reported
Change in income tax payable Change in deferred income taxes

Cash flow from operations（CFO）


## Pro forma Projections： <br> Wades Cash Based I ncome Statement（investment，financing and cash）

Wades Office Furniture｜historical｜pro formatpro forma Unaudited：，SIC \＃2522 CASH BASED INCOME STATEMENT

| Cash flow from operations（CFO） | －128 | 318 | 463 |
| :---: | :---: | :---: | :---: |
| Capital exp．and leasehold improvements | －157 | －400 | 0 |
| Change in long－term investments | 0 | 0 | 0 |
| Change in intangible assets | －11 | 0 | 0 |
| Change in other noncurrent assets | 0 | 0 | 0 |
| Cash Used for Investments | －168 | －400 | 0 |
| Payment for last period＇s CM Term note | 0 | 0 | －50 |
| Payment for last period＇s CMLTD | －75 | －75 | －75 |
| Dividends paid（DIV） | 0 | 0 | 0 |
| Payments for financing | －75 | －75 | －125 |
| Cash before external financing | －371 | －157 | 338 |
| Change in short－term bank debt | 310 | －195 | －338 |
| Change in term notes \＆EOP CM term note | 0 | 400 | 0 |
| Change in LT debt＋EOP CMLTD | 0 | 0 | 0 |
| Change in stock \＆surplus | 0 | 0 | 0 |
| Change in preferred stock | 0 | 0 | 0 |
| Change in treasury and other equities | 0 | 0 | 0 |
| Change in other noncurrent liabilities | 0 | 0 | 0 |
| External financing | 310 | 205 | －338 |
| Extraordinary exp．and cha．In acct．prin． | 0 | 0 | 0 |
| Current period accounting adjustment | 0 | 0 | 0 |



