# ANALYSIS AND INTERPRETATION OF FINANCIAL STATEMENTS 



## Financial Statement Analysis



Who analyzes financial statements?
Internal users - management
External users - investors \& creditors

## Financial Statement Analysis

## What do internal users use it for?

 Planning, evaluating and controlling company operationsWhat do external users use it for?
Assessing past performance and current financial position and making predictions about the future profitability and solvency of the company as well as evaluating the effectiveness of management

## Financial Statement Analysis



Information is available from:
Financial statements
Auditor's report (Independent accountants)
Management's discussion and analysis

## Methods of <br> Financial Statement Analysis



## Horizontal Analysis

Vertical Analysis
Ratio Analysis

## Horizontal Analysis

Uses comparative financial statements to calculate dollar and or percentage changes in a financial statement item from one period to the next.


## Horizontal Analysis

## Calculating Change in Dollar Amounts

| Dollar |
| :---: | :---: |
| Change |$=$| Current Year |
| :---: |
| Figure |$-$| Base Year |
| :---: | :---: |
| Figure |

## Horizontal Analysis

## Calculating Change as a Percentage

## Percentage

$=\quad$ Dollar Change

## Sample Balance Sheet Horizontal Analysis

| Horizontal Analysis of Comparitive Balance Sheets |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| For Years Ended |  |  |  |  |
| Description | 2021 | 2020 | Horizontal Variance |  |
|  | Amount | Amount | Amount | Percentage |
| Assets |  |  |  |  |
| Cash | 15,000.00 | 10,000.00 | 5,000.00 | 50.0\% |
| Securities | - | - | - | 0.0\% |
| Accounts Receivable - AR | 30,000.00 | 25,000.00 | 5,000.00 | 20.0\% |
| Notes Receivable | - | - | - | 0.0\% |
| Stock/Inventory | 20,000.00 | 15,000.00 | 5,000.00 | 33.3\% |
| Prepaid Expenses | 5,000.00 | 3,000.00 | 2,000.00 | 66.7\% |
| Current Assets | 70,000.00 | 53,000.00 | 17,000.00 | 32.1\% |
| Fixed Assets (Property, Plant, Equipment | 30,000.00 | 25,000.00 | 5,000.00 | 20.0\% |
| Total Assets | 100,000.00 | 78,000.00 | 22,000.00 | 28.2\% |
| Liabilities and Stockholder's Equity |  |  |  |  |
| Liabilities |  |  |  |  |
| Accounts Payable - AP | 20,000.00 | 15,000.00 | 5,000.00 | 33.3\% |
| Accrued Liabilities | 3,000.00 | 2,000.00 | 1,000.00 | 50.0\% |
| Short -term borrowings | 1,000.00 | 2,000.00 | $(1,000.00)$ | -50.0\% |
| Taxes | 2,000.00 | 1,000.00 | 1,000.00 | 100.0\% |
| Current Liabilities | 26,000.00 | 20,000.00 | 6,000.00 | 30.0\% |
| Loans | 2,000.00 | 5,000.00 | $(3,000.00)$ | -60.0\% |
| Other long terms debt | - | - | - | 0.0\% |
| Total Liabilities | 28,000.00 | 25,000.00 | 3,000.00 | 12.0\% |
|  |  |  |  |  |
| Stockholder's Equity |  |  |  |  |
| Common Stock | 20,000.00 | 20,000.00 | - | 0.0\% |
| Paid In Capital | 5,000.00 | 5,000.00 | - | 0.0\% |
| Retained Earnings | 47,000.00 | 28,000.00 | 19,000.00 | 67.9\% |
| Total Stockholder's Equity | 72,000.00 | 53,000.00 | 19,000.00 | 35.8\% |
|  |  |  |  |  |
| Total Liabilities and Stockholder's Equity | 100,000.00 | 78,000.00 | 22,000.00 | 28.2\% |

## Sample Income Statement Horizontal Analysis

| Horizontal Analysis Income Statements |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| For Periods |  |  |  |  |
| Description | 2021 | 2020 | Variance |  |
|  | Amount | Amount | Amount | Percentage |
| INCOME |  |  |  |  |
| Sales from sale of goods and services (Net of discounts) | 250,000.00 | 225,000.00 | 25,000.00 | 11.11\% |
| Returns \& Allowances | 7,000.00 | 5,000.00 | 2,000,00 | 40.00\% |
| Net Sales | 243,000.00 | 220,000.00 | 23,000.00 | 10.45\% |
| Other Operating Revenue |  |  | - | 0.00\% |
| Other Income | 2,500.00 | 2,000.00 | 500.00 | 25.00\% |
| Total Revenue | 245,500.00 | 222,000.00 | 23,500.00 | 10.59\% |
| EXPENSES |  |  |  |  |
| Cost Of Goods Sold | 65,000.00 | 50,000.00 | 15,000.00 | 30.00\% |
| Salaries \& Wages | 85,000.00 | 80,000.00 | 5,000.00 | 6.25\% |
| Payroll Taxes | 8,500.00 | 8,000.00 | 500.00 | 6.25\% |
| Employee Benefits Expense | 6,000.00 | 5,000.00 | 1,000,00 | 20.00\% |
| Advertising | 2,000.00 | 3,000.00 | (1,000.00) | -33.33\% |
| Professional Fees | 3,000.00 | 4,000.00 | (1,000.00) | -25.00\% |
| Maintenance \& Repairs | 4,000.00 | 6,000.00 | (2,000.00) | -33.33\% |
| Utilities | 8,700.00 | 8,000.00 | 700.00 | 8.75\% |
| Rent | 12,000.00 | 12,000.00 | - | 0.00\% |
| Vehicle Expenses | 3,500.00 | 4,000.00 | (500.00) | -12.50\% |
| Entertainment | 1,000.00 | 2,000.00 | (1,000.00) | -50.00\% |
| Postage | 600.00 | 500.00 | 100.00 | 20.00\% |
| Telephone \& internet | 700.00 | 600.00 | 100.00 | 16.67\% |
| Bank Fees | 300.00 | 200.00 | 100.00 | 50.00\% |
| Credit Card Fees | 7,000.00 | 5,000.00 | 2,000.00 | 40.00\% |
| Office Supplies | 1,500.00 | 1,000.00 | 500.00 | 50.00\% |
| Computer Supplies | 1,000.00 | 2,000.00 | (1,000.00) | -50.00\% |
| Insurance | 5,500.00 | 5,000.00 | 500.00 | 10.00\% |
| Licenses \& Permits | 700.00 | 800.00 | (100.00) | -12.50\% |
| Business Taxes | 1,500.00 | 2,000.00 | (500.00) | -25.00\% |
| Other Expenses | 1,000.00 | 1,500.00 | (500.00) | -33.33\% |
| Total Operating Expenses | 153,500.00 | 150,600.00 | 2,900,00 | 1.93\% |
| Total Expenses | 218,500.00 | 200,600.00 | 17,900.00 | 8.92\% |
| EARNINGS BEFORE INTEREST, TAX, DEPRECIATION AND AMORTIZATION | 27,000.00 | 21,400.00 | 5,600.00 | 26.17\% |
| Depreciation and Amortisation Expense | 5,000.00 | 5,000.00 | - | 0.00\% |
| Interest |  |  | - | 0.00\% |
| PROFIT BEFORE EXCEPTIONAL ITEMS AND TAX | 22,000.00 | 16,400.00 | 5,600.00 | 34.15\% |
| Exceptional Items |  |  | - | 0.00\% |
| PROFIT BEFORE TAX | 22,000.00 | 16,400.00 | 5,600.00 | 34.15\% |
| Less: Tax Expense |  |  |  |  |
| Current Tax | 3,000.00 | 2,400.00 | 600.00 | 25.00\% |
| Total Tax Expenses | 3,000,00 | 2,400,00 | 600.00 | 25.00\% |
| PROFIT AFTER TAX | 19,000.00 | 14,000.00 | 5,000.00 | 35.71\% |

## Vertical Analysis

> Each item is expressed as a percentage of a significant total, e.g., all income statement items are expressed as a percentage of sales and balance sheet items as a percentage of assets.

## Vertical Analysis Statements

Income
Statement Percentage \%

Balance
Sheet $=\frac{\text { Item }}{\text { Th }} 100$
Percentage
Total Assets

## Sample Balance Sheet Vertical Analysis

| Vertical Analysis of Comparitive Balance Sheets |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| For Periods |  |  |  |  |
| Description | 2021 |  | 2020 |  |
|  | Amount | Percent | Amount | Percent |
| Assets |  |  |  |  |
| Cash | 15,000.00 | 15.0\% | 10,000.00 | 12.8\% |
| Securities | - | 0.0\% | - | 0.0\% |
| Accounts Receivable - AR | 30,000.00 | 30.0\% | 25,000.00 | 32.1\% |
| Notes |  | 0.0\% | - | 0.0\% |
| Stock/Inventory | 20,000.00 | 20.0\% | 15,000.00 | 19.2\% |
| Prepaid Expenses | 5,000.00 | 5.0\% | 3,000.00 | 3.8\% |
| Current Assets | 70,000,00 | 70.0\% | 53,000.00 | 67.9\% |
| Fixed Assets (Property, Plant, Equipment) | 30,000.00 | 30.0\% | 25,000.00 | 32.1\% |
| Total Assets | 100,000.00 | 100.0\% | 78,000.00 | 100.0\% |
|  |  |  |  |  |
| Liabilities and Stockholder's Equity |  |  |  |  |
| Liabilities |  |  |  |  |
| Accounts Payable - AP | 20,000.00 | 20.0\% | 15,000.00 | 19.2\% |
| Accrued Liabilities | 3,000.00 | 3.0\% | 2,000.00 | 2.6\% |
| Short -term borrowings | 1,000.00 | 1.0\% | 2,000.00 | 2.6\% |
| Taxes | 2,000.00 | 2.0\% | 1,000.00 | 1.3\% |
| Current Liabilities | 26,000.00 | 26.0\% | 20,000.00 | 25.6\% |
| Loans | 2,000.00 | 2.0\% | 5,000.00 | 6.4\% |
| Other long terms debt | - | 0.0\% | - | 0.0\% |
| Total Liabilities | 28,000.00 | 28.0\% | 25,000.00 | 32.1\% |
|  |  |  |  |  |
| Stockholder's Equity |  |  |  |  |
| Common Stock | 20,000.00 | 20.0\% | 20,000.00 | 25.6\% |
| Paid In Capital | 5,000.00 | 5.0\% | 5,000.00 | 6.4\% |
| Retained Earnings | 47,000.00 | 47.0\% | 28,000.00 | 35.9\% |
| Total Stockholder's Equity | 72,000.00 | 72.0\% | 53,000.00 | 67.9\% |
|  |  |  |  |  |
| Total Liabilities and Stockholder's Equity | 100,000.00 | 100.0\% | 78,000.00 | 100.0\% |

## Sample Income Statement Vertical Analysis

| Vertical Analysis Income Statements |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| For Periods |  |  |  |  |
| Description | 2021 | 2020 | 2021 | 2020 |
|  | Amount | Amount | Percentage | Percentage |
| INCOME |  |  |  |  |
| Sales from sale of goods and services (Net of discounts) | 250,000.00 | 225,000.00 | 100.00\% | 100.00\% |
| Returns \& Allowances | 7,000.00 | 5,000.00 | 2.80\% | 2.22\% |
| Revenue from sale of goods and services | 243,000.00 | 220,000.00 | 97.20\% | 97.78\% |
| Other Operating Revenue |  |  | 0.00\% | 0.00\% |
| Other Income | 2,500.00 | 2,000.00 | 1.00\% | 0.89\% |
| Total Revenue | 245,500.00 | 222,000.00 | 98.20\% | 98.67\% |
| EXPENSES |  |  | 0.00\% | 0.00\% |
| Cost Of Goods Sold | 65,000.00 | 50,000.00 | 26.00\% | 22.22\% |
| Salaries \& Wages | 85,000.00 | 80,000.00 | 34.00\% | 35.56\% |
| Payroll Taxes | 8,500.00 | 8,000.00 | 3.40\% | 3.56\% |
| Employee Benefits Expense | 6,000.00 | 5,000.00 | 2.40\% | 2.22\% |
| Advertising | 2,000.00 | 3,000.00 | 0.80\% | 1.33\% |
| Professional Fees | 3,000.00 | 4,000.00 | 1.20\% | 1.78\% |
| Maintenance \& Repairs | 4,000.00 | 6,000.00 | 1.60\% | 2.67\% |
| Utilities | 8,700.00 | 8,000.00 | 3.48\% | 3.56\% |
| Rent | 12,000.00 | 12,000.00 | 4.80\% | 5.33\% |
| Vehicle Expenses | 3,500.00 | 4,000.00 | 1.40\% | 1.78\% |
| Entertainment | 1,000.00 | 2,000.00 | 0.40\% | 0.89\% |
| Postage | 600.00 | 500.00 | 0.24\% | 0.22\% |
| Telephone \& internet | 700.00 | 600.00 | 0.28\% | 0.27\% |
| Bank Fees | 300.00 | 200.00 | 0.12\% | 0.09\% |
| Credit Card Fees | 7,000.00 | 5,000.00 | 2.80\% | 2.22\% |
| Office Supplies | 1,500.00 | 1,000.00 | 0.60\% | 0.44\% |
| Computer Supplies | 1,000.00 | 2,000.00 | 0.40\% | 0.89\% |
| Insurance | 5,500.00 | 5,000.00 | 2.20\% | 2.22\% |
| Licenses \& Permits | 700.00 | 800.00 | 0.28\% | 0.36\% |
| Business Taxes | 1,500.00 | 2,000.00 | 0.60\% | 0.89\% |
| Other Expenses | 1,000.00 | 1,500.00 | 0.40\% | 0.67\% |
| Total Operating Expenses | 153,500.00 | 150,600.00 | 61.40\% | 66.93\% |
| Total Expenses | 218,500.00 | 200,600.00 | 87.40\% | 89.16\% |
| EARNINGS BEFORE INTEREST, TAX, DEPRECIATION AND AMORTIZATION | 27,000.00 | 21,400.00 | 10.80\% | 9.51\% |
| Depreciation and Amortisation Expense Interest | 5,000.00 | 5,000.00 | 2.00\% | 2.22\% |
|  |  |  | 0.00\% | 0.00\% |
| $\begin{aligned} & \text { PROFIT BEFORE } \\ & \text { EXCEPTIONAL ITEMS AND } \\ & \text { TAX } \end{aligned}$ | 22,000.00 | 16,400.00 | 8.80\% | 7.29\% |
| Exceptional Items |  |  | 0.00\% | 0.00\% |
| PROFIT BEFORE TAX | 22,000.00 | 16,400.00 | 8.80\% | 7.29\% |
| Less: Tax Expense |  |  |  |  |
| Current Tax | 3,000.00 | 2,400.00 | 1.20\% | 1.07\% |
| Total Tax Expenses | 3,000.00 | 2,400.00 | 1.20\% | 1.07\% |
| PROFIT AFTER TAX | 19,000.00 | 14,000.00 | 7.60\% | 6.22\% |

## Trend Percentages



Show changes over time in given financial statement items
(can help evaluate financial information of several years)

## Ratios

- Financial Ratios are mathematical comparisons of financial statement account balances or categories. Most of these ratios result from dividing one account balance or financial measurement by another. If you recall, back in elementary school arithmetic you studied fractions. That's what ratios are. These relationships between the financial statement accounts serve as indicators and help internal company management, owners, and creditors understand how well a business is performing and what areas need improvement.


## Ratio Analysis



## Expression of logical relationships between items in financial

 statements.
## Ratios

## How do you use them?

As indicators to help internal company management, owners, and creditors understand how well a business is performing and what areas need improvement.

Financial ratios allow you to be able to make the following comparisons:

- Industry Averages
- Competitors
- Your own ratios from current and prior years
- Your planned ratios for the current and future years


## Ratios

## Ratios can be expressed in three different ways:

1. Ratio (Ratio of 2:1)
2. \% (Percentage of 2\%)
3. Decimal Number (Number of 2.0)

## Categories of Ratios

Profitability Ratios - Indicate the ability of a business to generate income (profit) relative to revenue, balance sheet assets, and equity Liquidity Ratios - Indicate a company's shortterm debt-paying ability
Solvency Ratios - Show the relationship between debt and equity financing Activity (Efficiency) Ratios Indicate how efficient a company's operations are performing

## Profitablity Ratios

## Profitablity Ratios

- Return on Total Assets Ratio
- Return on Fixed Assets Ratio
- Return on Equity Ratio
- Gross Margin Percentage Ratio
- Net Profit Margin Ratio



## Return on Total Assets

## Return <br> on $\quad=\quad$ Net Income $\quad$ X 100 <br> Assets

Normally Expressed As A Percentage 10.4\%

Measures the amount of net income generated for each dollar invested in total assets during a period.

## Return on Fixed Assets

Return on
Fixed $=$ Net Income
X 100
Assets
Normally Expressed As A Percentage 24.6 \%

Measures a companies return on their investment in property, plant, and equipment.

## Return on Equity (ROE)

Return


Normally Expressed As A Percentage 15\%
Important measure of the income-producing ability of a company.

## Gross Profit Margin

Net Income
to = Net Sales - Cost Of Goods Sold X 100 Net Sales

Normally Expressed As A Percentage 35.7\%

Measures the proportion of the sales dollar left after deducting cost of goods sold.

## Net Profit Margin Return on Sales

Net Income
$\underset{\text { Net Sales }}{\text { to }}=\frac{\text { Net Income }}{\text { Net Sales }} \times 100$
Normally Expressed As A Percentage 8.3\%

Measures the proportion of the sales dollar which is retained as profit.

## Liquidity Ratios

## Liquidity Ratios

- Cash Ratio
- Quick (acid test) Ratio
- Current Ratio
- Working Capital



## Cash Ratio

## Cash <br> Cash Ratio Current Liabilities

Normally Expressed As A Ratio 2:1

Measures the ability
of the company to pay current debts with cash.

## Acid-Test (Quick) Ratio

## $\underset{\text { Ratio }}{\text { Acid-Test }}=\frac{\text { Quick Assets }}{\text { Current Liabilities }}$

Measures a company's ability to pay off short-term liabilities using liquid assets.

Quick assets are Cash, Marketable Securities, Accounts Receivable (net) and
current Notes Receivable.

## Current Ratio

## Current $=\quad$ Current Assets <br> Ratio $=$ Current Liabilities

Normally Expressed As A Ratio 2.5:1

## Measures the ability of the company to pay current debts as they become due.

## Working Capital*

## Working Capital = Currents Assets - Current Liabilities

The excess of current assets over current liabilities.

Expressed As a Dollar Amount \$52,347

* While this is not actually a ratio, it does give an indication of a company's liquidity.


## Solvency Ratios

## Solvency Ratios

- Debt to Assets Ratio (Debt Ratio)
Debt to Equity Ratio


## Debt To Assets Ratio

$$
\begin{aligned}
& \text { Debt } \\
& \text { Ratio }
\end{aligned}=\frac{\text { Total Liabilities }}{\text { Total Assets }} \times 100
$$

Normally Expressed As A Percentage 45.9 \%

> Measures the proportion of total assets provided by creditors.

## Debt To Equity Ratio

$\underset{\text { Ratio }}{\text { Equity }}=\frac{\text { Total Liabilities }}{\text { Total Equity }} \times 100$
Normally Expressed As A Percentage 29.8 \%

Measures a company's debt position as related to its equity.

## Activity Ratios

## Activity Ratios



## Accounts Receivable Turnover



Normally Expressed As A Decimal Number 11.3

This ratio measures how many times a company converts its receivables into cash each year.

## Number of Days' Sales in Accounts Receivable

Days' Sales
in Accounts = Receivables

Average Accounts Receivable Net Credit Sales

$$
\begin{gathered}
X \\
30,90, \text { or } 365
\end{gathered}
$$

Normally Expressed As A Decimal Number 30.5
Measures, on average, how many days it takes to collect an account receivable.

## Inventory Turnover

## Inventory = Cost of Goods Sold <br> Turnover $=$ Average Inventory

Normally Expressed As A Decimal Number 10.2

## Measures the number of times inventory is sold and replaced during the year.

## Number of Days of Inventory

$$
\begin{array}{r}
\text { Days } \\
\text { Of Inventory } \\
\\
\text { Cost Of Goods Sol } \\
\text { X } \\
30,90 \text {, or } 365
\end{array}
$$

Normally Expressed As A Decimal Number 33.3
Measures the average number of days necessary to sell all inventory for a period.

## Accounts Payable Turnover

Accounts $=$ Net Credit Purchases Payable $=$ Average Accounts Payable Turnover

Normally Expressed As A Decimal Number 41.2

> Measures how quickly a business makes payments to creditors and suppliers that grant them credit payment terms.

## Accounts Payable Payment Days

Accounts Payables = Payment Days Average Accounts Accounts Payable Net Credit Purchases

X
30,90 , or 365
Normally Expressed As A Decimal Number 29.8

Measures, on average, how many days it takes to pay creditors.

## Sample Ratio Analysis Data

| XYZ Financials |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Description | CY |  | PY |  | PY-1 |  |
|  | Amount | Pcta | Amount | Pctg | Amount | Pcta |
|  |  | \% |  | \% |  | \% |
| Income Statement |  |  |  |  |  |  |
| Net Sales (Revenue) | 501,250 |  | 100.0\% | 402,960 | 100.0\% | 378,355 | 100.0\% |
| Cost of Goods Sold | 300,897 | 60.0\% | 220,467 | 54.7\% | 215,662 | 57.0\% |
| Gross Profit | 200,353 | 40.0\% | 182,493 | 45.3\% | 162,693 | 43.0\% |
| Operating Expenses | 114,289 | 22.8\% | 109,877 | 27.3\% | 98,372 | 26.0\% |
| Earnings Before Interest \& Taxes | 86,064 | 17.2\% | 72,616 | 18.0\% | 64,321 | 17.0\% |
| Interest Expense | 11,059 | 2.2\% | 9,234 | 2.3\% | 8,655 | 2.3\% |
| Tax Expense | 11,824 | 2.4\% | 8,987 | 2.2\% | 7,894 | 2.1\% |
| Net Income | 63,181 | 12.6\% | 54,395 | 13.5\% | 47,772 | 12.6\% |
| Balance Sheet |  |  |  |  |  |  |
| Cash | 42,959 | 16.4\% | 28,531 | 14.6\% | 24,285 | 16.9\% |
| Short Term Investments | 4,000 | 1.5\% | 3,000 | 1.5\% | 2,500 | 1.7\% |
| Accounts Receivable | 69,711 | 26.6\% | 44,048 | 22.5\% | 26,528 | 18.5\% |
| Prepaid Expenses | 6,364 | 2.4\% | 3,186 | 1.6\% | 3,486 | 2.4\% |
| Inventory | 73,987 | 28.2\% | 57,899 | 29.6\% | 46,607 | 32.4\% |
| Current Assets | 197,021 | 75.1\% | 136,664 | 69.9\% | 103,406 | 72.0\% |
| Net Fixed Assets | 52,314 | 19.9\% | 43,749 | 22.4\% | 27,955 | 19.5\% |
| Other Assets | 13,114 | 5.0\% | 14,982 | 7.7\% | 12,267 | 8.5\% |
| Total Assets | 262,449 | 100.0\% | 195,395 | 100.0\% | 143,628 | 100.0\% |
| Accounts Payable | 25,075 | 9.6\% | 18,534 | 9.5\% | 16,897 | 11.8\% |
| Other Liabilties | 2,500 | 1.0\% | 1,495 | 0.8\% | 985 | 0.7\% |
| Current Liabilities | 27,575 | 10.5\% | 20,029 | 10.3\% | 17,882 | 12.5\% |
| Long Term Liabilities | 16,443 | 6.3\% | 20,116 | 10.3\% | 24,891 | 17.3\% |
| Total Liabilities | 44,018 | 16.8\% | 40,145 | 20.5\% | 42,773 | 29.8\% |
| Total Equity | 218,431 | 83.2\% | 155,250 | 79.5\% | 100,855 | 70.2\% |
| Total Liabilities \& Equity | 262,449 | 100.0\% | 195,395 | 100.0\% | 143,628 | 100.0\% |
|  |  |  |  |  |  |  |

## SEIn (

| XYZ Company |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| RATIO ANALYSIS |  |  |  |  |  |
| Profitability Ratios | CY | PY | Activity Ratios | CY | PY |
| Return on Total Assets | 27.6\% | 32.1\% | Accounts Receivable Turnover | 8.81 | 11.42 |
| Return on Fixed Assets | 131.5\% | 151.7\% | Accounts Receivable Collection Days | 41.42 | 31.96 |
| Return on Equity | 33.8\% | 42.5\% | Inventory Turnover | 4.56 | 4.22 |
| Gross Margin \% | 40.0\% | 45.3\% | Days of Inventory | 79.99 | 86.51 |
| Return On Sales | 12.6\% | 13.5\% | Accounts Payable Turnover | 13.80 | 12.44 |
| (Net Profit Margin) |  |  | Accounts Payable Payment Days | 26.45 | 29.33 |
| Liquidity Ratios | CY | PY | Solvency Ratios | CY | PY |
| Cash Ratio | 1.56:1 | 1.42:1 | Times Interest Earned | 7.78 | 7.86 |
| Quick Ratio | 4.23:1 | 3.77:1 | Debt To Total Assets | 16.77\% | 20.55\% |
| Current Ratio | 7.14:1 | 6.82:1 | Debt To Equity | 20.15\% | 25.86\% |
| Working Capital | \$169,446 | \$ 96,519 |  |  |  |

## Important Considerations

- Need for comparable data
- Data is provided by Dun \& Bradstreet, Standard \& Poor's etc.
- Must compare by industry

- Influence of external factors
- General business conditions
- Seasonal nature of business operations
- Impact of inflation

