III. RATIO ANALYSIS

Instruction: Calculate the following ratios given the data on pages A110 and A120.

LIQUIDITY RATIOS for 2002 (\$ 000)

Current Ratio $\frac{\text{Current Assets}}{\text{Current Liabilities}} = \frac{186}{56} = 3.3$

Quick Ratio Current Assets - Inventory = 186 - 70 = 2.1
Current Liabilities 56

ACTIVITY RATIOS

Accounts Receivable Net Receivable Sales = $\frac{450}{100}$ = 6 times Turnover Average Net Accounts Receivable $\frac{60 + 90}{2}$

Average Collection Average Net Accounts Receivable = $\begin{bmatrix} 60 + 90 \\ 2 \\ \hline 2 \\ \hline 1.23 \end{bmatrix}$ = 61 days Period Net Receivable Sales 365

Inventory Turnover $\frac{\text{Cost of Goods Sold}}{\text{Average Inventory}} = \frac{270}{70 + 40} = \frac{270}{55} = 4.9 \text{ times}$

Fixed Asset Turnover $\frac{\text{Net Sales}}{\text{Average Fixed Assets}} = \frac{450}{180 + 210} = \frac{450}{195}$ = 2.3 times

PROFITABILITY RATIOS

Return on Sales $\frac{\text{Operating Income}}{\text{Net Sales}} = \frac{80}{450} = .178 = 17.8\%$

Return on Equity/ Common Stock Preferred Dividends Average Common Stock Equity $\frac{0 \text{perating}}{1 \text{ncome}} - \frac{\text{Preferred}}{\text{Dividends}} = \frac{80 - 8.8}{100 + 100} = \frac{71.2}{100} = .712 = .712 = 71.2$

NOTE: Taxable Income used in place of Operating Income.

LEVERAGE RATIOS

Debt/Equity Ratio Total Liabilities = 136 = .47 = 47% Stockholders' Equity

Debt/Asset Ratio $\frac{\text{Total Liabilities}}{\text{Assets}} = \frac{136}{426} = .32 = 32\%$