Use of Pro Formas

- Financial Analysis
- Forecasting
- Assessing Risk
- Assessing Performance

The Cases

- Clarkson Lumber
 - mechancs of calculating "Long Term" pro formas
 - effect of growth on financing need
 - financial analysis and pro formas
- Toy World
 - Pro Formas and seasonal borrowing need
 - evaluating riskiness of loans
 - trading off financing costs and efficiency gains

Cases

- SureCut
 - Evaluating Performance relative to plan
 - Assessing Riskiness
 - Guidance for future plan

Financial Analysis

- Evaluate historical profit margins
 - compare with comparable companies
 - Look for added efficiencies
- Evaluate historical uses of Funds
 - A/R and Inv management
 - compare with comparables
 - Take account of strategy

Financial Analysis

- Evaluate automatic sources of funds
 - discounts?
 - relationships with suppliers, etc..
 - can they be increased
- Determine appropriate relation between income statement items and sales
- Determine appropriate relation between balance sheet items and sales

• Income Statement Sales S COGS cogs*S = $(1-\cos)*S = gm*S$ Gross OE oe*S OI $(1-\cos s-\cos)*S = om*S$ INT int on avg balance or 0 =OI - INT EBT

taxes=t*EBTNI=EBT - taxesRE=NI - dividend

- Balance Sheet
- Cash = rc*S
- A/R = DOAR*S/365
- INV = COGS/ITO = cogs*S/ITO
- OCA = oca*S
- PPE = S/PPETO
- OLTA = S/OLTATO
- TA = S/TATO

- A/P = DAP*Purch/365 = DAP*p*S/365
- A/T = at*S

- A/E = ae*S
- NW = NW(0) + RE
- Req Funds = TA NW CL

- If "Req. Funds" is negative--excess cash
- If "Req. Funds" is positive--debt or other financing
- "'

"Req. Funds" Interpretation

- Req. Funds" is total external financing needed
 - if positive and increases, the increase is the new borrowing required
 - if positive and decreases, principle can be paid off (amount of decrease)
 - if negative and increases (moves toward zero)
 represents reduction in excess cash
 - if negative and decreases, more excess cash

Growth and Financing

A simpler Form of the balance sheet
NWC = Sales/NWCTO
Fixed = Sales/FATO
Total net Assets = Sales/TNATO
NW = NW(0) + RE
Debt = TNA - NW

Growth

- Suppose no dividends or new equity
- Net Asset side grows at the rate of sales growth--g
- Net Worth grows at the rate of ROE'
 - ROE' = NI(1)/NW(0)--I.e.. this years net income over beginning of year net worth
 ROE' = ROE/(1-ROE)

Leverage

• LR = Debt/NW = [TNA - NW]/NW [1+LR(2)]/[1+LR(1)] = [TNA(2)/NW(2)]/[TNA(1)/NW(1)] = [TNA(2)/TNA(1)]* [NW(1)/NW(2)]= (1+g)/(1+ROE')

Growth and ROE

- If g > ROE', then debt grows faster than NW--leverage increases
- If g < ROE' then NW grows faster than debt--leverage decreases
- If g > ROE' increase leverage, or may eventually need new equity issue
- If g < ROE' can reduce leverage or distribute cash to shareholders--dividend, repurchase

Asset Risk

- Pro Formas show where funds are tied up
- Leads to analysis of riskiness of the debt and risk of bankruptcy
 - industry and product analysis
 - competitive environment
 - susceptibility to cyclical variations

Pro Formas and Planning

- Pro Forma indicates future financing problems
 - leverage ratios
 - internal v. external funds needs
 - required access to capital markets

Pro Formas and Performance

- Compare actual with previous pro formas
 - Where are unanticipated cash-use build ups?
 - Lags in profitability?
 - Unanticipated Growth?
 - Unanticipated slumps?