A Summary of Key Financial Ratios, How They Are Calculated, and What They Show


| Ratio | How Calculated | What It Shows |
| :---: | :---: | :---: |
| Leverage Ratios (cont.) |  |  |
| 3. Long-term debt-to equity ratio | $\frac{\text { Long-term debt }}{\text { Total shareholders' equity }}$ | A widely used measure of the balance betwee debl and equity in the firm's long-term capit structure. |
| 4. Times-interest-earned (or coverage) ratio | $\frac{\text { Profits before interest and taxes }}{\text { Total interest charges }}$ | Measures the extent to which earnings can decline without the firm becoming unable to meet ils annual interest cosls. |
| 5. Fixed-charge coverage | $\begin{gathered} \text { Profits belore taxes and interest } \\ + \text { Lease obligations } \end{gathered}$ | A more inclusive indication of the firm's ability meet all of its fixed-charge obligations. |
| Activity Ratios |  |  |
| 1. Inventory lurnover | $\frac{\text { Sales }}{\text { Inventory of finished goods }}$ | When compared to industry averages, it provid an indication of whether a company has excessive or perhaps inadequate finished goods inventory. |
| 2. Fixed assets turnover | $\frac{\text { Sales }}{\text { Fixed Assets }}$ | A measure of the sales productivity and utilization ol plant and equipment. |
| 3. Total assets furnover | $\frac{\text { Sales }}{\text { Total Assels }}$ | A measure of the utilization of all the firm's assets; a ratio below the industry average indicates the company is nol generating a sutlicient volume of business, given the size its asset investment. |
| 4. Accounts receivable turnover | Annual credil sales Accounts receivable | A measure of the average length of time it lakes the lirm to collect the sales made on credit. |
| 5. Average collection period | Accounts receivable <br> Total sales +365 <br> or <br> Accounts receivable <br> Average daily sales | Indicates the average length of time the firm must wail after making a sale before it receives payment. |
| Other Ratios |  |  |
| 1. Dividend yield on common stock | $\frac{\text { Annual dividends per share }}{\text { Current market price per share }}$ | A measure of the return to owners received in th form of dividends. |
| 2. Price-earnings ratio | $\frac{\text { Current market price per share }}{\text { Alter tax earnings per share }}$ | Faster-growing or less-risky lirms tend to have higher price-earnings ratios than slowergrowing or more-risky firms. |
| 3. Dividend payout ratio | Annual dividends per share Āter tax earnings per share | Indicates the percentage of prolits paid out as dividends. |
| 4. Cash flow per share | $\begin{gathered} \frac{\text { After tax profils }+ \text { Depreciation }}{\text { Number of common shares }} \\ \text { outstanding } \end{gathered}$ | A measure of the discretionary funds over and above expenses that are available for use by the firm. |

## OPERATING CAPITAL

I. TOTAL TRADING CYCLE - ESTIMATED NUMBER OF DAYS FROM DATE OF PURCIASF: OF MATERIALS TO BE: SOLD TO THE DATE OF THE COLIJ:CTION FOR SAIFS MADE.

TTC = CASH + RI:CEIVABLE S + INVENTORYIIAVERAGE SALES PER DAY
2. NET CASII CYCLIE - NUMBER OF DAYS TIIAT CASH IS TIED UP IN CONDUC"TIN(; BUSINIESS

NCC $=$ TRC $\cdot$ PAYABLI:S/ASPD
DEGREE OF OPERATING CASH LEVERAGE
TIIE DOLLAR AMOUNT OF ADDITIONAL SALIES REQUIRED TO PUT A DOILDAR OF CASII "IN TIIE BANK."
$D O C L=S /[[S-V \cdot(C E+\Lambda / R+[\cdot A / P)][1 \cdot T]$
WIIERE:
$S=$ TOTAL SALES
$V=$ VARIABLE COSTS
CI: = CASII \& H:QUIVALENTS
AR $=$ ACCOUNTS RECEIVABLE
$I=I N V E O T O R Y$
AlP = ACCOUNTS PAYAHLE:
$T=$ INCOMA: TAX RATE
STRATEGIC PROFIT MODEL (AKA TIE, DU PONT CHART)
RATE: OF RF:TURN ON NET WORTII =
NE:T PROFIT MARGIN = NET PROFIT IBEORIE TAXINETT SALES X
RATE: OF ASSE:T TURNOVER = NET SALESIITOTAL ASSE:TS $X$
LIEVERAGE: RATIO = TOTAL ASSETS/INB:T WORTII
RORNW = NPM X RATO X LR = NPM/NNET WORTII
WDEX OF SUSTAINABLE GROWHU (G*)
IF THE PLANNED GROWTII RATE OF SALES EXCBEDS (;*, THEN BXTERNAL CAPITAE, MUST BE: SOUGIIT TO FUND TIIE DESIRED GROW'II RATI:.

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\(G^{*}=[P(1-D)(1+L) / T T-P(1-D)(1+L)]\)

WIIERE:

P = (NET PROFIT BEFORE: TAXINET SALES) X 100

L = TOTAL LIABHIITIES//NE:T WORTH

D = TARGETR DIVIDENDS/IPROITV AFTER TAX


\section*{BANKRUPTCY PREDICTIOY}
(AKA SLTMAN'S \% SCORGI
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% =1.2X1 + 1.4X2 +.0X4 + 1.0X5 + 3.3X3

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WHERE:
X1 = (CURRIFNT ASSI:TS • CURRENT LIABILITIES)/TTOTAL. ASSETS
\(\boldsymbol{N} 2=\) RETAINEI E:ARNING//TA
Xł = MARKET VALUE OFEQUITYITTOTAL LIABILITY
NS = NB:T SALJ:N/TSA
\(\mathbb{N B}=\) EARNIN(BS BEFORE TAXES +INTI:RESTIITA
STRATECIC FUNDS PRORIRMMMINTi
WCERNSLSOURCBS =
PROMIT AFTER TAXES - DIVIDENDS + RETAINH:D EEARNINGS + DEPRECIATION + OTIIERNON.C゙ASH J:XPFNSES = CASH FLOW FROM OPERATIONS
AC(i, MENTED) DE:
RETANEED EARNINGS X CLRRENT TOTAL DEBT-TO EQUITY RATIO =
FLiNIS FROM WITIIN CURRENT STRUCTLRE
ERPSNDED DEBT CABACITY =
N:WLY NECOTIATED LONC.TERM DEBT/EQUITY RATIO - CLRRIENT LONG-TIERM 1)I:HTH:QLITY RATIO = (UNUSEI) DEBT FACTOR) X SIAARFIIOLDERS E(QUITY = EXPANII:I) DF:IT CAPACITY
TOTAL FLNDS AVALLABLER(MAXIMUM) = CASH FLOW FROM OPERATIONS + FUNDSFROM WITIIIN CURRE:NT STRUCTURE + EXPANDED DEBT CAPACITY```

