
Financial Ratios As The Predictor Of Corporate Distress In

Usage of Financial Ratios for Prediction of Failure
Financial Ratios, Discriminant Analysis and the Prediction of Corporate Financial Distress in Hong Kong
Financial Ratios and the Prediction of Corporate Bankruptcy in Retail Companies
The Prediction of Corporate Earnings Per Share and of Corporate Failure
Financial Ratios and the Prediction of Corporate Failure
The Usefulness of Financial Ratios and the Prediction of Corporate Failure
The Prediction of Corporate 'success' and Failure
Financial Ratios as a Predictor of Financial Distress
An Empirical Study
Indian Industries
Financial Ratios, Multiple Discriminant Analysis and the Prediction of Small Corporate Failure
Financial Ratios as Predictors of Borrowers' Health
A Discriminant Analysis
A Commentary
Prediction of Greek Company Takeovers Via Multivariate Analysis of Financial Ratios
Predicting Stock Returns
Curbing Corporate Debt Bias
A Note on 'Predicting Returns with Financial Ratios'
Financial Crisis Prediction Capability of Financial Ratios
Financial Ratios
The Prediction of Stock Returns Using Financial Ratios and Feature Dimensionality Reduction
Financial Ratios
Prediction of Bankruptcy Using Financial Ratios, Information Measures, National Economic Data and Texas Economic Data
Predictive Capability of Financial Ratios for Forecasting of Corporate Bankruptcy
Financial Ratios for Business Failure Prediction
Corporate Bankruptcy Prediction
Financial Ratios, Discriminant Analysis and the Prediction of Corporate Financial Distress in Hong Kong
Financial Statement Analysis and the Prediction of Financial Distress
Two Perspectives
Financial Ratios, Multiple Discriminant Analysis and the Prediction of Small Corporate Failure
The Prediction of Corporate Bankruptcy
Prediction of Stock Performance with Machine Learning Techniques
Predicting Success Or Failure
Have Financial Statements Become Less Informative? Evidence from the Ability of Financial Ratios to Predict Bankruptcy
With Reference to Small-scale Industries in India
Analysis and Prediction
Financial Ratios
Financial Ratio Analysis and Prediction of Default by Small Firms

JEFFERSON JENNINGS

Springer Science & Business Media

The purpose of this study was to examine the usefulness of financial ratios as predictors of household insolvency. Financial ratios were developed for 1,934 households using data from the Survey of Consumer Finances. Two statistical methods--logistic regression and a classification tree procedure (CART)--were used for analysis. The 1983 Liquidity ratio was the most important predictor of 1986 insolvency according to the logistic regression while the 1983 Assets/Liabilities ratio was the most important variable in the classification tree. The Gross Annual Debt Payments to Disposable Income ratio was second in importance for each of the two methods. Implications for financial educators, counselors, and planners are offered.

Usage of Financial Ratios for Prediction of Failure Financial Ratios and the Prediction of Corporate Failure

Bankruptcy prediction is one of the most important research areas in corporate finance.

Bankruptcies are an indispensable element of the functioning of the market economy, and at the same time generate significant losses for stakeholders. Hence, this book was established to collect the results of research on the latest trends in predicting the bankruptcy of enterprises. It suggests models developed for different countries using both traditional and more advanced methods. Problems connected with predicting bankruptcy during periods of prosperity and recession, the selection of appropriate explanatory variables, as well as the dynamization of models are presented. The reliability of financial data and the validity of the audit are also referenced. Thus, I hope that this book will inspire you to undertake new research in the field of forecasting the risk of bankruptcy. *Financial Ratios, Discriminant Analysis and the Prediction of Corporate Financial Distress in Hong Kong* Springer

Bankruptcy of a business ...

Financial Ratios and the Prediction of Corporate Bankruptcy in Retail Companies MDPI

Tax provisions favoring corporate debt over equity finance ("debt bias") are widely recognized as a risk to financial stability. This paper explores whether and how thin-capitalization rules, which restrict interest deductibility beyond a certain amount, affect corporate debt ratios and mitigate financial stability risk. We find that rules targeted at related party borrowing (the majority of today's rules) have no significant impact on debt bias—which relates to third-party borrowing. Also, these rules have no effect on broader indicators of firm financial distress. Rules applying to all debt, in contrast, turn out to be effective: the presence of such a rule reduces the debt-asset ratio in an average company by 5 percentage points; and they reduce the probability for a firm to be in financial distress by 5 percent. Debt ratios are found to be more responsive to thin capitalization rules in industries characterized by a high share of tangible assets.

The Prediction of Corporate Earnings Per Share and of Corporate Failure Taylor & Francis
Financial Statement Analysis and the Prediction of Financial Distress discusses the evolution of three

main streams within the financial distress prediction literature: the set of dependent and explanatory variables used, the statistical methods of estimation, and the modeling of financial distress. Section 1 discusses concepts of financial distress. Section 2 discusses theories regarding the use of financial ratios as predictors of financial distress. Section 3 contains a brief review of the literature. Section 4 discusses the use of market price-based models of financial distress. Section 5 develops the statistical methods for empirical estimation of the probability of financial distress. Section 6 discusses the major empirical findings with respect to prediction of financial distress. Section 7 briefly summarizes some of the more relevant literature with respect to bond ratings. Section 8 presents some suggestions for future research and Section 9 presents concluding remarks. *Financial Ratios and the Prediction of Corporate Failure* Now Publishers Inc

Using a hazard model, we examine secular changes in the ability of financial statement data to predict bankruptcy over a forty-year period. We identify three trends in financial reporting that could influence predictive ability with respect to bankruptcy: the increase in FASB standards, many of which have a fair value emphasis, the perceived increase in discretionary financial reporting behavior, and the increase in the magnitude of unrecognized intangible assets and other unrecognized assets and obligations. A parsimonious three variable model provides significant explanatory power throughout the time period. In dividing the entire time period into two sub-periods, we find a slight deterioration in predictive power in the second time period. We also examine a predictive model using explanatory variables based on market values. We argue that if the market-based variables fully capture the information in prices about bankruptcy probability, this model is expected to dominate the financial statement based model and the difference can be interpreted as the incremental role of non financial statement information in bankruptcy prediction. We find that a combined model that uses both types of variables outperforms a financial statement only model but does not completely subsume these variables. In particular, the leverage variable remains significant even in the combined model. The evidence indicates there is an increase in the incremental predictive power of non-financial statement information in the second sub-period, where the financial statement data show a slight deterioration. The predictive power of the combined model is essentially the same in both time periods. This is consistent with the non-financial statement data compensating for a loss in the predictive power of the financial ratios. However, these differences are small and the striking feature of the results is the robustness of the predictive models over a long period of time.

The Usefulness of Financial Ratios and the Prediction of Corporate Failure New Delhi : Sultan, [pref. 1980]

This paper will review the existing bankruptcy prediction models which utilize financial ratios. The most notable models by William H. Beaver and Edward I. Altman will be examined closely. These mathematical models were developed from financial data of manufacturing and construction firms. A method of analysis will be developed for distinguishing the significant differences in financial reporting between the two industries. Using this information an effort will be made to modifying the models that can be applicable to the construction industry. Keywords: Analysis of variance,

Computations. (kr).

The Prediction of Corporate 'success' and Failure Concept Publishing Company

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Statement Analysis and the Prediction of Financial Distress Now Publishers Inc

Financial Ratios as a Predictor of Financial Distress International Monetary Fund

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An Empirical Study

This study investigates the multi-period prediction of firm bankruptcy as a multi-alternative problem of Statistical Decision Theory. This approach enables a simultaneous assessment to be made of the prediction of bankruptcy and the time horizon at which the bankruptcy could occur. To illustrate the approach, using U.S. bankruptcy data, a comparative statistical analysis of various financial variables is undertaken to identify four relatively independent financial ratios that have the potential for multi-period bankruptcy forecasting. These ratios characterize the quantity and quality of debt, as well as the firm's ability to repay the debt. The study also investigates a new type of predictive information - the maturity schedule of a firm's long-term debt. Bayesian-type forecasting rules are developed that jointly use the financial ratios and maturity schedule factors. The rules noticeably enhance bankruptcy prediction compared with the familiar one-period (two-alternative) Z-score rules of Altman (1968) for bankruptcy within the first one, two or three years. Predictive factors derived from schedule information additionally enhance bankruptcy prediction at distant time horizons.

Indian Industries

Bankruptcy of a business firm is an event which results substantial losses to creditors and stockholders. A model which is capable of predicting an upcoming business failure will serve as a very useful tool to reduce such losses by providing warning to the interested parties. This was the main motivation for Beaver (1966) and Altman (1968) to construct bankruptcy prediction models based on the financial data (Deakin 1972). This research study also initiated with a great interest on this subject to investigate the predictive capability of financial ratios for forecasting of corporate distress and bankruptcy events. This study is expounded on similar previous studies by Altman (1968), Ohlson (1980), Beaver (1966) by examining the effectiveness of financial ratios for predicting of corporate distress. The logistics regression analysis (LRA) statistical method is used to scan the risk factors from the previous financial year data and prediction models are constructed which can reasonably classify the expected bankruptcy group and can reasonably predict the solvency status of a firm. The research has been focused on the USA companies only. A set of bankrupted and non-bankrupted company financial data are used for constructing the bankruptcy prediction model and then a second set of bankrupted and non-bankrupted company financial data

has been used to test the classification accuracy of the constructed models. The result of this study is consistent with the previous bankruptcy prediction researches outcomes. This study also investigates the time factor implication of bankruptcy prediction models using 5 years financial ratios.

Financial Ratios, Multiple Discriminant Analysis and the Prediction of Small Corporate Failure

This book provides a comprehensive analysis of asset price movement. It examines different aspects of stock return predictability, the interaction between stock return and dividend growth predictability, the relationship between stocks and bonds, and the resulting implications for asset price movement. By contributing to our understanding of the factors that cause price movement, this book will be of benefit to researchers, practitioners and policy makers alike.

Financial Ratios as Predictors of Borrowers' Health

This note reinterprets methods that seek to use the aggregate dividend price ratio to predict aggregate stock market returns; specifically, methods which use information about time-varying changes in the dividend-price ratio process to improve the prediction equation. It argues that the empirical evidence is still too weak to suggest practical usefulness of these estimators.

A Discriminant Analysis

Selecting high-performing stocks among a vast number of available securities is still one of the investor's prime concerns. While the number of different approaches to find these thriving stocks is enormous, many methods are based on fundamental financial indicators predicting future firm performance. With the continuing advances in computational sciences, machine learning methods are used to analyse the fundamental financial ratios for stock performance prediction. Given the large number of financial performance measures, it is evident that not all of them are equally useful to predict stock performances. Large differences in business models between different industries have the effect that financial ratios cannot be used to the same extent for performance predictions in every industry. Research in the field of performance prediction with machine learning methods on financial indicators currently focuses solely on entire markets, neglecting the different fundamental ratio characteristics between the industry sectors. Current research focuses only on prediction performance and therefore neglects the interpretation of the significance of the underlying financial indicators. This study therefore aims to employ a machine learning method for stock performance prediction not only on the overall market, but specifically for every major industrial sector. Additionally, the importance of the financial ratios used for the analysis is discussed with respect to concepts of classical financial analysis. This research shows the possibility to beat the stock market performance for specific years under analysis, applying a machine learning method that includes fundamental financial ratios. The industry breakdown shows that there are large differences in prediction ability between the different industries ranging from a rather predictable materials sector to an unpredictable information technology sector. Focusing on the importance of the financ.

A Commentary

1. 0 INTRODUCTION. In this chapter we define first in Section I. I the concept of failure used in this study. Thereafter, we discuss briefly the causes and possible consequences of failure. Finally, we explain in Section 1. 2 the aim of this study. 1. 1 THE CONCEPT OF FAILURE. In this monograph we

investigate the predictability of corporate failure. By 'failure' we understand the inability of a firm to pay its obligations when these fall due (i. e. technical cash insolvency). (Walter 1957 and Donaldson 1962 and 1969). Failure mostly appears in a critical situation as a consequence of a sharp decline in sales. Such a decline can be caused by a recession, the loss of an important customer, shortage of a raw material, deficiencies of management, etc. The ability to predict corporate failure is important for all parties involved in the corporation, in particular for management and investors. An early warning signal of probable failure will enable them to take preventive measures: changes in operating policy or reorganization of financial structure, but also voluntary liquidation will usually shorten the period over which losses are incurred. The possibility to predict failure is important also

from a social point of view, because such an event is an indication of misallocation of resources; prediction provides opportunities to take corrective measures. (See also Lev 1974, p. 134). 1. 2 AIM AND OUTLINE OF THE STUDY.

Prediction of Greek Company Takeovers Via Multivariate Analysis of Financial Ratios

[Predicting Stock Returns](#)

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A Note on 'Predicting Returns with Financial Ratios'

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