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### Financial Analysts Journal >

Volume 43, 1987 - <u>Issue 2</u>

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# Accounting Methods and P/E Ratios

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Pages 41-45 | Published online: 31 Dec 2018

**66** Cite this article

https://doi.org/10.2469/faj.v43.n2.41

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by Darryl Craig, Glenn Johnson and Maurice Joy

## **Accounting Methods and P/E Ratios**

If investors distinguish between companies' accounting methods in capitalizing earnings, then one would expect more conservative (i.e., income-decreasing) methods to be associated with higher price-earnings ratios. Using a sample of 117 firms over the 1970-75 period, the authors examined the relation between a company's P/E ratio and its method of accounting for inventory (LIFO versus FIFO), depreciation (accelerated or straight-line) and investment tax credit (deferred or flow-through); financial variables controlled for dividends, growth, beta and firm size.

The results indicate that dividend payout and firm size were the most important financial variables. Of the accounting variables, inventory method and investment tax credit method were significantly related to P/E ratio; companies that chose LIFO inventory and deferred investment tax credit had higher price-earnings ratios than companies that chose FIFO and flow-through tax credit. Depreciation method did not appear to be related to P/E.

RICE-EARNINGS (P/E) RATIOS play a prominent role in investment analysis, and much attention has been given to exploring their determinants. This article investigates the relation between the accounting method a firm uses for reporting purposes and the firm's P/E ratio. In particular, we want to find out if a significant portion of the variability of P/E ratios is associated with differences in accounting methods.

The answer is important for several reasons. First, many researchers believe P/E ratios are useful in selecting over and under-valued securi-ties. If P/E ratios are useful in stock selection, and if accounting methods are associated with P/E ratios, then P/E selection strategies presum-ably could be enhanced by knowledge of the accounting methods used. Second, if accounting methods are related to P/E ratios, then stock valuations based on P/E ratios should make allowances for differences in accounting

Because earnings per share feed directly into

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be related to P/E ratios.

In two early studies, O'Connell looked at the P/E ratios of electric utilities that normalized the tax benefits of accelerated depreciation and of electric utilities that flowed through the accelerated depreciation tax advantage.<sup>2</sup> Both studies, which together covered the period 1949 to 1966, found that normalizing companies had larger P/E ratios than flow-through companies, but neither study controlled for the effects of risk and growth.

the P/E ratio, it seems plausible that accounting

methods should be related to P/E ratios. That is investors would capitalize earnings in a way

that fully reflects accounting differences be-

tween firms. If this is the case, then P/E ratios

and accounting methods will be related, with

more conservative (i.e., income-decreasing) ac-

counting methods associated with higher P/E ratios. If the market does not distinguish be-

tween accounting methods, then they will not

Beaver and Dukes compared the P/E ratios of firms using accelerated depreciation with those of firms using straight-line depreciation for reporting.<sup>3</sup> Using a sample of 123 firms over the 1950–67 period, they found that average P/E ratios were larger for the accelerated deprecia-

1. Footnotes appear at end of article.

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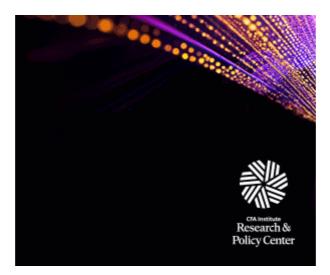


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