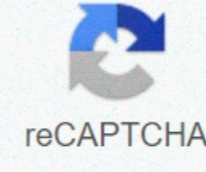




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## Estimated useful lives of depreciabl

Accounting estimates remain a hot topic in the industry - for regulators, auditors, corporations and investors alike. Investors are as concerned with current, relevant information as usual, but today's corporations are not quite like staid manufacturers of a few generations: many of the largest corporations in this knowledge economy continue to grow beyond solid assets and solid metrics. Consequently, auditors are forced to base their opinions on prognostications which are as uncertain as material. And regulators are left to write rules governing these complex accounting situations. The task may be big, but perhaps the result will be worth the effort. To give a sense of the role of accounting estimates in financial statements, we analyzed our changes to the accounting estimates database. The database includes disclosures made in accordance with ASC 250-10-50-4, which requires companies to disclose the nature and impact of any change in estimates that have a material impact on the company's financial statements. We have written about these changes before, including items such as rupture, percentage-completion revenue recognition, and more. At the very least, these are things that are affecting comparativeness, which any stakeholder should be aware of. At the very least, they can be potentially serious income management cases. In order to narrow the population of these changes, we decided to focus on a relatively simple area of accounting: depreciation and amortization. Most depreciation methods include estimating the useful life of the asset. For example, take a piece of machinery in a factory. The asset costs \$500K, and the company estimates that the machine will operate for 10 years, with no salvage price. Assuming the machine was put into service on the first day of the financial year, then using the direct line method, the company will recognize \$50K in depreciation expenses on this asset every year for the next 10 years. Now, at the beginning of the second year, suppose the company determines that, due to advances in machine maintenance, the piece of equipment will now last for another 25 years. The book value of the asset is \$450K after one year of depreciation at the old rate. With that change in the asset's projected useful life, the company will now recognize \$18K in depreciation spending on this asset each year for the next 25 years. Although the total depreciation expenses during the asset's life are the same (\$500K), the impact for the period in which the change was made was a relative decrease in depreciation expenses of \$32K. That is to say, with much less tangible changes to the company's business, operating income is set to get a good bump in the year of change compared to the year before. Since the fourth quarter of 2007, there is 558 changes in accounting estimates related to the estimated useful life of devalued assets made by 540 unique companies. The impact of these estimated changes ranges from thousands of dollars to hundreds of millions – even in billions. Perhaps the most striking fact about these changes – based on someone's level of cynicism – is the strong possibility that the changes will have a positive impact on a given company's financial statements. In five of the last seven years, the number of such estimates that have had a positive impact on income has exceeded the number that had a negative impact. And for the past five years, the average positive impact has been greater than the average negative impact. This may be due to the pessimistic outlook concerning the fragile economy at the time. Since then, as can be seen from the chart, the average impact of devaluation and changes in estimates relating to the useful life of intangible assets has been noticeably positively skewed. In the follow-up to this post, we will look at some examples, and examine the extent to which these changes have had a material impact on earnings, especially relative to earnings forecasts. Not to be confused with depreciation. For the concept in economics involving fixed capital goods, see Depreciation (Economics). For the concept in forex markets, see Depreciation (currency). The reduction in asset values, or the allocation of the cost of an asset depreciation at 15% per year in the accountant over 20 years, depreciation refers to two aspects of the same concept: first, the actual reduction of the fair value of an asset, such as the reduction in the value of factory equipment every year as it is used and wears. , and secondly, the allocation in the accounting statement of the original cost of the property for the period in which the property is used (devalued with the matching principle). [1] Depreciation is thus the method used to reduce the value of assets and re-establish the cost of a tangible asset (such as a tool) in its useful life span. Businesses devalue long-term assets for both accounting and tax purposes. The decrease in the value of the asset affects the balance sheet of a business or entity, and the method of asset depreciation, accounting terms, affects net income, and thus the income details that they report. Generally, the cost is allocated as depreciation expenses between the periods in which the asset is expected to be used. Depreciation methods of computing, and periods on which assets are devalued, may vary between asset types within the same business and vary for tax purposes. These can be specified by law or accounting standards, which may vary by country. There are many standards To calculate depreciation expenditure with fixed percentage, straight line and decreasing equilibrium methods. Depreciation expenses typically begin when the asset is placed in service. For example, depreciation expenses of 100 per year for five years can be recognized for an asset costing 500. Depreciation is defined as a decrease in the value of the utility or an asset and is a non-cash expense. This results in no cash outflow: This means that the asset isn't worth as much as it used to be. There are natural breakages [citations needed] due to depreciation. Accounting concept in determining net income (profit) from an activity, receipts from activity should be reduced at reasonable cost. One such cost is used but not immediately consumed in activity. [2] Such cost allocated over a certain period of time is equal to the reduction in the value placed on the asset, which is equal to the amount initially paid for the asset and may or may not be related to the amount it receives at its disposal. Depreciation is a way to allocate such net costs for periods in which the organization is expected to benefit from the use of the asset. Depreciation is a process of cutting the cost of an asset over your useful life. [3] Assets are sorted into different classes and each has its own useful life. The asset is referred to as a devalued asset. Depreciation is technically a method of allocation, not evaluated,[4] even if it determines the value placed on the asset in the balance sheet. Any business or income-generating activity using tangible assets[5] may incur costs related to those assets. If an asset is expected to generate profits over future periods, some of these costs should be deferred rather than treated as current expenditure. The business then records depreciation expenses in its financial reporting, such as allocating the current period of costs. This is usually done in a rational and systematic manner. Generally, it includes four criteria: the cost of the asset the expected salvage value, also known as the residual value of the asset, a method of dividing the cost on such life to the residual useful life of the asset[6] the depreciation base cost is generally the amount paid for the property, including all costs related to acquiring and utilizing the property. [7] In some countries or for certain purposes, the salvage value may be ignored. The rules of some countries specify the life and methods used for particular types of assets. However, life in most countries is based on professional experience, and the method can be chosen from one of many acceptable methods. Loss accounting rules also require that a impairment fee or expense be identified if the value of the property declines unexpectedly. Such charges are usually non-performing, and can be related to any type of property. Many many Consider the write-offs of some of their long-stay assets as some property, plant and equipment have suffered partial obsolete. Accountants reduce the carrying amount of the asset by their reasonable value. For example, if a company continues to suffer because the prices of a particular product or service exceed operating costs, companies consider write-offs of a particular asset. These write-offs are known as detriment. There are such incidents and changes in circumstances can lead to loss. There are some examples: a change in large amounts of reduction in the fair value of an asset in a way in which the accumulation of asset costs is carried out that basically a projection of losses associated with the acquisition or construction of an asset in particular asset events or circumstances changes indicate that the company may not be able to recover the carrying amount of the asset. In which case, companies use recovery tests to determine whether the loss has occurred or not. The steps to determine are: 1. Estimate the future cash flow of the asset (from asset use to temperament). If the sum of expected cash flow is less than the carrying amount of the asset, the asset is considered impaired erosion and the lack of amortization and amortization are similar concepts for natural resources (including oil) and intangible assets, respectively. The current outlay of cash is not required for impact on cash depreciation expenditure. However, since depreciation is a expense for the P&L account, provided the enterprise is working in such a way that its expenses are covered (e.g. operating on profit) depreciation is the source of cash in a statement of cash flow, which generally offsets the cash cost of acquiring new assets required to continue operating when existing assets reach the end of their useful life. Accumulated depreciation While depreciation expenses are entered on a business's income statement, its impact is generally recorded in a separate account and, according to most accounting principles, is disclosed on the accumulated balance sheet under fixed assets. Accumulated depreciation is known as contra account, as it separately shows a negative amount that is directly linked to the accumulated depreciation account on the balance sheet. Depreciation expenses are usually charged directly against the relevant property. The values of fixed assets mentioned on the balance sheet will decline, even if the business has not invested or disposed of any assets. Theoretically, the amount would be roughly the estimated reasonable price. Otherwise, depreciation expenses are charged against accumulated depreciation. Showing separate accumulated depreciation on the balance sheet has the effect of preserving the historical cost of assets on the balance sheet. If there has been no investment or disposition in fixed assets for the year, The value of assets will be the same on the balance sheet for the current and prior years (P/Y). Methods for depreciation there are several methods for calculating depreciation, usually based on either the passage of time or the level of activity (or use) of the asset. Straight line depreciation is the simplest and most frequently used method of straight line depreciation. In this method, the company estimates the residual value of the asset (also called salvage value or scrap value) at the end of the period during which it will be used to generate revenue (useful life). (The salvage price may be zero, or it may also be negative due to the cost required to retire; however, the salvage price for depreciation purposes is generally not calculated below zero.) The company will then charge the same amount for depreciation each year over that period, until the value shown for the asset is reduced to the salvage price from the original cost. Straight-line method: Annual depreciation expenses = fixed asset costs – Residual value Useful Life Asset (YES) 



{\displaystyle {\mbox{Annual Depreciation Expense}}}

={mbox{Fixed Asset Cost}}-mbox{residual value}} Is a vehicle that is purchased at a cost of \$17,000, and will have a salvage value of \$2000. This vehicle will then depreciate at \$3,000 per year, i.e. (17-2)/5=3. This table shows the straight-line method of depreciation. The book value at the beginning of the first year of depreciation is the original cost of the asset. At any time the book price is equal to the original cost zero accumulated depreciation. Book value = Original cost – Accumulated depreciation at the end of the year The book value becomes the book value at the beginning of next year. The asset is devalued until the book value is equal to the scrap price. Year-end book value (original cost) \$17,000 \$3,000 \$3,000 14,000 3,000 6, 000 11,000 3,000 9,000 8. If the vehicle were to be sold and the sale price exceeds the depreciation value (net book value) then the additional profit will be considered and the depreciation is subject to recapture. Furthermore, this profit above the depreciation value will be identified as ordinary income by the Tax Office. If the sale price is ever lower than the book price, the resulting capital loss is tax-deductible. If the sale price were ever higher than the original book price, the profit above the original book price is identified as a capital gain. If a company chooses to devalue an asset at a different rate used by the Tax Office it generates a time difference in income statement due to the difference between the taxation department and the company's profit outflow (at one point in time). low equilibrium method Rate depreciation expenses accumulated depreciation book value original cost at the end of the year \$1,000.00 40% 400.00 400.00 600.00 40% 240.00 640.00 360.00 40% 144.00 78 4.00 216.00 40% 86.40 870.40 129.60 129.60 - 100.00 29.60 900.00 Scrap Price 100.00 When using double fall balance method, salvage annual depreciation value, the fixation is not considered but the book value of the asset being devalued is never brought down by its salvage value, regardless of the method used. Deprecation ends when either the salvage value or the end of the useful life of the asset is reached. Since double-fall-balance depreciation doesn't devalue an asset until the end of life, some methods also calculate a straight-line depreciation every year, and more of the two apply. This is the effect of converting the asset's life from declining-balance depreciation to straight-line depreciation at a midpoint. With the declining equilibrium method, one can find the depreciation rate that will absolutely allow for full depreciation by the end of the period. Using the formula: Depreciation rate = 1 – Residual price cost fixed asset N 



{\displaystyle {\mbox{depreciation rate}}=1-{\sqrt[{N}]{\mbox{residual value}}}}

 on 



{\mbox{N}}

 where N asset has an estimated life (for example, over years). Annuity depreciation annuity depreciation methods are not based on time, but at the annuity level. This mile can be operated for a cycle count for a vehicle, or a machine. When the asset is acquired, its life is estimated in terms of this level of activity. Assume that the vehicle above is estimated to go 50,000 miles in its lifetime. The depreciation rate per mile is calculated as: (\$17,000 cost-\$2,000 salvage)/50,000 miles = \$0.30 per mile. Each year, depreciation expenses are calculated by multiplying the number of miles driven by depreciation rates per mile then. 



{\displaystyle {\mbox{yearly depreciation}}=sum-of-year-digit method yoga-of-year-digit}

 is a shisha depreciation method resulting in more quick writing than a straight-line method, and is usually more accelerated than the fall balancing method. Under this method, annual depreciation is determined by multiplying the depreciation cost by a schedule of fractions. The sum of the method of years of depreciation digits is one of quick depreciation techniques expenditure reducing income over the period of consumption under the matching principle. 



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ASC
360-10-35-4.
∗
 Under most systems, activity arising out of a business or income can be conducted by individuals or companies. 



∗
Kieso, et al, p 521.
See also Walther, Larry, the principles of accounting chapter 10 stored on the Wayback Machine 2010-07-29.
∗
Allocation of costs may be required where multiple assets are acquired in a single transaction.
Purchase price allocation may be required where assets are acquired as part of business acquisition or combination.
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A charge for such loss is referred to as depreciation in Germany.
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26 U.S.C. 168(c).
∗
26 U.S.C. 179.
Amount increased by the American Taxpayer Relief Act of 2012.
∗
26 U.S.C. 168(c) and (E).
∗
26 U.S.C. 168(D).
Also read library resources about depreciation resources in your library accounting Kieso, Donald E.; Weygant, Jerry J.; and Warfield, Terry D: Intermediate Accounting, Chapter 11. ISBN 978-0-471-44896-9.
Financial Accounting Standards Board (US) Accounting Standards Codification 360-10-35. Available for free browsing access with registration.
International Financial Reporting Standard IAS 16 Depreciation Journal Entries Tax Canada Revenue Capital Cost Allowance (CCA) Claims. UK Business Link (a government site) capital allowances: the basics. UK HMRC Capital Allowance Manual and Help Sheet for Employees. U.S. Internal Revenue Service Publication 946, How to Devalue Property, Washington, D.C.: U.S. Government Printing Office. IRS Rev. Proc. 87-56 and 87-55 (as shown in tables in Publication 946, as currently updated) Fox, Stephen C., Income Tax in the United States, Chapter 24, 2013 Edition Asin B00BCSNOGG Hoffman, William H. Jr., et al, Southwestern Federal Taxation, Chapter 8. 2013 Version 978-1-1331-8955-8, ASIN B00B6F3AWI. Pratt, James W., ; Kulsrud, William N. et al., Federal Taxation, Chapter 9. 2013 version ISBN 978-1-133-49623-6. received from

