# Trade Credit and Taxes

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TRADE CREDIT AND TAXES

Mihir A. Desai, C. Fritz Foley, and James R. Hines Jr.*

Abstract—This paper analyzes the extent to which tax differences affect the use of trade credit. U.S.-owned affiliates in low-tax countries use trade credit to lend, whereas those in high-tax countries use trade credit to borrow: 10% lower local tax rates are associated with net trade credit positions that are 1.4% higher as a fraction of sales. The use of trade credit to get capital out of low-tax, low-return environments is also illustrated by the temporary repatriation tax holiday in 2005, which was used most intensively by affiliates with positive net trade credit positions.

I. Introduction

BUSINESS transactions are commonly conducted on the basis of credit, as a result of which a seller does not receive cash but instead the promise of a future payment, which it records as an account receivable, and a buyer incurs an obligation, which it records as an account payable. At a given time, firms will have both accounts receivable and accounts payable, which collectively are known as trade credit. The U.S. corporate sector reported aggregate accounts receivable of $13.0 trillion and accounts payable of $5.3 trillion at year-end 2011, which are sizable figures even relative to its annual business receipts of $28.3 trillion and net income of $1.3 trillion.1

This paper examines the extent to which taxation influences trade credit practices by affecting returns to investment. High rates of taxation generally increase the cost of capital, reducing investment levels and driving up pretax returns. As a result, tax rate differences create incentives to transfer capital from low-tax, low-capital-cost, low-return users to high-tax, high-capital-cost, high-return users by delaying or accelerating the payment of trade accounts. The evidence suggests that tax-induced borrowing and lending through trade accounts is of similar magnitude to tax effects on borrowing and lending through conventional bond issuance and bank loans.

The effects of taxation on the use of trade credit are most readily observed internationally, where tax rate differences are sizable and apparent. Foreign affiliates of U.S. multinational firms make extensive use of trade credit: at year-end 2004, these affiliates held accounts receivable of $1.49 trillion and had accounts payable of $1.39 trillion; each of these exceeded 30% of total annual affiliate sales. The analysis of detailed affiliate-level data suggests that tax effects are large and statistically significant in explaining trade credit choices.

Figure 1 offers descriptive evidence, drawn from published BEA data, of the extent to which tax incentives may influence the use of trade credit by multinational affiliates. The figure presents information on the foreign affiliates of U.S. multinational firms sorted by tax rates in their host foreign countries. The figure shows that accounts receivable and accounts payable, as well as differences between the two, are greater in low-tax jurisdictions than in high-tax jurisdictions, a pattern that is consistent with incentives to use trade credit to allocate capital to places where it generates high pretax returns.

Regressions using parent company fixed effects confirm that affiliates in high-tax countries have smaller net working capital positions than do other affiliates; higher tax rates are associated with greater borrowing through trade accounts that is similar in magnitude to the additional nontrade account borrowing commonly associated with higher tax rates. The association of tax rate differences and net working capital positions is strongest for wholly owned affiliates and those with fewer idiosyncratic capital needs as indicated by low capital expenditures.

Responses to recent changes in U.S. international tax policy offer additional evidence of the use of trade credit to reallocate capital to more productive uses. The 2004 U.S. Homeland Investment Act greatly lowered the cost of reallocating capital to the United States by permitting many firms to pay U.S. tax on only 15% of the dividends they received from foreign affiliates during 2005. Foreign affiliates with positive net working capital positions prior to 2005 responded to the tax change by paying greater dividends to their parent companies and reducing their holdings of working capital more sharply than did other affiliates. These reactions are consistent with pre-2005 use of trade credit to reallocate capital to locations where it earns higher returns and the emergence in 2005 of a more permanent and cost-effective method of doing so.

Existing work emphasizes explanations for the use of trade credit that are unrelated to taxes. Several papers, including Burkart and Ellingsen (2004), Giannetti, Burkart, and Ellingsen (2011), Cunat (2007), and Fabbri and Menichini (2010), highlight the ability of suppliers to lend in a way that limits managerial opportunism more effectively than can financial lenders. Other studies, such as Lee and Stowe (1993), Long, Malitz, and Ravid (1993), Ng, Smith, and Smith (1999), and Antrás and Foley (2015), explain how trade credit arrangements solve information problems concerning product quality and buyer credit-worthiness.


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Relatedly, Petersen and Rajan (1994) present evidence that
monitoring provided by suppliers might aid firms in access-
ing financial lenders, who can free-ride on the monitoring provided by suppliers. Trade credit decisions also appear to reflect the bargaining power of buyers and suppliers, as indicated by Klapper, Laeven, and Rajan (2012). Fisman and Love (2003), and Love, Preve, and Sarria-Allende (2007), identify some of the consequences of access to trade credit. Meltzer (1960) and Ramey (1992) explain trade credit as a means of reallocating capital across firms, though the motives for this reallocation are unrelated to taxes. Of course, these different explanations for the use of trade credit, and explanations related to tax incentives, are not mutually exclusive.

A few studies consider tax motivations for the use of trade credit. Brick and Fung (1984) consider the implications of a cash accounting regime, in which transactions are taxed when payments are made. In such a setting, heavily taxed firms have incentives to extend credit to lightly taxed firms, thereby deferring receipt of cash and the recognition of tax liabilities. Most corporations, however, including all publicly traded corporations, are required to use accrual accounting for tax purposes. Under accrual accounting, a firm must pay tax on income as it accrues, so is taxed on the proceeds of a completed sale even when cash is not yet received. Mian and Smith (1992) note that heavily taxed sellers might be able to defer tax liabilities by using installment sales that are permitted under IRS rules and allow taxpayers using accrual accounting to defer recognizing sales revenue until cash is actually received. Brennan, Maksimovic, and Zechnier (1988) also consider the tax treatment of installment sales, but conclude that they do not reduce the present value of tax liabilities. Under IRS rules, if sellers defer income recognition, then buyers are unable to claim tax deductions for expenses until payment is actually made. Furthermore, the special tax treatment of installment sales is available only in certain circumstances involving sales of capital assets; it is not available for the vast majority of corporate sales, including sales of inventory property and services.2

II. Understanding the Impact of Taxes on Trade Credit

Two corporations that buy and sell items from each other can pay at the time of purchase or at another time, in the meantime creating, respectively, accounts payable and accounts receivable. Corporations are required to use the accrual method in calculating their tax liabilities, so income is taxable when it is earned, not necessarily when it is received. Consequently, a corporation must pay income taxes on sales to another party even if it has not yet received payment, as long as the sale has taken place and the buying party can reasonably be expected to make that payment eventually.

Consider a setting in which firm \( i \), which could be a U.S. multinational parent company, purchases a good worth \$1 from firm \( j \), which could be a foreign affiliate of that parent, at the start of a year and faces the question of whether to pay immediately. If firm \( i \) delays payment, it accrues an account payable that it will settle at the start of the following year with interest \( r \), so next year it pays \( (1 + r) \). As a result of not paying this year, firm \( i \) has the use of an additional dollar of capital for the year, thus increasing its financial capital \( K_i \), and firm \( j \) forgoes the use of the same dollar of capital, thus decreasing \( K_j \). Denote firm \( i \)'s production function by \( Q_i(K_i) \); the delayed payment then nets firm \( i \) after taxes:

\[
Q_i(K_i) - r(1 - \tau_i),
\]

in which \( \tau_i \) is the tax rate facing firm \( i \). Expression (1) reflects both that the additional income is taxable and that firm \( i \) is entitled to deduct from taxable income the interest component of its settlement of the account payable to firm \( j \). Similarly, firm \( j \) loses the benefit of using \$1 of financial capital for a year but receives interest, so after taxes, it nets

\[
[r - Q_j(K_j)](1 - \tau_j).
\]

Expressions (1) and (2) can be viewed as participation constraints in which both parties have incentives to use trade credit if \( Q_i(K_i) \geq r \geq Q_j(K_j) \). By delaying payment,

\[\text{FIGURE 1.—TAX RATES AND TRADE CREDIT}\]

This figure displays mean measures of trade credit use by foreign affiliates of U.S. firms in countries with differing corporate tax rates. Accounts receivable/sales is the ratio of total current accounts receivable to total annual sales; accounts payable/sales is the ratio of total current accounts payable to total sales; and net working capital/sales is the ratio of the difference between total current accounts receivable and current accounts payable to total sales. Ratios are computed using the publicly available BEA country-level data for the 1982, 1989, 1994, 1999, and 2004 benchmark years that cover nonbank major-ity-owned affiliates of nonbank parents. Average tax rates are calculated as ratios of total income tax payments to total pretax income. The left-most set of bars depicts ratios for U.S. multinational affiliates located in countries with average corporate tax rates below 15%. The second set of bars depicts ratios for U.S. multinational affiliates located in countries with tax rates greater than or equal to 15% and less than 30%. The third set of bars depicts ratios for U.S. multinational affiliates located in countries with tax rates greater than or equal to 30% and less than 45%, and the right-most set of bars depicts ratios for U.S. multinational affiliates located in countries with tax rates greater than or equal to 45%.

2 Graetz and Schenk (2009) review the interpretation and application of U.S. tax law to corporate accounts receivable and accounts payable.
The joint benefit consists of the difference between the prepayment of interest payments and receipts, as given by the first two terms of expression (3), and the tax-advantaged location of interest payments and receipts, as given by the third term. If after-tax marginal products of capital are equal, an implication of equity-financed investment with a common cost of capital, then the first two terms offset each other and there is a gain to the transaction if \( \tau_i > \tau_j \). All other considerations equal, larger tax rate differences induce greater reallocations of capital. Trade credit, just like debt, reduces the distortion to investment levels created by the corporate tax by encouraging firms to reallocate capital to higher tax locations.

Instead of employing trade credit arrangements, customers might exchange cash for goods at the time of sale, financing their expenditures, if need be, with loans from local banks. Bank loans serve many of the same functions as trade credit, though terms and conditions of bank loans are likely to differ from trade terms offered by suppliers because banks and suppliers have different relationships with buyers and access to different information, and they can draw on differing expertise. In practice, information and enforcement costs limit the availability of inexpensive bank loans and trade credit borrowing, and tax rules can restrict the extent of deductible interest payments. As a result, trade credit is often an attractive method of borrowing.

### III. Evidence from U.S. Multinational Firms

Data used to analyze the financing and operations of U.S. firms are drawn from the BEA annual survey of U.S. direct investment abroad. Although many data items, such as sales, are collected for a broad sample on an annual basis, detailed data on trade credit are available for larger affiliates only in 1982, 1989, 1994, 1999, and 2004, years in which BEA conducted benchmark surveys. In these years, surveys captured information on current trade accounts and trade notes receivable, as well as current trade accounts and trade notes payable. In the analysis that follows, these measures are scaled by sales. Net trade credit positions are measured in the data as differences between accounts receivable and accounts payable scaled by sales.

Data on foreign income taxes paid and net income can be used to calculate foreign corporate income tax rates; each affiliate’s average tax rate is the ratio of foreign income tax payments to the sum of net income and foreign income tax payments. Countries are then assigned tax rates equal to median tax rates among local U.S. affiliates. This tax burden measure has the disadvantage of being partly a function of the average behavior of U.S. investors but offers the advantage of reflecting not only statutory corporate tax rates but also the values of tax depreciation and other business deductions, tax credits, tax holidays, and other features of national tax systems that can significantly influence tax obligations; as a result, it is widely employed by studies of U.S. multinationals (Desai, Foley, and Hines 2001, 2004a, 2004b, 2006; Blouin et al., 2014) that use the BEA data.

The BEA data include information on parent company ownership of affiliates; this information is used to identify the directly owned affiliates whose dividend payments were affected by the 2005 repatriation tax holiday. Precise measures of accounts receivable and accounts payable are not available in the BEA data on an annual basis, but a broader

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3 The assumption of equity finance is a common starting point in the analysis of the effect of corporate taxation, since if corporate investment is instead debt financed, there is effectively no corporate tax: a firm that is 100% debt financed, with an average return on investment equal to the interest rate, has interest deductions that exactly offset its taxable income, leaving zero corporate tax to be paid (Auerbach, 2002). The evidence that high tax rates discourage investment, together with the hundreds of billions of dollars collected by the U.S. corporate tax each year, suggests that in practice, corporations are not entirely debt financed. Hassett and Hubbard (2002), Chirinko, Fazzari, and Meyer (1999), Desai and Goolsbee (2004), Djankov et al. (2010), Da Rin, Giacomino, and Spenelli (2011), and Bond and Xing (2010) offer evidence of the impact of corporate tax rates on investment. Graham (2000) measures the extent to which firms borrow too little from a tax standpoint; he estimates that the average firm in his sample could double its debt-related tax benefits by taking on additional debt.

4 The third term of expression (4) corresponds to the net value of interest tax deductions in the high-tax jurisdiction and taxes on interest income in the low-tax jurisdiction, reflecting that trade credit reallocates capital in a manner that is treated for tax purposes like borrowing. Since higher tax rates are consistently associated with greater propensity to use debt finance (Graham, 1996; Desai, Foley, & Hines, 2004b; Huizinga, Laeven, & Nicolae, 2008), it follows that firms facing high corporate tax rates should be expected to borrow using trade credit, whereas those facing low corporate tax rates should be expected to use trade credit to loan to other firms.

5 In 1982, 1989, and 1994, all affiliates with an absolute value of sales, assets, or net income in excess of $3 million, $15 million, and $50 million, respectively, were required to report accounts receivable and accounts payable. In 1999 and 2004, all majority-owned affiliates with an absolute value of sales, assets, or net income in excess of $3 million, $15 million, and $50 million, respectively, were required to report accounts receivable and accounts payable. In 1982, 1989, and 1994, all affiliates with an absolute value of sales, assets, or net income in excess of $3 million, $15 million, and $50 million, respectively, were required to report accounts receivable and accounts payable.

6 Net trade credit positions are measured in the data as differences between accounts receivable and accounts payable scaled by sales.

7 The regressions presented in tables 2 and 3 were rerun using three additional tax rate measures: statutory corporate tax rates, average tax rates faced by U.S. affiliates as reported in the BEA data, and (affiliate-specific) average tax rates faced by U.S. firms other than the affiliate whose behavior the regression model predicts. Estimated tax effects in the regressions using these alternative measures, available from the authors, look similar to those reported in tables 2 and 3.
measure is available annually for the years 1999 to 2007: the ratio of current assets minus current liabilities and long-term debt to current assets plus current liabilities and long-term debt. This measure of working capital is not scaled by sales. The broader measures of assets and liabilities on which the ratio is based do not relate closely to sales and scaling the difference in the numerator by sales yields many outliers. By scaling the difference in the numerator by the sum of its components, the measure is restricted to lie between $-1$ and $1$. Table 1 presents means and standard deviations of variables used in the regressions that follow.

Table 2 presents regressions that explore the impact of local tax rates on trade credit use by U.S. multinational affiliates in foreign countries between 1982 and 2004. The dependent variable in the regressions presented in table 2 is the ratio of net working capital to affiliate sales. All of the regressions presented in table 2 include parent company fixed effects and year fixed effects. Specifications also control for the log of affiliate assets, the log of country GDP per capita, and nontrade account leverage, which is measured as current liabilities and long-term debt less current trade accounts payable, scaled by sales. The $-0.1430$ coefficient in column 1 suggests that $10\%$ lower tax rates are associated with net working capital positions that are $1.4\%$ greater as a fraction of sales.

The regression presented in column 2 analyzes differences between affiliates located in foreign jurisdictions identified as tax havens by Hines and Rice (1994) and affiliates located elsewhere. U.S. multinational firms commonly use affiliates located in tax havens to facilitate indirect ownership of other foreign affiliates and to serve as intermediaries in trade between related parties. The $0.0660$ coefficient in column 2 of table 2 indicates that tax haven affiliates have significantly larger net working capital positions than do affiliates located elsewhere, the difference corresponding to $6.6\%$ of sales.

The evidence in table 2 indicates that there is greater trade account borrowing in high-tax locations. Multinational firms commonly also do more nontrade account borrowing in high-tax locations than in low-tax locations, reflecting the benefits of interest expense deductions in high-tax environments. Desai, Foley, and Hines (2004b) find that in the BEA data, $10\%$ higher foreign tax rates are associated with nontrade account borrowing by foreign affiliates of U.S. multinational firms that is $1.6\%$ higher as a fraction of assets; since the mean ratio of nontrade account borrowing to assets in that sample is $0.35$, this is a difference equal to $4.7\%$ of average borrowing. Since the $-0.1430$ coefficient in column 1 of table 2 implies that $10\%$ higher tax rates are associated with $1.4\%$ greater net borrowing through trade accounts as a fraction of sales, and table 1 indicates that mean nontrade account borrowing as a fraction of sales is $0.28$, it follows that the tax effect on net working capital equals $5.1\%$ of nontrade account borrowing. This is roughly equal in magnitude to the effect of tax rate differences on more conventional borrowing other than through trade accounts.

The use of trade credit to reallocate capital in response to tax incentives is likely to be most easily facilitated when these entities are under common control, so interacting an indicator of whole ownership with tax variables offers the prospect of identifying the extent to which higher levels of control precipitate observed tax effects. Furthermore, affiliates that face what appear to be highly attractive investment opportunities are unlikely to prefer to extend large amounts of trade credit, regardless of local tax rates, given the potential to earn high returns in local investments. While it is not possible to identify directly the quality of an affiliate’s perceived investment opportunities, the affiliate’s investment behavior offers an indirect, albeit endogenous, indicator.

Column 3 presents estimated coefficients from a regression that includes a dummy variable for wholly owned affiliates and an interaction of this dummy variable with the local tax rate; the regression is otherwise identical to that reported in column 1. The $-0.1012$ coefficient suggests that wholly owned affiliates in low-tax countries have much larger working capital positions than do wholly owned affili-
otherwise. As indicated by the lies above the sample median; the dummy variable is 0 the value 1 if an affiliate's capital expenditure-to-asset ratio reported in column 5 includes a dummy variable that takes tax incentives and investment opportunities. The regression net working capital implications of the interaction between use an indicator of investment opportunities to explore the than those elsewhere.

Capital positions that are 8.6% larger as a fraction of sales that wholly owned affiliates in tax havens have net working positions of partially owned affiliates. The regression differences have little discernible effect on working capital significant capital expenditures. Hence, it appears that tax rate differences are much more strongly associated with net working capital differences among firms without extensive tax havens have have net working capital positions that are 8.6% larger as a fraction of sales than those elsewhere.

The regressions presented in columns 5 and 6 of table 2 use an indicator of investment opportunities to explore the net working capital implications of the interaction between tax incentives and investment opportunities. The regression reported in column 5 includes a dummy variable that takes the value 1 if an affiliate’s capital expenditure-to-asset ratio lies above the sample median; the dummy variable is 0 otherwise. As indicated by the −0.1277 coefficient in column 5, affiliates with above-median capital expenditure to asset ratios have substantially smaller net working positions, reflecting some combination of their demand for, and availability of, investible funds. The −0.1940 coefficient in column 5 indicates that affiliates in low-tax countries have much higher net working capital positions than do affiliates in high-tax countries, but the 0.1762 coefficient reveals that this tax correlation entirely disappears among affiliates with significant capital expenditures. Hence, it appears that tax rate differences are much more strongly associated with net working capital differences among firms without extensive demand for capital expenditures.

A similar pattern appears in the regression reported in column 6, in which the capital expenditure dummy variable is interacted with a dummy for tax haven location. The 0.0779 coefficient on tax haven location indicates that affiliates in tax havens have significantly larger net working capital accounts than do affiliates located elsewhere, and the −0.0709 coefficient on the interaction reveals that this effect again disappears for affiliates with significant capital expenditures.

Firms without attractive foreign investment opportunities, but with foreign profits that would be subject to high rates of U.S. tax if repatriated, had the strongest incentives to use trade credit arrangements to reallocate capital from foreign affiliates prior to the 2005 repatriation tax holiday. Figure 2 depicts aggregate dividend payout ratios for two samples of foreign affiliates of U.S. firms in 2004 and 2005; the left two bars represent directly owned affiliates that had positive net working capital positions in 2004, and the right two bars represent all others. The shaded bars present
aggregate payout ratios for 2004, and the unshaded bars present payout ratios for 2005. This figure indicates that affiliates with positive net working capital positions prior to the tax change increased their dividend payout ratios much more than did other affiliates, suggesting that they had been using trade credit to reallocate capital previously trapped abroad.

The regressions presented in columns 1 and 2 of table 3 evaluate the extent to which foreign affiliates with positive net working capital positions prior to 2005 took advantage of the repatriation tax holiday to remit dividends to U.S. parent companies. For this purpose, it is necessary to focus on foreign affiliates directly owned by their U.S. parent companies because dividend payments by indirectly owned affiliates would be received by entities other than U.S. parent companies and therefore possibly not included among 2005 repatriations eligible for the tax holiday.

The dependent variable in the regressions reported in columns 1 and 2 of table 3 is the ratio of dividends to affiliate sales. The independent variable Directly Owned with Positive Net Working Capital is a dummy equal to 1 for affiliates that are directly owned and have accounts receivable exceeding accounts payable in 2004. The 0.0124 coefficient on the interaction of this variable with a dummy for year 2005 in the regression reported in column 1 indicates that directly owned affiliates with positive net working capital positions were more likely to pay dividends during 2005 than in other years; these affiliates were indeed more likely to pay dividends in 2005 than are typical affiliates in typical years, as reflected by the positive sum of the −0.0062 and 0.0124 coefficients. The regression reported in column 1 controls for ratios of net income to sales, whether the affiliate paid a dividend in the previous year, year effects, and parent fixed effects. The specification in column 2 includes affiliate fixed effects instead of parent fixed effects, without changing significantly the estimated effect of the 2005 repatriation holiday.

By offering a one-time low-cost means of moving capital out of low-tax jurisdictions, the Homeland Investment Act reduced the incentive for affiliates to use net working capital positions for this purpose. The regressions presented in columns 3 and 4 of table 3 test the hypothesis that affiliates in low-tax jurisdictions reduced their net working capital positions in response to the 2005 holiday. The dependent variable is the ratio of current assets minus current liabilities and long-term debt to current assets plus current liabilities and long-term debt. The tax measure is a dummy equal to 1 for affiliates based in countries with tax rates in the bottom quartile of rates prior to the holiday.

The 0.0764 coefficient on the dummy for affiliates based in low-tax countries in column 3 indicates that these affiliates tend to have higher working capital positions than do other affiliates. The −0.0345 coefficient on the interaction of this dummy and the dummy for the years 2005, 2006, and 2007 indicates that these affiliates reduced their working capital positions relative to other affiliates immediately following the tax holiday. The specification in column 4 includes affiliate fixed effects, with an estimated coefficient on the interaction of low tax rates and years 2005 to 2007 that is similar to that reported in column 3.

IV. Conclusion

U.S. multinational firms use trade credit to reallocate capital between locations with differing tax rates, reflecting that some of the benefits of direct ownership of foreign operations lie in opportunities for tax-motivated planning (Desai et al. 2004a). Incentives to use trade credit to reallocate capital also appear in settings with trade between unrelated parties. Petersen and Rajan (1997) note that lower-income firms, despite their limited liquidity and high monitoring costs, are more likely than others to lend to unrelated parties via trade credit. One reason may be that lower-income firms, with their greater likelihood of tax losses, in expectation face lower marginal tax rates than others and might therefore find it profitable to use trade credit to reallocate capital to firms with higher tax rates and higher pretax marginal products of capital.

High tax rates encourage borrowing through trade accounts just as high tax rates encourage more conventional forms of borrowing such as bank loans and debt issuance. The evidence in this paper suggests that the additional trade account borrowing associated with higher tax rates is similar in magnitude to the additional conventional borrowing associated with higher tax rates. Concerns over high tax rates encouraging excessive corporate borrowing, with resulting prospects for bankruptcy, are commonly directed at conventional borrowing rather than borrowing through trade accounts, as are remedies such as thin capitalization
rules (Buettner et al., 2012; Blouin et al., 2014). The magnitude of trade account borrowing, and its evident responsiveness to taxation, suggests that this may represent too narrow a view of corporate activity.

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