Foreign Direct Investment: Effects of a “Cheap” Dollar

Updated January 15, 2008

James K. Jackson
Specialist in International Trade and Finance
Foreign Affairs, Defense, and Trade Division
Foreign Direct Investment: Effects of a “Cheap” Dollar

Summary

Since 2002, the dollar has depreciated against a broad basket of currencies and against the euro. This depreciation has prompted some observers to question whether the “cheap” dollar is leading to a “fire sale” of U.S. firms, especially of those firms that can be identified as part of the Nation’s defense industrial base. Congress has displayed a long and continuing interest in foreign direct investment and its impact on the U.S. economy. Since September 11, 2001, Congress has demonstrated a heightened level of concern about the impact of foreign direct investment in critical industries or in sectors that are vital to homeland security. On July 26, 2007, the 110th Congress passed P.L. 110-49 (H.R. 556), the National Security Foreign Investment Reform and Strengthened Transparency Act of 2007. The measure reflects a heightened level of concern about the presence of foreign investors in the economy by increasing Congressional oversight over federal reviews of foreign direct investment and by expanding the current areas of review to include homeland security and critical infrastructure. The continued weakness in the exchange value of the dollar and its potential effects on direct investment likely will continue to attract the attention of Members in the second session of the 110th Congress.

Academic research and analysis has been relatively limited on the topic of the relationship between a depreciated dollar and any impact on foreign purchases of U.S. firms. There is also a relatively limited amount of information on this topic. Nevertheless, direct investment transactions as a whole seem to be tied more directly to the relative rates of economic growth between economies, as well as expected long-run rates of return and other economic factors, than to relatively short-term movements in the exchange rate of the dollar. Actual and expected movements in the exchange rate may influence the timing and the magnitude of foreign investors’ decisions, but little research has been done on this issue.

Firms also engage in a variety of tactics to nullify or mitigate the effects of movements in the exchange rate, which would weaken the linkage between movements in the exchange rate and direct investment transactions. U.S. and foreign multinational firms have come to raise a significant part of their investment funds in the capital markets in which they are investing, which also lessens the impact of movements in the exchange rate. Furthermore, U.S. and foreign multinational firms have become skilled at using various techniques to hedge the risks of changes in exchange rates. This report assesses the current state of knowledge concerning the role of exchange rate movements in direct investment transactions, presents data on some of the major factors that influence direct investment, and provides an overview of some of the factors that influence the way in which firms finance their investments.

This report will be updated as events warrant.
Foreign Direct Investment: Effects of a “Cheap” Dollar

Overview

The United States is unique in that it is the largest foreign direct investor in the world and also the largest recipient of foreign direct investment. This dual role means that globalization, or the spread of economic activity by firms across national borders, has become a prominent feature of the U.S. economy. Through direct investment the U.S. economy has become highly enmeshed into the broader global economy. Some observers are concerned that the depreciation in the value of the dollar relative to a number of major currencies could lead to a “fire sale” of U.S. firms. Direct investment commonly refers to investment in new or established businesses and real estate, compared with portfolio investment, which refers to investment in U.S. government securities and corporate stocks and bonds. This report focuses on foreign direct investment.

Foreigners invested $184 billion in U.S. businesses and real estate in 2006, according to balance of payments data published by the Department of Commerce. As Figure 1 shows, this represents an increase over the $104 billion invested in 2005 and compares to the sharp increase in the amount U.S. firms invested abroad in 2006 relative to the amount they invested abroad in 2005. The increase in U.S. direct investment flows mirrors a turnaround in global flows. According to the United Nation’s World Investment Report, global foreign direct investment flows increased by 29% in 2005 and 27% in 2004, after three years of declining flows.

---

1 The United States defines direct investment abroad as the ownership or control, directly or indirectly, by one “legal person” (individual, corporation, branch, partnership, association, government, etc.) of 10% or more of the voting securities of an incorporated business enterprise or an equivalent interest in an unincorporated business enterprise. 15 C.F.R § 806.15 (a)(1).

2 For information about foreign portfolio investment in the United States, see CRS Report RL32462, Foreign Investment in U.S. Securities, by James K. Jackson.

3 Bach, Christopher L., “U.S. International Transactions in 2006.” Survey of Current Business, April 2007, p. 46. Direct investment data reported in the balance of payments differ from capital flow data reported elsewhere, because the balance of payments data have not been adjusted for current cost adjustments to earnings.

The position, or stock, is the net book value of foreign direct investors’ equity in, and outstanding loans to, their affiliates in the United States. A change in the position in a given year consists of three components: equity and intercompany inflows, reinvested earnings of incorporated affiliates, and valuation adjustments to account for changes in the value of financial assets. The Commerce Department also publishes data on the foreign direct investment position valued on a current-cost and market value bases. These estimates indicate that foreign direct investment increased by $147 billion and $93 billion in 2005, respectively, to $1.9 and $2.8 trillion.


New spending by U.S. firms on businesses and real estate abroad, or U.S. direct investment abroad, fell sharply in 2005 to $9 billion, down from the $252 billion U.S. firms invested in 2004, according to the Department of Commerce. The drop in U.S. direct investment abroad reflects actions by U.S. parent firms to reduce the amount of reinvested earnings going to their foreign affiliates for distribution to the U.S. parent firms in order to take advantage of one-time tax provisions in the American Jobs Creation Act of 2004 (P.L. 108-357). Data indicate that U.S. direct investment abroad in 2006 rebounded to reach $249 billion.

Foreign Direct Investment and the Dollar

Since 2002, the dollar has depreciated against a broad basket of currencies and against the euro. This depreciation has prompted some observers to question whether the “cheap” nominal dollar is leading to a “fire sale” of U.S. firms, especially of those firms that can be identified as part of the Nation’s defense industrial base. While some aspects of foreign investment have been studied extensively by academics and others, relatively few economic studies have addressed the linkage between direct investment and movements in the exchange rate and even those studies have produced mixed results.

In general terms, most economists argue that depreciation in the exchange value of the dollar is not the key factor that drives the decision by most foreign firms to invest in the United States, although the corresponding appreciation of foreign currencies would lower the cost of assets acquired in the United States. The lower value of the dollar, however, means that the value of returns from U.S. assets are reduced as well, which would leave the overall rate of return on such investments unchanged. In one study, two economists argue that an appreciation of foreign currencies relative to the dollar could boost foreign direct investment in the United States, because the appreciation leads to increased wealth for foreign firms relative to their U.S. counterparts and greater access to low-cost funds in local markets. Another economist argues that appreciation of the yen in the 1980s provided some impetus for Japanese firms to increase their direct investments in the United States, because the appreciated yen lowered the price of certain firm-specific assets, such as technology and managerial skills, but that it did not necessarily improve the nominal...

---


8 Weinberg, Douglas B., Kelly K. Pierce, and Erin M. Whitaker, “U.S. International Transactions, Second Quarter of 2006,” Survey of Current Business, October 2006, p. 85. Direct investment data reported in the balance of payments differ from capital flow data reported elsewhere, because the balance of payments data have not been adjusted for current cost adjustments to earnings.


returns to Japanese firms.^{11} Actual and expected changes in the exchange rate of the dollar may well influence the timing and the magnitude of foreign investors’ decisions, but little research has been done on this issue.

**Foreign Direct Investment and GDP**

Generally, economists argue that relative rates of growth between the U.S. and foreign economies are indicative of relative rates of return and corporate profitability and, therefore, are key factors in determining the direction and magnitude of capital flows, including direct investment flows.^{12} These flows also are affected by relative rates of inflation, taxes, interest rates, and expectations about the performance of national economies, which means they can be quite volatile at times. Since the mid-1990s, a combination of strong growth and low inflation in the U.S. economy likely were the main factors in attracting foreign investors. The sheer size of the U.S. economy, the vast number of investment opportunities, and the relative liquidity of the market likely also enhance the appeal of investments in the United States. From 2002 to 2005, U.S. direct investment abroad was more than twice the amount foreigners invested in the U.S. economy, reflecting the period of slower growth in the U.S. economy from 2001-2003. Both U.S. direct investment abroad and foreign direct investment in the United States increased in 2006, reflecting both the stronger rate of growth of the U.S. economy and growth in corporate earnings.

Table 1 shows annual data from 1999 to 2006 for U.S. and foreign direct investment. The data show annual inward and outward flows of direct investment and they provide some detail on the composition of the sources of those funds. The table also presents index numbers representing the nominal trade-weighted exchange rate of the dollar relative to a broad basket of currencies with the year 2000 as the base year and the annual rate of economic growth in percentage terms for the real gross domestic product (GDP) of the U.S. economy. Similar sets of index numbers were constructed for the Japanese yen, Japanese direct investment in the United States, the euro, and euro-country direct investment in the United States.^{13} The index numbers that represent the exchange rate between the dollar and various foreign currencies were constructed such that an increase in the value of the index means that more dollars are required to buy foreign currency, or that the dollar has depreciated relative to the value of the foreign currency. Similarly, a decline in the index means that fewer dollars are required to buy foreign currency, or that the dollar has appreciated.

---


^{13} For the purposes of this analysis, Chinese direct investment in the United States is not included, since the Chinese yuan is effectively pegged against the value of the dollar.
Table 1. U.S. Direct Investment Abroad, Foreign Direct Investment in the United States, and Indexes of Currencies, 1999-2006

<table>
<thead>
<tr>
<th></th>
<th>1999</th>
<th>2000</th>
<th>2001</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. direct investment abroad (in $billions)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capital</td>
<td>$224.9 $-59.2</td>
<td>$142.3</td>
<td>$154.5</td>
<td>$149.9</td>
<td>$244.1</td>
<td>$9.1</td>
<td>228.3</td>
<td></td>
</tr>
<tr>
<td>Equity capital</td>
<td>98.9</td>
<td>78.0</td>
<td>60.9</td>
<td>42.7</td>
<td>35.5</td>
<td>81.4</td>
<td>39.7</td>
<td>25.7</td>
</tr>
<tr>
<td>Reinvested earnings</td>
<td>64.2</td>
<td>93.6</td>
<td>69.8</td>
<td>85.3</td>
<td>121.0</td>
<td>157.3</td>
<td>-11.2</td>
<td>202.1</td>
</tr>
<tr>
<td>Intercompany debt</td>
<td>61.8</td>
<td>-12.4</td>
<td>11.6</td>
<td>26.5</td>
<td>-6.6</td>
<td>5.4</td>
<td>-19.4</td>
<td>0.4</td>
</tr>
<tr>
<td>Foreign direct investment in the United States (in $billions)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capital</td>
<td>$289.4 $321.3</td>
<td>$167.0</td>
<td>$84.4</td>
<td>105.8</td>
<td>$109.8</td>
<td>180.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Equity capital</td>
<td>221.6</td>
<td>259.6</td>
<td>140.9</td>
<td>105.3</td>
<td>93.4</td>
<td>74.1</td>
<td>57.7</td>
<td>81.5</td>
</tr>
<tr>
<td>Reinvested earnings</td>
<td>4.1</td>
<td>-0.3</td>
<td>-33.9</td>
<td>1.6</td>
<td>14.5</td>
<td>55.6</td>
<td>58.9</td>
<td>101.6</td>
</tr>
<tr>
<td>Intercompany debt</td>
<td>63.8</td>
<td>61.9</td>
<td>60.0</td>
<td>-22.6</td>
<td>-44.0</td>
<td>3.5</td>
<td>-6.9</td>
<td>-2.9</td>
</tr>
<tr>
<td>Dollar index(broad, nominal)</td>
<td>102.9</td>
<td>100.0</td>
<td>94.8</td>
<td>94.2</td>
<td>100.1</td>
<td>105.2</td>
<td>107.7</td>
<td>109.5</td>
</tr>
<tr>
<td>Real GDP (% change)</td>
<td>4.5</td>
<td>3.7</td>
<td>0.8</td>
<td>1.6</td>
<td>2.5</td>
<td>3.9</td>
<td>3.2</td>
<td>3.3</td>
</tr>
<tr>
<td>Euro (index)</td>
<td>115.5</td>
<td>100.0</td>
<td>97.0</td>
<td>102.4</td>
<td>122.6</td>
<td>134.7</td>
<td>134.8</td>
<td>136.5</td>
</tr>
<tr>
<td>Euro-country investment (index)</td>
<td>70.5</td>
<td>100.0</td>
<td>38.8</td>
<td>6.7</td>
<td>22.7</td>
<td>18.8</td>
<td>20.8</td>
<td>N.A.</td>
</tr>
<tr>
<td>Pound (index)</td>
<td>93.7</td>
<td>100.0</td>
<td>105.3</td>
<td>100.9</td>
<td>92.7</td>
<td>82.7</td>
<td>83.3</td>
<td>82.3</td>
</tr>
<tr>
<td>British investment (index)</td>
<td>131.4</td>
<td>100.0</td>
<td>3.4</td>
<td>25.7</td>
<td>-5.3</td>
<td>27.7</td>
<td>34.9</td>
<td>N.A.</td>
</tr>
<tr>
<td>Japanese yen (index)</td>
<td>94.8</td>
<td>100.0</td>
<td>88.7</td>
<td>86.1</td>
<td>93.0</td>
<td>99.7</td>
<td>97.9</td>
<td>92.7</td>
</tr>
<tr>
<td>Japanese investment (index)</td>
<td>147.8</td>
<td>100.0</td>
<td>-40.1</td>
<td>83.1</td>
<td>109.3</td>
<td>228.1</td>
<td>179.6</td>
<td>N.A.</td>
</tr>
</tbody>
</table>

Source: Department of Commerce and Federal Reserve Board.
Note: The nominal broad dollar index is the weighted average of the foreign exchange value of the U.S. dollar against a broad group of U.S. trading partners developed by the Board of Governors of the Federal Reserve System that shows the dollar price of foreign currency; the base year of the index is 2000 with a value of 100. Real GDP is the annual growth rate in real Gross Domestic Product (GDP). Euro, pound, and yen index values represent the dollar price of the respective currencies with a base value of 100 for the year 2000. Euro-country, British, and Japanese direct investment in the United States are represented by index numbers with the base year of 2000 = 100. Index values were developed by CRS.

The index numbers in Table 1 are constructed primarily as a device to facilitate the comparison of the timing and the direction of changes in the measures, not the relative magnitudes of the actual values involved. The data also show the similarity in trends between U.S. direct investment abroad and foreign direct investment in the United States. Such a similarity seems counterintuitive, since inward and outward investment flows are thought by some to be substitutes. If they are substitutes, U.S. direct investment abroad would be expected to be strongest during periods when the U.S. economy is not performing well relative to foreign economies and foreign direct investment in the United States would be expected to be weak. Instead, during
periods when U.S. direct investment abroad is strong, foreign direct investment in the United States is also strong and vice versa.

U.S. direct investment abroad and foreign direct investment in the United States may follow similar investment trends over time as firms in both the United States and in foreign markets respond to increases or decreases in demand for goods and services as the U.S. economy expands or contracts, respectively. For instance, as the U.S. rate of economic growth rises, U.S. firms would increase their investments at home in response to improved profitability and stronger sales. In addition, these firms may well increase their investments abroad as production by foreign firms increases to meet the higher level of demand in the United States. Although U.S. foreign affiliates export only about 10% of their worldwide production back to the United States, increased levels of exports by foreign firms and the correspondingly higher levels of production abroad may well stimulate production and investment abroad by the foreign affiliates of U.S. firms.

Overall, the data provide some support for the general conclusion that the inflows and outflows of direct investment are tied more directly to the overall rate of growth in the economy than they are to movements in the exchange rate of the dollar. Nevertheless, movements in the exchange rate of the dollar likely affect flows of direct investment through common linkages to the rate of growth in the economy and as firms adjust their payments of remittances in response to movements in the exchange value of the dollar.

To the extent that the rate of growth of U.S. GDP, movements in the dollar, and direct investment flows are interrelated, these interrelationships complicate efforts to separate out cause and effect chains of influence and the relative importance of any one factor. The data in Table 1 generally tend to support the concept that the rate of growth in the U.S. economy, as reflected by U.S. GDP, likely has a greater influence on direct investment flows than does the exchange rate of the dollar. Data from Table 1 on U.S. GDP, the nominal broad index of the dollar price of a basket of foreign currencies, and an index of foreign direct investment in the United States are shown in Figure 2. Again, the index numbers for the dollar are constructed such that a rise in the value of the index indicates that it takes more dollars per unit of foreign currency, or that foreign currencies have appreciated relative to the dollar.

If movements in the exchange rate of the dollar were a key factor in driving inflows and outflows of foreign direct investment, then it would be reasonable to assume that the index for the dollar and for foreign direct investment in the United States in Figure 2 would move in similar directions. In other words, a rise in the exchange rate of the dollar to foreign currencies means that it would take more dollars to buy foreign currency, or that the dollar had depreciated in value relative to the foreign currency so that it would be less costly for foreign investors. Then, an appreciation in the value of foreign currencies, and a corresponding depreciation in the value of the dollar, would be accompanied by an increase in foreign direct investment in U.S. businesses because such purchases would be cheaper in foreign currency.
Likewise a depreciation in the value of foreign currencies and an appreciation in the value of the dollar would be expected to be accompanied by a decrease in foreign direct investment in the United States. During the 2000 to 2002 period, this type of relationship seemingly held as the dollar appreciated and foreign direct investment declined. In addition, as the dollar depreciated between 2002 and 2004, foreign direct investment increased. The relationship, however, did not hold after 2004 as the dollar depreciated and as foreign direct investment declined. The similarities between the general trend in foreign direct investment in the U.S. economy and the rate of growth of the U.S. economy, as represented by the index numbers for GDP, lends some support to the conclusion that the rate of growth in the economy is likely to be a more important factor influencing the flows of direct investment than is the exchange rate of the dollar. Direct investment, movements in the exchange rate, and the relative rate of growth in U.S. GDP likely are interrelated in a number of ways that significantly complicates efforts to separate out the various chains of influence to determine direct cause-effect relationships.

**Dollar-Euro**

**Figure 3** shows data for the dollar/euro exchange rate and for direct investment in the United States by euro-area countries. In this figure, a rise in the euro/dollar index indicates an appreciation of the euro relative to the dollar. The data in the figure indicate that direct investment in the United States by euro-area countries during the 1998-2005 period runs counter to the concept that movements in the exchange rate determine flows of direct investment. In fact, as the euro depreciated against the dollar in the 1998-2000 period, direct investment increased and as the euro appreciated between 2000 and 2003, direct investment fell sharply. Euro-area country direct investment in the United States has remained fairly flat since 2003, despite the stronger euro.
Figure 3. Foreign Direct Investment in the United States by Euro-Area Countries and the Dollar/Euro Exchange Rate Index

![Graph showing foreign direct investment in the United States by Euro-Area countries and the Dollar/Euro exchange rate index.](image)

Source: U.S. Department of Commerce

**Dollar-Pound**

Figure 4 shows data for British direct investment in the United States and the dollar/pound exchange rate. Over the 1998-2005 period, the pound appreciated against the dollar until 2001, when it has trended down as the pound depreciated slightly through 2004. From 2004 through 2005, there was little change in the dollar/pound exchange rate. As the pound appreciated against the dollar between 1998 and 2001, British direct investment tumbled sharply in 1999 and 2000, in concert with the slowdown in the rate of growth of U.S. GDP and the height of the value of the pound against the dollar. Since 2002, British direct investment dropped again in 2003, before showing some resurgence in 2004 and 2005, even though the pound generally depreciated against the dollar.
Dollar-Yen

Similar trends are shown in Figure 5, which displays the trend of Japanese direct investment in the United States and the dollar/yen exchange rate index during the 1998-2005 period. An increase in the yen/dollar index indicates an appreciation of the yen relative to the dollar. This figure indicates that Japanese direct investment in the U.S. economy did indeed follow a trend that is somewhat similar to that for the dollar/yen exchange rate, although turning points in the yen/dollar exchange rate do not correlate well with the turning points in direct investment. In fact, the turning points in Japanese direct investment spending occurred prior to changes in the dollar/yen exchange rate, which runs contrary to the concept that the exchange rate is an important factor that determines foreign direct investment. Major turning points in Japanese direct investment in the United States, however, correlate more closely with the overall patterns of U.S. GDP performance than with changes in the dollar/yen exchange rate, indicating that Japanese direct investment in the United States over the 1998-2005 period was influenced more by the relative rate of growth in U.S. GDP than by the dollar/yen exchange rate.
Foreign Direct Investment and Capital Markets

There are a number of factors that complicate efforts to determine a cause-effect relationship between movements in the exchange rate and direct investment. First, both direct investment and the exchange rate are closely related to the relative rate of growth of the domestic economy and it may not be possible to separate out the individual effects. Second, one characteristic of multinational firms is that they utilize foreign and international capital markets. To the extent that firms can raise funds in the market in which they are investing, they can blunt exchange rate effects and weaken an expected relationship between movements in the exchange rate and direct investment. Third, multinational firms have become skilled at using specialized foreign currency markets and foreign currency derivatives that help them reduce the risk and the economic impact of changes in exchange rates. Such activities likely would lessen the impact of changes in exchange rates on direct investment transactions.

Most economists believe that the exchange rate of the dollar generally is determined by the relative long-term performance of the economy, although the exchange rate between any two particular currencies can move abruptly over the short run as a result of factors specific to individual currencies. Efforts to model and

---

predict movements in the exchange rate of the dollar have proven to be particularly vexing because a number of factors can affect the value of the dollar and other currencies in the short run. One factor complicating efforts to determine a cause-effect relationship between movements in the exchange rate and direct investment is the apparent similarity between the inflows and outflows of direct investment, as mentioned previously.

In most cases, it would seem reasonable to assume that inward and outward direct investment generally would move in opposite directions in response to movements in the exchange rate and act somewhat as substitutes for one another. In fact, inward and outward flows of direct investment have tended to trend in the same direction over time. One possible explanation for this similarity is that the inward and outward flows of direct investment are affected by the same underlying forces, principally the relative rate of growth of the U.S. economy compared to other economies. The difficulties involved in unraveling the interrelationships between direct investment flows, the relative rate of growth of various economies, and movements in the exchange rate significantly complicate any efforts to isolate the relationship between direct investment and the exchange rate.

During periods when the U.S. economy is growing at a relatively more rapid pace than are other developed economies, foreign firms are encouraged to invest in U.S. businesses, since profits in those firms would be expected to be strong. At the same time, rising corporate earnings associated with a growing economy would encourage U.S. firms to step up their investment spending both domestically and abroad since the commanding role of the U.S. economy in the global economy means that the performance of the U.S. economy would tend to have a positive effect on economic performance abroad. The advanced development of U.S. and global financial markets and the rapid pace of globalization in trade and investment activities likely means that the U.S. and global economies are becoming increasingly intertwined, which would increase the prospect that economic events would be transmitted more rapidly between the U.S. and other economies.

Strong performance in the U.S. economy also tends to draw in foreign capital in various forms that adds to upward pressure on the dollar, so that the exchange rate of the dollar and the rate of growth in the economy would experience any number of direct, indirect (second-hand), and cross effects (third-hand). Both the rate of growth of U.S. GDP and the exchange rate of the dollar increased through the 1998 to 2000 period. As the rate of growth of the economy slowed in the 2000 to 2002 period, however, the dollar continued to appreciate due in part to the mix of macroeconomic policies in the United States that attracted inflows of capital. Since 2002, however, the exchange rate of the dollar has depreciated against the euro and a broad basket of currencies despite a general improvement in the rate of growth of U.S. GDP.

Sources of Direct Investment Funds

The data in Table 1 also indicate that there are differences between U.S. and foreign firms in the sources of their funds, which likely lessens the impact of movements of the dollar on both U.S. and foreign direct investment. Both U.S. and foreign firms make little use of intercompany debt to finance their investments. Instead, multinational firms raise the bulk of their funds internally or in the particular
foreign markets in which they are operating, especially if those markets are in advanced developed economies. As a result, this apparent preference for host-country sources of financing would reduce the impact of movements in the exchange rate on cross-border flows of direct investment.\textsuperscript{15} Since nearly three-fourths of U.S. direct investment abroad is in highly developed economies with well-developed capital and equity markets similar to those in the United States, U.S. firms generally raise the funds they need in those markets.

In 1998 and 1999 as the U.S. economy was growing at a rapid rate, U.S. multinational firms financed their investments abroad with a combination of equity capital, reinvested earnings, and intercompany debt as the U.S. parent companies loaned funds to their foreign affiliates. Since 1999, intercompany debt has played a smaller role in financing overseas investments. Instead, equity capital and reinvested earnings have accounted for over 90% of the source of funds to the foreign affiliates of U.S. parent companies, with reinvested earnings accounting for about 60% of the funds the foreign affiliates of U.S. firms invested over the 2000-2005 period.

In contrast, the affiliates of foreign firms operating in the United States relied heavily on U.S. equity markets to finance over 80% of their investments during the 1999-2006 period. Reinvested earnings played a significant role in financing the investments of foreign firms only in 2004 and 2005, when the declining value of the dollar combined with the increased rate of growth of the U.S. economy to encourage foreign firms to reinvest the profits they raised in the United States back into their U.S. affiliates. This reliance on domestic sources of capital means that the relative importance of the exchange rate as a factor that affects the investment decisions of firms likely varies over time depending on other economic factors, especially the overall performance of the economy; taxes; and the performance of corporate earnings.

**International Role of the Dollar and Derivatives**

Volatility in the exchange value of the dollar has spurred many multinational firms to act to protect themselves against such fluctuations. As a result, firms and other enterprises that deal in foreign currencies have become accustomed to participating in what is termed “over the counter” currency transactions that are aimed at reducing the risks and mitigating the effects of changes in the exchange value of the dollar. The growth in the U.S. economy and the growth in the international role of the dollar means that the dollar is now heavily traded in financial markets around the globe and, at times, plays the role of a global currency.

The prominent international role of the dollar means that the exchange value of the dollar often acts as a mechanism for transmitting economic and political news.

and events across national borders. While such a role helps facilitate a broad range of international economic and financial activities, it also means that the dollar’s exchange value can vary greatly on a daily or weekly basis as it is buffeted by international events.\(^{16}\) A triennial survey of the world’s leading central banks conducted by the Bank for International Settlements in April 2007 indicates that the \textbf{daily} trading of foreign currencies through traditional foreign exchange markets\(^{17}\) totals more than $3.2 trillion, up sharply from the $1.9 trillion reported in the previous survey conducted in 2004. In addition to the traditional foreign exchange market, the over-the-counter (OTC)\(^{18}\) foreign exchange derivatives market reported that daily turnover of interest rate and non-traditional foreign exchange derivatives contracts reached $2.1 trillion in April 2007. The combined amount of $5.3 trillion for daily foreign exchange trading in the traditional and OTC markets is more than three times the \textbf{annual} amount of U.S. exports of goods and services. The data also indicate that 86.3\% of the global foreign exchange turnover is in U.S. dollars, slightly lower than the 88.7\% share reported in a similar survey conducted in 2004.\(^{19}\)

In the U.S. foreign exchange market, the value of the dollar is followed closely by multinational firms, international banks, and investors who are attempting to offset some of the inherent risks involved with foreign exchange trading. On a daily basis, turnover in the U.S. foreign exchange market\(^{20}\) averages $664 billion; similar transactions in the U.S. foreign exchange derivative markets\(^{21}\) averages $607 billion,
nearly double the amount reported in a similar survey conducted in 2004. Foreigners also buy and sell U.S. corporate bonds and stocks and U.S. Treasury securities. Foreigners now own about 54% of the total amount of outstanding U.S. Treasury securities that are publicly held and traded.

The data in Table 2 provide some selected indicators on the relative sizes of the various capital markets in various countries and regions and the importance of international foreign exchange markets. In total, these markets amounted to $500 trillion in value in 2006. Worldwide, foreign exchange and interest rate derivatives, the most widely used hedges against movements in currencies, were valued at $243 trillion in 2006, nearly 60% larger than the combined total of all public and private bonds, equities, and bank assets. For the United States, such derivatives total twice as much as all U.S. bonds, equities, and bank assets.

<table>
<thead>
<tr>
<th></th>
<th>Bonds, Equities, and Bank Assets</th>
<th>Stock Market Capitalization</th>
<th>Debt Securities</th>
<th>Derivatives</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Public</td>
<td>Private</td>
<td>Total</td>
<td>Bank Assets</td>
</tr>
<tr>
<td>World</td>
<td>$151.8</td>
<td>$50.8</td>
<td>$25.6</td>
<td>$43.1</td>
</tr>
<tr>
<td>European Union</td>
<td>55.5</td>
<td>13.1</td>
<td>7.7</td>
<td>15.5</td>
</tr>
<tr>
<td>European Union</td>
<td>40.8</td>
<td>8.4</td>
<td>6.6</td>
<td>12.2</td>
</tr>
<tr>
<td>United States</td>
<td>50.2</td>
<td>19.6</td>
<td>6.2</td>
<td>20.5</td>
</tr>
<tr>
<td>Japan</td>
<td>20.6</td>
<td>4.8</td>
<td>6.8</td>
<td>2.0</td>
</tr>
</tbody>
</table>


Conclusions

The depreciation of the dollar has raised concerns that the lowered value dollar would lead to a “fire sale” of U.S. firms. Such an increase of foreign direct investment would be of concern to Congress, which has shown a heightened level of interest in the role and presence of foreign-owned firms in the economy since September 11, 2001. There is little academic research and much still to be learned about the role of the exchange rate in the decision-making process of U.S. and

---


foreign multinational firms, but movements in the exchange rate do not appear to be a major factor in driving those investment decisions. While U.S. and foreign direct investment were both higher in 2006 than they were in 2005, neither U.S. direct investment abroad nor foreign direct investment in the United States seems to be tied too strongly to the depreciation of the dollar. There does appear to be a complex set of relationships that connect direct investment, the relative rate of growth in the economy, and movements in the exchange rate, but it is difficult to unwind these relationships to determine the relative importance of each factor. A cursory examination of the available data seems to indicate that the relative rates of growth between the U.S. and foreign economies likely is the most important factor in driving direct investment transactions.

As U.S. and foreign firms become more adept at utilizing foreign capital markets and foreign currency derivatives, they likely are reducing the importance of fluctuations in currencies as a major factor in some of their investment decisions. Nevertheless, firms likely do consider the movements in currencies and the relative values of currencies as they determine the disposition of corporate earnings. In some cases, the depreciation of the dollar relative to the euro caused foreign firms operating in the United States to retain the earnings from those operations to invest in the United States rather than to return those profits to the parent company at a depreciated value. Over the near term, more developing countries are expected to reduce national restrictions to foreign direct investment and more firms from both developed and developing countries are expected to engage in the direct investment process. As a result, these firms likely will participate more extensively in international capital markets and place added pressure on global and local capital markets as sources of funds and likely act as agents of reform in the capital markets of developing countries. In addition, the proliferation of financial techniques, communications technology, and currency hedging strategies means that it will become even more challenging to untangle the direct and indirect factors that might determine specific cause-effect linkages between direct investment and movements in exchange rates.