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Foreign Holdings of Federal Debt

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Summary

This report presents current data on ownership of U.S. Treasury securities and major holders of federal debt by country. Federal debt represents the accumulated balance of borrowing by the federal government. The gross debt is composed of debt held by the public and intragovernmental debt held by federal trust funds. To finance the publicly held debt, U.S. Treasury securities are sold to investors. Treasury securities may be purchased directly from the Treasury or on the secondary market by individual private investors; the Federal Reserve; financial institutions in the United States or overseas; and foreign, state, or local governments.

As of December 2023, there was \$26.2 trillion of Treasury securities outstanding, up from \$16.6 trillion in December 2019, a \$9.6 trillion increase (figures are rounded). During the same period, foreign holdings of debt increased by \$1.1 trillion to a total of approximately \$8.1 trillion. After staying relatively flat in dollar terms for several years, overall foreign holdings increased in 2019-2021, fell in 2022, then jumped in 2023. Because the total debt has increased faster than the debt held by foreigners, the share of federal debt held by foreigners has declined in recent years. In December 2023, foreigners held 31% of the publicly held debt. Interest on the debt paid to foreigners in 2023 was \$197.5 billion.

Foreign holdings can be divided into official (governmental investment) and private sources: 47.7% (\$3.8 trillion) of foreign holdings in U.S. federal debt are held by governmental sources, and private investors hold the other 52.3% (\$4.2 trillion).

Including private investors and governments, the top three estimated foreign holders of federal debt by country, as of December 2023, are Japan (\$1.1 trillion), China (\$0.8 trillion), and the United Kingdom (\$0.7 trillion). Based on these estimates, Japan holds approximately 14.3% of all foreign investment in U.S. publicly held federal debt, China holds approximately 10.3%, and the United Kingdom holds approximately 8.5%.

From an economic perspective, foreign holdings of federal debt can be viewed in the broader context of U.S. savings, investment, and borrowing from abroad. For decades, the United States has saved less than it invests. Domestic saving is composed of saving by U.S. households, businesses, and governments. By accounting identity, when the government runs budget deficits, it reduces domestic saving. By the same accounting identity, the shortfall between U.S. saving and physical investment is met by borrowing from abroad. To be a net borrower from abroad, the United States must run a trade deficit (i.e., it must buy more imports from foreigners than it sells in exports to foreigners). Borrowing from abroad has occurred through foreign purchases of both U.S. government and U.S. private securities and other assets.

As a result of foreign purchases of Treasury securities, the federal government must send U.S. income abroad to foreigners. If the overall economy is larger as a result of federal borrowing (because the borrowing stimulated economic recovery or was used to productively add to the U.S. capital stock, for example), then this outcome may leave the United States better off overall on net despite the transfer of income abroad. In other words, without foreign borrowing, U.S. income would be lower than it currently is net of foreign interest payments in this scenario.

Contents

Selected Statistics on Foreign Holdings of Federal Debt 1
Foreign Investment in U.S. Federal Debt: Why Is It an Issue of Concern? 5

Figures

Figure 1. Foreign and Domestic Holdings of Treasury Securities (1945-2023)..... 2
Figure 2. Composition of Foreign Holdings of U.S. Treasury Securities (2002-2023)..... 4
Figure 3. Breakdown of Official Versus Private Foreign Holdings of U.S. Federal Debt..... 5

Tables

Table 1. Estimated Ownership of U.S. Treasury Securities (2019-2023)..... 2
Table 2. Top 10 Foreign Holders of Federal Debt, by Country 3

Contacts

Author Information..... 8
Acknowledgments 8

Selected Statistics on Foreign Holdings of Federal Debt

Federal debt represents, in large measure, the accumulated balance of federal borrowing of the U.S. government. The gross debt is composed of debt held by the public and intragovernmental debt held by federal trust funds. Although gross federal debt is the broadest measure of the debt, the debt measure that is relevant in an economic sense is debt held by the public. This is the measure of debt that has actually been sold in credit markets and has influenced interest rates and private investment decisions. Intragovernmental debt, by contrast, is both an asset and a liability to the federal government.

The portion of gross federal debt held by the public consists primarily of investment in marketable U.S. Treasury securities (i.e., bills, bonds, and notes traded in private markets).¹ Investors in the United States and abroad include official institutions, such as the U.S. Federal Reserve and foreign central banks; financial institutions, such as commercial banks; and private individual investors.

Table 1 provides December 2019 through December 2023 data, available as of June 2024, on estimated ownership of U.S. Treasury securities by type of investment and the percentage of that investment attributable to foreign investors.²

The table shows that during this period, foreign holdings of debt increased by \$1.1 trillion to approximately \$8.1 trillion. After staying relatively flat in dollar terms for several years, overall foreign holdings increased in 2019-2021, fell in 2022, and then jumped in 2023. During the same period, total publicly held debt increased by approximately \$9.6 trillion from \$16.6 trillion to \$26.2 trillion.³ Because the total debt has increased faster than the debt held by foreigners, the share of federal debt held by foreigners has declined in recent years. In December 2023, foreigners held 31% of the publicly held debt.⁴ Interest on the debt paid to foreigners in 2023 was \$197.5 billion.⁵

¹ Current data on federal debt held by the public are available on the Department of the Treasury's Fiscal Data website, "The Debt to the Penny," <https://fiscaldata.treasury.gov/datasets/debt-to-the-penny/debt-to-the-penny>. See CRS Report R44383, *Deficits, Debt, and the Economy: An Introduction*, by Grant A. Driessen.

² This report discusses foreign holdings of U.S. federal debt. Foreign investors also hold U.S. private securities. For data on foreign holdings of U.S. private securities, see "Portfolio Holdings of U.S. and Foreign Securities," <https://home.treasury.gov/data/treasury-international-capital-tic-system-home-page/tic-forms-instructions/securities-b-portfolio-holdings-of-us-and-foreign-securities>, produced by the Treasury Department International Capital System.

³ Figures are rounded.

⁴ Data are excerpted from the Board of Governors of the Federal Reserve System's flow of funds data, Table L.210 in *Financial Accounts of the United States* (Z.1). A small amount of publicly held debt is nonmarketable and includes savings bonds and debt issued to state and local governments.

⁵ Bureau of Economic Analysis (BEA), International Transactions, Table 4.3, line 39. No data are available for interest on the debt paid to individual countries.

Table I. Estimated Ownership of U.S. Treasury Securities (2019-2023)
(in trillions of dollars)

End of Month	Total Debt	Foreign Holdings	Foreign Holdings as a Share of Total Debt
Dec. 2023	\$26.2	\$8.1	31%
Dec. 2022	\$23.8	\$7.3	31%
Dec. 2021	\$22.6	\$7.7	34%
Dec. 2020	\$20.9	\$7.3	35%
Dec. 2019	\$16.6	\$6.9	42%

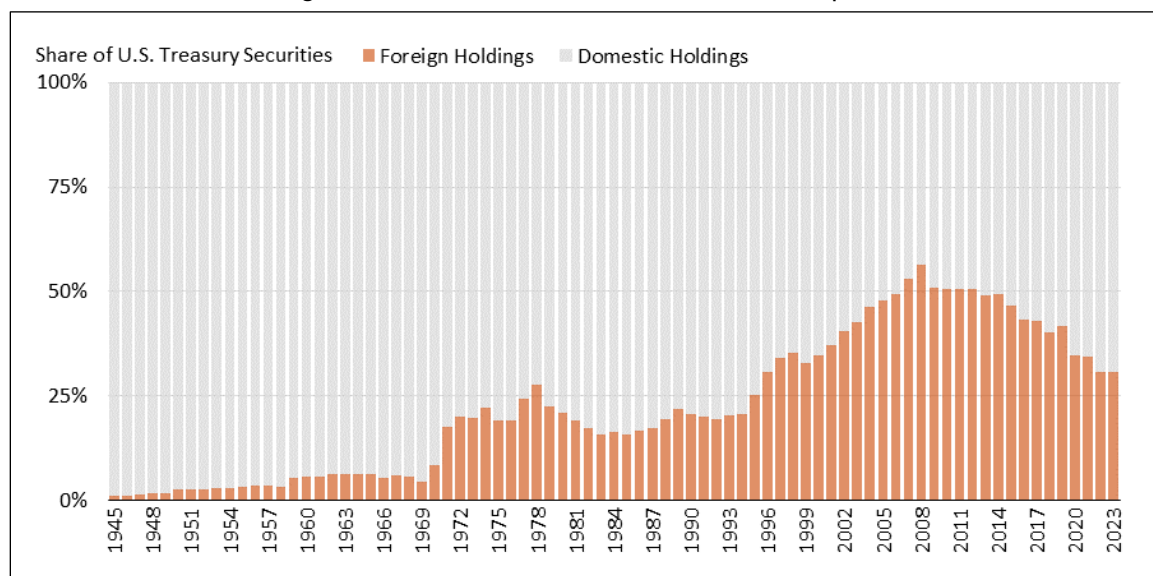
Source: Board of Governors of the Federal Reserve System, *Financial Accounts of the United States (Z.1)*, Table L.210 (Treasury Securities), via Data Download Program at <https://www.federalreserve.gov/datadownload>.

Notes: Table includes marketable Treasury securities held by the public. Data current as of June 10, 2024.

Figure 1 shows the foreign share of total Treasury securities outstanding over time since 1945.

Figure I. Foreign and Domestic Holdings of Treasury Securities (1945-2023)

Figure is interactive in the HTML version of this report.



Source: Created by CRS. Data from Board of Governors of the Federal Reserve System, *Financial Accounts of the United States (Z.1)*, Table L.210 (Treasury Securities), via Data Download Program at <https://www.federalreserve.gov/datadownload>.

Notes: Table includes marketable Treasury securities held by the public. Data current as of June 10, 2024.

Table 2 provides data on major foreign holders of federal debt by country.⁶ The top three estimated foreign holders of federal debt by country, ranked in descending order as of December 2023, are Japan (\$1.1 trillion), China (\$0.8 trillion), and the United Kingdom (\$0.7 trillion). Based on these estimates, Japan holds approximately 14.3% of all foreign investment in U.S.

⁶ A Chinese investor who buys U.S. securities and keeps them in the custody of a Belgian bank would have those assets counted under Belgium, not Mainland China. This helps explain why such large holdings appear in major banking hubs (e.g., Belgium, Caribbean countries, Luxembourg, Switzerland).

privately held federal debt, China holds approximately 10.3%, and the United Kingdom holds approximately 8.5%.⁷ While China remains a large holder of federal debt, its holdings have fallen in both nominal terms and as a share of total foreign holdings.

Table 2. Top 10 Foreign Holders of Federal Debt, by Country

Country	December 2023		Country	December 2019	
	Amount Held (\$ billions)	Percentage of All Foreign Holdings in Federal Debt		Amount Held (\$ billions)	Percentage of All Foreign Holdings in Federal Debt
Japan	\$1,136.7	14.30%	Japan	\$1,155.2	16.88%
Mainland China	\$816.3	10.27%	Mainland China	\$1,069.9	15.63%
United Kingdom	\$679.2	8.55%	United Kingdom	\$392.1	5.73%
Luxembourg	\$370.7	4.66%	Ireland	\$281.9	4.12%
Canada	\$336.1	4.23%	Brazil	\$281.8	4.12%
Ireland	\$331.5	4.17%	Luxembourg	\$254.6	3.72%
Belgium	\$314.4	3.96%	Hong Kong	\$249.7	3.65%
Cayman Islands	\$305.4	3.84%	Cayman Islands	\$238.2	3.48%
Switzerland	\$287.9	3.62%	Switzerland	\$237.5	3.47%
Taiwan	\$252.5	3.18%	Belgium	\$207.4	3.03%
Total top 10 countries of foreign investors in federal debt	\$4,830.7	60.8%	Total top 10 countries of foreign investors in federal debt	\$4,368.3	63.8%
Total all foreign investment in federal debt	\$7,946.5	100%	Total all foreign investment in federal debt	\$6,844.2	100%

Source: Treasury Department International Capital System (TIC), <https://www.treasury.gov/resource-center/data-chart-center/tic/Documents/mfhhis01.txt>.

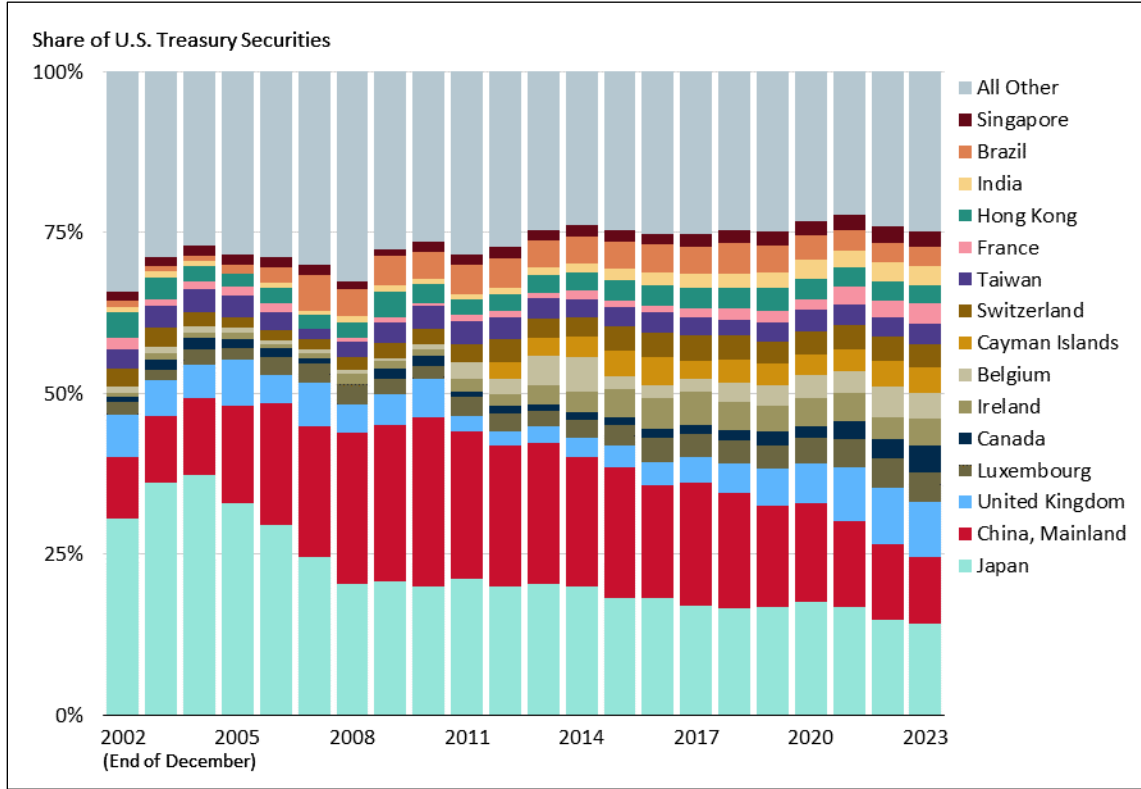
Notes: Data, including estimated foreign holders of federal debt historically by month, in these Treasury Department tables are periodically adjusted. Aggregate data totals in **Table 1** vary slightly from aggregate data totals in **Table 2** because of minor technical differences between the two sources. Percentage approximations calculated by CRS. Percentages may not sum to 100% due to rounding. Data current as of June 10, 2024.

Figure 2 shows the changing composition of foreign holdings over time since 2002.

⁷ The Treasury Department estimates foreign holdings based on the location of the holdings, not the nationality of the holder.

Figure 2. Composition of Foreign Holdings of U.S. Treasury Securities (2002-2023)

Figure is interactive in the HTML version of this report.



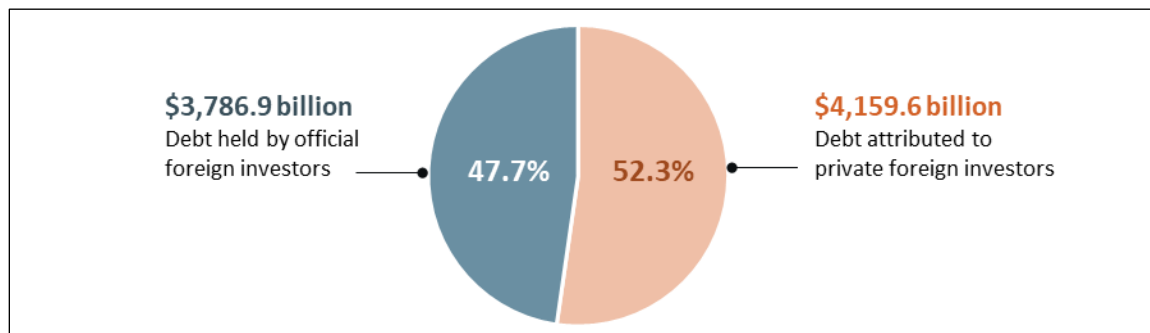
Source: Created by CRS. Data from U.S. Department of the Treasury, Treasury International Capital (TIC) System, at <https://ticdata.treasury.gov/resource-center/data-chart-center/tic/Documents/mfhhis01.txt>.

Notes: The Treasury Department’s data track the location of an asset, not its owner’s nationality. Not all countries have data for all years. “All Other” may not represent the same countries in each year. After 2011, the “Caribbean Banking Centers” and “Oil Exporters” groups are replaced by individual countries. Data current as of June 10, 2024.

Foreign holdings can be divided into official (government/central bank) and private sources.

Figure 3 provides data on the current breakdown of estimated foreign holdings in U.S. federal debt. As the chart shows, governmental sources hold 47.7% (\$3.8 trillion) of foreign holdings in U.S. federal debt. Private investors hold the other 52.3% (\$4.2 trillion). The breakdown between estimated official and private holdings is not publicly available on a country-by-country basis.

Figure 3. Breakdown of Official Versus Private Foreign Holdings of U.S. Federal Debt
December 2023



Source: Created by CRS. Data from U.S. Department of the Treasury, Treasury International Capital (TIC) System, <https://ticdata.treasury.gov/resource-center/data-chart-center/tic/Documents/mfhhis01.txt>.

Notes: Approximate percentages calculated by CRS. Data current as of June 10, 2024.

Foreign Investment in U.S. Federal Debt: Why Is It an Issue of Concern?

From an economic perspective, foreign holdings of federal debt can be viewed in the broader context of U.S. saving, investment, and borrowing from abroad. For decades, the United States has saved less than it invests. Domestic saving is composed of saving by U.S. households, businesses, and governments. By accounting identity,⁸ when the government runs budget deficits, it reduces domestic saving. By the same accounting identity, the shortfall between U.S. saving and physical investment is met by borrowing from abroad. When the deficit rises (i.e., public saving falls), U.S. investment must fall (referred to as the deficit *crowding out* investment) or borrowing from abroad must rise. If capital were fully mobile and unlimited, a larger deficit would be fully matched by greater borrowing from abroad, and there would be no crowding out of domestic investment.

By accounting identity, to be a net borrower from abroad, the United States must run a current account deficit. The trade deficit is the largest component of the current account deficit.⁹ In other words, to be a net borrower, the United States must buy more imports from foreigners than it sells in exports to foreigners. Since 2000, U.S. borrowing from abroad and the trade deficit have each exceeded \$300 billion each year. Borrowing from abroad equaled \$832 billion in 2023, down from a high of \$976 billion in 2022.¹⁰ Borrowing from abroad has occurred through foreign purchases of both U.S. government and U.S. private securities and other assets.¹¹

As a result of foreign purchases of Treasury securities, the federal government must send U.S. income abroad to foreigners. If the overall economy is larger as a result of federal borrowing

⁸ The accounting identity is (household saving + business saving + government saving) + (borrowing from abroad - lending to abroad) = (public investment + private investment).

⁹ The current account also includes net income and transfer payments made by the United States.

¹⁰ BEA, *U.S. International Transactions*, Table 1.2, line 116.

¹¹ For more information, see CRS In Focus IF10619, *The U.S. Trade Deficit: An Overview*, by Andres B. Schwarzenberg.

(because the borrowing stimulated economic recovery¹² or was used to productively add to the U.S. capital stock, for example), then this outcome may leave the United States better off overall on net despite the transfer of income abroad. In other words, without foreign borrowing, U.S. income would be lower than it currently is net of foreign interest payments in this scenario.

It can be argued that the underlying long-term economic issue is the budget deficit itself and not that the deficit is financed in part by foreigners. This can be illustrated by the counterfactual. Assume the same budget deficits and U.S. saving rates without the possibility of foreign borrowing. In this case, budget deficits would have had a much greater crowding-out effect on U.S. private investment, because only domestic saving would have been available to finance both. The pressures the deficit has placed on domestic saving would have pushed up interest rates throughout the economy and caused fewer private investment projects to be profitably undertaken. With fewer private investment projects, overall GDP would have been lower over time relative to what it would have been. The ability to borrow from foreigners avoids the deleterious effects on U.S. interest rates, private investment, and GDP, to an extent, even if it means that the returns on some of this investment now flow to foreigners instead of Americans. In other words, all else equal, foreign purchases of Treasury securities reduce the federal government's borrowing costs and reduce the costs the deficit imposes on the broader economy.

The burden of a foreign-financed deficit is borne by exporters and import-competing businesses, because borrowing from abroad necessitates a trade deficit. It is also borne by future generations, because future interest payments will require income transfers to foreigners.¹³ To the extent that the deficit crowds out private investment rather than being financed through foreign borrowing, its burden is also borne by future generations through an otherwise smaller GDP. As interest rates have increased in recent years, interest paid on Treasury securities (to both Americans and foreigners)¹⁴ has risen rapidly. If rates do not fall, the burden will continue to rise as old debt matures and is rolled over into new debt instruments with higher rates.

Thus far, this report has considered the impact of the government's budget deficit and the low U.S. saving rate on U.S. Treasury yields but not investor demand. Since interest rates fell to historic lows at a time when the supply of Treasury securities rose to historic heights, it follows that Treasury rates have been driven mainly by increased investor demand in recent years. In the wake of the 2008 financial crisis and again during the COVID-19 pandemic, investor demand for Treasury securities increased as investors undertook a *flight to safety*. Treasury securities are perceived as a *safe haven* compared with other assets because of low perceived default risk and greater liquidity (i.e., the ability to sell quickly and at low cost) than virtually any alternative asset. For foreign investors, their behavior also implies that they view the risk from exchange rate changes of holding dollar-denominated assets to be lower than alternative assets denominated in other currencies. The reasons for this flight to safety are varied. For example, investors who had previously held more risky assets may become more averse to risk and seek to minimize their loss exposure; investors may not see profitable private investment opportunities and choose to hold their wealth in Treasury securities as a *store of value* until those opportunities arise; or investors may need Treasury securities to post as collateral for certain types of transactions (such as

¹² For a discussion of how government deficits can stimulate the economy, see CRS Report R45723, *Fiscal Policy: Economic Effects*, by Lida R. Weinstock.

¹³ See CRS Report RL30520, *The National Debt: Who Bears Its Burden?*, by Marc Labonte. Income transfers to domestic debt holders have no net cost on the United States because they transfer income from one group of Americans (taxpayers) to another (bond holders).

¹⁴ Bureau of Economic Analysis (BEA), International Transactions, Table 4.3, line 39.

repurchase agreements) where previously other types of collateral could be used (or used at low cost).

Flight-to-safety considerations have subsided as economic conditions have normalized, reducing the incentive for foreigners to buy Treasuries and raising their yields, all else equal. But Treasury securities are also sought out by international investors because of the dollar's unique role as the world's *reserve currency*. As a result, Treasury securities are in permanent demand as underlying collateral in financial transactions and as a temporary store of value while trade or financial transactions are being executed. Treasury securities may also be relatively attractive compared to other government's bonds because, for a variety of reasons, Treasury yields tend to be slightly higher, when adjusted for risk.

More normal economic conditions have also increased domestic investment demand, which has both pushed up domestic interest rates and lead to more foreign borrowing. This relative movement in rates could attract additional foreign capital inflows.

Additionally, any discussion of foreign holdings of Treasuries would be incomplete without a discussion of the large holdings of foreign governments (referred to as *foreign official holdings* in **Figure 3**).¹⁵ Foreign official holdings are motivated primarily by a desire for a liquid and stable store of value for foreign reserves. Relatively few assets besides U.S. Treasury securities fill this role well. Depending on the country, foreign reserves may be accumulated as a result of a country's exchange rate policy, the desire to reinvest export proceeds, or the desire to build a *war chest* to fend off speculation against the country's exchange rate and securities. If motivated by any of these factors, rate of return may be a lesser consideration for foreign governments than it is for a private investor, although large, foreign official holdings have not been significantly increasing since 2013—and peaked in 2020—after more than a decade of rapid growth before then.

Since 1986, the United States has had a net foreign debt, and that debt was roughly \$19.8 trillion in 2023.¹⁶ Additional growth in net foreign debt would be unsustainable in the long run if it grows faster than GDP, as it has generally done in recent decades. This net foreign debt has not imposed any burden on Americans thus far, however, because the United States has consistently earned more income on its foreign assets than it has paid on its foreign debt, even though foreigners owned more U.S. assets than Americans owned foreign assets. Although it is likely that the United States would begin to make net debt payments to foreigners at some point if the net foreign debt were to continue to grow, it has not occurred yet. To date, the primary drawback is the risk that its unsustainable growth poses, although that risk is slight in the short run. Unsustainable growth in the net foreign debt could lead to foreigners at some point reevaluating and reducing their U.S. asset holdings. If this happened suddenly, it could lead to financial instability and a sharp decline in the dollar's value. Alternatively, were the growth in the debt to decline gradually, it is unlikely to be destabilizing.¹⁷

¹⁵ Department of the Treasury, *Major Foreign Holders of Treasury Securities*, <http://www.treasury.gov/resource-center/data-chart-center/tic/Documents/mfh.txt>.

¹⁶ BEA, *U.S. International Investment Position*, Table 1.1, Line 1. The net foreign debt is the difference in value between the foreign assets and foreign liabilities of U.S. residents.

¹⁷ The “safe haven” role of Treasuries and “reserve currency” role of the dollar have led to counterintuitive outcomes—lower Treasury yields in response to U.S. events with systemic risk potential, such as the subprime mortgage crisis and the federal debt downgrade. These counterintuitive outcomes make it even harder to accurately predict when the debt might become unsustainable and perhaps make a destabilizing reversal of capital flows less likely compared with other countries.

A related concern is whether the major role of foreigners in Treasury markets adds more risk to financial stability. In other words, would financial stability be less at risk if the United States borrowed the same amount from foreigners, but foreigners invested exclusively in private securities instead of U.S. Treasury securities? Empirical evidence does not shed much light on this question, although the fact that some foreign countries that experienced debt crises, such as Ireland, had accumulated mainly private, not government, debts might suggest that avoiding foreign ownership of government debt is not a panacea. Although countries such as Greece with large foreign holdings of government debt have experienced financing problems, a large share of Italy's large government debt was held domestically, and it has nevertheless faced financing problems. The major role of foreign governments as holders of U.S. Treasuries could reduce financial instability if foreign governments are less motivated by rate-of-return concerns, because that implies they would be less likely to sell their holdings if prices started to fall. Finally, foreign official holdings of U.S. debt may have foreign policy (as opposed to economic) implications that are beyond the scope of this report.

What policy options exist if policymakers decided foreign ownership of federal debt is undesirable? Absent strict capital controls, it is unlikely that foreigners could effectively be prevented from buying Treasury securities. After Treasury securities are initially auctioned by Treasury, they are traded on diffused and international secondary markets, and turnover is much higher on secondary markets than on initial auctions. A foreign ban on secondary markets would be hard to enforce because secondary market activity could shift overseas, and even if it could be enforced, the U.S. saving-investment imbalance would likely shift foreign investment into other U.S. securities—perhaps even newly created financial products that allowed foreigners to indirectly invest in Treasury securities. Thus, a ban would not address the underlying economic factors driving foreign purchases. Economically, the only way the U.S. government could reduce its reliance on foreign borrowing is by raising the U.S. saving rate, which could be done most directly by reducing budget deficits. Reducing deficits too quickly could be counterproductive, however, if it undermined an economic recovery.

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