

Ownership-Based Framework of the Current Account of the U.S. International Transactions Accounts: Technical Documentation

I. Introduction

The ownership-based framework was developed in response to interest in examining international transactions to reflect the increasing importance of multinational enterprises (MNEs) in world economies and, particularly, the growing tendency of these enterprises to use locally established affiliates to deliver goods and services to international markets.¹ The ownership-based framework was introduced as a regular BEA product in the October 1995 *Survey of Current Business*.² Statistics under the framework were published and featured in a *Survey* article, “An Ownership-Based Framework of the U.S. Current Account,” that was published annually through 2022.³ In recent years, the statistical presentation consisted of two tables: table 1, which presented historical statistics for 1982-1998, and table 2, which presented statistics for 1999 through the latest year for which source data from the current account were available.

In February 2022, the final article and statistical presentation of the ownership-based framework series were published. The statistics published in the final installment of the series are available on the [BEA website](#); however, future updates to the source data used to compile the framework will render the statistics in table 2 of the 2022 statistical publication obsolete. Because the entire ownership-based framework statistical presentation is constructed based on publicly available BEA statistics, data users may extend the series on their own to accommodate future releases of new and revised statistics.

The remainder of this technical documentation proceeds as follows. Part II presents background and features of the ownership-based framework. Part III presents information to assist users in constructing the series following its discontinuation, including revision cycles and availability of components of the framework, directions on obtaining source data on the BEA website, and details on using BEA-provided templates to compile the framework. Part V discusses sample calculations for 2019-2020, and an appendix

¹Among the calls for more information on ownership was a National Academy of Sciences study panel. See Anne Y. Kester, ed., *Behind the Numbers: U.S. Trade in the World Economy*, National Research Council, Panel on Foreign Trade Statistics (Washington, DC: National Academy Press, 1992).

² Whichard, Obie and Jeff Lowe, “An ownership-based disaggregation of the U.S. current account, 1982-93,” *Survey of Current Business*, 75 (October 1995): 52-61.

³ The last article in the series was published in the [February 2022 Survey](#). In the most recent years, the article was typically published in either the January or February issue each year.

provides additional details on certain aspects of the templates.

II. Background and Features of the Ownership-Based Framework

In the conventionally constructed current account of the International Transactions Accounts (ITAs), the trade balance reflects only the goods and services that are delivered to international markets through cross-border exports and imports. This balance is an important indicator of U.S. performance in foreign markets; it reflects the net value of the transactions in goods and services between U.S. residents and foreign residents.⁴ In the ITAs, affiliate companies owned by parent companies in other countries are treated as residents of their countries of location rather than as residents of the countries of their owners. As a result, sales of goods and services to foreign customers by foreign affiliates of U.S. enterprises are not accounted for as U.S. exports, and sales to U.S. customers by U.S. affiliates of foreign enterprises are not accounted for as U.S. imports.

In the ownership-based framework, a balance is presented in which net income receipts from sales by affiliates are combined with exports and imports of goods and services. Specifically, the net income receipts that accrue to U.S. parents from the sales by their foreign affiliates are combined with sales to foreign residents by U.S. residents (U.S. exports of goods and services), and the net payments that accrue to foreign parents from the sales by their U.S. affiliates are combined with sales to U.S. residents by foreign residents (U.S. imports of goods and services). The presentation reflects the perspective that trade and sales through affiliates both represent methods of active participation in international markets for goods and services and that the difference between these receipts and payments is an indicator of the net effect of United States-foreign commerce on the U.S. economy.

Like the standard presentation of the balance of payments, the ownership-based framework maintains residency as the boundary between domestic and international transactions. However, the ownership-based framework supplements the standard presentation in a few ways.

It highlights the fact that direct investment income on a directional basis can be interpreted as arising from affiliate sales.

Conceptually, the ownership-based framework is fully consistent with the current account in the conventional ITAs, except that an adjustment is made to convert direct investment income from an asset/liability basis to a directional basis. The directional basis is more appropriate than the asset/liability

⁴ Residency applies equally to individuals and to companies and other institutional units.

basis for the ownership-based framework because the directional basis groups (nets) income receipts from and income payments to foreign affiliates together into a single aggregate and, similarly, it groups income payments to and income receipts from foreign parents into a single aggregate.⁵ Because the balance on direct investment income is the same on the directional basis as on the asset/liability basis, the current-account balance in the ownership-based framework (table 2, line 70) is the same as in the conventional ITAs.

Grouping the income from affiliates with trade in goods and services emphasizes the active role that parent enterprises typically take in managing and coordinating their affiliates' operations. The direct investment income from affiliates differs in certain respects from income on other types of investments. For example, for U.S. direct investment abroad, direct investment income represents U.S. parents' returns on sales that for reasons such as efficiency, transportation costs, or the avoidance of trade barriers are made by foreign affiliates rather than by the U.S. parent themselves.⁶ In many cases, a portion of the income from affiliates may be regarded as a kind of implicit management fee that compensates parents for undertaking active roles in the operations of their affiliates. In contrast, other types of investment income primarily represent returns on passive investments, such as foreign stocks and bonds.

In the ownership-based balance, only the net receipts that accrue to the U.S. parents (table 2, line 20), not the gross value of sales by their foreign affiliates (table 2, line 21), are included. The portion of gross value of sales by foreign affiliates that represents foreign contributions (such as labor, capital, purchased inputs, and profits accruing to foreign persons), and for which the resulting income accrues to the foreign economy, is excluded.⁷ The measure of net receipts by U.S. parents of direct investment income resulting from sales by their foreign affiliates also excludes (thereby avoiding double-counting) two other contributions to the gross value of sales: sales by foreign affiliates to other foreign affiliates of the U.S. parent (table 2, line 26) and foreign affiliates' imports from the United States (table 2, line 22).

Similarly, only the net payments that accrue to foreign parents (table 2, line 54), not the gross value of sales by their U.S. affiliates (table 2, line 55), are included in the ownership-based balance. The measure of

⁵ In contrast, on an asset/liability basis, direct investment income receipts sum all returns on direct investment assets, whether the asset is held (or equivalently, the income is received) by a U.S. parent or by a U.S. affiliate of a foreign parent. Similarly, direct investment income payments sum all payments on direct investment liabilities, whether the liability is owed to a foreign parent or to a foreign affiliate of a U.S. parent.

⁶ Direct investment income, on the directional basis used in the ownership-based framework, consists of net receipts of earnings and of interest by parents from their affiliates.

⁷ Intracompany sales among foreign affiliates are netted out in the measurement of direct investment income net receipts (table 2, line 20).

net payments to foreign parents of direct investment income resulting from sales by their U.S. affiliates excludes the portion of the gross value of sales by U.S. affiliates that represents U.S. contributions for which the resulting income accrues to the U.S. economy. The measure also removes the value of U.S. affiliates' purchases of goods and services from abroad (table 2, line 56).

The addenda to table 2 presents a first-order approximation of the U.S. and foreign content of affiliates' production. For foreign affiliates, it breaks down foreign content between foreign affiliates' own value-added (table 2, line 73) and other foreign content; similarly, U.S. affiliates' U.S. content is broken down between their own value added (table 2, line 78) and other U.S. content.⁸

It breaks down trade in goods and services into ownership-based components.

In addition, the framework provides information on ownership relationships by disaggregating trade in goods and services into trade between affiliated parties (that is, trade within multinational enterprises) and trade between unaffiliated parties. Affiliated transactions are further broken down to separately present trade with foreign affiliates of U.S. parents and trade with foreign parent groups of U.S. affiliates.

It includes a summary measure “balance on goods, services, and net receipts from sales by affiliates”

The framework includes a summary measure, “balance on goods, services, and net receipts from sales by affiliates” (table 2, line 69), which is computed as:

$$\text{Receipts resulting from exports of goods and services and sales by foreign affiliates} \quad - \quad \text{Payments resulting from imports of goods and services and sales by U.S. affiliates}$$

where [receipts resulting from] sales by foreign affiliates refers to net receipts by U.S. parents of direct investment income (on a directional basis) (table 2, line 4) and [payments resulting from] sales by U.S. affiliates refers to net payments to foreign parents of direct investment income (on a directional basis) (table 2, line 38). This balance combines net income on outward and inward direct investment along with the traditional balance on trade in goods and services.

⁸ The allocation of U.S. and foreign content is only a first-order approximation because it implicitly assumes that all foreign-affiliate purchases from the United States (and all U.S.-affiliate purchases from abroad) represent content that is entirely U.S. (foreign) and that all other purchases represent content that is entirely foreign (U.S.).

III. Constructing the Ownership-Based Framework of the Current Account

A. Notice on discontinuation of the series

Historically, table 2 of the ownership-based framework, which covers 1999 onward, was updated annually in January or February using the most recently published ITA, international services, and AMNE statistics. At the same time, an article in the *Survey of Current Business* was published presenting highlights of the updated statistics. The February 2022 article and statistical presentation were the last in the ownership-based framework series. Ownership-based framework estimates for the 2022 presentation of table 2 covered 1999-2020 for certain data items and 1999-2019 for the rest of the data items. Source data through 2020 came from annual ITA statistics released in June 2021 and from international services statistics released in July 2021.⁹ Source data through 2019 came from the latest inward and outward AMNE statistics available. Preliminary AMNE statistics for 2019 and revised AMNE statistics for 2018 were released in August 2021 (inward statistics) and November 2021 (outward statistics). Revised AMNE statistics for earlier years were published three years after the reference year.¹⁰

Although the historical ownership-based framework presentation will remain available on the BEA website, data users are advised that future updates to the ITAs, international services, and revised AMNE statistics will render the statistics in table 2 of the 2022 statistical publication obsolete.¹¹ Historical statistics presented in table 1, which cover 1982-1998, are not expected to change in the future because revisions to the ITA and international services statistics do not typically go back earlier than 1999.

For data users interested in extending the ownership-based framework series past its final (February 2022) publication, the remainder of this technical documentation will identify the requisite source data and will detail how those source data are used in table 2.

B. Future revisions and availability of the components of the framework

The entire ownership-based framework statistical presentation in table 2 is constructed based on publicly available ITA, international services, and AMNE statistics. Data users are advised to extend the ownership-

⁹ For more information about the 2021 annual update, see Ami Adjoh-Baliki and Jason Sutterley, "[Annual Update of the U.S. International Transactions Accounts](#)," *Survey* 101 (July 2021).

¹⁰ For more information about the U.S. direct investment abroad survey results, see the BEA [website](#). For more information about foreign direct investment in the United States survey results, see the BEA [website](#).

¹¹ Each June and July, three or more years (potentially back to 1999) of ITA and international services statistics are revised. Each August and November, preliminary AMNE statistics published the previous year are revised. Unlike the ITA and international services statistics, AMNE statistics are only revised once (except in very rare cases).

based framework statistics between December and May.¹² Otherwise, updates of certain, but not all, source-data components will be available, resulting in mismatches in source-data vintages and availability compared to those underlying BEA’s published presentation of table 2.

The annual ITA statistics are published in March following the close of the reference year. Those statistics are subject to revision in at least the subsequent three revision cycles but may be revised for a longer period. International services statistics are released in the summer following the close of the reference year and are revised at least twice. AMNE statistics are release in either August or November of the year two years after the reference year; AMNE statistics are typically revised only once, one year after their initial release.¹³

The sources used to compile the framework are detailed in the next section. In addition, a summary of data sources used in both table 2 and historical table 1, is available on the [BEA website](#).

C. Obtaining data from bea.gov

As indicated above, three main types of BEA statistics are used in compiling the ownership-based framework: ITA, international services, and AMNE statistics. This section covers where to access the necessary information on the BEA website.

International Transactions Accounts

Table 1.2

Go to the [International Transactions Accounts \(ITAs\)](#) interactive data table application (iTables)



- Select the table of interest: 1.2. U.S. International Transactions, Expanded Detail
- Modify  to get **All years** on an **Annual** basis. (*Covers 1999 – latest available*)
- Download  (XLS)



Table 4.2

Go to the [International Transactions Accounts \(ITAs\)](#) iTables

- Select the table of interest: 4.2. U.S. International Transactions in Primary Income on Direct Investment

¹² The first opportunity to extend table 2 beyond the final published presentation would therefore be from December 2022 to May 2023.



¹³ For example, preliminary statistics for 2019 were released in August and November 2021; revised statistics for 2019 will be released in August and November 2022.

- Modify  to get **years 1999 to latest available** on an **Annual** basis. **Note:** do not select “All years” because this series goes back to 1982, and the inclusion of extra years will prevent the template from being properly completed.
- Download  (XLS)

International Services

Table 2.1

Go to the [International Services](#) iTables

- Select the table of interest: 2.1. U.S. Trade in Services, by Type of Service and by Country or Affiliation
- Modify  to get **All years (Covers 1999 – latest available)**
- Download  (XLS)

Activities of U.S. Multinational Enterprises (MNEs)¹⁴ (2019 forward)

Go to the [U.S. Direct Investment Abroad](#) product page

- Scroll down to **Comprehensive Data on the Activities of U.S. MNEs**
- Select the year of interest (**2019 or later**)
- Download the following files from Part I (All Affiliates and All Parents)¹⁵
 - o **Tables A1-A2¹⁶ (Selected Data)**
 - o **Tables K1-R2¹⁷ (All U.S. Parents)**
- Download the following files from Part II (Majority-Owned Foreign Affiliates)
 - o **Tables A1-A2¹⁸ (Selected Data)**
 - o **Tables B1-B12 (Balance Sheet)**
 - o **Tables E1-E17¹⁹ (Goods and Services Supplied)**

¹⁴ Also referred to as *outward AMNE*.

¹⁵ For benchmark years, the revised version of the statistics includes more information than the preliminary release. As such, the downloadable file names will differ from the preliminary statistics or subsequent annual statistics. For outward AMNE, years ending in a “4” or “9” are typically benchmark years. The revised 2019 benchmark statistics will be published in Fall 2022.

¹⁶ Tables A1-A6 for revised benchmark statistics.

¹⁷ Tables R1-R3 for revised benchmark statistics.

¹⁸ Tables A1-A4 for revised benchmark statistics.

¹⁹ Tables E1-E18 for revised benchmark statistics.

Next, obtain lagged information needed to compute the inventory change. On the ***Comprehensive Data on the Activities of U.S. MNEs*** web page, select the year (2018 or later) prior to the year of interest.

- Download the following file from Part I (All Affiliates and All Parents)
 - ***Tables A1-A2 (Selected Data)***
- Download the following file from Part II (Majority-Owned Foreign Affiliates)
 - ***Tables B1-B12 (Balance Sheet)***

Activities of U.S. Affiliates of Foreign Multinational Enterprises²⁰ (2019 forward)

Go to the [Foreign Direct Investment in the United States](#) product page

- Scroll down to ***Comprehensive Data on the Activities of U.S. Affiliates***
- Select the year of interest (2019 or later)
- Download the following file(s) from Part I (All Affiliates)
 - ***Tables A1-A9 (Selected Data)***
- Download the following file(s) from Part II (Majority-Owned U.S. Affiliates)
 - ***Tables A1-A11 (Selected Data)***
 - ***Tables B1-B7 (Balance Sheet)***
 - ***Tables H1-H8 (U.S. Trade in Goods)***

Next, obtain lagged information needed to compute inventory change for the year of interest. On the ***Comprehensive Data on the Activities of U.S. Affiliates*** web page, select the year (2018 or later) prior to the year of interest.

- Download the following file from Part I (All Affiliates)
 - ***Tables A1-A9 (Selected Data)***
- Download the following file from Part II (Majority-Owned U.S. Affiliates)
 - ***Tables B1-B7 (Balance Sheet)***

D. Templates for compiling the ownership-based framework

BEA is providing templates to assist data users in compiling ownership-based framework table 2 with newly released and revised BEA statistics after the discontinuation of this series. As noted above in section III.B, statistics in the last published version of table 2 will become obsolete as additional years of source data become available and previously published source data are revised.

²⁰ Also referred to as *inward AMNE*.

Two templates are available on the [International: Supplemental Statistics](#) web page:

- [OwnershipBasedFramework_template.xlsx](#) is the main template for preparing table 2 of the ownership-based framework.
- [AMNE_template.xlsx](#) is a template for preparing AMNE data for incorporation into the framework. The AMNE data is pulled from several published tables and requires a number of computations before being incorporated into table 2. The [AMNE_template](#) results are an input to the [OwnershipBasedFramework_template](#).

The templates are designed for the compilation of statistics beginning with reference year 2019.²¹ Once data have been loaded as indicated in the instructions, most of the processing is automatically performed in the workbook to produce the final tabulations. Use of the two templates is described in more detail in the next two sections. The AMNE template is presented here first because it should be prepared before the Ownership-Based Framework template, which requires the results from the AMNE template as an input.

E. Using the AMNE template

[AMNE_template](#) is the template for preparing AMNE data that will be incorporated in [OwnershipBasedFramework_template](#) to construct table 2 of the ownership-based framework. Data users should begin with the tab labeled [START.HERE.AMNE](#), which contains basic instructions for completing the template; these instructions are elaborated below.

1. First, enter the 4-digit year of data that will be processed by the workbook in cell E4. The workbook will automatically determine and return the appropriate data vintage based on that entry and the current date, which is internally generated.
2. Copy the downloaded data on the activities of U.S. multinational enterprises (that is, outward AMNE) for the reference year being processed, and paste it into the workbook according to the following correspondences:²²

²¹ For replicating table 2 for an earlier year using the template, be advised that the AMNE template will need customization. The published AMNE statistical tables change from time to time; therefore, cell references in the template designed to work with 2019 and later years might not reference the proper cells in data tables from earlier years.

²² Be sure to select all worksheet contents from the source sheet of the downloaded file when copying. See Appendix A1 for more information.

Link to tables on comprehensive data page	Default downloaded file name	Source sheet from downloaded file	Destination sheet in template
Tables A1-A2	Part-I-A1-A2	Table I.A 2(1)	AmneOI.A2
Tables K1-R2	Part-I-K1-R2	Table I.R.1	AmneOI.R1
Tables K1-R2	Part-I-K1-R2	Table I.R.2	AmneOI.R2
Tables A1-A2	Part-II-A1-A2	Table II.A.1 (1)	AmneOII.A1
Tables B1-B12	Part-II-B1-2-B12	Table II.B1-2	AmneOII.B1
Tables E1-E17	Part-II-E1-E17	Table II.E.1	AmneOII.E1

Note that the above pertains to preliminary data in benchmark years, such as 2019, and subsequent annual surveys. For revised benchmark data, including the 2019 BE-10, some of the downloaded files will differ from those listed above because revised benchmark tables sometimes present greater detail.²³

Link to tables on comprehensive data page	Default downloaded file name	Source sheet from downloaded file	Destination sheet in template
Tables A1-A6	PartI-A1-A6	Table I.A 2(1)	AmneOI.A2
Tables R1-R3	PartI-R1-R3	Table I.R.1	AmneOI.R1
Tables R1-R3	PartI-R1-R3	Table I.R.2	AmneOI.R2
Tables A1-A4	PartII-A1-A4	Table II. A 1(1)	AmneOII.A1
Tables B1-B12	PartII-B1-B12	Table II.B 1	AmneOII.B1
Tables E1-E18	PartII-E1-E18	Table II.E 1	AmneOII.E1

- For computing inventory changes, copy the downloaded outward AMNE data from one year prior to the reference year, and paste it into the workbook according to the following correspondences.

Link to tables on comprehensive data page	Default downloaded file name	Source sheet from downloaded file	Destination sheet in template
Tables A1-A2	Part-I-A1-A2	Table I.A 2(1)	LaggedAmneOI.A2
Tables B1-B12	Part-II-B1-2-B12	Table.II.B1-2	LaggedAmneOII.B1

If the one-year lag of the reference year is a revised benchmark year, such as 2019r, some table references will differ from those in annual years:

Link to tables on comprehensive data page	Default downloaded file name	Source sheet from downloaded file	Destination sheet in template
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²³ For outward AMNE, benchmark years are typically those years ending in a “4” or a “9.” Some column locations of data items may also differ in benchmark results tables. The worksheets that process the AMNE data will properly account for versions as they compile the statistics for ownership-based framework table 2.

Tables A1-A6	PartI-A1-A6	Table I.A 2(1)	LaggedAmneOI.A2
Tables B1-B12	PartII-B1-B12	Table II.B 1	LaggedAmneOII.B1

4. Next, review the contents of the [OutwardAMNEDataItems](#) worksheet to verify that data values populate column G and that actual table content matches expected content. The worksheet will automatically pull 15 data items from the source data pasted in steps 2-3 that will be used directly in table 2 or used to compute table 2 line items. Data users are advised to check that the “Expected” and “Actual” rows match for the AMNE data set, table, row, and columns. For example, to compare the expected versus actual data for the data item "Assets, all foreign affiliates," data users should compare the contents of cells C6-F6 and cells C7-F7. If there are material discrepancies, data users are advised to double check that the source data sheets were correctly pasted in steps 2-3. If data were correctly copied and pasted, it could be that the format of the source data tables has changed, so the formulas for "Actual" rows of the sheet and column G may need to be adjusted to reference the correct cells in the source data. The first place to check for the source of errors should be the starting row of the table header and the table data.
5. Copy the downloaded data on the activities of U.S. affiliates of foreign multinational enterprises (that is, inward AMNE) for the reference year and paste it into the workbook according to the following:

Link to tables on comprehensive data page	Default downloaded file name ⁱ	Source sheet from downloaded file	Destination sheet in template
Tables A1-A9	YYYYv-PartI-A1-A9	I.A2 (1)	AmneInI.A2
Tables A1-A11	YYYYv-PartII-A1-A11	II.A2 (1)	AmneInII.A2
Tables B1-B7	YYYYv-PartII-B1-B7	II.B1	AmneInII.B1
Tables H1-H8	YYYYv-PartII-H1-H8	II.H1	AmneInII.H1

- i. Note that YYYYv in the downloaded file names indicate the 4-digit year and version (such as “p” for preliminary or “r” for revised) of the data. For example, the file name for Tables A1-A9 for 2019 (as downloaded in February 2022) would be “2019p-PartI-A1-A9.xls.”

6. Copy and paste downloaded inward AMNE data for one year prior to the reference year as indicated below:

Link to tables on comprehensive data page	Default downloaded file name ⁱ	Source sheet from downloaded file	Destination sheet in template
Tables A1-A9	YYYYv-PartI-A1-A9	I.A2 (1)	LaggedAmneInI.A2
Tables B1-B7	YYYYv-PartII-B1-B7	II.B1	LaggedAmneInII.B1

- i. Note that YYYYv in the downloaded file names indicate the 4-digit year and version (such as “p” for preliminary or “r” for revised) of the data.
7. Next, data users should review the contents of the [InwardAMNEDataItems](#) worksheet to verify that data values populate column G and that actual table content matches expected content. Data users are advised to check that the “Expected” and “Actual” rows match for the AMNE data set, table, row, and columns. For example, to compare the expected versus actual data for the data item "Assets, all U.S. affiliates," data users should compare the contents of cells C6-F6 and cells C7-F7. If there are material discrepancies, data users should verify that the source data sheets were correctly pasted in steps 5-6. If a copy-paste error does not appear to be the cause of the issue, review the “Expected” cells and adjust the formulas in the "Actual" rows of the sheet and column G, if necessary, to reference the correct cells in the source data. The first place to check for the source of errors should be the starting row of the table header and the table data.
8. Multistep computations are automatically carried out in the sheet [AmneComputations](#). Data inputs for the computations are taken directly from the [OutwardAmneDataItems](#) and the [InwardAmneDataItems](#) worksheets. See appendix A2 for details on computations for outward AMNE; see appendix A3 for details on computations for inward AMNE.

In most cases where multistep computations are made, it is in order to scale a particular variable to cover the entire set of affiliates. This is necessary because certain data items are only available for majority-owned affiliates, which are those affiliates owned more than 50 percent by a U.S. owner in the case of foreign affiliates or more than 50 percent by a foreign owner in the case of U.S. affiliates. For the ownership-based framework, it is necessary to scale up measures of trade, value-added, and inventories that are only available for majority-owned affiliates.

9. The sheet [AmneCompile](#) will automatically populate based on data that come directly from a published AMNE table (via sheet [OutwardAmneDataItems](#) or [InwardAmneDataItems](#)) or via a multistep computation in sheet [AmneComputations](#).²⁴ No manual edits should be made to the sheet [AmneCompile](#).

For both outward and inward AMNE data, the sheet [AmneCompile](#) completes both parts of the

²⁴ See appendix A4 for table 2 line items that come directly from AMNE source data.

compilation: obtaining individual cell values directly from the AMNE statistics and obtaining the results of multistep computations when cells draw on multiple data items.

10. After the completion of steps 1-9, the contents of column C in sheet *AmneCompile* can be copied and pasted (as values) into the *OwnershipBasedFramework_template* workbook in the appropriate column for the specified year in the *AmneData* sheet at step 4. See the sheet *START.HERE.OBF* in that file for details.
11. Steps 1-10 prepare the AMNE statistics needed to compile table 2 for a single reference year. The process will need to be repeated for each reference year of the framework that is being prepared. For any update after November 2022, two copies of the *AMNE_template* file should be created and completed: one for the preliminary release of the latest year available and one for the revised statistics for one year prior.²⁵

F. Using the ownership-based framework template

OwnershipBasedFramework_template is the main template for preparing ownership-based framework table 2. Begin with the *START.HERE.OBF* worksheet that contains basic instructions, which are elaborated below, for completing the template.

1. Begin by bringing in downloaded ITA data; downloading procedures were described above in part III.C. The downloaded data should be pasted into the *OwnershipBasedFramework_template* workbook in sheet ITA1.2, at cell A1.²⁶

Downloaded data from ITA table 1.2 are pasted as indicated below.

ITA table name on the web	Downloaded file name	Source sheet from downloaded file	Destination sheet in template
Table 1.2. U.S. International Transactions, Expanded Detail	download.xls	Sheet0	<i>ITA1.2</i>

The specific line items in ownership-based framework table 2 that are drawn directly from ITA table

²⁵ For example, in December 2022, two copies of the *AMNE_template* should be used: one for 2019 (revised) and one for 2020 (preliminary). If the template is being updated for several years, then additional copies would need to be completed for revised data of the intervening years leading up to preliminary data from the latest available release.

²⁶ Be sure to select all worksheet contents from the source sheet of the downloaded file when copying. See Appendix A.1 for more information.

1.2 are shown below.

Ownership-Based Framework		ITA table 1.2	
Line	Item	Line	Item
1	Exports of goods and services and income receipts	1	Exports of goods and services and income receipts (credits)
5	Exports of goods and services, total	2	Exports of goods and services
6	Goods, balance of payments basis	3	Goods
7	Services	13	Services
30	Portfolio investment income	29	Portfolio investment income
31	Other investment income	30	Other investment income
32	Reserve asset income	31	Reserve asset income
33	Compensation of employees	32	Compensation of employees
34	Secondary income (current transfer) receipts	33	Secondary income (current transfer) receipts
35	Imports of goods and services and income payments	34	Imports of goods and services and income payments (debits)
39	Imports of goods and services, total	35	Imports of goods and services
40	Goods, balance of payments basis	36	Goods
41	Services	45	Services
64	Portfolio investment income	61	Portfolio investment income
65	Other investment income	62	Other investment income
66	Compensation of employees	63	Compensation of employees
67	Secondary income (current transfer) payments	64	Secondary income (current transfer) payments
68	Balance on goods and services	110	Balance on goods and services (line 2 less line 35)
70	Balance on current account	109	Balance on current account (line 1 less line 34)

- Continue the process of pasting downloaded ITA data for table 4.2 using the same procedure that was outlined in step 1 above for ITA table 1.2.

ITA table name on the web	Downloaded file name	Source sheet from downloaded file	Destination sheet in template
Table 4.2. U.S. International Transactions in Primary Income on Direct Investment	download.xls	Sheet0	ITA4.2

The specific line items in ownership-based framework table 2 that are drawn directly from ITA table 4.2 are shown below.

Ownership-Based Framework		ITA table 4.2	
Line	Item	Line	Item
2	Less: Adjustment to convert direct investment receipts to a directional basis	8	Less: Adjustments to convert to directional basis
20	Net receipts by U.S. parents of direct investment income resulting from sales by their foreign affiliates	11	Equals: Direct investment income on outward investment (U.S. direct investment abroad), directional basis

36	Less: Adjustment to convert direct investment payments to a directional basis	45	Less: Adjustments to convert to directional basis
54	Net payments to foreign parents of direct investment income resulting from sales by their U.S. affiliates	48	Equals: Direct investment income on inward investment (foreign direct investment in the United States), directional basis

- Following the same approach used for the ITA data, paste downloaded data from international services table 2.1 into the [OwnershipBasedFramework_template](#) workbook.

IS table name on the web	Downloaded file name	Source sheet from downloaded file	Destination sheet in template
Table 2.1. U.S. Trade in Services, by Type of Service	download.xls	Sheet0	IS2.1

The specific line items in the ownership-based framework table 2 that are drawn directly from international services table 2.1 are shown below.

Ownership-Based Framework		International Services table 2.1	
Line	Item	Line	Item
16	Services [exports to foreign affiliates of U.S. parents]	210	U.S. parents' exports to their foreign affiliates
19	Services [exports to foreign parent groups of U.S. affiliates]	211	U.S. affiliates' exports to their foreign parent groups
50	Services [imports from foreign affiliates of U.S. parents]	214	U.S. parents' imports from their foreign affiliates
53	Services [imports from foreign parent groups of U.S. affiliates]	215	U.S. affiliates' imports from their foreign parent groups

- Next, paste AMNE data for each year of ownership-based framework table 2 that will be updated with new or revised data. Note that the AMNE data will be loaded and processed separately in the [AMNE_template](#) workbook before being used in the [OwnershipBasedFramework_template](#) workbook; see section III.E for instructions on preparing the AMNE data.

After the AMNE data have been loaded and processed in the [AMNE_template](#) workbook, paste the contents of column C of the source sheet ([AmneCompile](#) in [AMNE_template](#)) into the appropriate year's column in the sheet [AmneData](#) in the [OwnershipBasedFramework_template](#) workbook.

- In the worksheet [TEMPLATE_table2](#), table 2 will be automatically populated using the source data loaded in steps 1 – 4. Calculations for table 2 are performed in intermediate processing worksheets in the file. Do not update any of these sheets. They are described here for informational purposes only.
 - [GetItaISData](#): This sheet obtains the rows of data from the worksheets [ITA1.2](#), [ITA4.2](#), and [IS2.1](#) that are needed to complete table 2.
 - [Compiler](#): This sheet combines data from the [AmneData](#) worksheet and from the [GetItaISData](#) worksheet to prepare the columns needed to complete table 2. It compares the current date

against the reference year to determine what elements of table 2 are available for a particular year. For example, for the latest available year included in the framework, the ITA and international services data are available but the AMNE data are not. Thus, the worksheet must ensure that the sheet will not return errors as cells in the worksheet attempt to compute cell values based on inputs that might include blanks for the AMNE data.²⁷

The *Compiler* sheet also makes computations to fill in rows of ownership-based framework table 2 that are computed from other lines in the table. Several line items are based on combinations of other lines. The following line items are automatically computed by adding to, subtracting from, or setting a value equivalent to other lines:

Line item	Description	Calculation
3	Equals: Exports of goods and services and income receipts, directional basis	line 1 minus line 2
4	Receipts resulting from exports of goods and services and sales by foreign affiliates	line 5 plus line 20
8	To unaffiliated foreigners	line 9 plus line 10
9	Goods	line 6 minus line 12
10	Services	line 7 minus line 13
11	To affiliated foreigners	line 12 plus line 13
12	Goods	line 15 plus line 18
13	Services	line 16 plus line 19
14	To foreign affiliates of U.S. parents	line 15 plus line 16
17	To foreign parent groups of U.S. affiliates	line 18 plus line 19
23	Less: Costs and profits accruing to foreign persons	line 21 minus line 20 minus line 22 minus line 26
25	Other	line 23 minus line 24
28	Primary income receipts, except on direct investment	line 29 plus line 33
29	Investment income, except on direct investment	line 30 plus line 31 plus line 32
37	Equals: Imports of goods and services and income receipts, directional basis	line 35 minus line 36
38	Payments resulting from imports of goods and services and sales by U.S. affiliates	line 39 plus line 54
42	From unaffiliated foreigners	line 43 plus line 44
43	Goods	line 40 minus line 46
44	Services	line 41 minus line 47
45	From affiliated foreigners	line 46 plus line 47
46	Goods	line 49 plus line 52
47	Services	line 50 plus line 53
48	From foreign affiliates of U.S. parents	line 49 plus line 50
51	From foreign parent groups of U.S. affiliates	line 52 plus line 53
57	Less: Costs and profits accruing to U.S. persons	line 55 minus line 54 minus line 56 minus line 60

²⁷ An example where such an error might occur is line 11, which is the sum of line 12 and line 13. However, line 12 comes from the AMNE data, and so, in the latest year covered by the ITA and International services data, this would be represented as “n.a.” (not available).

59	Other	line 57 minus line 58
62	Primary income payments, except on direct investment	line 63 plus line 66
63	Investment income, except on direct investment	line 64 plus line 65
69	Balance on goods, services, and net receipts from sales by affiliates	line 4 minus line 38
72	Foreign content	line 71 minus line 75
74	Other foreign content	line 72 minus line 73
75	U.S. content	line 22
77	U.S. content	line 76 minus line 80
79	Other U.S. content	line 77 minus line 78
80	Foreign content	line 56

- **HistoricalAMNE**: This sheet contains historical data (that is, 1999-2018) originating in the AMNE statistics. Note that it does not include all table values for earlier years, only those values drawn directly from AMNE data. Because ITA and international services data may potentially be revised for a period of many years, data from those sources are repasted, and values computed based partly or wholly on those data are recomputed, for older years in the template.²⁸

IV. Sample Calculation for 2019-2020

Two versions of each of the [OwnershipBasedFramework_template](#) and [AMNE_template](#) are available on the [International: Supplemental Statistics](#) webpage. One copy of each file contains blank worksheets where the data user can load the source data and update the ownership-based framework estimates for future periods and revisions. The second copy of each file ([Sample_OwnershipBasedFramework_2019](#) and [Sample_AMNE_2019](#)) includes sheets containing the input data available as of April 2022, namely, AMNE data through 2019 preliminary (released in Fall 2021) and ITA and international services data through 2020 (revised as of Summer 2021). The values in those templates match what was published in the [last release in the series \(February 2022\)](#).²⁹

Appendix

A1. Selecting all contents in an Excel worksheet

To select all sheet contents, click in the top left corner of the worksheet. Then, right-click and “copy” to copy all sheet contents. See below:

	A	B	C	D	E	F	G	H
1	Table 1.2. U.S. International Transactions, Expanded Detail							
2	[Millions of dollars]							
3	Bureau of Economic Analysis							
4	Release Date: December 21, 2021 - Next Release Date: March 24, 2022							
5								
6	Line	1999	2000	2001	2002	2003	2004	

²⁸ For example, line 14 is based on AMNE data on goods trade and international services trade, so it is computed in the template because services data may have been revised.

²⁹ The sample template also includes a sheet named [Check](#) that compares the contents of [TEMPLATE_table2](#) through 2020 against the published tables released in February 2022 (from sheet [Pub0222](#)).

A2. Data items that require multistep computations: outward AMNE

This appendix presents line items derived by multistep computations using outward AMNE data—namely, lines 22, 26, 71, and 73. These items are computed automatically in sheet [AmneComputations](#). In the worksheet, computations are broken down into the component steps, and sources of data items are indicated at each step.

Line 22: Foreign affiliates' purchases of goods and services directly from the United States

This item reflects foreign affiliates' purchases of goods and services from the United States and is the sum of purchased goods and purchased services.

Foreign affiliates' purchases of goods and services directly from the United States =

Foreign affiliates' purchases of U.S. goods + U.S. parents' exports of services to their foreign affiliates

BEA's U.S. direct investment abroad surveys collect data on U.S. exports of goods (from any U.S. source) to foreign affiliates. Conceptually, this is the appropriate measure of affiliates' purchases of U.S. goods. However, the surveys also collect data on U.S.-parent survey forms on U.S. parents' exports of goods to foreign affiliates. While in principle this represents only a subset of the exports that are collected on the foreign-affiliate forms (by excluding exports from U.S. sources other than U.S. parents), in practice the value sometimes exceeds the value reported on foreign-affiliate forms. Because reporting of U.S. trade on U.S.-parent forms is expected to be more accurate than reporting on foreign-affiliate forms, when the value from parent forms is larger than the value from affiliate forms, it is used instead as the measure of affiliates' purchases of U.S. goods.

Foreign affiliates' purchases of U.S. goods =

$\text{Max}(\text{U.S. exports to foreign affiliates}_{\text{ReportedByAffs}}, \text{U.S. exports shipped by U.S. parents to foreign affiliates}_{\text{ReportedByParents}})$

(1)

Component	AMNE source table	AMNE data item	Row	Column
U.S. exports shipped to foreign affiliates _{ReportedByAffiliates}	Table I.R 1. U.S. Exports of Goods Associated with U.S. Parents and Their Foreign Affiliates by Industry of U.S. Parent	<i>U.S. exports of goods shipped to all affiliates, as reported on affiliates' forms</i>	All industries	2
U.S. exports shipped by U.S. parents to foreign affiliates _{ReportedByParent}	Table I.R 1. U.S. Exports of Goods Associated with U.S. Parents and Their Foreign Affiliates by Industry of U.S. Parent	<i>U.S. exports shipped by U.S. parents to all affiliates, as reported on parents' forms</i>	All industries	10

Foreign affiliates' purchases of U.S. services is measured, by proxy, as U.S. parents' exports of services to their foreign affiliates (table 2, line 16).³⁰

Line 26: Sales by foreign affiliates to other foreign affiliates of the same parent

This line item is computed by scaling up the measures of sales by majority-owned foreign affiliates (MOFAs) to other foreign affiliates of the U.S. parent by the ratio of total sales by all affiliates to total sales by MOFAs.

$$\begin{aligned} & \text{Sales by affiliates to other foreign affiliates of the same parent} \\ &= \text{Sales by MOFAs to other affiliates} \times \frac{\text{Sales, all affiliates}}{\text{Sales, MOFAs}} \end{aligned}$$

(2)

Where:

$$\begin{aligned} & \text{Sales by MOFAs to other affiliates} \\ &= \text{Goods and services supplied to other foreign affiliates in the host country} \\ &+ \text{Goods and services supplied to other foreign affiliates in other foreign countries} \end{aligned}$$

The source of each component in the calculation is presented below.

Component	AMNE source table	AMNE data item	Row	Column
Goods and services supplied by foreign affiliates to other foreign affiliates in the host country, MOFAs	Table II.E 1. Goods and Services Supplied by Affiliates, Selected Area and Industry of Affiliate and Type of Output by Destination and Transactor	<i>Goods and services supplied by affiliates to other foreign affiliates in the host country</i>	Total	7
Goods and services supplied by foreign affiliates to other foreign affiliates in other foreign countries, MOFAs	Table II.E 1. Goods and Services Supplied by Affiliates, Selected Area and Industry of Affiliate and Type of Output by Destination and Transactor	<i>Goods and services supplied by affiliates to other foreign affiliates in other foreign countries</i>	Total	10
Sales, all foreign affiliates	Table I.A 2. Selected Data for Foreign Affiliates and U.S. Parents in All Industries 1-Continues	Sales	All industries	4 or 5 ⁱ
Sales, MOFAs	Table II.A 1. Selected Data for Foreign Affiliates in All Countries in Which Investment Was Reported 1-Continues	Sales	All countries	5

³⁰ Note that the value of total U.S. exports of services to foreign affiliates of U.S. MNEs is not available in the international services statistics.

- i. For annual data and preliminary benchmark data, column 4; for revised benchmark data, column 5.

Line 71: Sales to nonaffiliates and change in inventories

The change in inventories component of this line item is computed in sheet [AmneComputations](#). Several steps are needed to compute the change in inventories. First, inventory data is only available for MOFAs, so the inventory data must be scaled up to cover all affiliates, based on a ratio of all affiliates' total assets to MOFAs' total assets. This needs to be done for both the reference year and for the preceding year.

Inventories for the reference year are calculated as:

$$\text{All affiliates' inventories} = \text{Inventories, MOFAs} \times \frac{\text{Assets, all foreign affiliates}}{\text{Assets, MOFAs}} \quad (3)$$

Inventories for the preceding year are calculated in the same way. The change in inventories calculation is shown below.

$$\text{Change in inventories} = \text{All affiliates' inventories}_{\text{reference year}} - \text{All affiliates' inventories}_{\text{preceding year}} \quad (4)$$

The source of each component in the calculation of inventories is presented below.

Component	AMNE source table	AMNE data item	Row	Column
Inventories, MOFAs	Table II.B 1-2. Balance Sheet of Affiliates, Country by Account	<i>Inventories</i>	All countries	4
Assets, all foreign affiliates	Table I.A 2. Selected Data for Foreign Affiliates and U.S. Parents in All Industries 1-Continues	<i>Total Assets</i>	All industries	3
Assets, MOFAs	Table II.B 1-2. Balance Sheet of Affiliates, Country by Account	<i>Total Assets</i>	All countries	1

Note: The complete value of line 71 is calculated in the [OwnershipBasedFramework_template](#) workbook. That calculation adds the change in inventories computed here to the value of sales to nonaffiliates, which is based on information contained elsewhere in the template:

$$\text{Sales by foreign affiliates (table 2, line 21)} - \text{Sales by foreign affiliates to other foreign affiliates of the same parent (table 2, line 26).}$$

Line 73: Value added by foreign affiliates of U.S. parents

Value added data is only available for MOFAs, so it must be scaled up to cover all affiliates. It is computed based on a ratio of all affiliates' total sales to MOFAs' total sales.

Value added by foreign affiliates of U.S. parents is computed as follows.

$$\text{Value added by all affiliates} = \text{Value added, MOFAs} \times \frac{\text{Sales, all foreign affiliates}}{\text{Sales, MOFAs}}$$

(5)

The source of each component in the calculation of inventories is presented below.

Component	AMNE source table	AMNE data item	Row	Column
Value added, MOFAs	Table II.A 1. Selected Data for Foreign Affiliates in All Countries in Which Investment Was Reported	<i>Value added</i>	All countries	7
Sales, all foreign affiliates	Table I.A 2. Selected Data for Foreign Affiliates and U.S. Parents in All Industries	<i>Sales</i>	All industries	4 or 5 ⁱ
Sales, MOFAs	Table II.A 1. Selected Data for Foreign Affiliates in All Countries in Which Investment Was Reported	<i>Sales</i>	All countries	5

i. For annual data and preliminary benchmark data, column 4; for revised benchmark data, column 5.

A3. Data items that require multistep computations: inward AMNE

This section presents line items derived by multistep computations using inward AMNE data, namely lines 18, 52, 56, 76, and 78. These items are computed automatically in sheet [AmneComputations](#). In the worksheet, computations are broken down into the component steps, and sources of data items are indicated at each step.

Line 18: Goods (exported by U.S. affiliates to their foreign parent groups)

This line item is computed by scaling up the value of exports to the foreign parent group by majority-owned U.S. affiliates (MOUSAs) based on the ratio of all affiliates' total exports to MOUSAs' total exports.

U.S. affiliates' exports of goods to foreign parent groups is given as:

$$\begin{aligned} & \text{U. S. affiliates' exports of goods to foreign parent groups} \\ &= \text{Exports shipped by affiliates to the foreign parent group, MOUSAs} \times \frac{\text{U. S. exports of goods, all U. S. affiliates}}{\text{Exports shipped by MOUSAs}} \end{aligned} \quad (6)$$

The source of each component in the calculation is presented below.

Component	AMNE source table	AMNE data item	Row	Column
Exports shipped by affiliates to the foreign parent group, MOUSAs	Table II.H 1. U.S. Trade in Goods of Affiliates, Industry of Affiliate by Transactor	<i>Exports shipped by U.S. affiliates, to the foreign parent group</i>	All industries	2
U.S. exports of goods, all U.S. affiliates	Table I.A 2. Selected Data of Affiliates by Industry of Affiliate	<i>U.S. exports of goods shipped by all U.S. affiliates</i>	All industries	9
Exports shipped by MOUSAs	Table II.H 1. U.S. Trade in Goods of Affiliates, Industry of Affiliate by Transactor	<i>U.S. exports of goods shipped by MOUSAs, total</i>	All industries	1

Line 52: Goods (imported by U.S. affiliates from their foreign parent groups)

This line item is computed by scaling up the value of imports from the foreign parent group by MOUSAs based on the ratio of all affiliates' total imports to majority owned affiliates' total imports.

U.S. affiliates' imports of goods from foreign parent groups is computed as follows:

U. S. affiliates' imports of goods from foreign parent groups

$$= \text{Imports shipped to affiliates by the foreign parent group, MOUSAs} \times \frac{\text{U. S. imports of goods, all U. S. affiliates}}{\text{Imports shipped to MOUSAs}} \quad (7)$$

The source of each component in the calculation of inventories is presented below.

Component	AMNE source table	AMNE data item	Row	Column
Imports shipped to affiliates by the foreign parent group, MOUSAs	Table II.H 1. U.S. Trade in Goods of Affiliates, Industry of Affiliate by Transactor	<i>Imports shipped to affiliates by the foreign parent group</i>	All industries	7
U.S. imports of goods, all U.S. affiliates	Table I.A 2. Selected Data of Affiliates by Industry of Affiliate	<i>U.S. imports of goods</i>	All industries	10
Imports shipped to MOUSAs	Table II.H 1. U.S. Trade in Goods of Affiliates, Industry of Affiliate by Transactor	<i>Imports shipped to affiliates</i>	All industries	6

Line 56: U.S. affiliates' purchases of goods and services directly from abroad

The complete value of line item 56 is calculated in the [OwnershipBasedFramework_template](#) workbook.

$$\begin{aligned} &\text{U. S. affiliates' purchases of goods and services directly from abroad} \\ &= \text{U. S imports of goods, all U. S. affiliates} \\ &+ \text{U. S. affiliates' imports of services from their foreign parent groups} \end{aligned} \quad (8)$$

The source of the goods imports component is the following:

Component	AMNE source table	AMNE data item	Row	Column
U.S. imports of goods, all U.S. affiliates	Table I.A 2. Selected Data of Affiliates by Industry of Affiliate	<i>U.S. imports of goods shipped to affiliates</i>	All industries	10

U.S. affiliates' purchases of services is measured, by proxy, as U.S. affiliates' imports of services from their foreign parent groups (table 2, line 53).³¹

Line 76: Sales to nonaffiliates and change in inventories

This measure is computed through a multi-step process. The change in inventories component of this line item is computed in sheet [AmneComputations](#). Because inventory data is only available for MOUSAs, the inventory data must be scaled up to cover all affiliates, based on a ratio of all affiliates' total assets to MOUSAs' total assets. This needs to be done for both the reference year and the preceding year.

³¹ Note that the value of total U.S. affiliates' imports of services is not available in the international services statistics.

Inventory for the reference year is calculated as:

$$\text{All U.S. affiliates' inventories} = \text{Inventories, MOUSAs} \times \frac{\text{Assets, all U.S. affiliates}}{\text{Assets, MOUSA}} \quad (9)$$

The source of each component in the calculation of inventories is presented below.

Component	AMNE source table	AMNE data item	Row	Column
Inventories, MOUSAs	Table II.B 1. Balance Sheet of Affiliates, Industry of Affiliate by Account	<i>Inventories</i>	All industries	3
Assets, all U.S. affiliates	Table I.A 2. Selected Data of Affiliates by Industry of Affiliate	<i>Total Assets</i>	All industries	2
Assets, MOUSAs	Table II.B 1. Balance Sheet of Affiliates, Industry of Affiliate by Account	<i>Total Assets</i>	All industries	1

Inventory for the preceding year would be calculated in the same way. The change in inventories is given as follows.

$$\text{Change in inventories} = \text{All U.S. affiliates' inventories}_{\text{reference year}} - \text{All U.S. affiliates' inventories}_{\text{preceding year}} \quad (10)$$

Note: The complete value of line 76 is calculated in the [OwnershipBasedFramework_template](#) workbook. That calculation adds the change in inventories computed here to the value of sales to nonaffiliates, which is based on information contained elsewhere in the template:

Sales by U.S. affiliates (line 55) – Sales by U.S. affiliates to other U.S. affiliates of the same parent (line 60)

Note that the value of sales by U.S. affiliates to other U.S. affiliates of the same parent (line 60) cannot be estimated but is thought to be very small.

Line 78: Value added by U.S. affiliates of foreign parents

Value added data is only available for MOUSAs, so it must be scaled up to cover all U.S. affiliates. It is computed based on a ratio of all U.S. affiliates' total sales to MOUSAs' total sales as shown below:

$$\text{Value added by U.S. affiliates of foreign parents} = \text{Value added, MOUSAs} \times \frac{\text{Sales, all U.S. affiliates}}{\text{Sales, MOUSAs}} \quad (11)$$

Component	AMNE source table	AMNE data item	Row	Column
Value added, MOUSAs	Table II.A 2. Selected Data of Affiliates by Industry of Affiliate	<i>Value added</i>	All industries	7
Sales, all U.S. affiliates	Table I.A 2. Selected Data of Affiliates by Industry of Affiliate	<i>Sales</i>	All industries	5
Sales, MOUSAs	Table II.A 2. Selected Data of Affiliates by Industry of Affiliate	<i>Sales</i>	All industries	5

A4. Data items that come directly from AMNE data tables

Some information is taken directly from BEA's AMNE data tables and used directly in ownership-based framework table 2. A summary of this information from each of outward and inward AMNE data is presented below:

Outward AMNE

Ownership-Based Framework		Outward AMNE				
Line item	Description	Source data sheet	Published table	Description	Row	Column
15	Goods	AmneOI.R1	Table I.R 1. U.S. Exports of Goods Associated with U.S. Parents and Their Foreign Affiliates by Industry of U.S. Parent	U.S. exports of goods shipped by U.S. parents to all affiliates, as reported on parents' forms	All industries	10 or 15 ⁱ
21	Sales by foreign affiliates	AmneOI.A2	Table I.A 2. Selected Data for Foreign Affiliates and U.S. Parents in All Industries	Sales	All industries	4 or 5 ⁱⁱ
24	Compensation of employees of foreign affiliates	AmneOI.A2	Table I.A 2. Selected Data for Foreign Affiliates and U.S. Parents in All Industries	Compensation of employees	All industries	6 or 8 ⁱⁱⁱ
49	Goods	AmneOI.R2	Table I.R 2. U.S. Imports of Goods Associated with U.S. Parents and Their Foreign Affiliates by Industry of U.S. Parent	U.S. imports of goods shipped to U.S. parents by all affiliates, as reported on parents' forms	All industries	10 or 15 ^{iv}

i. For annual data and preliminary benchmark data, column 10; for revised benchmark data, column 15.

ii. For annual data and preliminary benchmark data, column 4; for revised benchmark data, column 5.

iii. For annual data and preliminary benchmark data, column 6; for revised benchmark data, column 8.

iv. For annual data and preliminary benchmark data, column 10; for revised benchmark data, column 15.

Inward AMNE

Ownership-Based Framework		Inward AMNE				
Line item	Description	Source data sheet	Published table	Description	Row	Column
55	Sales by U.S. affiliates	AmneInl.A2	Table I.A 2. Selected Data of Affiliates by Industry of Affiliate	Sales	All industries	5
58	Compensation of employees of U.S. affiliates	AmneInl.A2	Table I.A 2. Selected Data of Affiliates by Industry of Affiliate	Compensation of employees	All industries	7