

## Crosswalks Involving BEA Microdata – Special Sworn Researcher Program

As of December 1, 2022

	Outward AMNE and DI <sup>1</sup>	Inward AMNE and DI <sup>2</sup>	Core international services transactions surveys <sup>3</sup>
<b>Outward AMNE and DI<sup>1</sup></b>	Same firm identification code in a given year	1990 to present, coverage varies by year <sup>4</sup>	2006 to 2020
<b>Inward AMNE and DI<sup>2</sup></b>	1990 to present, coverage varies by year <sup>4</sup>	Same firm identification codes in a given year	2006 to 2020
<b>Core international services transactions surveys<sup>3</sup></b>	2006 to 2020 <sup>5</sup>	2006 to 2020 <sup>5</sup>	2006 to 2020
<b>Census Business Register</b>	1997 to 2017	1997 to 2017	Crosswalk under construction for 2006 and later years

Note. Crosswalks typically achieve a high, but not perfect match rate in each survey.

1. Outward AMNE (Activities of Multinational Enterprises) and DI (Direct Investment) surveys:
  - a. BE-10/11 (Outward Activities of MNEs)
  - b. BE-577 (Outward Direct Investment Data)
2. Inward AMNE (Activities of Multinational Enterprises) and DI (Direct Investment) surveys:
  - a. BE-12/15 (Inward Activities of MNEs)
  - b. BE-605 (Inward Direct Investment Data)
  - c. BE-13 (New Inward Direct Investment) (data not collected during 2009 to 2013)
3. Core international services transactions surveys:
  - a. BE-120/125 (U.S. Trade in Selected Services and Intellectual Property)
  - b. BE-45/145 (U.S. Trade in Insurance Services)

- c. BE-180/185 (U.S. Trade in Financial Services)-(no data for 2006 to match)
4. For 2018 and later years, *Entity Link* crosswalk links Outward AMNE and Inward AMNE for all BE-12/15 filers. For 1994 to 2017, the crosswalk covers all BE-12/15 long (A) form filers and some other shorter form filers identified as matches. Reporting requirements and filing thresholds varied over time but, generally, long (A) form filers have consisted of larger, majority-owned, U.S. affiliates. For 1994 to 2001, long forms were required of all *nonbank* U.S. affiliates meeting the long form size threshold and for 2002 to 2007, long forms were required of *majority-owned nonbank* U.S. affiliates meeting the long form size threshold. Since 2008, long forms have been required of *all (bank and nonbank) majority-owned* U.S. affiliates meeting the long form size threshold. Some of the links for 1994-2017 were updated (added, dropped, or changed) based on the Entity Link crosswalks links for 2018 and later years. For 1990-1993, the crosswalk covers all BE-12/15 filers.
5. Does not include links between firms reporting on the services and AMNE/DI surveys that are not majority-foreign owned or do not have any majority-owned foreign affiliates.

#### **Considerations for linking BEA surveys with other approved data sources**

- Can include matching firm level data with name, EIN, and other identification fields as part of research proposal to extent possible for approved data sources.
- Can also match approved data sources aggregated above the firm level by firm characteristics such as industry and location.
- Matching firm level survey data in the absence of common identification codes or existing crosswalks can be time consuming and is most feasible for smaller data sets with a limited time series or a subset of industries. If you want to propose matching other firm level data to BEA survey data, budget sufficient time for matching data sets as part of your project timeline.
- Even if an outside data source can technically be matched to BEA survey data, the match may not be feasible or be approved for research. Please inquire about the feasibility about any specific matches that you want to propose.
  - BEA business confidential data cannot be commingled with databases that contain company-specific information if the resulting combined dataset would contain information beyond the scope of the data items collected in BEA's surveys. In particular, a project that proposed combining BEA's confidential data with external data to produce a dataset that the survey respondent could not have reasonably expected to be created and that could cause economic harm to the respondent will not be approved.
- Identification fields that can be used match BEA survey data with other firm level data sets include:
  - Firm name
  - Employer Identification Number (EIN)
    - BE-10/11 and Core International Trade in Services Surveys: Firms typically only report the primary EIN used to file U.S. income or payroll taxes to BEA even though these firms may be associated with a large number EINs in other data sets.
    - BE-12/15 inward AMNE Surveys: Firms report the primary EIN and the names and EINs of

- Each U.S. business consolidated into their survey response
- Each U.S. businesses in which the U.S. affiliate has a direct ownership interest, but are not included in their survey response because a different foreign owner has a direct or indirect ownership interest in the business
  - Not collected on quarterly direct investment or trade in transportation services surveys
- Mailing address for the firm’s headquarters
- Email address of firm’s survey contact (since late 1990s on most surveys)
- Stock exchange ticker symbol in benchmark AMNE surveys-(BEA started collecting the name of the stock exchange and ticker symbol for publicly traded survey respondents on the 2017 BE-12 and 2019 BE-10, but coverage has been limited to date).
- Legal Entity Identifier (LEI)-(BEA started collecting the LEI for some 2019 surveys, but coverage has been limited to date).
- International Air Transport Association (IATA) code and International Civil Aviation Organization (ICAO) code (collected on the trade in air transport services surveys since Q1 2022).