BEA API for Data Retrieval

User Guide

Introduction

The Bureau of Economic Analysis (BEA) publishes economic statistics in a variety of formats. This document describes the BEA Data Retrieval Application Programming Interface (API) – including detailed instructions for retrieving data and meta-data published by BEA. The API is intended to provide programmatic access to published economic statistics using industry-standard methods and procedures. The intended audience of this document is programmers who are familiar with the concepts and techniques of retrieving data from Web Services.

The BEA API includes methods for retrieving a subset of BEA statistical data, and meta-data that describes it. As additional datasets are added, the meta-data retrieval methods can be used to discover the current data accessible through the API.

Access to the BEA API

The API is available to registered users on the BEA public web site. Before using the API, users must obtain a unique 36-character UserID by registering at https://www.bea.gov/api/signup/. To register, API users must provide their name (or organization name), a valid email address, and agree to the published terms of service. After completing the registration form an email is sent containing the assigned UserID, and a link that completes the registration process. Assigned UserIDs are activated when the link has been clicked.

The URI¹ of the API is: https://www.bea.gov/api/data. All API access is through this URI; no other paths are used. Data is retrieved by sending an HTTP GET to the URI with appropriate (querystring) parameters supplied. The minimum parameters for every request include the UserID and the name of the method being invoked. For example:

https://www.bea.gov/api/data?&UserID=Your-36Character-Key&method=GETDATASETLIST&

would retrieve a list of the datasets currently offered by the BEA API (if the UserID was valid – it's not).

Statistical data offered by the API is organized into defined "Datasets". An API data retrieval request always specifies one dataset by name. Each dataset has a number of defined parameters, and each parameter has a defined set of valid values. There are four API methods that return meta-data about the API – corresponding to datasets, parameters, and valid parameter values. There is one method that returns data.

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¹ Uniform Resource Identifier

JavaScript Usage

While the API may be used from any language capable of issuing HTTP requests (Java, PHP, Perl, Python, C, etc.), two features are supported that allow JavaScript to issue requests without violating same-origin security checks - CORS and JSONP.

If you're writing a browser-based web application for modern web browsers with support for CORS then you may simply use an XMLHttpRequest as usual, without any changes. All HTTP responses generated by the API will include the necessary CORS headers.

If you're writing a browser-based web application for legacy browsers without support for CORS then your request URL query string may include a *jsonp* argument. If present, this prefix will be wrapped around the response, allowing you to capture the result of the query.

For example:

https://www.bea.gov/api/data/?&UserID=Your-36Character-Key&method=GetData&datasetname=RegionalIncome&TableName=CA4&LineCode=30&GeoFIPS=COUN TY&Year=2013&ResultFormat=ison&jsonp=MY FUNCTION NAME

Data Return Format

The API returns data in one of two formats: JSON² or XML³. The optional *ResultFormat* parameter can be included on any request to specify the format of the results. If *ResultFormat* is not supplied on the request, or an invalid *ResultFormat* is specified, the default format returned is JSON.

The valid values for *ResultFormat* are "JSON" and "XML". For example, the following request would return a list of the available datasets in XML format:

https://www.bea.gov/api/data?&UserID=Your-

36Character-

Key&method=GETDATASETLIST&ResultFormat=XML&

This request would return a list of the available datasets in JSON format: https://www.bea.gov/api/data?&UserID=Your-36Character-Key&method=GETDATASETLIST&ResultFormat=JSON&

The data returned from the API always has the following basic structure, with some additional structure depending on the data requested:

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² Java Script Object Notation

³ Extensible Markup Language

In XML form, the root node is always <BEAAPI >, followed by the child node <Request >. The <Request > node contains <Request Param > children that echo the parameters passed in the request. The root node, <BEAAPI >, then has another child node, <Results>, containing the results of the request. The Results content is different depending on the method and parameters passed. In this example, the result of the GetDatasetList method is shown to be a simple list of Dataset names and descriptions.

In JSON form, the example above returns data as follows (white-space and indentation added for clarity):

```
"BEAAPI": {
    "Request": {
        "RequestParam":[
                "ParameterName": "USERID",
                "ParameterValue": " Your-36Character-
                "ParameterName": "RESULTFORMAT",
                "ParameterValue": "JSON"
            },
            {
                "ParameterName": "METHOD",
"ParameterValue": "GETDATASETLIST"
   },
"Results":{
        "Dataset":
        ſ
                "DatasetName": "NIPA"
                "DatasetDescription": "Standard NIPA
            },
                "DatasetName": "NIUnderlyingDetail",
"DatasetDescription": "Standard NI underlying
                detail tables'
                "DatasetName": "MNE",
                "DatasetDescription": "Multinational
                Enterprises"
                "DatasetName": "FixedAssets",
                "DatasetDescription": "Standard Fixed
                Assets tables"
            }.
                "DatasetName": "ITA".
                "DatasetDescription": "International Transactions Accounts"
                "DatasetName": "IIP",
                "DatasetDescription": "International Investment Position"
                "DatasetName": "GDPbyIndustry",
                "DatasetDescription": "GDP by
                Industry"
            },
                "DatasetName": "RegionalIncome",
"DatasetDescription": "Regional Income data
                "DatasetName": "Regional Product",
                "DatasetDescription": "Regional Product data
                sets"
            }
        ]
   }
```

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Error Return Format

When invalid values are supplied for parameters in a request, or required parameters are missing, the results contain an error message – for example:

API Calling Limits

The API has default calling limits as shown below. These limits are meant to protect BEA's API and webserver infrastructure from activity that may be detrimental to that infrastructure and/or unfairly impede other API users.

- 1000 API calls per minute, and/or
- 30 errors per minute, and/or
- 50 MB (raw data) per minute.

Any user that exceeds the above calling limits will receive an explanatory error message for each API call until the per-minute cause has expired. The best way to avoid such errors is to design your application to call the API within these limits, e.g., programmatically regulate the frequency/size of API calls.

Meta-Data API Methods

The API contains three methods for retrieving meta-data as follows:

GetDataSetList – retrieves a list of the datasets currently offered.

Required Parameters: UserID, Method Optional Parameters: ResultFormat

Result: *Dataset* node with *DatasetName* and *DatasetDescription* attributes.

Example Request:

https://www.bea.gov/api/data?&UserID=Your-36Character-

<u>Key&method=GETDATASETLIST&ResultFormat=XML&</u>

Example Return:

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The RegionalData data set is obsolete and API calls using this data set will no longer function. Users should instead access the datasets RegionalIncome and RegionalProduct, which provide comprehensive detail in statistics, industries, geography, and years. See Appendices I and J for instructions on how to use these two data sets. In addition, BEA continues to add new datasets as appropriate, and while any new datasets will be announced on the BEA's website Developers page (https://www.bea.gov/developers), we also encourage users to periodically call the above GETDATASETLIST discover new datasets.

GetParameterList – retrieves a list of the parameters (required and optional) for a particular dataset.

Required Parameters: UserID, Method, DatasetName

Optional Parameters: ResultFormat

Result: Parameter node with attributes:

- ParameterName the name of the parameter as used in a data request
- ParameterDataType String or Integer
- ParameterDescription a description of the parameter
- Parameter Is Required 0 if the parameter can be omitted from a request, 1 if required
- ParameterDefaultValue the default value used for the request if the parameter is not supplied
- MultipleAcceptedFlag 0 if the parameter may only have a single value, 1 if multiple values are permitted. Note that multiple values for a parameter are submitted as a comma-separated string.
- AllValue the special value for a parameter that means all valid values are used without supplying them individually.

Example Request 1:

<u>https://www.bea.gov/api/data?&UserID=Your-36Character-Key&method=getparameterlist&datasetname=RegionalIncome&ResultFormat=XML</u>

Example Return 1:

In this example, the parameters for the "RegionalIncome" dataset are being requested. The results indicate that the dataset has four parameters: GeoFips, LineCode, TableName, and Year.

GeoFips is a string typed parameter indicating the geographic codes requested. GeoFIPS is required.

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Multiple values are accepted, in a comma-delimited list, and there are special values such as COUNTY for all counties.

TableName is a string typed parameter that specifies what table has the statistic requested. We can't tell from this what the valid TableNames are, but we can see that it is required (and therefore has no default value), and that multiple values are not allowed (and therefore there is no special "all" value).

LineCode specifies the requested statistic in the table. This integer is the line code in the table specified in the TableName parameter. We don't know what these line codes are, but we can send another request to find out.

Year is a string typed parameter containing the years requested. It is not required in a request, and if is not included, the default value used is "LAST5". A comma-delimited list of years is accepted, as well as other special values like "LAST10" and "ALL".

Example Request 2:

<u>https://www.bea.gov/api/data?&UserID=Your-36Character-</u> Key&method=getparameterlist&datasetname=RegionalProduct&ResultFormat=XML

Example Return 2:

In this example, the parameters for the "RegionalProduct" dataset are being requested. The results indicate that the dataset has four parameters: GeoFips, Component, IndustryId, and Year.

GeoFIPS is a string typed parameter described as the GeoFIPS code. GeoFIPS is required. Multiple values are accepted, and there are special parameters to specify a group of areas, like "STATE" for all states.

Component is an integer corresponding to a GDP component. We don't have the list of Components in this request but we can tell it is required.

Industry is an integer used to specify which industry is being requested for a given Component. We can't tell from this what the industryIds are, but we can see that it is required (and therefore has no default value), and that multiple values are not allowed (and therefore there is no special "all" value).

Year is string typed parameter described as "Year". It is not required in a request, and if is not included, the default value used is "LAST5" for the last available five years. "ALL" and "LAST10" are also available. To choose specific years, submit a comma-delimited list of years, like "1990,2000,2010".

GetParameterValues – retrieves a list of the valid values for a particular parameter.

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Required Parameters: UserID, Method, DatasetName, ParameterName

Optional Parameters: ResultFormat

Result: *ParamValue* node with attributes that contain the actual permissible values (and usually a description of the value).

Example Request 1:

<u>https://bea.gov/api/data?&UserID=Your-36Character-</u> <u>Key&method=GetParameterValues&datasetname=RegionalProduct&ParameterName=Component&</u>

Example Return 1:

```
<BEAAPI >
<Request>
 <RequestParam ParameterName="USERID" ParameterValue="Your-36Character-Key" />
<RequestParam ParameterName="METHOD" ParameterValue="GetParameterValues" />
 <RequestParam ParameterName="DatasetName" ParameterValue="Regional Product" />
 <RequestParam ParameterName="ParameterName" ParameterValue="Component" />
 <RequestParam ParameterName="ResultFormat" ParameterValue="XML" />
 </Request>
 <Results>
 <ParamValue Desc="Compensation of employees [State Annual NAICS]" Key="COMP_SAN"/>
 <ParamValue Desc="Compensation of employees [State Annual SIC]" Key="COMP_SAS"/>
 <ParamValue Desc="Gross domestic product (GDP) by metropolitan area [Metro Annual NAICS]" Key="GDP_MAN"/>
 <ParamValue Desc="Gross domestic product (GDP) by state [State Annual NAICS]" Key="GDP_SAN"/>
 <ParamValue Desc="Gross domestic product (GDP) by state [State Annual SIC]" Key="GDP_SAS"/>
<ParamValue Desc="Gross domestic product (GDP) by state [State Quarterly NAICS]" Key="GDP_SQN"/>
 <ParamValue Desc="Gross operating surplus [State Annual NAICS]" Key="GOS_SAN"/>
 <ParamWalue Desc="Gross operating surplus [State Annual SIC]" Key="GOS_SAS"/>
<ParamWalue Desc="Total personal consumption expenditures (PCE) by state [State Personal Consumption Expenditures]"</pre>
 Kev="PCE SAN"/>
 <ParamValue Desc="Per capita personal consumption expenditures (PCE) by state [State Personal Consumption Expenditures]</p>
 Kev="PCPCE SAN"/>
 <ParamValue Desc="Per capita real GDP by metropolitan area [Metro Annual NAICS]" Key="PCRGDP_MAN"/>
 <ParamValue Desc="Per capita real GDP by state [State Annual NAICS]" Key="PCRGDP_SAN"/>
 <ParamValue Desc="Per capita real GDP by state [State Annual SIC]" Key="PCRGDP_SAS"</pre>
 <ParamValue Desc="Quantity indexes for real GDP by metropolitan area [Metro Annual NAICS]" Key="QI_MAN"/>
 <ParamValue Desc="Quantity indexes for real GDP by state [State Annual NAICS]" Key="QI_SAN"/>
 <ParamValue Desc="Quantity indexes for real GDP by state [State Annual SIC]" Key="QI_SAS"/>
<ParamValue Desc="Quantity indexes for real GDP by state [State Quarterly NAICS]" Key="QI_SQN"/>
 <ParamValue Desc="Real GDP by metropolitan area [Metro Annual NAICS]" Key="RGDP_MAN"/>
 <ParamValue Desc="Real GDP by state [State Annual NAICS]" Key="RGDP_SAN"/>
 <ParamValue Desc="Real GDP by state [State Annual SIC]" Key="RGDP_SAS"/>
 <ParamValue Desc="Real GDP by state [State Quarterly NAICS]" Key="RGDP_SQN"/>
 <ParamValue Desc="Subsidies [State Annual NAICS]" Key="SUBS_SAN"/>
 <ParamValue Desc="Subsidies [State Annual SIC]" Key="SUBS_SAS"/>
 <ParamValue Desc="Taxes on production and imports [State Annual NAICS]" Key="TOPI_SAN"/>
 <ParamValue Desc="Taxes on production and imports [State Annual SIC]" Key="TOPI_SAS"/>
 <ParamValue Desc="Taxes on production and imports less subsidies [State Annual NAICS]" Key="TOPILS_SAN"/>
 <ParamValue Desc="Taxes on production and imports less subsidies [State Annual SIC]" Key="TOPILS_SAS"/>
</Results>
</BEAAPI >
```

Example Request 2:

https://bea.gov/api/data?&UserID=Your-36Character-

 $\underline{\textit{Key\&method} = \textit{GetParameterValues\&datasetname} = \textit{RegionalIncome\&ParameterName} = \textit{TableName\&ResultFormat} = \textit{XML}$

Example Return 2:

```
<BEAAPI > <Request>
```

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```
<RequestParam ParameterValue="Your-36Character-Key" ParameterName="USERID"/>
<RequestParam ParameterValue="XML" ParameterName="RESULTFORMAT"/>
<RequestParam ParameterValue="REGIONALINCOME" ParameterName="NATASETNAME"/>
<RequestParam ParameterValue="CETPARAMETERVALUES" ParameterName="METHOD"/>
<RequestParam ParameterValue="TABLENAME" ParameterName="PARAMETERNAME"/>
                   </Request>
                   <Results>
                                    <ParamWalue Desc="Personal Income Summary: Personal Income, Population, Per Capita Personal Income (Non-Industry) [A]"</p>
                   Key="CA1"/
                                 | ParamVal ue | Desc="Regional | Price | Parities (Non-Industry) | [A]" | Key="RPPI"/> | ParamVal ue | Desc="Personal | Income | Summary | Personal | Income, | Population, | Per | Capita | Personal | Income (Non-Industry) | [A]" | Key="SA25"/> | ParamVal ue | Desc="Total | Full - Time | And | Part-Time | Employment | Dy NAICS | Industry (NAICS) | [A]" | Key="SA25"/> | ParamVal ue | Desc="Total | Full - Time | And | Part-Time | Employment | Dy NAICS | Industry (NAICS) | [A]" | Key="SA25"/> | ParamVal ue | Desc="Full - Time | And | Part-Time | Wage | and | Salary | Employment | Dy NAICS | Industry (NAICS) | [A]" | Key="SA27"/> | ParamVal ue | Desc="Full - Time | And | Part-Time | Wage | and | Salary | Employment | Dy NAICS | Industry (NAICS) | [A]" | Key="SA27"/> | ParamVal ue | Desc="Personal | Current | Transfer | Receipts (Non-Industry) | [A]" | Key="SA35"/> | ParamVal ue | Desc="Personal | Income | and | Employment | Dy Major | Component (Non-Industry) | [A]" | Key="SA46"/> | ParamVal ue | Desc="Personal | Income | And | Employment | Dy Major | Component | Component | ParamVal ue | Desc="Personal | Income | Major | Component | Earnings | Dy SIC | Industry | SIC | [A]" | Key="SA57"/> | ParamVal ue | Desc="Personal | Income | Dy Major | Component | And | Earnings | Dy SIC | Industry | SIC | [A]" | Key="SA57"/> | ParamVal ue | Desc="Personal | Income | Dy Major | Component | And | Earnings | Dy SIC | Industry | (A) | Key="SA57"/> | ParamVal ue | Desc="Personal | Income | Dy Major | Component | And | Earnings | Dy NAICS | Industry | (A) | Key="SA57"/> | ParamVal ue | Desc="Personal | Income | Dy Major | Component | And | Earnings | Dy NAICS | Industry | (A) | Key="SA58"/> | ParamVal ue | Desc="Personal | Income | Dy Major | Component | And | Earnings | Dy NAICS | Industry | (A) | Key="SA58"/> | ParamVal ue | Desc="Personal | Income | Dy Major | Component | And | Earnings | Dy NAICS | Industry | (A) | Key="SA58"/> | ParamVal ue | Desc="Personal | Income | Dy Major | Component | And | Earnings | Dy NAICS | Industry
</BEAAPI >
```

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To summarize, the API includes three methods that retrieve meta-data about the statistics that are available: GetDatasetList, GetParameterList, and GetParameterValues. **There is also a** *new* **method called GetParameterValuesFiltered.**

GetParameterValuesFiltered – retrieves a list of the valid values for a particular parameter <u>based on other provided parameters</u>.

In our example above with the RegionalIncome data set, it is necessary to supply a TableName and LineCode. You will want to discover the LineCode values available for a given TableName. The GetParameterValuesFiltered method is designed to do this.

GetParameterValuesFiltered will return values for one target parameter based on the values of other named parameters.

Example request to retrieve the valid LineCode values for a given TableName:

<u>https://bea.gov/api/data?&UserID=Your-36Character-Key&method=GetParameterValuesFiltered&datasetname=RegionalIncome&TargetParameter=LineCode&TableName=SA1&ResultFormat=XML</u>

Example return:

```
<BEAAPI>
  <Request>
  <RequestParam ParameterValue="Your-36Character-Key" ParameterName="USERID"/>
  <RequestParam ParameterValue="XML" ParameterName="RESULTFORMAT"/>
  <RequestParam ParameterValue="XML" ParameterName="RESULTFORMAT"/>
  <RequestParam ParameterValue="LINECODE" ParameterName="TARCETPARAMETER"/>
  <RequestParam ParameterValue="SAI" ParameterName="TABLENAME"/>
  <RequestParam ParameterValue="REGIONALINCOME" ParameterName="DATASETNAME"/>
  <RequestParam ParameterValue="GETPARAMETERVALUESFILTERED" ParameterName="METHOD"/>
  </Regulest>
  <ParamValue Desc="[SAI] Personal income (thousands of dollars)" Key="1"/>
  <ParamValue Desc="[SAI] Population (persons)" Key="2"/>
  <ParamValue Desc="[SAI] Per capita personal income (dollars)" Key="3"/>
  </Results>
  </
```

All results from GetParameterValuesFiltered contain "Desc" and "Key". Key is the value you will want to pass in as a parameter to the data request for the target parameter you specified. In our example, a desired Key will be passed into LineCode.

Although there is only one TargetParameter, mulitiple other parameters may be passed in. For example you may want to know what years are available for a given TableName and GeoFips--

Example request:

https://bea.gov/api/data/?&UserID=Your-36Character-Key&method=GetParameterValuesFiltered&datasetname=RegionalIncome&TargetParameter=Year&Table Na me=CA5N&GeoFips=01001&ResultFormat=XML

Example return:

```
<REQUEST>
  <RequestParam ParameterValue="YEAR" ParameterName="TARGETPARAMETER"/>
  <RequestParam ParameterValue="CA5N" ParameterName="TABLENAME"/>
  <RequestParam ParameterValue="XML" ParameterName="RESULTFORMAT"/>
  <RequestParam ParameterValue="XML" ParameterName="RESULTFORMAT"/>
  <RequestParam ParameterValue="REGIONALINCOME" ParameterName="DATASETNAME"/>
  <RequestParam ParameterValue="GETPARAMETERVALUESFILTERED" ParameterName="METHOD"/>
  <RequestParam ParameterValue="Your-36CharacterKey" ParameterName="USERID"/>
```

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There are many more examples of using GetParameterValuesFiltered in the Regional appendices I and J.

Please note that the GetParameterValuesFiltered method does not yet work with all BEA data sets. If you try GetParametersValuesFiltered on a data set that does not yet support it, an error will be returned--

Data Retrieval API Method

The API has one method for retrieving data – *GetData*.

Every data retrieval request requires the UserID, Method, and DatasetName parameters. Each dataset has a defined set of parameters – some required and others optional. Each dataset returns different results that are documented in appendices to this document.

GetData

Required Parameters: UserID, Method, DatasetName, additional required parameters (depending on the dataset)

Optional Parameters: ResultFormat, additional optional parameters (depending on the dataset)

Result: *Dimensions* nodes with attributes:

- Ordinal ordinal number indicating a standardized order of returned dimensions note that attributes in returned data are not guaranteed to be in any particular order. Programmatic usage of attributes should refer to them by name.
- Name The Name of each data dimension returned
- DataType *string* or *numeric* whether the data dimension is purely numeric or should be treated as string data

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• IsValue – most datasets have one dimension that represents the statistic of interest, and the other dimensions are descriptive of the statistic. IsValue = 1 for the data dimension that is the statistic of interest, otherwise 0. The statistic of interest is usually numeric so that it can be summarized or aggregated based on the descriptive dimension values.

Each Dataset contains different dimensions. There are a few pre-defined dimensions that are common to most Datasets, including:

- CL_UNIT a descriptor of the units reported for the data value (e. g. USD for U. S. dollars, and PC for percent)
- UNIT_MULT a descriptor of the multiplier that applies to the data value. This value is the base-10 exponent that should be applied to the data value (e. g. amounts reported in millions would have a UNIT_MULT of 6; amounts reported in billions would have a UNIT_MULT of 9).

The specific meaning of each dimension is described in the Appendix for each dataset.

The result then includes *Data* nodes containing the actual results specified in the parameters. Each *Data* node contains one attribute for each data dimension (specified in the Dimensions nodes).

Finally, the result may include *Note* nodes. Notes (as in footnotes) further describe or qualify any of the other nodes in the result (or the result node itself). A result node qualified by a *Note* has an attribute named *NoteRef*. If a result node includes the *NoteRef* attribute, the value for it will always be present among the Notes nodes.

Example Request 1:

https://www.bea.gov/api/data/?&UserID=Your-36Character-Key&method=GetData&datasetname=RegionalIncome&TableName=CA1&LineCode=3&GeoFIPS=DE&Year=2014&ResultFormat=XML&

In this example, the GetData method is used to return a result from the dataset named RegionalIncome. The TableId and LineCode parameters are used to request statistic for "Per Capita personal income (county annual income)". The GeoFIPS parameter value is "DE" – meaning the data for all counties in Delaware are requested. A single year's data is requested – 2015.

Note that the GeoFIPS parameter could have been "COUNTY" for all counties, or a list of individual state or county GeoFIPS codes. Also, multiple years could have been requested by providing them in a commaseparated list, or the special year parameters "LAST5" or "LAST10" could be used.

Example Return 1:

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In this example the *Result* node contains a *NoteRef* attribute having the value "2", and there is a *Notes* node having the NoteRef value of "2". This should be interpreted as meaning that the NoteText attribute for that *Notes* node applies to the whole result.

Example Request 2:

```
https://www.bea.gov/api/data?&UserID=Your-36Character-

Key&method=GetData&datasetname=RegionalIncome&TableName=SA1&GeoFIPS=STATE

&LineCode=3&Year=2013&ResultFormat=XML&
```

In this example, the GetData method is used to return the dataset named RegionalIncome. The TableName and LineCode parameters are used to request statistic for "Per capita personal income (dollars)" – as shown in the result of the first GetParameterValuesFiltered example above. The GeoFIPS parameter value is "STATE" – meaning the data for all states is requested. Finally, a single year's data is requested – 2013.

Note that the GeoFIPS parameter could have been a list of 5-digit geographic codes. Also, multiple years could have been requested by providing them in a comma-separated list.

Example Return 2:

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```
<Data DataValue="75,329" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="District of Columbia" GeoFips="11000"</p>
Code="SA1-3"
       <Data DataValue="41,497" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="Florida" GeoFips="12000" Code="SA1-</pre>
        <Data DataValue="37,845" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="Georgia" GeoFips="13000" Code="SA1-3"/>
<Data NoteRef="*" DataValue="45,204" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="Hawaii" GeoFips="15000"
="SA1-3"/>
Code=
       < Data \ Data Value = "36, 146" \ UNIT\_MULT = "0" \ CL\_UNIT = "dollars" \ Time Period = "2013" \ GeoName = "Idaho" \ GeoFips = "16000" \ Code = "SA1-3"/collars" \ Time Period = "2013" \ GeoName = "Illinois" \ GeoFips = "17000" \ Code = "SA1-3"/collars" \ Time Period = "2013" \ GeoName = "Illinois" \ GeoFips = "17000" \ Code = "SA1-3"/collars" \ Time Period = "2013" \ GeoName = "Illinois" \ GeoFips = "17000" \ Code = "SA1-3"/collars" \ Time Period = "2013" \ GeoName = "Illinois" \ GeoFips = "17000" \ Code = "SA1-3"/collars" \ Time Period = "2013" \ GeoName = "Illinois" \ GeoFips = "17000" \ Code = "SA1-3"/collars" \ Time Period = "2013" \ GeoName = "Illinois" \ GeoFips = "17000" \ Code = "SA1-3"/collars" \ Time Period = "2013" \ GeoName = "Illinois" \ GeoFips = "17000" \ Code = "SA1-3"/collars" \ Time Period = "2013" \ GeoName = "Illinois" \ GeoFips = "17000" \ Code = "SA1-3"/collars" \ Time Period = "2013" \ GeoName = "Illinois" \ GeoFips = "17000" \ Code = "SA1-3"/collars" \ Time Period = "2013" \ GeoName = "Illinois" \ GeoFips = "17000" \ Code = "SA1-3"/collars" \ Time Period = "2013" \ GeoName = "Illinois" \ GeoFips = "17000" \ Code = "SA1-3"/collars" \ Time Period = "2013" \ GeoName = "Illinois" \ GeoFips = "17000" \ Code = "SA1-3"/collars" \ Time Period = "2013" \ GeoName = "Illinois" \ GeoFips = "17000" \ Code = "SA1-3"/collars" \ Time Period = "2013" \ GeoName = "Illinois" \ GeoFips = "17000" \
3"/>
        <Data DataValue="38,622" UNIT MULT="0" CL UNIT="dollars" TimePeriod="2013" GeoName="Indiana" GeoFips="18000" Code="SA1-</p>
3"/>
        <Data DataValue="44,763" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="Iowa" GeoFips="19000" Code="SA1-3"/>
<Data DataValue="44,417" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="Kansas" GeoFips="20000" Code="SA1-3"/>
3"/>
       <Data DataValue="36,214" UNIT_MULT="0" CL_UNIT="dollars" TimePeri od="2013" GeoName="Kentucky" GeoFips="21000" Code="SA1-</pre>
3"/>
       <Data DataValue="41,204" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="Louisiana" GeoFips="22000" Code="SA1-</pre>
                                                                                                                                                                                                  <Data DataValue="40,924" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="Maine" GeoFips="23000"
<Data DataValue="53,826" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="Maryland" GeoFips="2400"</pre>
                                                                                                                                                                                                                                  Code="SA1-
                   DataValue="57, 248" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="Massachusetts" GeoFips="25000"
Code=
       <Data DataValue="39,055" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="Michigan" GeoFips="26000" Code="SA1-</pre>
3"/>
       <Data DataValue="47,500" UNIT MULT="0" CL UNIT="dollars" TimePeriod="2013" GeoName="Minnesota" GeoFips="27000" Code="SA1-</pre>
3"/>
       <Data DataValue="33,913" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="Mississippi" GeoFips="28000" Code="SA1-</pre>
3"/>
       <Data DataValue="40, 663" UNIT_MULT="0" CL_UNIT="dollars" TimePeri od="2013" GeoName="Mi ssouri " GeoFi ps="29000" Code="SA1-</p>
3"/>
       <Data DataValue="39,366" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="Montana" GeoFips="30000" Code="SA1-</pre>
3"/>
       <Data DataValue="47,157" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="Nebraska" GeoFips="31000" Code="SA1-</pre>
3"/>
       <Data DataValue="39, 235" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="Nevada" GeoFips="32000" Code="SA1-</pre>
3"/>
       <Data DataValue="51,013" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="New Hampshire" GeoFips="33000"</pre>
       <Data DataValue="55, 386" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="New Jersey" GeoFips="34000" Code="SA1-</pre>
       <Data DataValue="35,965" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="New Mexico" GeoFips="35000" Code="SA1-</pre>
3"/>
        <Data DataValue="54, 462" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="New York" GeoFips="36000" Code="SA1-</pre>
3"/>
       <Data DataValue="38,683" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="North Carolina" GeoFips="37000"</pre>
Code="SA1-3"
       <Data DataValue="53, 182" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="North Dakota" GeoFips="38000"</pre>
Code=
       - Onta DataValue="41,049" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="0hio" GeoFips="39000" Code="SA1-3"/>
<Data DataValue="41,861" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="0klahoma" GeoFips="40000" Code="SA1-3"/>
       <Data DataValue="39,848" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="0regon" GeoFips="41000" Code="SA1-</pre>
3"/>
       <Data DataValue="46, 202" UNIT MULT="0" CL UNIT="dollars" TimePeriod="2013" GeoName="Pennsylvania" GeoFips="42000"</p>
Code="SA1-3"
       <Data DataValue="46, 989" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="Rhode Island" GeoFips="44000"</pre>
        Data DataValue="35,831" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="South Carolina" GeoFips="45000"
Code="SA1-3"
        <Data DataValue="46,039" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="South Dakota" GeoFips="46000"
Code="SAI-3"/>
        <Data DataValue="39,558" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="Tennessee" GeoFips="47000" Code="SA1-</pre>
       3"/>
       <Data DataValue="48,838" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="Virginia" GeoFips="51000" Code="SA1-</pre>
3"/>
       < \textbf{Data DataValue} = "47,717" \quad \textbf{UNIT\_MULT} = "0" \quad \textbf{CL\_UNIT} = "dollars" \quad \textbf{TimePeriod} = "2013" \quad \textbf{GeoName} = "Washington" \quad \textbf{GeoFips} = "53000" \quad \textbf{Code} = "SA1-toplars" \quad \textbf{Code} = "SA1-to
3"/>
       <Data DataValue="35,533" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="West Virginia" GeoFips="54000"</pre>
Code="SA1-3"
       <Data DataValue="43,244" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="Wisconsin" GeoFips="55000" Code="SA1-</p>
3"/>
       <Data DataValue="52,826" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="Wyoming" GeoFips="56000" Code="SA1-</pre>
3"/>
       <Data DataValue="54,797" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="New England" GeoFips="91000" Code="SA1-</pre>
3"/>
       <Data DataValue="52, 485" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="Mideast" GeoFips="92000" Code="SA1-</pre>
3"/>
       <Data DataValue="42, 192" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="Great Lakes" GeoFips="93000" Code="SA1-</pre>
3"/>
       <Data DataValue="44,796" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="Plains" GeoFips="94000" Code="SA1-</pre>
3"/>
       <Data DataValue="39,760" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="Southeast" GeoFips="95000" Code="SA1-</pre>
3"/>
       <Data DataValue="42,074" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="Southwest" GeoFips="96000" Code="SA1-</pre>
        <Data DataValue="42,391" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="Rocky Mountain" GeoFips="97000"</pre>
       <Data DataValue="47,185" UNIT_MULT="0" CL_UNIT="dollars" TimePeriod="2013" GeoName="Far West" GeoFips="98000" Code="SA1-</pre>
       <Notes NoteRef="2" NoteText="Per capita personal income is total personal income divided by total midyear population."/>
<Notes NoteRef="*" NoteText="Estimates prior to 1950 are not available for Alaska and Hawaii."/>
<Notes NoteRef="Note--" NoteText="All dollar estimates are in current dollars (not adjusted for inflation)."/>
```

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```
<Notes NoteRef=" " NoteText="Last updated: March 25, 2015-- new estimates for 2014."/> <\! Results> <\! ABEAAPI >
```

In this example the *Result* node contains a *NoteRef* attribute having the value "2", and there is a *Notes* node having the NoteRef value of "2". This should be interpreted as meaning that the NoteText attribute for that *Notes* node applies to the whole result.

There are two *Data* nodes having a NoteRef attribute with the value "*", and there is one *Notes* nodes having the matching NoteRef attribute ("*"). This should be interpreted to mean that the *Notes* node having NoteRef = "*" apply as a group to the corresponding *Data* nodes.

DataSet Documentation

BEA expects to publish several API Datasets containing a variety of economic statistics. The Datasets that are currently available are each documented separately as appendices here.

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Appendix A – RegionalData (DEPRECATED)

The RegionalData data set is obsolete and API calls using this data set will no longer function. Users should instead access the datasets RegionalIncome and RegionalProduct, which provide comprehensive detail in statistics, industries, geography, and years. See Appendices I and J for instructions on how to use these two data sets.

Appendix B - NIPA (National Income and Product Accounts)

The DataSetName is NIPA. This dataset contains data from the National Income and Product Accounts which include measures of the value and composition of U.S.production and the incomes generated in producing it. NIPA data is provided on a table basis; individual tables contain between fewer than 10 to more than 200 distinct data series. Four parameters are used to retrieve data from the NIPA dataset, as follows:

Name	Туре	Description	Is Required	Multiple Values Accepted	"All" value
TableName	String	The standard NIPA table identifier	No	No	N/A
TableID	Integer	Database identifier; will be deprecated in December 2017	No	No	N/A
Frequency	String	List of frequencies to retrieve	Yes	Yes	N/A
Year	String	List of year(s) of data to retrieve	Yes	Yes	X ALL
ShowMillions		Discontinued; see detailed note below			

Example calls

Percent change in Real Gross Domestic Product, Annually and Quarterly for all years

https://www.bea.gov/api/data/?&UserID=Your-36Character-Key&method=GetData&DataSetName=NIPA&TableName=T10101&Frequency=A,Q&Year=ALL&ResultFormat=xml

Personal Income, Monthly, for 2015 and 2016

https://www.bea.gov/api/data/?&UserID=Your-36Character-Key&method=GetData&DataSetName=NIPA&TableName=T20600&Frequency=M&Year=2015,2016&ResultFormat=xml

API Call [GETPARAMETERVALUES] to Obtain a List of Available Values & Descriptions for Each Parameter

[Details of each are described in the section below.]

Parameter Name Parameter Value List

https://www.bea.gov/api/data/?&UserID=Your-36Character-

TableName Key&method=GetParameterValues&DataSetName=NIPA&ParameterName=

TableName&ResultFormat=xml

TableId	https://www.bea.gov/api/data/?&UserID=Your-36Character- Key&method=GetParameterValues&DataSetName=NIPA&ParameterName= TableId&ResultFormat=xml
Frequency	https://www.bea.gov/api/data/?&UserID=Your-36Character- Key&method=GetParameterValues&DataSetName=NIPA&ParameterName= Frequency&ResultFormat=xml
Year	https://www.bea.gov/api/data/?&UserID=Your-36Character- Key&method=GetParameterValues&DataSetName=NIPA&ParameterName= Year&ResultFormat=xml

TableName Parameter – optional (will be required, December 2017)

The TableName parameter is a string that identifies a specific NIPA table. Only one NIPA table can be requested in each data request. Requests with an invalid combination of TableName, Frequency or Year values will result in an error. Either the TableName or TableID parameter must be passed or an error will result.

NOTE: This parameter is newly introduced in October 2017 and will replace the TableID parameter. Both the TableName and TableID parameter are optional; if the TableName and TableID values do not reference the same table, an error will be returned.

TableID Parameter – optional (will be discontinued, December 2017)

The TableID parameter is an integer that also refers to a specific NIPA table. Only one NIPA table can be requested in each data request. Either the TableName or TableID parameter must be passed or an error will result.

NOTE: This parameter will be discontinued in December 2017. Any request including the TableID will include a note in the response providing the TableName parameter value to perform that request once TableID is discontinued. Both the TableName and TableID parameter are optional; if the TableName and TableID values do not reference the same table, an error will be returned.

Frequency Parameter – (required, multiple values allowed)

The Frequency parameter is a string that refers to the time series for the requested NIPA table. Multiple frequencies are requested by specifying them as a comma-delimited string, e. g. "A,Q,M".

When data is requested for frequencies that are not available for the requested NIPA table, only data that is available is returned; if no data is available for the requested frequencies, an error will be returned.

When calling the GetParameterValues method and passing a TableName value the response will identify the valid frequencies for that table.

Accepted parameter values are:

- 1. A Annual
- 2. Q Quarterly
- 3. M Monthly

Year Parameter – (required, multiple values allowed)

The Year parameter specifies the year(s) of the data requested. When quarterly or monthly data are requested all available quarters for the specified year(s) will be returned. Multiple years are requested by specifying them as a comma-delimited string, e. g. "2000,2001,2002".

If the request supplies the special value X or ALL for the Year parameter, all available years of data for that NIPA table returned. Note that using the X or ALL value for all years can return large amounts of data, and should be avoided when the actual required years are known.

When data is requested for years that are not available for the requested NIPA table, only data that is available is returned; if no data is available for the requested year(s), an error will be returned.

When calling the GetParameterValues method and passing a TableName value the response will identify the valid years for that table.

ShowMillions Parameter – (discontinued; October 2017)

The ShowMillions parameter is discontinued. In its place the data response's MULT_UNIT field now returns the scaling of each observation. Please consult the MULT_UNIT field description, below, for further details.

NIPA Dataset Result Data

NIPA (National Income and Product Accounts) Dimensions Elements in Return Data

Parameter Name	Ordinal	Datatype	IsValue	Description
TableName	1	String	No	Unique identifier for the NIPA table requested.
Tableld	2	String	No	Integer identifier for the NIPA table requested.
SeriesCode	3	String	No	A unique identifier for the time series of the data item.
LineNumber	4	String	No	Sequence of the data item within the table.
LineDescription	5	String	No	A description of the transactions measured in the data item.
TimePeriod	6	String	No	Time period for the data item in the form YYYY for annual data; YYYYQn for quarterly data (where n is the quarter digit); or YYYYMx for monthly data (where x is the month digit).
Metric_Name	7	String	No	String indicating the measurement of the data item. Example values are Current Dollars, Fisher Price Index, etc.
CL_UNIT	8	String	No	The calculation type of the data item.

UNIT_MULT	9	String	No	An integer representing the base-10 exponent of the multiplier used to interpret the data value. For example "6" refers to millions (DataValue × 10 ⁶).
DataValue	10	Numeric	Yes	Value of the data item, formatted with commas.

A NoteRef attribute is also included in all data elements and acts as a reference to one of the Notes elements in the returned data. The NoteRef attribute may have multiple values represented by a comma-delimited string. Any NoteRef attribute included in the data is guaranteed to have a corresponding Notes element. For the NIPA dataset, every data element includes at least one Noteref that corresponds to a Note element containing the title of the table.

Additional Information

Explanation of the estimates can be found in the National section of our website: https://bea.gov/national/. Please consult the schedule of releases which impacts data and table availability. Updates and changes to the accounts are detailed at: https://www.bea.gov/national/an1.htm. National Income and Product Account Methodologies can be found in our https://www.bea.gov/national/an1.htm. National Income and Product Account

Appendix C - NIPA Underlying Detail (National Income and Product Accounts)

The DataSetName is NIUnderlyingDetail. This dataset contains underlying detail data from the National Income and Product Accounts which include measures of the value and composition of U.S.production and the incomes generated in producing it. NIPA Underlying Detail data is provided on a table basis; individual tables contain between fewer than 10 to more than 200 distinct data series. Four parameters are used to retrieve data from the NIPA Underlying Detail dataset, as follows:

Name	Туре	Description	Is Required	Multiple Values Accepted	"All" value
TableName	String	The standard NIPA table identifier	No	No	N/A
TableID	Integer	Database identifier; will be deprecated in December 2017	No	No	N/A
Frequency	String	List of frequencies to retrieve	Yes	Yes	N/A
Year	String	List of year(s) of data to retrieve	Yes	Yes	X ALL

Example calls

Personal Conumption Expenditures, Current Dollars, Annually, Quarterly and Monthly for all years

https://www.bea.gov/api/data/?&UserID=Your-36Character-Key&method=GetData&DataSetName=NIUnderlyingDetail&TableName=U20305&Frequency=A,Q,M&Year=ALL&ResultFormat=xml

Auto and Truck Unit Sales, Production, Inventories, Expenditures and Price, Monthly, for 2015 and 2016

https://www.bea.gov/api/data/?&UserID=Your-36Character-Key&method=GetData&DataSetName=NIUnderlyingDetail &TableName=U70205S&Frequency=M&Year=2015,2016&ResultFormat=xml

API Call [GETPARAMETERVALUES] to Obtain a List of Available Values & Descriptions for Each Parameter

[Details of each are described in the section below.]

Parameter Name Parameter Value List

https://www.bea.gov/api/data/?&UserID=Your-36Character-

TableName Key&method=GetParameterValues&DataSetName=NIUnderlyingDetail&ParameterName= TableName&ResultFormat=xml

TableId	https://www.bea.gov/api/data/?&UserID=Your-36Character- Key&method=GetParameterValues& DataSetName=NIUnderlyingDetail&ParameterName= TableId&ResultFormat=xml
Frequency	https://www.bea.gov/api/data/?&UserID=Your-36Character- Key&method=GetParameterValues& DataSetName=NIUnderlyingDetail&ParameterName= Frequency&ResultFormat=xml
Year	https://www.bea.gov/api/data/?&UserID=Your-36Character- Key&method=GetParameterValues& DataSetName=NIUnderlyingDetail&ParameterName= Year&ResultFormat=xml

TableName Parameter – optional (will be required, December 2017)

The TableName parameter is a string that identifies a specific NIPA Underlying Detail table. Only one NIPA Underlying Detail table can be requested in each data request. Requests with an invalid combination of TableName, Frequency or Year values will result in an error. Either the TableName or TableID parameter must be passed or an error will result.

NOTE: This parameter is newly introduced in October 2017 and will replace the TableID parameter. Both the TableName and TableID parameter are optional; if the TableName and TableID values do not reference the same table, an error will be returned.

TableID Parameter – optional (will be discontinued, December 2017)

The TableID parameter is an integer that also refers to a specific NIPA Underlying Detail table. Only one NIPA Underlying Detail table can be requested in each data request. Either the TableName or TableID parameter must be passed or an error will result.

NOTE: This parameter will be discontinued in December 2017. Any request including the TableID will include a note in the response providing the TableName parameter value to perform that request once TableID is discontinued. Both the TableName and TableID parameter are optional; if the TableName and TableID values do not reference the same table, an error will be returned.

Frequency Parameter – (required, multiple values allowed)

The Frequency parameter is a string that refers to the time series for the requested NIPA Underlying Detail table. Multiple frequencies are requested by specifying them as a comma-delimited string, e. g. "A,Q,M".

When data is requested for frequencies that are not available for the requested NIPA Underlying Detail table, only data that is available is returned; if no data is available for the requested frequencies, an error will be returned.

When calling the GetParameterValues method and passing a TableName value the response will identify the valid frequencies for that table.

Accepted parameter values are:

- 1. A Annual
- 2. Q Quarterly
- 3. M Monthly

Year Parameter – (required, multiple values allowed)

The Year parameter specifies the year(s) of the data requested. When quarterly or monthly data are

requested all available quarters for the specified year(s) will be returned. Multiple years are requested by specifying them as a comma-delimited string, e. g. "2000,2001,2002".

If the request supplies the special value X or ALL for the Year parameter, all available years of data for that NIPA Underlying Detail table are returned. Note that using the X or ALL value for all years can return large amounts of data, and should be avoided when the actual required years are known.

When data is requested for years that are not available for the requested NIPA Underlying Detail table, only data that is available is returned; if no data is available for the requested year(s), an error will be returned.

When calling the GetParameterValues method and passing a TableName value the response will identify the valid years for that table.

NIPA Underlying Detail Dataset Result Data

NIPA (National Income and Product Accounts) Dimensions Elements in Return Data

Parameter Name	Ordinal	Datatype	IsValue	Description
TableName	1	String	No	Unique identifier for the NIPA table requested.
TableId	2	String	No	Integer identifier for the NIPA table requested.
SeriesCode	3	String	No	A unique identifier for the time series of the data item.
LineNumber	4	String	No	Sequence of the data item within the table.
LineDescription	5	String	No	A description of the transactions measured in the data item.
TimePeriod	6	String	No	Time period for the data item in the form YYYY for annual data; YYYYQn for quarterly data (where n is the quarter digit); or YYYYMx for monthly data (where x is the month digit).
Metric_Name	7	String	No	String indicating the measurement of the data item. Example values are Current Dollars, Fisher Price Index, etc.
CL_UNIT	8	String	No	The calculation type of the data item.

UNIT_MULT	9	String	No	An integer representing the base-10 exponent of the multiplier used to interpret the data value. For example "6" refers to millions (DataValue × 10 ⁶).
DataValue	10	Numeric	Yes	Value of the data item, formatted with commas.

A NoteRef attribute is also included in all data elements and acts as a reference to one of the Notes elements in the returned data. The NoteRef attribute may have multiple values represented by a comma-delimited string. Any NoteRef attribute included in the data is guaranteed to have a corresponding Notes element. For the NIPA dataset, every data element includes at least one Noteref that corresponds to a Note element containing the title of the table.

Additional Information

Explanation of the estimates can be found in the National section of our website: https://bea.gov/national/. Please consult the schedule of releases which impacts data and table availability. Updates and changes to the accounts are detailed at: https://www.bea.gov/national/an1.htm. National Income and Product Account Methodologies can be found in our https://www.bea.gov/national/an1.htm. National Income and Product Account

Appendix D - Fixed Assets

The FixedAssets dataset contains data from the standard set of Fixed Assets tables as published online. Two parameters are used to retrieve data from the Fixed Assets dataset, as follows:

Name	Туре	Description	Is Required	Multiple Values Accepted	"All" value
TableID	Integer	The standard Fixed Assets table identifier	Yes	No	N/A
Year	integer	List of year(s) of	Yes	Yes	X ALL

TableID Parameter

The TableID parameter is an integer that refers to a specific Fixed Assets table. As shown above, the parameter is required, and only one Fixed Assets table can be requested in each GetData submission.

The full list of valid Fixed Assets TableIDs is as follows:

```
<ParamValue TableID="16" Description="Table 1, 1, Current-Cost Net Stock of Fixed Assets and Consumer Durable Goods (A)"/>
  <ParamValue TableID="17" Description="Table 1. 2. Chain-Type Quantity Indexes for Net Stock of Fixed Assets and Consumer Durable Goods (A)" />
  <ParamValue TableID="86" Description="Table 1, 3. Current-Cost Depreciation of Fixed Assets and Consumer Durable Goods (A)" /</p>
  <ParamValue TableID="87" Description="Table 1. 4. Chain-Type Quantity Indexes for Depreciation of Fixed Assets and Consumer Durable Goods (A)" />
  <ParamValue TableID="96" Description="Table 1. 5. Investment in Fixed Assets and Consumer Durable Goods (A)" /</p>
  <ParamValue TableID="97" Description="Table 1. 6. Chain-Type Quantity Indexes for Investment in Fixed Assets and Consumer Durable Goods (A)" />
  <ParamValue TableID="105" Description="Table 1. 7. Current-Cost Other Changes in Volume of Assets for Fixed Assets and Consumer Durable Goods (A)" />
  <ParamValue TableID="124" Description="Table 1. 8. Historical-Cost Other Changes in Volume of Assets for Fixed Assets and Consumer Durable Goods (A)" />
  <ParamValue TableID="125" Description="Table 1. 9. Current-Cost Average Age at Yearend of Fixed Assets and Consumer Durable Goods (A)" />
<ParamValue TableID="18" Description="Table 2. 1. Current-Cost Net Stock of Private Fixed Assets, Equipment, Structures, and Intellectual Property Products by Type (A)" />
  <ParamValue TableID="19" Description="Table 2. 2. Chain-Type Quantity Indexes for Net Stock of Private Fixed Assets, Equipment, Structures, and Intellectual Property Products by Type
  <ParamValue TableID="42" Description="Table 2. 3. Historical-Cost Net Stock of Private Fixed Assets, Equipment, Structures, and Intellectual Property Products by Type (A)" />
  <ParamValue TableID="65" Description="Table 2. 4. Current-Cost Depreciation of Private Fixed Assets, Equipment, Structures, and Intellectual Property Products by Type (A)" />
  <ParamValue TableID="66" Description="Table 2. 5. Chain-Type Quantity Indexes for Depreciation of Private Fixed Assets, Equipment, Structures, and Intellectual Property Products by
Type (A)" />
  <ParamValue TableID="67" Description="Table 2. 6. Historical-Cost Depreciation of Private Fixed Assets, Equipment, Structures, and Intellectual Property Products by Type (A)" />
  <ParamValue TableID="51" Description="Table 2. 7. Investment in Private Fixed Assets, Equipment, Structures, and Intellectual Property Products by Type (A)"
  <ParamValue TableID="52" Description="Table 2. 8. Chain-Type Quantity Indexes for Investment in Private Fixed Assets, Equipment, Structures, and Intellectual Property Products by
Type (A)"
  <ParamValue TableID="106" Description="Table 2. 9. Current-Cost Average Age at Yearend of Private Fixed Assets, Equipment, Structures, and Intellectual Property Products by Type</p>
  <ParamValue TableID="107" Description="Table 2. 10. Historical-Cost Average Age at Yearend of Private Fixed Assets, Equipment, Structures, and Intellectual Property Products by Type
(A)"
  <ParamValue TableID="21" Description="Table 3. 1E. Current-Cost Net Stock of Private Equipment by Industry (A)" />
  <ParamValue TableID="126" Description="Table 3. 1ESI. Current-Cost Net Stock of Private Fixed Assets by Industry (A)" />
  <ParamValue TableID="127" Description="Table 3. II. Current-Cost Net Stock of Intellectual Property Products by Industry (A)"/>
  <ParamValue TableID="22" Description="Table 3. 1S. Current-Cost Net Stock of Private Structures by Industry (A)" />
  <ParamValue TableID="24" Description="Table 3. 2E. Chain-Type Quantity Indexes for Net Stock of Private Equipment by Industry (A)" />
  <ParamValue TableID="128" Description="Table 3. 2ESI. Chain-Type Quantity Indexes for Net Stock of Private Fixed Assets by Industry (A)" />
  <ParamValue TableID="129" Description="Table 3. 21. Chain-Type Quantity Indexes for Net Stock of Intellectual Property Products by Industry (A)" />
  <ParamValue TableID="25" Description="Table 3. 2S. Chain-Type Quantity Indexes for Net Stock of Private Structures by Industry (A)" />
  <ParamValue TableID="44" Description="Table 3. 3E. Historical-Cost Net Stock of Private Equipment by Industry (A)" //
  <ParamValue TableID="130" Description="Table 3. 3ESI. Historical-Cost Net Stock of Private Fixed Assets by Industry (A)" /:
  <ParamValue TableID="131" Description="Table 3. 3I. Historical-Cost Net Stock of Private Intellectual Property Products by Industry (A)" />
  <ParamValue TableID="45" Description="Table 3. 3S. Historical-Cost Net Stock of Private Structures by Industry (A)" /2
  <ParamValue TableID="69" Description="Table 3. 4E. Current-Cost Depreciation of Private Equipment by Industry (A)" />
  <ParamValue TableID="132" Description="Table 3. 4ESI. Current-Cost Depreciation of Private Fixed Assets by Industry (A)" /:
  <ParamValue TableID="133" Description="Table 3. 4I. Current-Cost Depreciation of Private Intellectual Property Products by Industry (A)" />
  <ParamValue TableID="70" Description="Table 3. 4S. Current-Cost Depreciation of Private Structures by Industry (A)" />
  <ParamValue TableID="72" Description="Table 3. 5E. Chain-Type Quantity Indexes for Depreciation of Private Equipment by Industry (A)" />
  ParamValue TableID="134" Description="Table 3. 5ESI. Chain-Type Quantity Indexes for Depreciation of Private Fixed Assets by Industry (A)"/>
ParamValue TableID="135" Description="Table 3. 5I. Chain-Type Quantity Indexes for Depreciation of Private Intellectual Property Products by Industry (A)"/>
  <ParamValue TableID="73" Description="Table 3. 5S. Chain-Type Quantity Indexes for Depreciation of Private Structures by Industry (A)" />
  <ParamValue TableID="75" Description="Table 3. 6E. Historical-Cost Depreciation of Private Equipment by Industry (A)"
  <ParamValue TableID="136" Description="Table 3. 6ESI. Historical-Cost Depreciation of Private Fixed Assets by Industry (A)" />
  <ParamValue TableID="137" Description="Table 3. 6I. Historical-Cost Depreciation of Private Intellectual Property Products by Industry (A)" />
  <ParamValue TableID="76" Description="Table 3. 6S. Historical-Cost Depreciation of Private Structures by Industry (A)" />
  <ParamValue TableID="54" Description="Table 3. 7E. Investment in Private Equipment by Industry (A)"
  <ParamValue TableID="138" Description="Table 3. 7ESI. Investment in Private Fixed Assets by Industry (A)" />
  <ParamValue TableID="139" Description="Table 3. 71. Investment in Private Intellectual Property Products by Industry (A)" />
  <ParamValue TableID="55" Description="Table 3. 7S. Investment in Private Structures by Industry (A)" />
  <ParamValue TableID="57" Description="Table 3. 8E. Chain-Type Quantity Indexes for Investment in Private Equipment by Industry (A)" />
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Note that the description of each table also indicates that only annual data is available. Requesting an invalid TableID returns this error:

```
<Error APIErrorCode="201" APIErrorDescription="Error retrieving Fixed Assets data. ">
<ErrorDetail Description="Invalid table IDs were requested." />
```

```
</Error>
```

Omitting the TableID parameter returns this error:

```
<Error APIErrorCode="40" APIErrorDescription="The dataset requested requires parameters that were missing from the request. ">
    <AdditionalDetail>
    <MissingParameter ParameterName="TableID" ParameterDescription="The standard Fixed Assets table identifier" />
    </AdditionalDetail>
    </Error>
```

Year Parameter

The Year parameter is an integer that specifies the year(s) of data for the requested Fixed Assets table. As shown above, the parameter is required, and multiple years can be requested in each GetData submission. Multiple years are requested by specifying them as a comma-delimited string, e. g. "2000,2001,2002". When data is requested for years that don't exist for a particular Fixed Assets table, only data that exists is returned. For example, if years in the future are requested – like "2013,2014,2015", the most recent available data is returned starting with 2013. If the request supplies the special value X or ALL for the Year parameter, all available years of data are returned. Note that using the X or ALL value for all years can return large amounts of data, and should be avoided when the actual required years are known.

If only years that don't exist for a particular table are requested, this error is returned:

Using the GetParameterValues meta-data retrieval method for the Year parameter returns a list of the valid year ranges for each Fixed Assets table. Each Fixed Assets table may have a different range of years. For example, Table 1 (at the time of this writing) has annual data from 1925 through 2012 available as indicated in this example return data from the GetParameterValues method:

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<pre><paramvalue firstannualyear="1997" lastannualyear="2012" tableid="101"></paramvalue> <paramvalue firstannualyear="1901" lastannualyear="2012" tableid="103"></paramvalue> <paramvalue firstannualyear="1997" lastannualyear="2012" tableid="104"></paramvalue> <paramvalue firstannualyear="1995" lastannualyear="2012" tableid="105"></paramvalue> <paramvalue firstannualyear="1925" lastannualyear="2012" tableid="106"></paramvalue> <paramvalue firstannualyear="1925" lastannualyear="2012" tableid="107"></paramvalue> <paramvalue firstannualyear="1925" lastannualyear="2012" tableid="108"></paramvalue> <paramvalue firstannualyear="1947" lastannualyear="2012" tableid="108"></paramvalue> <paramvalue firstannualyear="1947" lastannualyear="2012" tableid="110"></paramvalue> <paramvalue firstannualyear="1947" lastannualyear="2012" tableid="111"></paramvalue> <paramvalue firstannualyear="1947" lastannualyear="2012" tableid="113"></paramvalue> <paramvalue firstannualyear="1925" lastannualyear="2012" tableid="114"></paramvalue> <paramvalue firstannualyear="1925" lastannualyear="2012" tableid="115"></paramvalue> <paramvalue firstannualyear="1925" lastannualyear="2012" tableid="116"></paramvalue> <paramvalue firstannualyear="1925" lastannualyear="2012" tableid="117"></paramvalue> <paramvalue firstannualyear="1925" lastannualyear="2012" tableid="119"></paramvalue> <paramvalue firstannualyear="1925" lastannualyear="2012" tableid="119"></paramvalue> <paramvalue firstannualyear="1925" lastannualyear="2012" tableid="120"></paramvalue> <paramvalue firstannualyear="1925" lastannualyear="2012" tableid="121"></paramvalue> <paramvalue firstannualyear="1925" lastannualyear="2012" tableid="121"></paramvalue> <paramvalue firstannualyear="1925" lastannualyear="2012" tableid="121"></paramvalue> <paramvalue firstannualyear="1925" lastannualyear="2012" tableid="121"></paramvalue> <paramvalue firstannualyear="1925" lastannualyear="2012" tableid="124"></paramvalue> <paramvalue firstannualyear="1925" lastannualyear="2012" tableid="125"></paramvalue> <paramvalue firstannualyear="1925" lastannualyear="2012" tableid="126"></paramvalue> <paramvalue firstannualyear="1947" lastannualyear="2012" tableid="126"></paramvalue> <paramvalue firstannualyear="1947" lastannualyear="2012" tableid="128"></paramvalue> <paramvalue 101"="" firstannualyear="1997" lastannualyear="2012" tableid="131"></paramvalue> ParamValue TableID="103" FirstAnnualYear="1997" LastAnnualYear="2012" /> ParamValue TableID="104" FirstAnnualYear="1999" LastAnnualYear="2012" /> ParamValue TableID="105" FirstAnnualYear="1925" LastAnnualYear="2012" /> ParamValue TableID="106" FirstAnnualYear="1925" LastAnnualYear="2012" /> ParamValue TableID="106" FirstAnnualYear="1925" LastAnnualYear="2012" /> ParamValue TableID="108" FirstAnnualYear="1925" LastAnnualYear="2012" /> ParamValue TableID="110" FirstAnnualYear="1947" LastAnnualYear="2012" /> ParamValue TableID="111" FirstAnnualYear="1947" LastAnnualYear="2012" /> ParamValue TableID="1115" FirstAnnualYear="1947" LastAnnualYear="2012" /> ParamValue TableID="115" FirstAnnualYear="1925" LastAnnualYear="2012" /> ParamValue TableID="115" FirstAnnualYear="1925" LastAnnualYear="2012" /> ParamValue TableID="115" FirstAnnualYear="1925" LastAnnualYear="2012" /> ParamValue TableID="116" FirstAnnualYear="1925" LastAnnualYear="2012" /> ParamValue TableID="118" FirstAnnualYear="1925" LastAnnualYear="2012" /> ParamValue TableID="119" FirstAnnualYear="1925" LastAnnualYear="2012" /> ParamValue TableID="112" FirstAnnualYear="1925" LastAnnualYear="2012" /> ParamValue TableID="120" FirstAnnualYear="1925" LastAnnualYear="2012" /> ParamValue TableID="121" FirstAnnualYear="1925" LastAnnualYear="2012" /> ParamValue TableID="122" FirstAnnualYear="1925" LastAnnualYear="2012" /> ParamValue TableID="123" FirstAnnualYear="1925" LastAnnualYear="2012" /> ParamValue TableID="124" FirstAnnualYear="1925" LastAnnualYear="2012" /> ParamValue TableID="125" FirstAnnualYear="1947" LastAnnualYear="2012" /> ParamValue TableID="126" FirstAnnualYear="1947" LastAnnualYear="2012" /> ParamValue TableID="130" FirstAnnualYear="1947" LastAnnualYear="2012"</pre>
ParamValue TableID="101" FirstAnnualYear="1997" LastAnnualYear="1996"
ParamValue TableID="101" FirstAnnualYear="1997" LastAnnualYear="1996" \ ParamValue TableID="103" FirstAnnualYear="1997" LastAnnualYear="2012" \ ParamValue TableID="104" FirstAnnualYear="1999" LastAnnualYear="2012" \ ParamValue TableID="106" FirstAnnualYear="1999" LastAnnualYear="2012" \ ParamValue TableID="106" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="106" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="107" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="108" FirstAnnualYear="1947" LastAnnualYear="2012" \ ParamValue TableID="110" FirstAnnualYear="1947" LastAnnualYear="2012" \ ParamValue TableID="111" FirstAnnualYear="1947" LastAnnualYear="2012" \ ParamValue TableID="113" FirstAnnualYear="1947" LastAnnualYear="2012" \ ParamValue TableID="114" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="115" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="116" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="117" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="119" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="119" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="119" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="1120" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="1120" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="121" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="122" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="125" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="126" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="126" FirstAnnualYear="1947" LastAnnualYear="2012" \ ParamValue TableID="131" Fir
ParamValue TableID="101" FirstAnnualYear="1997" LastAnnualYear="1996" > ParamValue TableID="103" FirstAnnualYear="1997" LastAnnualYear="2012" > ParamValue TableID="104" FirstAnnualYear="1999" LastAnnualYear="2012" > ParamValue TableID="106" FirstAnnualYear="1999" LastAnnualYear="2012" > ParamValue TableID="106" FirstAnnualYear="1925" LastAnnualYear="2012" > ParamValue TableID="106" FirstAnnualYear="1925" LastAnnualYear="2012" > ParamValue TableID="106" FirstAnnualYear="1925" LastAnnualYear="2012" > ParamValue TableID="108" FirstAnnualYear="1925" LastAnnualYear="2012" > ParamValue TableID="110" FirstAnnualYear="1947" LastAnnualYear="2012" > ParamValue TableID="111" FirstAnnualYear="1947" LastAnnualYear="2012" > ParamValue TableID="113" FirstAnnualYear="1947" LastAnnualYear="2012" > ParamValue TableID="114" FirstAnnualYear="1925" LastAnnualYear="2012" > ParamValue TableID="115" FirstAnnualYear="1925" LastAnnualYear="2012" > ParamValue TableID="116" FirstAnnualYear="1925" LastAnnualYear="2012" > ParamValue TableID="117" FirstAnnualYear="1925" LastAnnualYear="2012" > ParamValue TableID="118" FirstAnnualYear="1925" LastAnnualYear="2012" > ParamValue TableID="119" FirstAnnualYear="1925" LastAnnualYear="2012" > ParamValue TableID="119" FirstAnnualYear="1925" LastAnnualYear="2012" > ParamValue TableID="1120" FirstAnnualYear="1925" LastAnnualYear="2012" > ParamValue TableID="1120" FirstAnnualYear="1925" LastAnnualYear="2012" > ParamValue TableID="121" FirstAnnualYear="1925" LastAnnualYear="2012" > ParamValue TableID="122" FirstAnnualYear="1925" LastAnnualYear="2012" > ParamValue TableID="125" FirstAnnualYear="1925" LastAnnualYear="2012" > ParamValue TableID="125" FirstAnnualYear="1925" LastAnnualYear="2012" > ParamValue TableID="126" FirstAnnualYear="1925" LastAnnualYear="2012" > ParamValue TableID="126" FirstAnnualYear="1947" LastAnnualYear="2012" > ParamValue TableID="136" FirstAnnualYear="1947" LastAnnualYear="2012" > ParamValue TableID="130" FirstAnnualYear="1947" LastAnnualYear="2012" > ParamValue TableID="130" Fir
ParamValue TableID="101" FirstAnnualYear="1997" LastAnnualYear="1996" \ ParamValue TableID="103" FirstAnnualYear="1997" LastAnnualYear="2012" \ ParamValue TableID="104" FirstAnnualYear="1999" LastAnnualYear="2012" \ ParamValue TableID="106" FirstAnnualYear="1999" LastAnnualYear="2012" \ ParamValue TableID="106" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="106" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="107" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="108" FirstAnnualYear="1947" LastAnnualYear="2012" \ ParamValue TableID="110" FirstAnnualYear="1947" LastAnnualYear="2012" \ ParamValue TableID="111" FirstAnnualYear="1947" LastAnnualYear="2012" \ ParamValue TableID="113" FirstAnnualYear="1947" LastAnnualYear="2012" \ ParamValue TableID="114" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="115" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="116" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="117" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="119" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="119" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="119" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="1120" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="1120" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="121" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="122" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="125" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="126" FirstAnnualYear="1925" LastAnnualYear="2012" \ ParamValue TableID="126" FirstAnnualYear="1947" LastAnnualYear="2012" \ ParamValue TableID="131" Fir

Fixed Assets Dataset Result Data

The Fixed Assets dataset returns data in the standard form described in the API User documentation. In XML form, the main structure of a result is:

```
<BEAAPI>
  <Request>
  <Results UTCProductionTime="Apr 16 2013 2:36PM" Statistic="Fixed Assets Table">
</BEAAPI>
```

The Request node of the result contains the parameters supplied to the request. For purposes of this example, the parameters are:

```
<RequestParam ParameterName="USERID" ParameterValue="11111111-2222-3333-EEEE-FFFFFFFFFF" />
<RequestParam ParameterName="METHOD" ParameterValue="GetData"/>
<RequestParam ParameterName="DatasetName" ParameterValue="FIXEDASSETS" />
<RequestParam ParameterName="TableID" ParameterValue="16" />
<RequestParam ParameterName="Year" ParameterValue="2012"/>
<RequestParam ParameterName="ResultFormat" ParameterValue="XML"/>
```

The result returned from this request would be:

```
<Dimensions Ordinal="1" Name="TableID" DataType="numeric" IsValue="0"/><Dimensions Ordinal="2" Name="SeriesCode" DataType="string" IsValue="0"/>
      <Dimensions Ordinal="3" Name="LineNumber" DataType="numeric" Is Value="0" />
      <Dimensions Ordinal="4" Name="LineDescription" DataType="string" IsValue="0" />
<Dimensions Ordinal="5" Name="TimePeriod" DataType="string" IsValue="0" />
     <Dimensions Ordinal="6" Name="CL_UNIT" DataType="string" IsValue="0" />
<Dimensions Ordinal="7" Name="UNIT_MULT" DataType="numeric" IsValue="0" />
      <Dimensions Ordinal="8" Name="DataValue" DataType="numeric" IsValue="1"/>
      <Data TableID="16" SeriesCode="k1wtot11es00" LineNumber="1" LineDescription="Fixed assets and consumer durable goods" TimePeriod="2012" CL_UNIT="USD" UNIT_MULT="9"</p>
DataValue="53,571.6
                                                             " NoteRef="16"
      <Data TableID="16" SeriesCode="k1ttot11es00" LineNumber="2" LineDescription="Fixed assets" TimePeriod="2012" CL_UNIT="USD" UNIT_MULT="9" DataValue="48,723.6"</p>
NoteRef="16"/>
     <Data TableID="16" SeriesCode="k1ptot11es00" LineNumber="3" LineDescription="Private" TimePeriod="2012" CL_UNIT="USD" UNIT_MULT="9" DataValue="36,215.6" [Value of the content of the cont
NoteRef="16"/>
    <Data TableID="16" SeriesCode="k1ntot1les00" LineNumber="4" LineDescription="Nonresidential" TimePeriod="2012" CL_UNIT="USD" UNIT_MULT="9" DataValue="19,903.3"
NoteRef="16"/>
    <Data TableID="16" SeriesCode="k1ntot1leq00" LineNumber="5" LineDescription="Equipment" TimePeriod="2012" CL_UNIT="USD" UNIT_MULT="9" DataValue="5,622.9" (Continue TimePeriod="2012" CL_UNIT="1,000" (Continue TimePeriod="2012" (Continue Ti
NoteRef="16"/>
    <Data TableID="16" SeriesCode="k1ntotl1st00" LineNumber="6" LineDescription="Structures" TimePeriod="2012" CL_UNIT="USD" UNIT_MULT="9" DataValue="11,944.6" (Continue of the Continue of the C
NoteRef="16"/>
    <Data TableID="16" SeriesCode="k1ntot11ip00" LineNumber="7" LineDescription="Intellectual property products" TimePeriod="2012" CL_UNIT="USD" UNIT_MULT="9"
DataValue="2.335 8
                                                             " NoteRef="16"
      <Data TableID="16" SeriesCode="k1r53101es00" LineNumber="8" LineDescription="Residential" TimePeriod="2012" CL_UNIT="USD" UNIT_MULT="9" DataValue="16,312.3"</p>
NoteRef="16" /~
     < Data TableID="16" SeriesCode="k1gtot11es00" LineNumber="9" LineDescription="Government" TimePeriod="2012" CL_UNIT="USD" UNIT_MULT="9" DataValue="12,508.0"
NoteRef="16"/>
      <Data TableID="16" SeriesCode="k1gtot11esnr" LineNumber="10" LineDescription="Nonresidential" TimePeriod="2012" CL_UNIT="USD" UNIT_MULT="9" DataValue="12,160.1"</p>
NoteRef="16"/>
      <Data TableID="16" SeriesCode="k1gtot11eq00" LineNumber="11" LineDescription="Equipment" TimePeriod="2012" CL_UNIT="USD" UNIT_MULT="9" DataValue="980.3"</p>
NoteRef="16"/>
      <Data TableID="16" SeriesCode="k1gtot11stnr"LineNumber="12" LineDescription="Structures" TimePeriod="2012" CL_UNIT="USD" UNIT_MULT="9" DataValue="10,108.6"</p>
NoteRef="16"/>
      <Data TableID="16" SeriesCode="k1 gtot11 ip00" LineNumber="13" LineDescription="Intellectual property products" TimePeriod="2012" CL_UNIT="USD" UNIT_MULT="9"
DataValue="1.071, 2
                                                           "NoteRef="16"
      <Data TableID="16" SeriesCode="k1gtot11sa00" LineNumber="14" LineDescription="Residentia1" TimePeriod="2012" CL_UNIT="USD" UNIT_MULT="9" DataValue="347.9"
NoteRef="16"/>
      <Data TableID="16" SeriesCode="k1ctot11cd00" LineNumber="15" LineDescription="Consumer durable goods" TimePeriod="2012" CL_UNIT="USD" UNIT_MULT="9"</p>
DataValue="4,848.0
                                                           " NoteRef="16" />
      <Data TableID="16" SeriesCode="k1ttot11es00" LineNumber="16" LineDescription="Private and government fixed assets" TimePeriod="2012" CL_UNIT="USD" UNIT_MULT="9"
                                                            " NoteRef="16" /:
DataValue="48,723.6
      <Data TableID="16" SeriesCode="k1ytot11es00" LineNumber="17" LineDescription="Nonresidential" TimePeriod="2012" CL_UNIT="USD" UNIT_MULT="9" Data Value="32,063.4"
NoteRef="16"/
      <Data TableID="16" SeriesCode="k1ytot11eq00" LineNumber="18" LineDescription="Equipment" TimePeriod="2012" CL_UNIT="USD" UNIT_MULT="9" DataValue="6,603.2"</p>
NoteRef="16"/>
    <Data TableID="16" SeriesCode="k1ytot11st00" LineNumber="19" LineDescription="Structures" TimePeriod="2012" CL_UNIT="USD" UNIT_MULT="9" DataValue="22,053.1"
NoteRef="16"/>
      <Data TableID="16" SeriesCode="k1ytot11ip00" LineNumber="20" LineDescription="Intellectual property products" TimePeriod="2012" CL_UNIT="USD" UNIT_MULT="9"</p>
                                                            " NoteRef="16" />
DataValue="3,407.0"
        <Data TableID="16" SeriesCode="k1x53101es00" LineNumber="21" LineDescription="Residential" TimePeriod="2012" CL_UNIT="USD" UNIT_MULT="9" DataValue="16,660.2"</p>
  NoteRef="16"/>
       <Data TableID="16" SeriesCode="k1gtot11es00" LineNumber="22" LineDescription="Government fixed assets" TimePeriod="2012" CL_UNIT="USD" UNIT_MULT="9"</p>
  DataValue="12,508.0"
                                                                " NoteRef="16" />
```

```
<Data TableID="16" SeriesCode="k1gfedr1es00" LineNumber="23" LineDescription="Federal" TimePeriod="2012" CL_UNIT="USD" UNIT_MULT="9" DataValue="3,121.6 NoteRef="16" />
```

All requests for the Fixed Assets dataset will return similar results, including the elements that describe the dimensions, data, and footnotes (Dimensions, Data, and Notes).

Dimensions Elements

The dimensions included in the returned data are:

Ordinal	Name	Datatype	IsValue
1	TableID	numeric	No
2	SeriesCode	string	No
3	LineNumber	numeric	No
4	LineDescription	No	No
5	TimePeriod	string	No
6	CL_UNIT	string	No
7	UNIT_MULT	numeric	No
8	DataValue	numeric	Yes
	NoteRef ⁶	string	No

Within the set of "Data" elements returned in the result, each of the dimensions is represented as an attribute (name/value pair). All the dimensions (attributes) have a single value, except the Noteref dimension, which can have multiple values represented as a comma-delimited string. The dimensions (attributes) are defined as follows:

TableID – The standard Fixed Assets table ID as submitted in the request (an integer).

SeriesCode – A string containing the a unique identifier for the line item in the published Fixed Assets table.

LineNumber – The line number of the data item as shown in published print versions of the published Fixed Assets table.

LineDescription – The "stub" or description of the statistic in the published Fixed Assets table.

TimePeriod – A string containing the time period for the data item in the form YYYY for annual data.

CL_UNIT – A string containing "USD" when the reported statistic is in U. S. dollars, or "PC" when the reported statistic is a percent, index, or contribution.

 $UNIT_MULT$ – An integer representing the base-10 exponent of the multiplier used to interpret the data value. For example "6" refers to millions (DataValue X 10^6) and "9" refers to billions (DataValue X 10^9).

Appendix D: Page 6 of 7 October 11, 2017

<Data TableID="16" SeriesCode="k1gstlc1es00" LineNumber="24" LineDescription="State and local" TimePeriod="2012" CL_UNIT="USD" UNIT_MULT="9" DataValue="9,386.3" NoteRef="16" />

<Notes NoteRef="16" NoteText="Table 1. 1. Current-Cost Net Stock of Fixed Assets and Consumer Durable Goods - [Billions of dollars; yearend estimates]"/>

⁶ The Noteref attribute included in the data is not shown as one of the dimension elements. Noterefs may appear as an attribute of any element in the result data (except other Noterefs), and refer to a particular NoteRef element.

DataValue – An integer or decimal value of the statistic. Always a numeric value, but may contain embedded commas.

NoteRef – a reference to one of the Notes elements. Noteref in a data element always corresponds to the Noteref in a Notes element. The Noteref attribute may have multiple values represented by a comma-delimited string. This attribute can appear in any data element, or in the Results element. Any Noteref attribute included in the data is guaranteed to have a corresponding Notes element. For the Fixed Assets dataset, every data element includes at least one Noteref that corresponds to a Note element containing the title of the table. Additional footnote references that apply to specific lines may be included in the comma-delimited Noteref string value.

Appendix E - Data on Direct Investment and Multinational Enterprises (MNEs)

The DataSetName is MNE. This dataset contains two types of statistics:

- 1. Direct Investment (DI)—income and financial transactions in direct investment that underlie the U. S. balance of payments statistics, and direct investment positions that underlie the U. S. international investment positions; and
- 2. Activities of Multinational Enterprises (AMNE)—operations and finances of U. S. parent enterprises and their foreign affiliates and U. S. affiliates of foreign MNEs.

API requests for the two types of statistics share most of the same parameters, though the allowable values for each parameter may be different, depending on the type of statistic desired (e. g., DI or AMNE).

Type 1: Direct Investment (DI) Data Request

Parameter Name	Туре	Description	Required	Multiple Values Accepted	"All" value	Default
DirectionOfInvestment	String	Outward = US direct investment abroad Inward = Foreign investment in the US	Yes	No	Not accepted	
<u>SeriesID</u>	Integer	Data Series Identifier	No	Yes	All	All
Classification	String	Results by country and/or industry	Yes	No	Not accepted	
<u>Year</u>	String	Time Period	Yes	Yes	All	
<u>Country</u>	String	Geographic Area Code	No	Yes	All	All
<u>Industry</u>	String	Industry Code	No	Yes	All	All
<u>GetFootnotes</u>	String	Yes = Include footnotes No = Exclude footnotes	No	No	Not accepted	No

Examples of Direct Investment (DI) Data Requests

U. S. direct investment position in China and Asia for 2011 and 2012

https://www.bea.gov/api/data/?&SeriesId=30&UserID= Your-36Character-Key&method=GetData&DataSetName=MNE&Year=2012,2011&Country=650,699&DirectionOfInvestment=Outw

ard&Classification=Country&ResultFormat=xml

onOfInvestment=Inward&Classification=CountryByIndustry&ResultFormat=xml

Type 2: Activities of Multinational Enterprises (AMNE) Data Request

Parameter Name	Туре	Description	Required	Multiple Values Accepted	"All" value	Default
DirectionOfInvestment	String	Outward, Inward, State, Parent	Yes	No	Not accepted	
<u>OwnershipLevel</u>	Binary	0 = Majority-Owned Affiliates 1 = All Affiliates	Yes	No	Not accepted	
<u>NonBankAffiliatesOnly</u>	Binary	0 = Both Bank and NonBank Affiliates 1 = Nonbank Affiliates	Yes	No	Not accepted	
<u>SeriesID</u>	Integer	Data Series Identifier	No	Yes	All	All
Classification	String	Results by country and/or industry	Yes	No	Not accepted	
<u>Year</u>	String	Time Period	Yes	Yes	All	
<u>Country</u>	String	Geographic Area Code	No	Yes	All	All
<u>Industry</u>	String	Industry Code	No	Yes	All	All
<u>State</u>	String	Two-digit State FIPS Code	No	No	All	All
<u>GetFootnotes</u>	String	Yes = Include footnotes No = Exclude footnotes	No	No	Not accepted	No

Examples of Activities of Multinational Enterprises (AMNE) Data Requests

Net income and sales for Brazilian affiliates of U. S. parent enterprises, all industries, 2011 and 2012

https://www.bea.gov/api/data/?&UserID= Your-36Character-

 $\underline{Key\&method=GetData\&DataSetName=MNE\&Year=2012,2011\&Country=202\&Industry=all\&DirectionOfInvestm}\\ \underline{ent=Outward\&Classification=CountryByIndustry\&SeriesId=5,4\&NonBankAffiliatesOnly=0\&OwnershipLevel=0\&R\\ \underline{esultFormat=xml}\\ \underline{$

Total employment in U. S. affiliates of foreign-owned enterprises, all countries, 2011, include footnotes

https://www.bea.gov/api/data/?&UserID= Your-36Character-

 $\underline{Key\&method=GetData\&DataSetName=MNE\&Year=2011\&Country=all\&Industry=0000\&DirectionOfInvestment=Inward\&Classification=Country\&SeriesId=8\&OwnershipLevel=0\&NonbankAffiliatesOnly=0\&GetFootnotes=Yes\&ResultFormat=xml$

API Call [GETPARAMETERVALUES] to Obtain a List of Available Values & Descriptions for Each Parameter

[Details of each are described in the section below.]

Parameter Name	Parameter Value List				
<u>DirectionOfInvestment</u>	https://www.bea.gov/api/data/?&UserID= Your-36Character-Key Y&method=GetParameterValues&DataSetName=MNE&ParameterName=Dir ectionOfInvestment&ResultFormat=xml				
<u>OwnershipLevel</u>	https://www.bea.gov/api/data/?&UserID= Your-36Character-Key &method=GetParameterValues&DataSetName=MNE&ParameterName=Ow nershipLevel&ResultFormat=xml				
<u>NonBankAffiliatesOnly</u>	https://www.bea.gov/api/data/?&UserID= Your-36Character-Key &method=GetParameterValues&DataSetName=MNE&ParameterName=Non bankAffiliatesOnly&ResultFormat=xml				
<u>SeriesID</u>	https://www.bea.gov/api/data/?&UserID=Your-36Character- Key&method=GetParameterValues&DataSetName=MNE&ParameterName= SeriesID&ResultFormat=xml				
<u>Classification</u>	https://www.bea.gov/api/data/?&UserID= Your-36Character-Key &method=GetParameterValues&DataSetName=MNE&ParameterName=Clas sification&ResultFormat=xml				
<u>Year</u>	https://www.bea.gov/api/data/?&UserID= Your-36Character-Key &method=GetParameterValues&DataSetName=MNE&ParameterName=Yea r&ResultFormat=xml				
<u>Country</u>	https://www.bea.gov/api/data/?&UserID= Your-36Character-Key &method=GetParameterValues&DataSetName=MNE&ParameterName=country&ResultFormat=xml				
<u>Industry</u>	https://www.bea.gov/api/data/?&UserID= Your-36Character-Key &method=GetParameterValues&DataSetName=MNE&ParameterName=Industry&ResultFormat=xml				
<u>State</u>	https://www.bea.gov/api/data/?&UserID= Your-36Character-Key &method=GetParameterValues&DataSetName=MNE&ParameterName=stat e&ResultFormat=xml				
<u>GetFootnotes</u>	https://www.bea.gov/api/data/?&UserID= Your-36Character-Key &method=GetParameterValues&DataSetName=MNE&ParameterName=Get Footnotes&ResultFormat=xml				

Parameter Details

DirectionOfInvestment Parameter – (Required, single value)

DirectionOfInvestment can take on two values for DI statistics and four for AMNE statistics. The two values shared by DI and AMNE statistics are:

- 1. 'Outward' for AMNE statistics, provides data for foreign affiliates; for DI statistics, provides data on transactions and positions between foreign affiliates and their U. S. parent enterprises.
- 2. 'Inward' for AMNE statistics, provides data for U. S. affiliates; for DI statistics, provides data on transactions and positions between U. S. affiliates and their foreign parent groups.

For AMNE statistics only there are two additional options:

- 3. 'State' provides data on U. S. affiliates of foreign multinational enterprises at the state level. Note that only data on employment (and for 2007 and earlier years, property, plant, and equipment) are available at the state level.
- 4. 'Parent' provides data on U. S. parent enterprises.

OwnershipLevel Parameter – (used with AMNE statistics only, required, single value)

- 1. 1 Returns data for all affiliates
- 2. 0 Returns data for majority-owned affiliates only

If DirectionOfInvestment = "Parent" then OwnershipLevel must be set to 1.

NonBankAffiliatesOnly Parameter – (used with AMNE statistics only, required, single value)

- 1. 1 Returns data for nonbank affiliates only
- 2. 0 Returns data for both bank and nonbank affiliates only

Select NonBankAffiliatesOnly = 0 for data from 2009 – present for 'outward' AMNE and from 2007 – present for 'inward' AMNE

Select NonBankAffiliatesOnly = 1 for data up to 2008 for 'outward' AMNE and up to 2006 for 'inward AMNE

SeriesID Parameter – (optional, default = 0, multiple values allowed)

Refer to the GETPARAMETERVALUES API call above for the list of SeriesID values and their descriptions. Note that not all series are available for all classes of ownership and years.

A value of 0 will return data for all available series given the other parameters. Separate

multiple values with a comma.

Classification Parameter – (required, single value)

Refer to the GETPARAMETERVALUES API call above for the list of CLASSIFICATION parameter values and their descriptions. Note that not all series are available for all classifications. The CLASSIFICATION parameter is required and must be single-valued.

Year Parameter (required, multiple values allowed)

Use the four-digit year to request data for a specific year. Use 'all' to return data for all available years. Separate multiple values with a comma.

Country Parameter – (optional, default = all, multiple values allowed)

Refer to the GETPARAMETERVALUES API call above for the list of three-digit country and region identification values. Use '000' for the total of all countries and 'all' for all available countries and regions. Separate multiple values with a comma.

Industry Parameter – (optional, default = all, multiple values allowed)

Refer to the GETPARAMETERVALUES API call above for the list of four-digit industry identification values. These generally follow the North American Industry Classification System (NAICS). Use '0000' for the all- industries total and 'all' for all available industries. Separate multiple values with a comma.

State Parameter – (optional, default = all, multiple values allowed)

At the state level, data are only available on employment and (for limited years), gross property, plant, and equipment.

Refer to the GETPARAMETERVALUES API call above for the list of the two-digit Federal Information Processing Standards (FIPS) codes, available at: https://www.bls.gov/cew/cewedr10.htm.

Use '70' for "Other U. S. Areas", '75' for "Foreign", '00' for total U. S., and 'all' for all states and areas. Separate multiple values with a comma.

GetFootnotes Parameter – (optional, default=no, single value)

- 1. 'yes' Include footnotes with data returned
- 2. 'no' Do not include footnotes with data returned

Appendix F - Gross Domestic Product by Industry (GDPbyIndustry)

The gross domestic product by industry data are contained within a dataset called GDPbyIndustry. BEA's industry accounts are used extensively by policymakers and businesses to understand industry interactions, productivity trends, and the changing structure of the U. S. economy. The GDP-by-industry dataset includes data in both current and chained (real) dollars. The dataset contains estimates for value added, gross output, intermediate inputs, KLEMS and employment statistics.

Gross Domestic Product by Industry (GDPbyIndustry) Data Request

Parameter Name	Type	Description	Required	Multiple Values Accepted	"All" value	Default
TableID	Integer	The unique GDP by Industry table identifier (ALL for All)	Yes	Yes	ALL	N/A
<u>Frequency</u>	String	A - Annual, Q-Quarterly	Yes	Yes	A,Q	N/A
<u>Year</u>	Integer	List of year(s) of data to retrieve (ALL for All)	Yes	Yes	ALL	N/A
Industry	String	List of industries to retrieve (ALL for All)	Yes	Yes	ALL	N/A

Examples of GDP by Industry (GDPbyIndustry) Data Requests

Annual Value Added by Industry data for all industries for years 2011 and 2012:

https://www.bea.gov/api/data/?&UserID=%20Your-36Character-

<u>Key&method=GetData&DataSetName=GDPbyIndustry&Year=2012,2011&Industry=ALL&tableID=1&Frequency=</u> A&ResultFormat=xml

All annual and quarterly data in all tables for the Agriculture industry in 2010.

https://www.bea.gov/api/data/?&UserID=%20Your-36Character-Key&method=GetData&DataSetName=GDPbyIndustry&Year=2010&Industry=11&tableID=ALL&Frequency=A,Q &ResultFormat=xml

API Call [GETPARAMETERVALUES] to Obtain a List of Available Values & Descriptions for Each Parameter [Details of each are described in the section below.] Parameter Name Parameter Value List

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<u>TableID</u>	https://www.bea.gov/api/data/?&UserID=%20Your-36Character- Key%20Y&method=GetParameterValues&DataSetName=GDPbyIndustry&Param eterName=TableID&ResultFormat=xml
Frequency	https://www.bea.gov/api/data/?&UserID=%20Your-36Character- Key%20Y&method=GetParameterValues&DataSetName=GDPbyIndustry&Param eterName=Frequency&ResultFormat=xml
Year	https://www.bea.gov/api/data/?&UserID=%20Your-36Character- Key%20Y&method=GetParameterValues&DataSetName=GDPbyIndustry&Param eterName=Year&ResultFormat=xml
Industry	https://www.bea.gov/api/data/?&UserID=%20Your-36Character- Key%20Y&method=GetParameterValues&DataSetName=GDPbyIndustry&Param eterName=Industry&ResultFormat=xml

Parameter Details

TableID Parameter – (Required, multiple values accepted, no default value, 'ALL' for all tables)

- The TableID parameter is a unique table identifier. This parameter is required to query data and does accept multiple comma separated values. If all tables are required, use the 'ALL' keyword.
- All tables are published annually, but only a subset are published quarterly. The Descr in the GetParameterValues result will contain (A) if the table is published annually and (Q) indicating that the table is also published quarterly.

Frequency Parameter – (Required, multiple values accepted, no default value, 'A,Q' for all frequencies)

- The Frequency parameter indicates whether annual or quarterly data are to be returned. This parameter is required to query data and does accept multiple comma separated values.
- All tables are published annually (Frequency = A) but only a subset are published quarterly (Frequency = Q)
- If a data request is submitted for both annual and quarterly data from a table that is only published annually then only the annual data will be returned.
- If a data request is submitted for quarterly data from a table that is only published annually then the user will receive the following error:

Year Parameter – (Required, multiple values accepted, no default value, 'ALL' for all years)

- The Year parameter indicates what periods of data are requested. This parameter is required to query data and does accept multiple comma separated values. Use the keyword 'ALL' to return all periods of data.
- If requesting quarterly frequency data, all available quarters for a year will be returned.
- Annual data publications begin in 1997 for most tables and 1998 for percent change and contributions tables. Quarterly data began publication in 2005.

• If a data request is submitted for quarterly or annual data before the earliest estimate period the user will receive one of the following errors:

Industry Parameter – (Required, multiple values accepted, no default value, 'ALL' for all industries)

- The Industry parameter indicates what periods of data are requested. This parameter is required to
 query data and does accept multiple comma separated values. Use the keyword 'ALL' to return all
 industries.
- All industries are published annually, but only a subset are published quarterly. The Descr in the GetParameterValues result will contain (A) if the industry is published annually and (Q) indicating that the industry is also published quarterly.
- If a data request is submitted for an industry that is not published in the requested tables the user will receive the following error:

```
<Error APIErrorCode="204" APIErrorDescription="Error retrieving GDP by Industry data. ">
    <ErrorDetail Description="Invalid industry: 111CA" />
    </Error>
```

General Use

- Data will be returned for all data cells that fit the requested criteria. If the request contains parameter values requesting data for which only part of a set is available, only the data matching the criteria will be returned. For example, requesting ALL TableIDs for 1997 will return only annual data because the quarterly publications begin in estimate year 2005. Blanks will not be returned for missing data.
- If no data fit the selected criteria the user will receive the following error:

```
<Error APIErrorCode="204" APIErrorDescription="Error retrieving GDP by Industry data. ">
    <ErrorDetail Description="No data exist for selected criteria" />
    </Error>
```

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Appendix G - ITA (International Transactions)

The DataSetName is ITA. This dataset contains data on U. S. international transactions. BEA's international transactions (balance of payments) accounts include all transactions between U. S. and foreign residents. Four parameters are used to retrieve data from the ITA dataset, as follows:

ITA (International Transactions) Data Request Parameters

Parameter Name	Туре	Description	Required	Multiple Values Accepted	"All" value	Default
Indicator	String	The indicator code for the type of transaction requested	No	Yes	All	All
AreaOrCountry	String	The area or country requested	No	Yes	All	AllCountries
Frequency	String	A - Annual, QSA - Quarterly seasonally adjusted, QNSA - Quarterly not seasonally adjusted	No	Yes	All	All
Year	String	Year requested	No	Yes	All	All

Examples of ITA (International Transactions) Data Requests

Balance on goods with China for 2011 and 2012

https://www.bea.gov/api/data/?&UserID=Your-36Character-

<u>Key&method=GetData&DataSetName=ITA&Indicator=BalGds&AreaOrCountry=China&Frequency=A&Year=2011</u>,2012&ResultFormat=xml

Net U. S. acquisition of portfolio investment assets (quarterly not seasonally adjusted) for 2013

https://www.bea.gov/api/data/?&UserID=Your-36Character-

 $\underline{Key\&method=GetData\&DataSetName=ITA\&Indicator=PfInvAssets\&AreaOrCountry=AllCountries\&Frequency=QNSA\&Year=2013\&ResultFormat=xml$

API Call [GETPARAMETERVALUES] to Obtain a List of Available Values & Descriptions for Each Parameter [Details of each are described in the section below.]					
Parameter Name	Parameter Value List				
Indicator	https://www.bea.gov/api/data/?&UserID=Your-36Character- Key&method=GetParameterValues&DataSetName=ITA&ParameterName=Indica tor&ResultFormat=xml				
AreaOrCountry	https://www.bea.gov/api/data/?&UserID=Your-36Character- Key&method=GetParameterValues&DataSetName=ITA&ParameterName=AreaOrCountry&ResultFormat=xml				
Frequency	https://www.bea.gov/api/data/?&UserID=Your-36Character- Key&method=GetParameterValues&DataSetName=ITA&ParameterName=Frequency&ResultFormat=xml				
Year	https://www.bea.gov/api/data/?&UserID=Your-36Character- Key&method=GetParameterValues&DataSetName=ITA&ParameterName=Year& ResultFormat=xml				

Parameter Details

Indicator Parameter – (optional, multiple values allowed)

The Indicator parameter specifies the type of transaction. The Indicator parameter values usually correspond to lines in ITA tables at https://www.bea.gov/iTable/iTableHtml. cfm?reqid=62&step=2&isuri=1&6210=1.

Exactly one Indicator parameter value must be provided in all data requests unless exactly one AreaOrCountry parameter value other than "ALL" and "AllCountries" is requested. That is, multiple Indicators can only be specified if a single AreaOrCountry is specified.

AreaOrCountry Parameter – (optional, multiple values allowed)

The AreaOrCountry parameter specifies the counterparty area or country of the transactions.

The default parameter value ("AllCountries") returns the total for all countries, while "All" returns all data available by area and country.

Exactly one AreaOrCountry parameter value must be provided in all data requests unless exactly one Indicator parameter value is requested. This single parameter value may not be either "ALL" or "AllCountries." That is, a list of countries or the grand total for all countries can only be specified if a single Indicator is specified.

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For information on geographic area definitions, see https://www.bea.gov/international/bp web/geographic area definitions. cfm

Frequency Parameter – (optional, multiple values allowed)

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- 3. A Annual
- 4. QSA Quarterly seasonally adjusted
- 5. QNSA Quarterly not seasonally adjusted

Year Parameter – (optional, multiple values allowed)

The Year parameter specifies the year of the data requested. When quarterly data are requested, all available quarters for the specified year will be returned.

ITA (International Transactions) Dimensions Elements in Return Data

Parameter Name	Ordinal	Datatype	IsValue	Description
Indicator	1	String	No	The Indicator parameter value of the data item.
AreaOrCountry	2	String	No	The AreaOrCountry parameter value of the data item.
Frequency	3	String	No	The Frequency parameter value of the data item.
Year	4	String	No	The Year parameter value of the data item.
TimeSeriesId	5	String	No	A unique identifier for the time series of the data item.
TimeSeriesDescription	6	String	No	A description of the transactions measured in the data item.
TimePeriod	7	String	No	A string containing the time period for the data item in the form YYYY for annual data and YYYYQn for quarterly data (where n is the quarter digit)
CL_UNIT	8	String	No	A string indicating the base unit of measurement of the data item. For example, "USD" is used when the reported statistic is in U. S. dollars.
UNIT_MULT	9	String	No	An integer representing the base-10 exponent of the multiplier used to interpret the data value. For example "6" refers to millions (DataValue × 10 ⁶).
DataValue	10	Numeric	No	An integer or decimal value of the statistic. May be blank.

A NoteRef attribute is also included in all data elements and acts as a reference to one of the Notes elements in the returned data. The NoteRef attribute may have multiple values represented by a comma-delimited string. Any NoteRef attribute included in the data is guaranteed to have a corresponding Notes element. The NoteRef attribute may be blank.

Appendix H - IIP (International Investment Position)

The DataSetName is IIP. This dataset contains data on the U. S. international investment position. BEA's international investment position accounts include the end of period value of accumulated stocks of U. S. financial assets and liabilities. Four parameters are used to retrieve data from the IIP dataset, as follows:

IIP (International Investment Position) Data Request Parameters

Parameter Name	Type	Description	Required	Multiple Values Accepted	"All" value	Default
TypeOfInvestment	String	Type of investment	No	Yes	All	All
Component	String	Component of changes in position	No	Yes	All	All
Frequency	String	A - Annual, QNSA - Quarterly not seasonally adjusted	No	Yes	All	All
Year	String	Year requested	No	Yes	All	All

Examples of IIP (International Investment Position) Data Requests

U. S. assets excluding financial derivatives; change in position attributable to price changes for all available years

https://www.bea.gov/api/data/?&UserID=Your-36Character-Key&method=GetData&DataSetName=IIP&TypeOfInvestment=FinAssetsExclFinDeriv&Component=ChgPosPrice &Frequency=A&Year=ALL&ResultFormat=xml

U. S. liabilities to foreign official agencies (quarterly not seasonally adjusted) for 2013

https://www.bea.gov/api/data/?&UserID=Your-36Character-Key&method=GetData&DataSetName=IIP&TypeOfInvestment=FinLiabsFoa&Component=Pos&Frequency=QNSA &Year=2013&ResultFormat=xml

API Call [GETPARAMETERVALUES] to Obtain a List of Available Values & Descriptions for Each Parameter [Details of each are described in the section below.]						
Parameter Name	Parameter Value List					
TypeOfInvestment	https://www.bea.gov/api/data/?&UserID=Your-36Character- Key&method=GetParameterValues&DataSetName=IIP&ParameterName=TypeOf Investment&ResultFormat=xml					
Component	https://www.bea.gov/api/data/?&UserID=Your-36Character- Key&method=GetParameterValues&DataSetName=IIP&ParameterName=Compo nent&ResultFormat=xml					
Frequency	https://www.bea.gov/api/data/?&UserID=Your-36Character- Key&method=GetParameterValues&DataSetName=IIP&ParameterName=Freque ncy&ResultFormat=xml					
Year	https://www.bea.gov/api/data/?&UserID=Your-36Character- Key&method=GetParameterValues&DataSetName=IIP&ParameterName=Year& ResultFormat=xml					

Parameter Details

TypeOfInvestment Parameter – (optional, multiple values allowed)

The TypeOfInvestment parameter specifies the type of investment. The TypeOfInvestment parameter values usually correspond to lines in IIP tables at https://www.bea.gov/iTable/iTableHtml. cfm?reqid=62&step=5&isuri=1&6210=2.

Exactly one TypeOfInvestment parameter value must be provided in all data requests unless exactly one Year parameter value other than "ALL" is requested. That is, more than one TypeOfInvestment can only be specified if a single Year is specified.

Component Parameter – (optional, multiple values allowed)

The Component parameter specifies either the position ("Pos") or a component in the change of position from the previous period. For instance, the parameter value "ChgPosTrans" specifies changes due to financial-account transactions.

Frequency Parameter – (optional, multiple values allowed)

- 1. A Annual
- 2. QNSA Quarterly not seasonally adjusted

Year Parameter – (optional, multiple values allowed)

The Year parameter specifies the year of the data requested. When quarterly data are requested, all available quarters for the specified year will be returned.

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Exactly one Year parameter value must be provided in all data requests unless exactly one TypeOfInvestment parameter value other than "ALL" is requested. That is, more than one Year can only be specified if a single TypeOfInvestment is specified.

IIP (International Investment Position) Dimensions Elements in Return Data

Parameter Name	Ordinal	Datatype	IsValue	Description
TypeOfInvestment	1	String	Nο	The TypeOfInvestment parameter value of the data item.
Component	2	String	No	The Component parameter value of the data item.
Frequency	3	String	No	The Frequency parameter value of the data item.
Year	4	String	No	The Year parameter value of the data item.
TimeSeriesId	5	String	No	A unique identifier for the time series of the data item.
TimeSeriesDescription	6	String	Nο	A description of the transactions measured in the data item.
TimePeriod	7	String	No	A string containing the time period for the data item in the form YYYY for annual data and YYYYQn for quarterly data (where n is the quarter digit)
CL_UNIT	8	String	No	A string indicating the base unit of measurement of the data item. For example, "USD" is used when the reported statistic is in U. S. dollars.
UNIT_MULT	9	String	No	An integer representing the base-10 exponent of the multiplier used to interpret the data value. For example "6" refers to millions (DataValue × 10 ⁶).
DataValue	10	Numeric	No	An integer or decimal value of the statistic. May be blank.

A NoteRef attribute is also included in all data elements and acts as a reference to one of the Notes elements in the returned data. The NoteRef attribute may have multiple values represented by a comma-delimited string. Any NoteRef attribute included in the data is guaranteed to have a corresponding Notes element. The NoteRef attribute may be blank.

Appendix I - RegionalIncome (detailed regional income and employment data sets)

The Regional Income dataset contains income and employment estimates from the Regional Economic Accounts by state, county, and metropolitan area. All data accessible through the Regional Interactive Tables on bea.gov are also available through this data set and the Regional Product data set.

RegionalIncome Request Parameters

Parameter Name	Type	Description	Required	Multiple Values Accepted	"All" value*	Default
TableName	String	Published table name	Yes	No		
LineCode	Integer	Line code in table	Yes	No		
GeoFips	String	The state, county or MSA code	Yes	Yes	STATE COUNTY MSA MIC PORT DIV CSA PO code*	
Year	String	Year requested	No	Yes	ALL LAST5 LAST10	LAST5

^{*}GeoFips -- Comma-delimited list of 5-character geographic codes; COUNTY for all counties, STATE for all states, MSA for all MSAs, MIC for all Micropolitan Areas, PORT for all state metropolitan/nonmetropolitan portions, DIV for all Metropolitan Divisions, CSA for all Combined Statistical Areas, state post office abbreviation for all counties in one state (e.g. NY).

Examples of RegionalIncome Requests

Personal income for 2012 and 2013 for all counties, in JSON

format https://bea.gov/api/data/?UserID=Your-36Character-

Key&method=GetData&datasetname=RegionalIncome&TableName=CA1&LineCode

1&Year=2012,2013&GeoFips=COUNTY&ResultFormat=json

Real per capita personal income for all states, all years, in XML format

https://bea.gov/api/data/?UserID=Your-36Character-

Key& method=GetData&datasetname=RegionalIncome&TableName=RPI1&LineCod

e=2&Y ear=ALL&GeoFips=STATE&ResultFormat=xml

API Call [GETPARAMETERVALUESFILTERED] to Obtain a List of Available Values & Descriptions for Each Parameter, Filtered by Another Parameter [Examples below] **Filtered Parameter Parameter Value List Explanation Parameter** Name **Names** https://bea.gov/api/data/?UserID=Your-36Character-Key&method=GetParameterValuesFiltered&datasetname= List Years for given **TableName** Year RegionalIncome&TargetParameter=Year&TableName=CA5 **TableNames** N,CA25N&ResultFormat=xml https://bea.gov/api/data/?UserID=Your-36Character-List of GeoFips for a **TableName** Key&method=GetParameterValuesFiltered&datasetname= given TableName and **GeoFips** RegionalIncome&TargetParameter=GeoFips&TableName= LineCode LineCode CA4&LineCode=10&ResultFormat=xml

TableName	Year Geofips	https://bea.gov/api/data/?UserID=Your-36Character- Key&method=GetParameterValuesFiltered&datasetname= RegionalIncome&TargetParameter=TableName&GeoFips= 00000&Year=2014&ResultFormat=xml	List of TableNames for a given Year and GeoFips

https://bea.gov/api/data/?UserID=Your-36Character-Key&method=GetParameterValuesFiltered&datasetname=

=SA25N&ResultFormat=json

RegionalIncome&TargetParameter=LineCode&TableName

List of LineCodes for a

TableName

Parameter Details

TableName

LineCode

TableName parameter – (required, single value)

TableName specifies a published table from the regional income accounts. Exactly one TableName must be provided.

TableName	Description	Years	Areas
CA1	Personal Income Summary: Personal Income, Population, Per Capita Personal Income	1969>	All
CA25	Total Full-Time and Part-Time Employment by SIC Industry	1969-2000	All

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CA25N	Total Full-Time and Part-Time Employment by NAICS Industry	2001-2014	All
CA30	Economic Profile	1969→	All
CA35	Personal Current Transfer Receipts	1969→	All
CA4	Personal Income and Employment by Major Component	1969→	All
CA45	Farm Income and Expenses	1969→	All
CA5	Personal Income by Major Component and Earnings by SIC Industry	1969-2000	All
CA5N	Personal Income by Major Component and Earnings by NAICS Industry	2001→	All
CA6	Compensation of Employees by SIC Industry	1998-2000	All
CA6N	Compensation of Employees by NAICS Industry	2001→	All
CA91	Gross Flow of Earnings	1990→	Counties
IRPD1	Implicit Regional Price Deflator by state	2008→	States
IRPD2	Implicit Regional Price Deflator by MSA and state portion	2008→	MSAs, Portions
RPI1	Real Personal Income by state	2008→	States, US
			MSA,
RPI2	Real Personal Income by MSA and state portion	2008→	Portions
RPP1	Regional Price Parities by state	2008→	States, US
1	negional rifee runnes by state	2000 7	
RPP2	Regional Price Parities by MSA and state portion	2008→	MSAs, Portions
SA1	Personal Income Summary: Personal Income, Population, Per Capita Personal Income	1929→	States, Regions, US
			States,
SA25	Total Full-Time and Part-Time Employment by SIC Industry	1969-2001	Regions, US

SA25N	Total Full-Time and Part-Time Employment by NAICS Industry	1998→	States, Regions, US
3/12314	Total Fall Time and Fall Time Employment by Wiles madely	1330 7	
SA27	Full-Time and Part-Time Wage and Salary Employment by SIC Industry	1969-2001	States, Regions, US
SA27N	Full-Time and Part-Time Wage and Salary Employment by NAICS Industry	1998→	States, Regions, US
CA20		1958→	States, Regions,
SA30	Economic Profile	19587	US States,
SA35	Personal Current Transfer Receipts	1929→	Regions, US
			States,
SA4	Personal Income and Employment by Major Component	1929→	Regions, US
SA40	Property Income	1958→	States, Regions, US
3,110	Troperty meanic	1550 7	States,
SA45	Farm Income and Expenses	1969→	Regions, US
			States,
SA5	Personal Income by Major Component and Earnings by SIC Industry	1958-2001	Regions, US
			States, Regions,
SA50	Personal Current Taxes	1948→	US US
			States,
SA51	Disposable Personal Income Summary: Disposable Personal Income, Population, and Per Capita Disposable Personal Income	1948→	Regions, US
	Personal Income by Major Component and Earnings by Industry		States, Regions,
SA5H	(Historical)	1929-1957	US
	Personal Income by Major Component and Earnings by NAICS		States, Regions,
SA5N	Industry	1998→	US
SA6	Compensation of Employees by SIC Industry	1958-2001	States, Regions, US
			States,
SA6N	Compensation of Employees by NAICS Industry	1998→	Regions, US

SA7	Wages and Salaries by SIC Industry	1958-2001	States, Regions, US
SA7H	Wages and Salaries by Industry (Historical)	1929-1957	States, Regions, US
SA7N	Wages and Salaries by NAICS Industry	1998→	States, Regions, US
SQ1	Personal Income Summary: Personal Income, Population, Per Capita Personal Income	1948 →	States, Regions, US
SQ35	Personal Current Transfer Receipts	1948→	States, Regions, US
SQ4		1948→	States, Regions, US
	Personal Income by Major Component		States, Regions,
SQ5	Personal Income by Major Component and Earnings by SIC Industry	1958-2001	US States,
SQ5H	Personal Income by Major Component and Earnings by Industry (Historical)	1948-1957	Regions, US
SQ5N	Personal Income by Major Component and Earnings by NAICS Industry	1998→	States, Regions, US
SQ6	Compensation of Employees by SIC Industry	1958-2001	States, Regions, US
SQ6N	Compensation of Employees by NAICS Industry	1998→	States, Regions, US
			States, Regions,
SQ7	Wages and Salaries by SIC Industry	1958-2001	US States,
SQ7H	Wages and Salaries by Industry (Historical)	1948-1957	Regions, US
SQ7N	Wages and Salaries by NAICS Industry	1998 ->	States, Regions, US
ACEmp	Total Employment (Arts and Culture Satellite Account)	2001→	States

ACComp	Total Compensation (Ats and Culture Satellite Account)	2001→	States
ACEmpRatio	Arts Employment Ratio	2001→	States
ACCompRatio	Arts Compensation Ratio	2001→	States
ACArtsEmp	ACPSA Employment	2001→	States
ACArtsComp	ACPSA Compensation	2001→	States
ACEmpLQ	Arts Employment Location Quotient	2001→	States
ACCompLQ	Arts Compensation Location Quotient	2001→	States

LineCode parameter – (required, single value)

LineCode corresponds to the statistic in a table. The available LineCodes are queried using the GetParameterValuesFiltered method. For example:

https://bea.gov/api/data/?UserID=Your-36Character-

<u>Key&method=GetParameterValuesFiltered&datasetname=RegionalIncome&TargetParameter=LineCode&TableName=SA25N&ResultFormat=json</u>

GeoFips parameter – (required, multiple value)

GeoFips specifies geography. It can be all states (STATE), all counties (COUNTY), all Metropolitan Statistical Areas (MSA), all Micropolitan Statistical Areas (MIC), all Metropolitan Divisions (DIV), all Combined Statistical Areas (CSA), or all metropolitan/nonmetropolitan portions (PORT). It can also be a list of ANSI state-county codes or metropolitan area codes. For example, the counties in Connecticut and Delaware—

09001,09003,09005,09007,09009,09011,09013,09015,10001,10003,10005 State, county, and metropolitan statistical area FIPS codes can be obtained from Census at https://www.census.gov/geo/www/ansi/ansi.html. A comprehensive list of MSAs and their component counties can be accessed here https://www.bea.gov/regional/docs/msalist.cfm.

Year parameter – (optional, multiple value)

Year is either a list of years, LAST5, LAST10, or ALL. Year will default to all available years if the parameter is not specified.

Errors

An invalid TableName or LineCode will result in an error code of 40, "The dataset requested requires parameters that were missing from the request."

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An invalid Year or GeoFips will result in an error code of 101, "No result was returned." Other errors may occur.

Additional information

Explanation of the estimates, including a schedule of the release of new regional data, can be found in the regional section of our website: https://bea.gov/regional/. Definitions of the estimates can be accessed at our glossary of regional definitions, at https://bea.gov/regional/definitions/. Regional Product and Income Methodologies can be found at https://bea.gov/regional/methods.cfm.

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Appendix J - RegionalProduct (detailed state and MSA product data sets)

The RegionalProduct dataset contains Gross Domestic Product (GDP) estimates from the Regional Economic Accounts by state and metropolitan area. All data accessible through the Regional Interactive Tables on bea.gov are also available through this data set and the RegionalIncome data set.

RegionalProduct Request Parameters

Parameter Name	Type	Description	Required	Multiple Values Accepted	"All" value	Default
Component	String	Component name	Yes	No		
IndustryId	Integer	Industry code of the Component	Yes	No		
GeoFips	String	The state or MSA code	Yes	Yes	STATE MSA	
Year	String	Year requested	No	Yes	ALL LAST5 LAST10	LAST5

Examples of Regional Product Requests

Real GDP for all years for all MSAs, in JSON format https://bea.gov/api/data/?UserID=Your-36Character-

Key&method=GetData&datasetname=RegionalProduct&Component=RGDP_MAN&IndustryId=1&Year=ALL&GeoFips=MSA&ResultFormat=json

GDP for 2012 and 2013 for selected Southeast states, for the Retail Trade industry, in XML format

https://bea.gov/api/data/?UserID=Your-36Character-

Key&method=GetData&datasetname=RegionalProduct&Component=GDP_sAN&Indu stryId=35&Year=2012,2013&GeoFips=01000,05000,12000,13000,21000,22000

28000,37000,45000,47000,51000,54000&ResultFormat=XML

API Call [GETPARAMETERVALUESFILTERED] to Obtain a List of Available Values &
Descriptions for Each Parameter, Filtered by Another Parameter [Examples below]

Parameter
Name
Parameter Parameter Value List Explanation
Names

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Year Component	https://bea.gov/api/data/?UserID=Your-36Character-Key&method=GetParameterValuesFiltered&datasetname=RegionalProduct&TargetParameter=Year&Component=PCRGDP_SAN&ResultFormat=xml	List Years for given Component
----------------	--	--------------------------------

GeoFips	Component Industryld	https://bea.gov/api/data/?UserID=Your-36Character-Key&method=GetParameterValuesFiltered&datasetname=RegionalProduct&TargetParameter=GeoFips&Component=GDP_SAN&ResultFormat=xml	List of GeoFips for a given Component
Component	Year GeoFips	https://bea.gov/api/data/?UserID=Your-36Character-Key&method=GetParameterValuesFiltered&datasetname=RegionalProduct&TargetParameter=Component&GeoFips=00000&Year=2013&ResultFormat=xml	List of Components for a given Year and GeoFips
Industryld	Component	https://bea.gov/api/data/?UserID=Your-36Character-Key&method=GetParameterValuesFiltered&datasetname=RegionalProduct&TargetParameter=IndustryId&Component=GDP_SAS&ResultFormat=xml	List of IndustryIds for a Component

Parameter Details

Component parameter – (required, single value)

Component specifies a published table from the regional product accounts. Exactly one Component must be provided.

Component	Series	Description	Years
GDP SQN	State Quarterly NAICS	GDP in current dollars	2005→
QI SQN	State Quarterly NAICS	Quantity indexes for real GDP	2005→
RGDP SQN	State Quarterly NAICS	Real GDP in chained dollars	2005 →
	Metro Annual		
GDP_MAN	NAICS Metro Annual	GDP in current dollars	2001→
PCRGDP_MAN	NAICS Metro Annual	Per capita real GDP	2001→
QI_MAN	NAICS	Quantity indexes for real GDP	2001→
RGDP_MAN	Metro Annual NAICS	Real GDP in chained dollars	2001→
COMP_SAN	State Annual NAICS	Compensation of employees	1997 →
GDP_SAN	State Annual NAICS	GDP in current dollars	1997 →

	State Annual		
GOS_SAN	NAICS	Gross operating surplus	1997 →
	State Annual		
PCRGDP_SAN	NAICS	Per capita real GDP	1997→
QI SAN	State Annual NAICS	Quantity indexes for real GDP	1997→
RGDP SAN	State Annual	Real GDP in chained dollars	1997→
KGDP_SAN	NAICS	Redi GDP III Cildilled dollars	1997 /
SUBS_SAN	State Annual	Subsidies	1997→
	NAICS	_	
TOPI_SAN	State Annual NAICS	TOPI	1997→
TOPILS_SAN	State Annual NAICS	TOPI less subsidies	1997→
GDP_SAS	State Annual SIC	Gross domestic product (GDP) by state	1963-1997
TOPILS_SAS	State Annual SIC	Taxes on production and imports less subsidies	1963-1997
COMP_SAS	State Annual SIC	Compensation of employees	1963-1997
SUBS_SAS	State Annual SIC	Subsidies	1963-1997
TOPI_SAS	State Annual SIC	Taxes on production and imports	1963-1997
GOS_SAS	State Annual SIC	Gross operating surplus	1963-1997
QI_SAS	State Annual SIC	Quantity indexes for real GDP by state	1963-1997
RGDP_SAS	State Annual SIC	Real GDP by state	1963-1997
PCRGDP_SAS	State Annual SIC	Per capita real GDP by state	1963-1997
PCE_SAN	State Annual	Personal Consumption Expenditures (PCE) by state	1997 →
PCPCE_SAN	State Annual	Per capita Personal Consumption Expenditures (PCE) by state	1997 →

GeoFips parameter— (required, multiple value)

GeoFips specifies geography. It can be all states (STATE) or all Metropolitan Statistical Areas (MSA). It can also be a list of ANSI state-county codes or metropolitan area codes.

State and metropolitan statistical area FIPS codes can be obtained from Census at https://www.census.gov/geo/www/ansi/ansi.html. A comprehensive list of MSAs and their component counties can be accessed here https://www.bea.gov/regional/docs/msalist.cfm.

Year parameter – (optional, multiple value)

Year is either a list of years, LAST5, LAST10, or ALL. Year will default to all available years if the

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parameter is not specified.

Errors

An invalid Component or IndustryId will result in an error code of 40, "The dataset requested requires parameters that were missing from the request."

An invalid Year or GeoFips will result in an error code of 101, "No result was returned." Other errors may occur.

Additional Information

Explanation of the estimates, including a schedule of the release of new regional data, can be found in the regional section of our website: https://bea.gov/regional/. Definitions of the estimates can be accessed at our glossary of regional definitions, at https://bea.gov/regional/definitions/. Regional Product and Income Methodologies can be found at https://bea.gov/regional/methods.cfm.

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Appendix K - Input-Output Statistics (InputOutput)

The Input-Output Statistics are contained within a dataset called InputOutput. BEA's industry accounts are used extensively by policymakers and businesses to understand industry interactions, productivity trends, and the changing structure of the U.S. economy. The input-output accounts provide a detailed view of the interrelationships between U.S. producers and users. The Input-Output dataset contains Make Tables, Use Tables, and Direct and Total Requirements tables.

InputOutput Data Request

Parameter Name	Туре	Description	Required	Multiple Values Accepted	"All" value	Default
TableID	Integer	The unique Input Output table identifier	Yes	Yes	N/A	N/A
<u>Year</u>	Integer	List of year(s) of data to retrieve	Yes	Yes	ALL	N/A

Examples of InputOutput Data Requests

Data from The Use of Commodities by Industries, Before Redefinitions (Producer's Prices) sector level table for years 2010, 2011, and 2012:

https://www.bea.gov/api/data/?&UserID=%Your-36Character-Key&method=GetData&DataSetName=InputOutput&Year=2010,2011,2012,2013&tableID=2&&ResultFormat=x ml

Data for 2007 from The Make of Commodities by Industries, Before Redefinitions sector and summary level tables:

https://www.bea.gov/api/data/?&UserID=%Your-36Character-Key&method=GetData&DataSetName=InputOutput&Year=2007&tableID=46,47&&ResultFormat=xml

API Call [GETPARAMETERVALUES] to Obtain a List of Available Values & Descriptions for Each Parameter [Details of each are described in the section below.] Parameter Name Parameter Value List https://www.bea.gov/api/data/?&UserID=%Your-36Character-Key &method=GetParameterValues&DataSetName=InputOutput&ParameterName= TableID&ResultFormat=xml

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https://www.bea.gov/api/data/?&UserID=%Your-36Character-Key &method=GetParameterValues&DataSetName=InputOutput&ParameterName= Year&ResultFormat=xml

Parameter Details

TableID Parameter (Required, multiple values accepted, no default value)

• The TableID parameter is a unique table identifier. This parameter is required to query data and does accept multiple comma separated values.

Year Parameter (Required, multiple values accepted, no default value, 'ALL' for all years)

• The Year parameter indicates what periods of data are requested. This parameter is required to query data and does accept multiple comma separated values. Use the keyword 'ALL' to return all periods of data.

General Use

- Data will be returned for all data cells that fit the requested criteria. If the request contains parameter values requesting data for which only part of a set is available, only the data matching the criteria will be returned. For example, requesting ALL Years Use Tables evaluated in Purchasers Value will return data for only 2007 because these tables are only published in benchmark years. Blanks will not be returned for missing data.
- If no data fit the selected criteria the user will receive the following error:

<Error APIErrorCode="205" APIErrorDescription="Error retrieving Input-Output data.">
 <ErrorDetail Description="No data exist for selected criteria" />
 </Error>

Appendix L – Underlying Gross Domestic Product by Industry (UnderlyingGDPbyIndustry)

The underlying gross domestic product by industry data are contained within a dataset called UnderlyingGDPbyIndustry. BEA's industry accounts are used extensively by policymakers and businesses to understand industry interactions, productivity trends, and the changing structure of the U.S. economy. The underlying GDP-by-industry dataset includes data in both current and chained (real) dollars. The dataset contains estimates for value added, gross output, and intermediate input statistics. This dataset is structurally similar to the GDPbyIndustry dataset (Appendix F), but contains additional industry detail.

Please Note: Cautionary Note on use of underlying detail tables -- The Bureau of Economic Analysis does not include these detailed estimates in the published tables because their quality is significantly less than that of the higher level aggregates in which they are included.

Underlying Gross Domestic Product by Industry (UnderlyingGDPbyIndustry) Data Request

Parameter Name	Type	Description	Required	Multiple Values Accepted	"All" value	Default
TableID	Integer	The unique GDP by Industry table identifier (ALL for All)	Yes	Yes	ALL	N/A
<u>Frequency</u>	String	Q-Quarterly	Yes	Yes	Q	N/A
<u>Year</u>	Integer	List of year(s) of data to retrieve (ALL for All)	Yes	Yes	ALL	N/A
Industry	String	List of industries to retrieve (ALL for All)	Yes	Yes	ALL	N/A

Examples of Underlying GDP by Industry (UnderlyingGDPbyIndustry) Data Requests

Quarterly Value Added by Industry data for all industries for years 2012 and 2013:

https://www.bea.gov/api/data/?&UserID=%20Your-36Character-Key&method=GetData&DataSetName=underlyingGDPbyIndustry&Year=2013,2012&Industry=ALL&tableID=1&Frequency=Q&ResultFormat=xml

All quarterly data in all tables for the Agriculture industry in 2012.

https://www.bea.gov/api/data/?&UserID=%20Your-36Character-Key&method=GetData&DataSetName=underlyingGDPbyIndustry&Year=2012&Industry=11&tableID=ALL&Frequency=Q&ResultFormat=xml

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API Call [GETPARAMETERVALUES] to Obtain a List of Available Values & Descriptions for Each Parameter

[Details of each are described in the section below.]

Parameter Name	Parameter Value List
<u>TableID</u>	https://www.bea.gov/api/data/?&UserID=%20Your-36Character- Key%20Y&method=GetParameterValues&DataSetName=underlyingGDPbyIndust ry&ParameterName=TableID&ResultFormat=xml
Frequency	https://www.bea.gov/api/data/?&UserID=%20Your-36Character- Key%20Y&method=GetParameterValues&DataSetName=underlyingGDPbyIndust ry&ParameterName=Frequency&ResultFormat=xml
Year	https://www.bea.gov/api/data/?&UserID=%20Your-36Character- Key%20Y&method=GetParameterValues&DataSetName=underlyingGDPbyIndust ry&ParameterName=Year&ResultFormat=xml
Industry	https://www.bea.gov/api/data/?&UserID=%20Your-36Character- Key%20Y&method=GetParameterValues&DataSetName=underlyingGDPbyIndust ry&ParameterName=Industry&ResultFormat=xml

Parameter Details

TableID Parameter (Required, multiple values accepted, no default value, 'ALL' for all tables)

- The TableID parameter is a unique table identifier. This parameter is required to query data and does accept multiple comma separated values. If all tables are required, use the 'ALL' keyword.
- The Descr in the GetParameterValues result will contain a (Q) indicating that the table is published quarterly. No Annual data is available in the underlying GDP by industry dataset

Frequency Parameter (Required, multiple values accepted, no default value)

- The Frequency parameter indicates whether annual or quarterly data are to be returned. This parameter is required to query data and does accept multiple comma separated values.
- All tables are published quarterly (Frequency = Q). No Annual data is currently available in the underlying GDP by industry dataset
- If a data request is submitted for annual data then the user will receive the following error:

Year Parameter (Required, multiple values accepted, no default value, 'ALL' for all years)

- The Year parameter indicates what periods of data are requested. This parameter is required to query data and does accept multiple comma separated values. Use the keyword 'ALL' to return all periods of data.
- All available quarters for a year will be returned.

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- Underlying GDP by industry data publications begin in 2012 to present
- If a data request is submitted for quarterly data before the earliest estimate period the user will receive one of the following errors:

Industry Parameter (Required, multiple values accepted, no default value, 'ALL' for all industries)

- The Industry parameter indicates what periods of data are requested. This parameter is required to query data and does accept multiple comma separated values. Use the keyword 'ALL' to return all industries.
- The Descr in the GetParameterValues result will contain (Q) if the industry is published quarterly and (A) indicating that the industry is also published annually.
- If a data request is submitted for an industry that is not published in the requested tables the user will receive the following error:

```
<Error APIErrorCode="206" APIErrorDescription="Error retrieving GDP by Industry data.">
    <ErrorDetail Description="Invalid industry: 11" />
    </Error>
```

General Use

- Data will be returned for all data cells that fit the requested criteria. If the request contains parameter values requesting data for which only part of a set is available, only the data matching the criteria will be returned. For example, requesting 1,101 TableIDs for 2012 will return only table 1 data because the tableID 101 does not exist. Blanks will not be returned for missing data.
- If no data fit the selected criteria the user will receive the following error:

```
<Error APIErrorCode="206" APIErrorDescription="Error retrieving GDP by Industry data.">
    <ErrorDetail Description="No data exist for selected criteria" />
    </Error>
```

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Appendix M - IntlServTrade (International Services Trade)

The DataSetName is IntlServTrade. This dataset contains annual data on U.S. international trade in services. These data are updated each October to reflect the International Transactions Accounts annual update released in June. BEA's statistics on services supplied through affiliates by multinational enterprises are not included in this dataset. Five parameters are used to retrieve data from the IntlServTrade dataset, as follows:

IntlServTrade (International Services Trade) Data Request Parameters

Parameter Name	Туре	Description	Required	Multiple Values Accepted	"All" value	Default
TypeOfService	String	The type of service requested	No	Yes	All	All
TradeDirection	String	The trade direction requested	No	Yes	All	All
Affiliation	String	The affiliation requested	No	Yes	All	All
AreaOrCountry	String	The area or country requested	No	Yes	All	AllCountries
Year	String	The year requested	No	Yes	All	All

Examples of IntlServTrade (International Services Trade) Data Requests

Imports of services from Germany for 2014 and 2015

https://www.bea.gov/api/data/?&UserID=Your-36Character-

<u>Key&method=GetData&DataSetName=IntlServTrade&TypeOfService=AllServiceTypes&TradeDirection=Imports&Affiliation=AllAffiliations&AreaOrCountry=Germany&Year=2014,2015&ResultFormat=xml</u>

Exports of telecommunications services by U.S. parents to their foreign affiliates for all years

https://www.bea.gov/api/data/?&UserID=Your-36Character-

<u>Key&method=GetData&DataSetName=IntlServTrade&TypeOfService=Telecom&TradeDirection=Exports</u> &Affiliation=UsParents&AreaOrCountry=AllCountries&Year=All&ResultFormat=xml

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API Call [GETPARAMETERVALUES] to Obtain a List of Available Values & Descriptions for Each Parameter

[Details of each are described in the section below.]

Parameter Name	Parameter Value List
TypeOfService	https://www.bea.gov/api/data/?&UserID=Your-36Character- Key&method=GetParameterValues&DataSetName=IntlServTrade&ParameterName= TypeOfService&ResultFormat=xml
TradeDirection	https://www.bea.gov/api/data/?&UserID=Your-36Character- Key&method=GetParameterValues&DataSetName=IntlServTrade&ParameterName= TradeDirection&ResultFormat=xml
Affiliation	https://www.bea.gov/api/data/?&UserID=Your-36Character- Key&method=GetParameterValues&DataSetName=IntlServTrade&ParameterName= Affiliation&ResultFormat=xml
AreaOrCountry	https://www.bea.gov/api/data/?&UserID=Your-36Character- Key&method=GetParameterValues&DataSetName=IntlServTrade&ParameterName= AreaOrCountry&ResultFormat=xml
Year	https://www.bea.gov/api/data/?&UserID=Your-36Character- Key&method=GetParameterValues&DataSetName=IntlServTrade&ParameterName= Year&ResultFormat=xml

Parameter Details

TypeOfService Parameter (optional, multiple values allowed)

The TypeOfService parameter specifies the type of service being traded (e.g. travel, transport, or insurance services).

Exactly one TypeOfService parameter value other than "All" must be provided in all data requests unless exactly one AreaOrCountry parameter value other than "All" is requested. That is, multiple Indicators can only be specified if a single AreaOrCountry parameter is specified.

TradeDirection Parameter (optional, multiple values allowed)

The TradeDirection parameter specifies the trade direction of the services transactions. There are four valid parameter values other than "All":

- 1. Exports Exports
- 2. Imports Imports
- 3. Balance Balance (exports less imports)
- 4. Supplementalins Supplemental detail on insurance transactions

Affiliation Parameter (optional, multiple values allowed)

The Affiliation parameter specifies the trade direction for the services transactions. There are five valid parameter values other than "All":

1. AllAffiliations – The total for all trade, whether affiliated or unaffiliated

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- 2. Unaffiliated Unaffiliated trade
- 3. Affiliated Affiliated trade
- 4. UsParents U.S. parents' trade with their foreign affiliates
- 5. UsAffiliates U.S. affiliates' trade with their foreign parent groups

AreaOrCountry Parameter (optional, multiple values allowed)

The AreaOrCountry parameter specifies the counterparty area or country of the services transactions. The default parameter value ("AllCountries") returns the total for all countries, while "All" returns all data available by area and country.

Exactly one AreaOrCountry parameter value must be provided in all data requests unless exactly one TypeOfService parameter value other than "All" is requested. That is, a list of countries can only be specified if a single TypeOfService is specified.

For information on geographic area definitions, see https://www.bea.gov/international/bp web/geographic area definitions.pdf

Year Parameter (optional, multiple values allowed)

The Year parameter specifies the year of the data requested.

IntlServTrade (International Services Trade) Dimensions Elements in Return Data

Parameter Name	Ordinal	Datatype	IsValue	Description
TypeOfService	1	String	No	The TypeOfService parameter value of the data item.
TradeDirection	2	String	No	The TradeDirection parameter value of the data item.
Affiliation	3	String	No	The Affiliation parameter value of the data item.
AreaOrCountry	4	String	No	The AreaOrCountry parameter value of the data item.
Year	5	String	No	The Year parameter value of the data item.
TimeSeriesId	6	String	No	A unique identifier for the time series of the data item.
TimeSeriesDescription	7	String	No	A description of the transactions measured in the data item.
TimePeriod	8	String	No	A string containing the time period for the data item in the form YYYY for annual data
CL_UNIT	9	String	No	A string indicating the base unit of measurement of the data item. For example, "USD" is used when the reported statistic is in U.S. dollars.
UNIT_MULT	10	String	No	An integer representing the base-10 exponent of the multiplier used to interpret the data value. For example "6" refers to millions (DataValue × 10 ⁶).
DataValue	11	Numeric	No	An integer or decimal value of the statistic. May be blank.

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A NoteRef attribute is also included in all data elements and acts as a reference to one of the Notes elements in the returned data. The NoteRef attribute may have multiple values represented by a commadelimited string. Any NoteRef attribute included in the data is guaranteed to have a corresponding Notes element. The NoteRef attribute may be blank.

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