



REPUBLIC OF SLOVENIA
STATISTICAL OFFICE

SiStat Database - PxWeb API Help

Ljubljana, september 2020

Through SURS's PxWeb API interface for statistical databases you can search for machine readable information in, for example, XLSX, CSV, JSON, JSON-stat and PX formats. Before using the service, you should take a look at [Statistics Sweden's \(SCB\) API documentation](#).

The description is based on the use of a relational database where you do not have to use a PX extension in the table name. By contrast, in SURS's databases you must always remember to use the PX extension in the table name.

API limitations can be seen in this link <https://pxweb.stat.si/SiStatData/api/v1/en/?config>

API's structure

In the newest PxWeb version you can see the structure of the databases:

https://pxweb.stat.si/SiStatData/api/v1/en/Data/?query=*&filter=*

API's structure	PXWEB/API-NAME/API-VERSION/LANGUAGE/DATABASE-ID/LEVELS/TABLE-ID
Table metadata	https://pxweb.stat.si/SiStatData/api/v1/en/Data/1673105S.px

PxWeb API

Example:

1. First select the desired table from the SiStat Database.

In this example, a table describing export and import of roundwood is selected from the Environment and natural resources structure: **Export and import of roundwood (m3), Slovenia, annually**

■ Tree view of statistical themes

⊕ Expand all

⊖ Agriculture, forestry and fishery

⊕ Farms and Agricultural census

⊕ Crop production

⊕ Livestock, milk and milk products



⊕ Prices in agriculture

⊕ Economic accounts for agriculture

⊕ Supply balance sheets

⊕ Production methods in agriculture

⊖ Forestry

 H192S The condition of forest, Slovenia, annually 


⊕ Forestry and hunting - general

⊕ Forestry on agricultural holdings

⊕ Forestry in business entities

⊕ Purchase of wood

⊖ Export and import of roundwood

 1625901S Export and import of roundwood (m3), Slovenia, annually 

- Next, select the desired variables and click "Continue".

Export and import of roundwood (m3), Slovenia, annually

Select variable About table

Mark your selections and choose between table on screen and file format.

For variables marked * you need to select at least one value

WOOD RAW Catego... *

🔍

Total: 11 | Selected: 4

Roundwood - total
 Industrial roundwood - total
 Industrial roundwood, coniferou
 Industrial roundwood, non-confir
 Sawlogs and veneer logs - total
 Sawlogs and veneer logs, confir

🔍

Beginning of word

YEAR *

🔍

Total: 28 | Selected: 4

2018
 2017
 2016
 2015
 2014
 2013
 2012

🔍

Beginning of word

MEASURES *

🔍

Total: 2 | Selected: 2

Import
 Export

🔍

Beginning of word

Number of selected data cells are: **32** (maximum number allowed is 1,000,000)

Presentation on screen is limited to 1,000 rows and 150 columns

Table - Layout 2

Continue

- After the selection you see the table depicted below. Next, select the **About table** tab which displays table information.

< Choose variable

Show table About table Statistical signs

Edit and Calculate

Save table as

Table - Layout 2

↺
↻
↻

px
csv
xlsx
jstat

📊
📈
📉
✳️
ℹ️

- At the start of the page you find the API query for this table - selection surrounded by orange dashed lines. Click the link and it opens a JSON query.

< Choose variable

Show table **About table** **Statistical signs**

⊕ API query for this table

- Here you find the necessary API interface data. You can use the JSON POST query to retrieve data and the GET query to retrieve the metadata of the table. These provide a machine-readable link to the database table.

< Choose variable

Show table **About table** **Statistical signs**

⊖ API query for this table

POST the following JSON query to the URL below to access this table from your application.

URL:

<https://pxweb.stat.si:443/SiStatData/api/v1/en/Data/1625901S.px>

JSON query:

```
{
  "query": [
    {
      "code": "GOZDNI LESNI SORTIMENTI",
      "selection": {
        "filter": "item",
        "values": [
          "1",
          "2",
          "3",
          "4"
        ]
      }
    },
    {
      "code": "LETO",
      "selection": {
        "filter": "item",
        "values": [
```

[More information](#)

Using PxWeb API with RESTClient

The supported formats are: PX, CSV, JSON, XLSX and JSON-stat. The default format is JSON-stat. The URL address together with the GET function gives the metadata of the selected PX table. The metadata are also shown when the URL address is typed into the address field of the browser. Below is an image of the POST query result (response:csv)

```
"WOOD RAW CATEGORIES","2015 Import","2015 Export","2016 Import","2016 Export","2017 Import","2017 Export","2018 Import","2018 Export"
"Roundwood - total",448536,2682656,458501,3083546,562573,3061796,523619,2636036
"Industrial roundwood - total",296910,2303153,274130,2717532,342751,2466364,349855,2278154
"Industrial roundwood, coniferous",184824,1664675,143723,2228329,201427,1937882,236528,1919201
"Industrial roundwood, non-coniferous",112086,638478,130407,489203,141324,528482,113327,358953
"Sawlogs and veneer logs - total",63018,1488684,76256,1989502,-,-,-
```

Using filters

Filters can be used to search only for defined values.

- **Item.** The filter lists valid variable values. There can be one or several filtered values, for example, years “2015” and “2016”.
- **All.** This filter uses the wildcard feature but only one of these can be used at a time. For example, 01* shows all values that begin with 01, * shows all values.
- **Top.** Shows the first values or the latest values if the variable is time-based. The number of values to be shown is entered in the value field, for example, “5” which would show the five first or latest values.

Examples:

Export and import of roundwood for 2016

```
{
  "code": "LETO",
  "selection": {
    "filter": "item",
    "values": [
      "2016",
    ]
  }
}
```

If the figures “2004” and “2008” are added to the time variable, the population for 2004 and 2008 are shown in addition to that for 2016.

```
{
  "code": "LETO",
  "selection": {
    "filter": "item",
    "values": [
      "2016", "2004", "2008"
    ]
  }
}
```

Select all "LETO" values that end in zero, i.e. Show the data for 2000 and 2010. Set the value of the "GOZDNI LESNI SORTIMENT" variable as "1" so only Roundwood – Total is shown for the selected years.

```
{
  "code": "GOZDNI LESNI SORTIMENTI",
  "selection": {
    "filter": "item",
    "values": [
      "1",
    ]
  }
},
{
  "code": "LETO",
  "selection": {
    "filter": "all",
    "values": [
      "*0",
    ]
  }
}
```

Shows the data for the past three years: 2017, 2016 and 2015.

```
{
  "code": "LETO",
  "selection": {
    "filter": "top",
    "values": [
      "3",
    ]
  }
}
```

You can also use a free text search with URL commands through the API interface. Results are tables with selected municipality code.

For example:

- 1) Search "population"

<https://pxweb.stat.si/SiStatData/api/v1/en/Data?query=population>

- 2) Search municipality code for Ljubljana "061"

<https://pxweb.stat.si/SiStatData/api/v1/en/Data?query=061&filter=codes>

Technical support:

Further information is available by contacting surs.si-stat@gov.si.