

SIMA

Downstream



This system is optimized for the latest version of Google Chrome and may not be compatible with other browsers.

Summary

The modernized, interactive U.S. Steel Downstream Import and Export Monitor has many enhanced capabilities and advanced analytic features. Specifically, the new graphics in the interactive SIMA Downstream Monitor allow users to assess the U.S. steel import and export data in a variety of new ways that offer the user increased flexibility and options.

The data can be viewed online in table format and graphs and can also be downloaded for individual customized work.

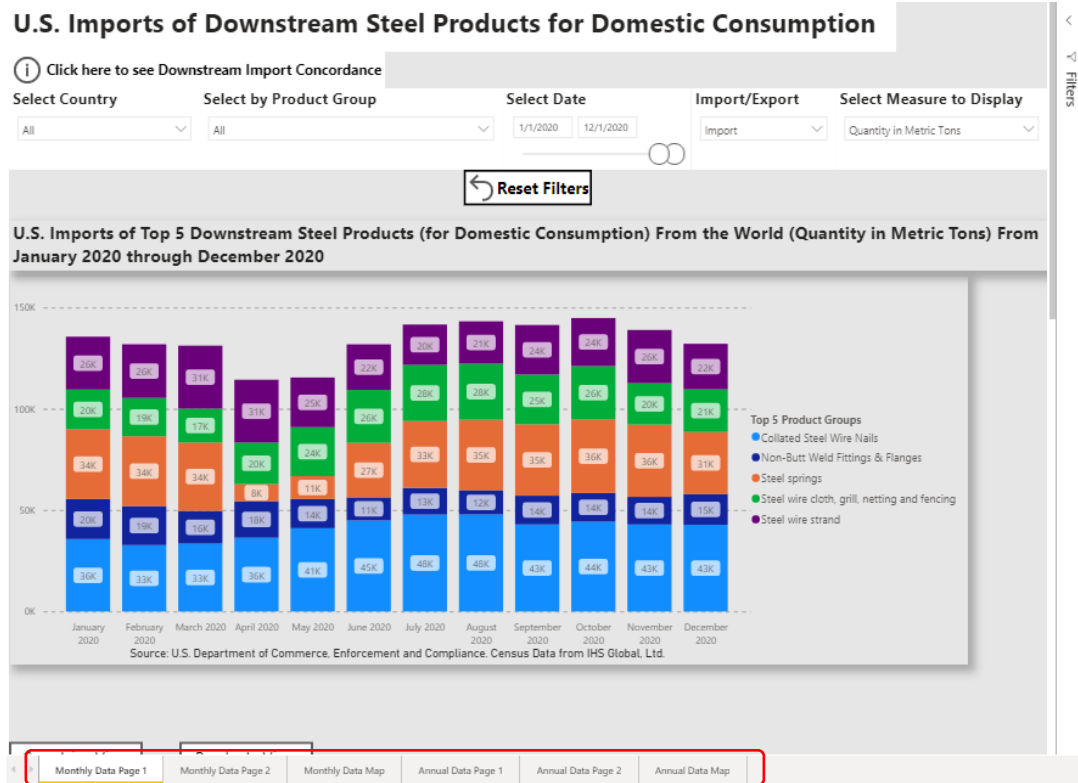
This quick reference guide describes:

1. How to navigate and customize the graphic displays of the new dashboard for both monthly and annual steel data;
2. How users can filter and disaggregate underlying data;
3. How users can then develop customized visuals of the data based on search parameters; and
4. How users can export data from the SIMA Downstream Monitor for further individual analysis.

The enhancements in the SIMA Downstream Monitor and interactive dashboard will allow users to conduct customized analysis of changing trade patterns and product trends for U.S. imports and exports of downstream steel products.

Navigation of the Monitor

The Downstream Monitor is comprised of six tabs located at the bottom of the landing page of the dashboard.



The monitor has six tabs. These tabs can be broken down into three pairs by the types of data they contain. Each pair includes one tab for monthly data and a second tab for annual data:

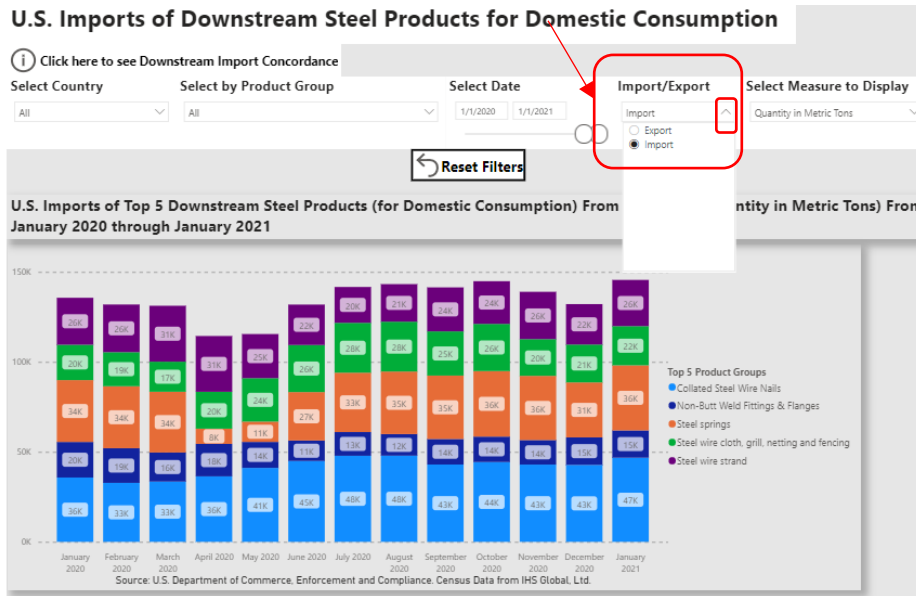
- **“Monthly Data Page 1”** and **“Annual Data Page 1”**: These tabs display the top five downstream steel products imports/exports, by month and year respectively, through a bar graph. At the bottom of the dashboard, there is also a table that shows the monthly/annual trade data by country across all downstream products.
- **“Monthly Data Page 2”** and **“Annual Data Page 2”**: These tabs graph monthly and annual data respectively, by country and product and a timeseries comparison.
- **“Monthly Data Map”** and **“Annual Data Map”**: These tabs offer maps of U.S. imports/exports of downstream steel products to/from partner countries. Product groups are color-coded and broken down by country. Each slice of the pie chart represents the share of imports/exports made up by one product group and the size of the pie charts varies by a country’s total quantity.
- Functionality is the same across the tabs, though the content differs. All visualizations are grouped with their associated data tables, so that the underlying data can be viewed simultaneously and the data can be viewed at different levels of granularity. So, for example, the first three tabs will reference the monthly data and have an associated data table housed in the first tab.

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How to Filter and View Disaggregated/Underlying Data

Each tab has a default filter setting at the top of the page. These filters can be changed to allow users to customize their view by disaggregating the underlying data by: country, product group, date parameters, and data measures (i.e., value, volume, or unit value). In the filters, the user can choose multiple options for viewing the underlying data for more in-depth analysis of steel trade trends.



- In the default setting, the imports of the top five downstream products are shown for a predefined timespan. The user can view other data by filtering by country, product group, data, direction of trade, and measure.

To filter and disaggregate the data, the user should change the default settings at the top of the page, which changes the views of the subsequent graphs and table:

- **To change the filters, click on the “down carrot” (v) to make a selection.**
- **To filter dates, simply move the slider to capture the date period desired.** It is also possible to use the filter on the right-hand side of the page.
- **To return to the default settings, the user may change the filters individually or click on the “reset filters” button.**

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Drilling Down in the Individual Visuals/Table

Data can be further drilled down in the individual visuals and tables. Note, again, the filters on the top of the dashboard page guide the availability of data disaggregation in the tab. Select Country View to see data displayed by Country (and be able to drill down by product group) or Products View to see data displayed by product group (and be able to drill down to see country level data).

- For the tables in the Country View:
 - Users should click on the “down arrow” on the top right of the table.
 - Then click on the “plus sign” to the left of the country name if interested in viewing detailed data for only one country.

Countries View | Products View

U.S. Imports of Downstream Steel Products (for Domestic Consumption) From the World (Quantity in Metric Tons) From January 2020 through December 2020

Source: U.S. Department of Commerce, Enforcement and Compliance; Census Data from IHS Global, Ltd. Last updated on February 2020 data.

Country	January 2020	February 2020	March 2020	April 2020	May 2020	June 2020	July 2020	August 2020	September 2020	October 2020	November 2020	December 2020
Mexico	44,188.88	42,201.27	45,458.68	23,179.07	25,442.09	44,380.28	52,295.74	48,979.46	50,919.10	51,959.28	49,335.39	39,697.26
China	43,361.16	37,626.92	22,005.44	37,498.11	48,932.42	44,375.13	43,901.23	44,777.99	39,431.55	45,688.67	39,697.26	39,697.26
Canada	10,381.06	11,048.34	12,343.57	7,622.59	10,717.61	12,053.42	12,257.79	14,356.00	13,477.43	14,767.57	14,181.47	14,181.47
Vietnam	8,544.36	8,273.25	9,218.60	10,232.43	5,172.26	5,382.40	5,397.09	6,352.12	9,879.63	8,629.59	7,450.51	7,450.51
India	9,315.84	10,164.42	8,703.71	9,351.73	4,168.40	2,651.79	5,717.51	7,260.71	9,590.62	8,577.02	7,853.16	7,853.16
Thailand	5,112.82	4,362.01	6,534.64	5,298.42	4,925.22	5,905.32	7,315.34	10,599.92	8,518.92	7,461.32	9,377.87	9,377.87
Korea, South	8,855.85	6,087.91	7,491.90	7,351.82	6,805.07	6,819.18	7,541.34	6,682.00	5,574.25	7,117.89	6,070.40	6,070.40
Malaysia	6,846.21	7,257.91	7,882.03	8,907.05	3,497.65	7,058.18	7,018.09	7,690.20	7,591.05	6,895.50	5,022.50	5,022.50
Turkey	5,934.60	6,828.86	5,620.98	6,389.12	8,349.59	7,265.15	7,528.61	5,077.93	6,641.79	4,934.76	4,738.54	4,738.54
Oman	3,596.58	4,769.40	5,079.79	4,756.16	4,485.29	6,612.87	7,354.04	5,861.42	5,899.34	6,235.18	5,558.94	5,558.94
Taiwan	4,619.66	3,845.39	3,976.87	4,678.67	4,865.22	5,227.12	5,008.34	4,575.28	3,717.91	3,738.09	4,294.75	4,294.75
Spain	4,354.48	3,124.08	3,483.60	3,156.01	4,441.63	4,208.43	3,151.40	1,438.30	1,131.51	1,688.33	3,296.03	3,296.03
Italy	3,516.39	2,084.13	3,482.20	3,839.66	3,525.97	4,332.49	1,534.07	2,729.26	1,900.78	2,250.07	2,406.55	2,406.55
Portugal	876.77	1,718.21	2,300.71	2,711.95	2,683.74	2,094.61	3,540.58	4,646.71	3,057.03	2,428.14	3,020.29	3,020.29
Sri Lanka	2,547.76	2,301.44	2,487.58	2,281.80	959.85	1,294.87	3,157.13	2,176.46	2,917.52	2,917.57	2,465.90	2,465.90
Poland	1,362.24	1,389.75	2,773.40	2,190.84	1,509.25	1,889.93	2,028.74	2,350.20	1,703.66	2,570.29	2,827.50	2,827.50
Germany	1,642.49	2,045.17	2,652.83	2,027.38	1,778.32	1,495.36	2,004.62	2,193.90	2,138.25	2,231.04	2,594.91	2,594.91
Indonesia	2,144.77	1,062.55	2,494.47	2,077.08	2,598.73	2,331.80	854.44	1,186.60	2,050.95	1,833.60	1,919.09	1,919.09
Japan	1,981.40	1,701.55	1,235.76	1,383.06	877.54	571.03	760.08	988.77	740.58	1,018.76	1,341.82	1,341.82
Colombia	1,168.08	1,662.61	1,670.15	733.18	604.20	1,588.67	535.91	1,049.58	933.20	784.66	349.93	349.93
Lithuania	797.48	360.52	703.36	572.28	1,018.73	725.61	994.63	955.69	1,215.32	941.50	1,209.83	1,209.83
Saudi Arabia	724.90	728.40	2,347.50	898.43	1,063.40	613.88	877.01	503.36	554.33	170.40	240.83	240.83
Total	180,432.03	168,931.37	169,056.67	155,517.33	155,105.50	175,764.37	189,432.28	190,675.36	188,272.19	193,176.97	182,596.30	182,596.30

- Click on the “up arrow” on the top right of the table to roll the data up and click on the “minus sign” to the left of the country name to hide the country’s list of products.

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- Click on the fork icon in the top right corner to disaggregate all countries by the underlying product groups.

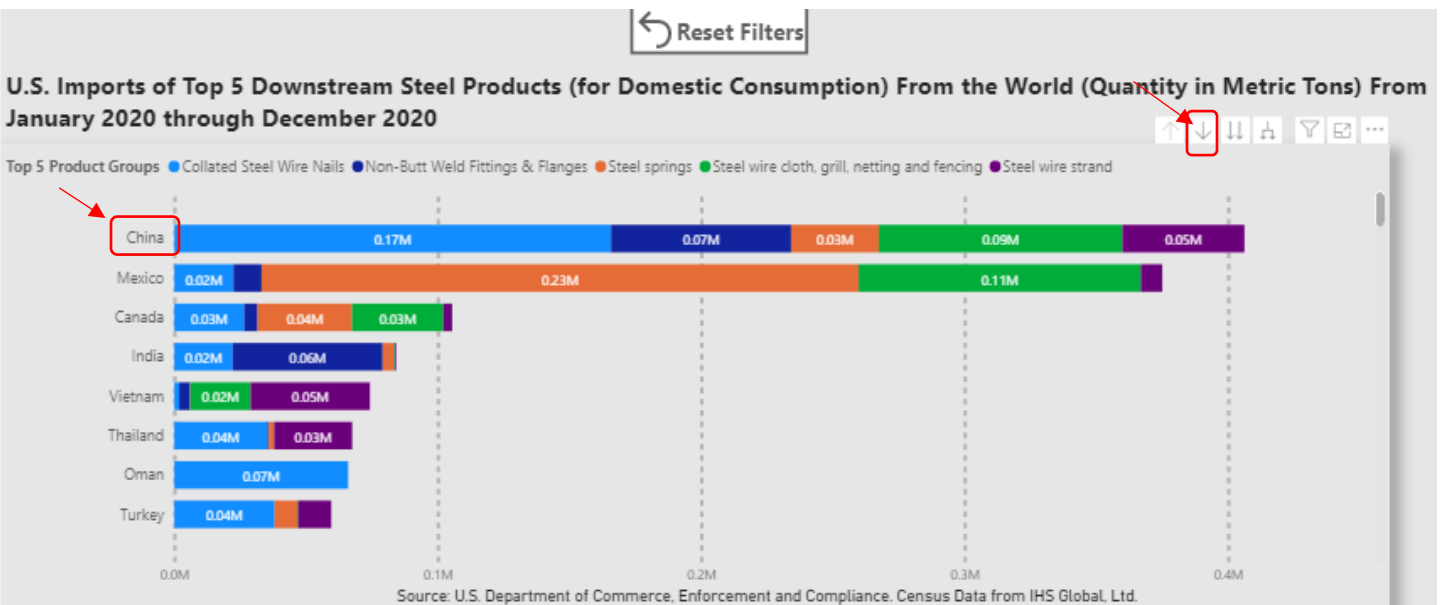
Countries View | Products View

U.S. Imports of Downstream Steel Products (for Domestic Consumption) From the World (Quantity in Metric Tons) From January 2020 through December 2020

Source: U.S. Department of Commerce, Enforcement and Compliance. Census Data from IHS Global, Ltd. Last updated on February 2020 data.

Country	January 2020	February 2020	March 2020	April 2020	May 2020	June 2020	July 2020	August 2020	September 2020	October 2020	NA
Mexico	44,188.88	42,201.27	45,458.69	23,179.07	25,442.09	44,380.28	52,295.74	48,979.46	50,919.11	51,959.28	
Steel Springs	23,887.73	23,842.67	23,173.77	1,747.32	4,756.64	18,874.77	23,759.92	23,136.07	22,165.13	23,080.92	
Cold-Formed Shapes	6,569.05	5,202.60	7,801.80	7,685.38	7,343.17	10,061.88	12,620.54	12,488.68	13,229.21	12,157.04	
Steel wire cloth, grill, netting and fencing	8,142.63	7,768.42	8,314.72	8,458.48	8,689.13	10,412.01	10,880.25	8,708.17	9,273.91	10,301.45	
Collated Steel Wire Nails	1,932.07	1,953.73	1,932.51	1,502.47	1,700.95	2,066.54	1,776.91	1,532.67	2,445.74	2,184.65	
Bulk Steel Wire Nails	934.04	887.81	965.97	1,069.06	858.64	903.95	795.59	754.13	977.89	1,101.86	
Non-Butt Weld Fittings & Flanges	1,078.35	864.62	1,262.87	762.49	695.27	807.12	613.24	635.81	880.92	1,125.53	
Steel wire strand	569.00	616.69	928.13	933.72	750.96	622.95	557.76	464.15	599.56	567.14	
Barbed Wire	413.01	494.42	481.81	382.38	398.46	220.17	527.59	481.67	668.11	508.86	
Steel wire rope & cable	541.27	418.23	439.12	346.12	232.47	158.00	315.07	258.92	262.73	329.05	
Other Steel Wire Nails and Staples	19.29	21.37	54.43	136.05	16.39	215.78	399.30	371.97	351.35	476.57	
Iron and Nonalloy Butt-Weld Fittings	102.45	130.72	103.56	155.61		37.11	49.58	147.23	64.55	126.21	
China	43,361.16	37,626.92	22,005.44	37,498.11	48,932.42	44,375.13	43,901.23	44,777.99	39,431.55	45,688.67	
Collated Steel Wire Nails	13,096.35	9,156.45	6,521.21	11,370.46	16,959.00	16,750.70	16,327.35	17,827.05	13,199.35	15,249.06	
Steel wire cloth, grill, netting and fencing	7,062.07	7,103.76	3,482.22	6,918.07	9,502.41	8,871.37	10,860.84	11,134.34	7,623.33	8,700.03	
Non-Butt Weld Fittings & Flanges	7,925.29	7,778.54	3,358.81	7,265.31	7,800.02	5,442.88	5,323.42	4,014.73	4,320.81	4,568.17	
Steel wire strand	5,449.81	4,824.68	3,687.35	5,236.70	3,731.76	3,102.78	1,886.18	2,222.13	3,540.41	4,172.81	
Steel Springs	2,994.11	2,615.91	2,157.58	1,683.59	2,141.42	2,516.55	2,279.54	2,391.19	3,953.25	3,195.57	
Bulk Steel Wire Nails	2,002.34	2,001.20	987.67	1,132.41	2,400.14	1,841.20	2,464.48	2,279.05	2,756.39	5,568.73	
Steel wire rope & cable	2,433.94	2,200.42	1,005.22	2,180.00	3,253.80	2,716.46	2,385.45	1,980.87	2,182.93	2,124.83	
Other Steel Wire Nails and Staples	1,811.76	1,409.27	498.89	1,330.53	2,457.17	2,612.94	2,080.30	2,255.98	1,558.24	1,716.37	
Iron and Nonalloy Butt-Weld Fittings	102.45	130.72	103.56	155.61		37.11	49.58	147.23	64.55	126.21	
Total	180,432.03	168,931.37	169,056.67	155,517.33	155,105.50	175,764.37	189,432.28	190,675.36	188,272.19	193,176.97	

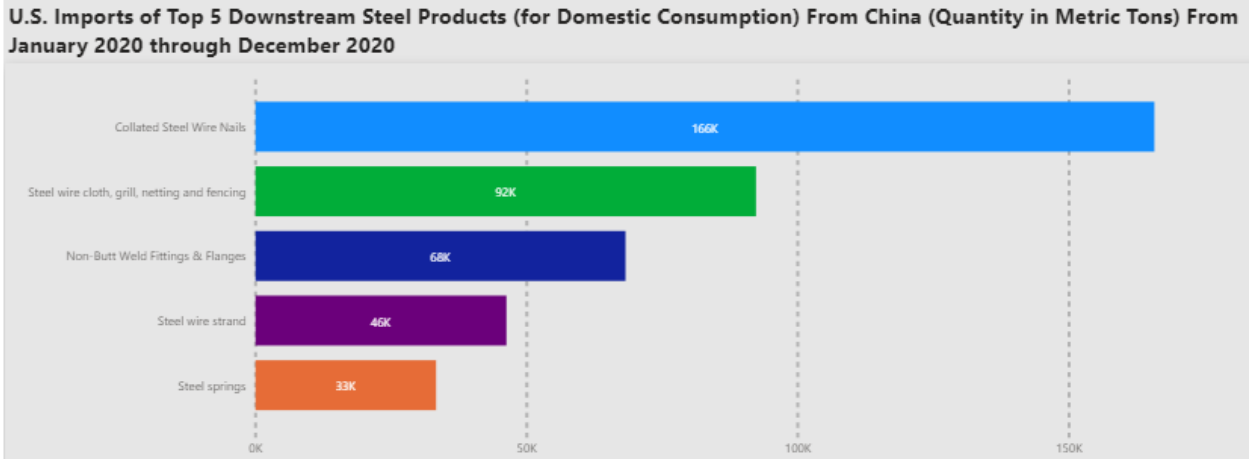
- Click on the up arrow to roll up the data. The functionality is the same for the Products View.
- On “Monthly Data Page 2” and “Annual Data Page 2,” users can filter both the country and category graphs, which function similarly to each other:
 - Click on the “down arrow” on the top right-hand side of the graph.
 - Click on the “country (or products)” of interest. For example, click on “China” to view the top five downstream steel products imported from China. Focusing on one country or category will alter the second bar graph to only focus on the country or category of interest. Thus, clicking on “China” will yield a second bar graph that illustrates the top five products imported from China alone.



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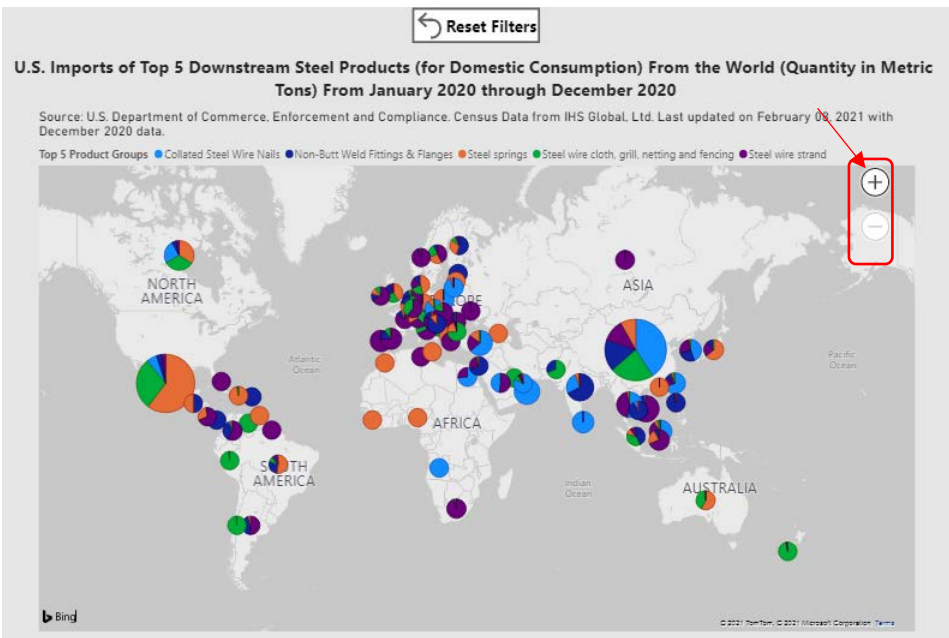
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- To revert back to a higher-level of aggregation, **click on the “up arrow”** on the right-hand side of the visual.



For the maps: The map geographically displays the import or export data. Here, the size of the bubbles represents the measure being displayed. For example, in the map showing imports, the pie charts for each country display the steel product group imports or exports from each country. In the example below, China's pie graph is bigger than Australia's and has five different pie slices because the U.S. imported more downstream steel products by total volume from China than Australia. The five different pie slices for the China pie indicate that the U.S. imported five different product groups from China, while Australia only has two pie slices, indicating that the U.S. only imported two product groups, steel springs and steel wire cloth, grill, netting, and fencing from Australia during the period covered by this map. The map can also be zoomed in to show an area at a granular level.

- To zoom in and out, **click on the “positive/negative signs.”**

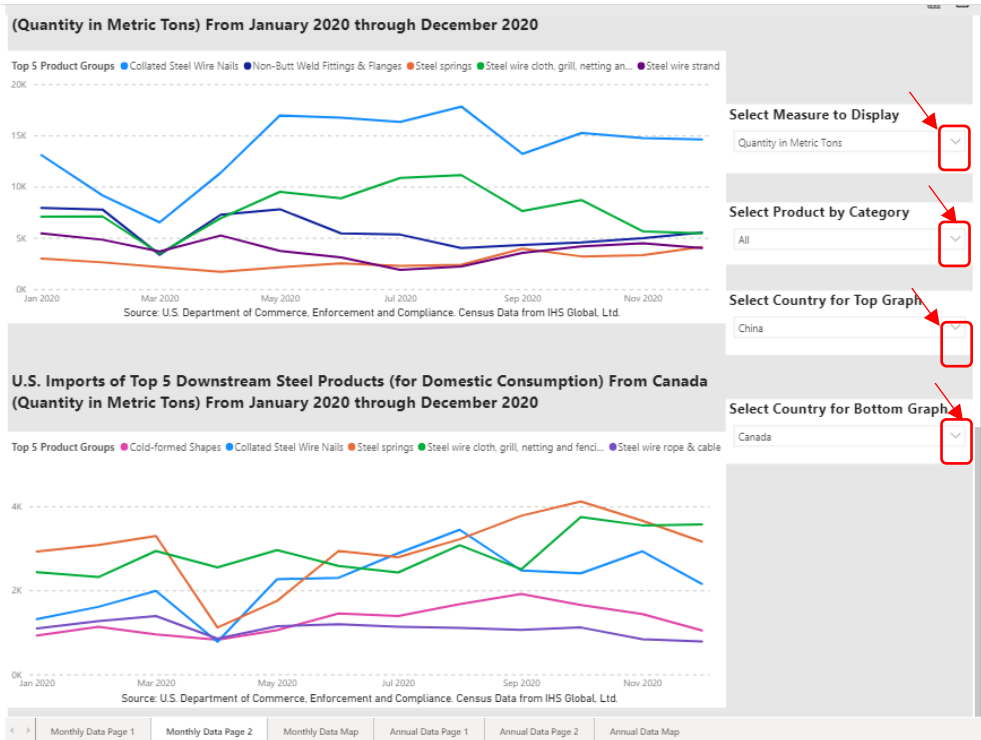


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For the time-series graphs: These time-series graphs allow users to view, compare, and contrast import and export trends for two countries simultaneously across different steel product groups.

- Click on the desired filter to the right of these graphs by using the “carrot” (v).
- These filters (for measure, category, and country) for the time-series graphs are not impacted by the filters at the top of the tab.



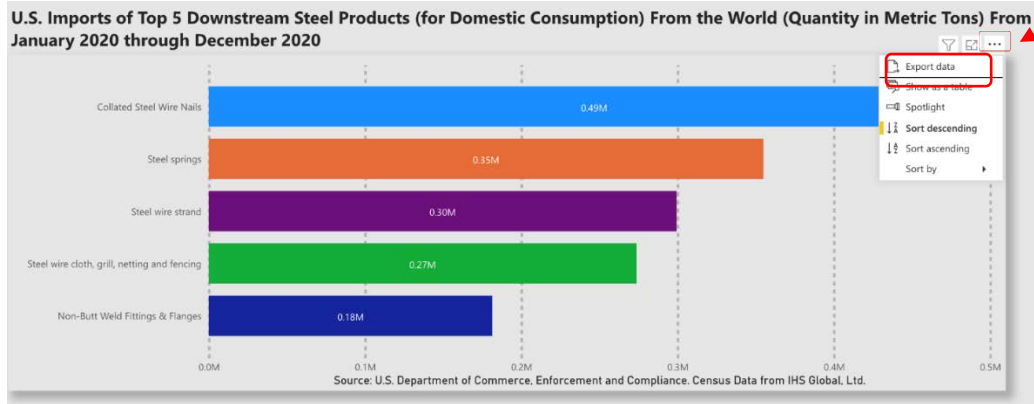
Exporting Data

Another key feature of the dashboard is that users can export the data for individualized analysis of downstream steel trends:

- The user can export data by **selecting the graphic by clicking anywhere on the graph, clicking on the “three dots” in the right-hand corner, and selecting “export data.”**
- Then, select summarized or underlying data. Selecting “summarized data” provides details related to the data, while selecting “underlying data” provides the actual data. **Click “export.”** The downloaded file will be on the lower left corner of the screen. Open that file.

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Export data

Which data would you like to export?

Summarized data

Underlying data

File format:

.xlsx (Excel 150,000-row max)

① Data exports with all applied filters.

① For large data models, only a limited number of rows can be exported. [Learn more](#)

① Currently, underlying data can only be exported into an Excel doc (xlsx).

Export Cancel

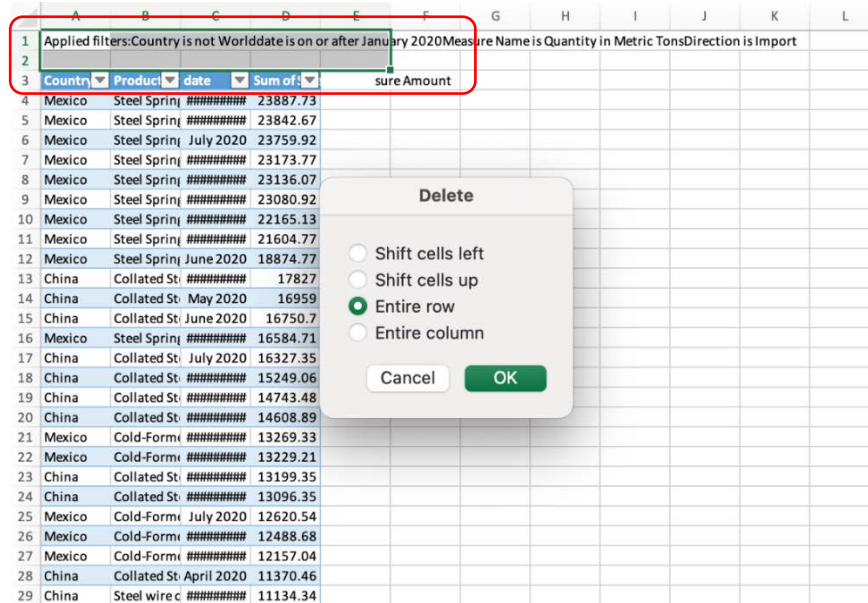
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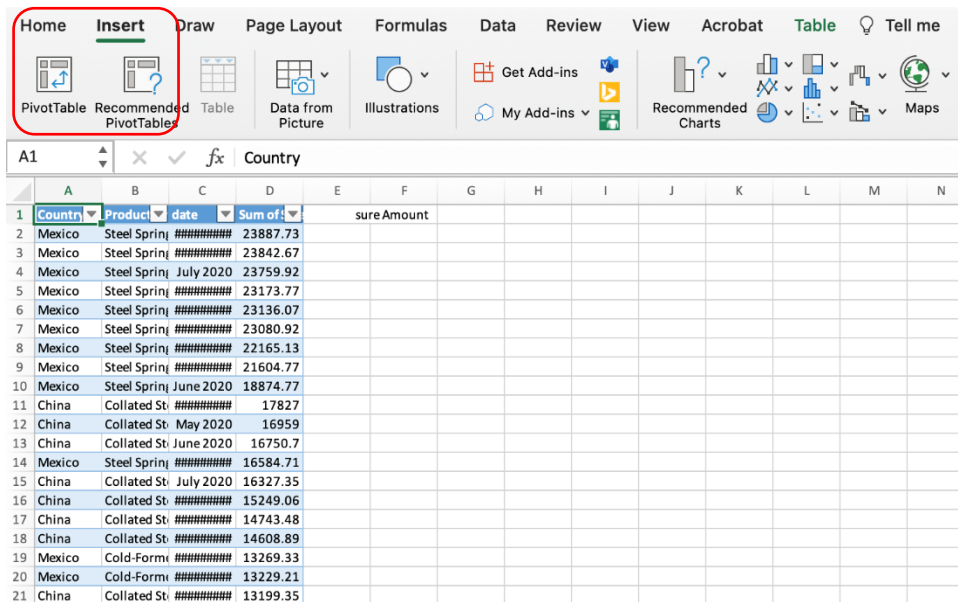
Using a Pivot Table to Organize Data

Pivot Tables are a useful means of organizing data for interpretation, once it has been exported to your computer:

- Once you have opened the file, delete the first two rows of the sheet.



- With the cursor in the data table, click on the Insert tab and select Pivot Table.



- When the popup below appears, select where you want the pivot table to be placed (either the default of a new worksheet or existing worksheet) and then click ok.

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Choose the data that you want to analyze.

Select a table or range

Table/Range:

Use an external data source

No data fields have been retrieved.

Choose where to place the PivotTable.

New worksheet

Existing worksheet

Table/Range:

- Drag and drop the concepts you want from in the table (from the top panel to the bottom panel), by columns, rows, and values. You can also right click on the variable in the top of the field view and select where to place it. (To remove annual subtotals in the pivot table, right click on the excel sheet where the heading for the subtotal is and uncheck "Subtotal Year" in the data table.)

Sum of Sum of Selected Measure Amount	Column Labels							
Row Labels	Jan	Feb	Mar	Apr	May	Jun	Jul	Au
Angola	109.275	102.165	682.625	55.265	297.65	307.78	112.115	
Argentina	289.02	161.599	40.819	184.541	315.489	251.792	303.154	
Australia	578.769	231.624	298.081	430.05	381.536	747.949	324.527	
Austria	975.805	588.596	724.111	654.407	565.691	576.556	915.551	
Bahamas	0.158							
Bahrain			6.816		13.442	0.73	4.96	
Belgium	26.536	43.037	51.386	500.247	170.327	180.255	2.406	
Bosnia & Herzegovina			2	1.47	22.012	6.179	10.33	
Brazil	65.255	109.167	199.384	170.658	187.721	119.058	159.064	
Bulgaria	156.53	81.667	132.62	154.585	133.02	105.819	255.18	
Cambodia	374.306	240.971	317.586	185.611	232.193	9.797	20.9	
Canada	10381.061	11048.337	12343.572	7622.588	10717.613	12053.417	12257.789	1
Chile			4.101				0.053	
China	43361.155	37626.924	22005.436	37498.106	48932.419	44375.13	43901.226	4
Colombia	1168.075	1662.611	1670.154	733.176	604.201	1588.668	535.911	
Costa Rica	0.38	21.461	0.36	0.42	14.734	0.457	0.426	
Croatia			1.472		0.056			
Curacao				0.027			0.021	
Czech Republic	21.955	41.96	95.889	74.41	82.678	170.249	140.901	
Denmark	8.595	6.524	12.246	23.637	25.82	11.36	7.617	
Dominican Republic	77.872	87.942	92.048	3.574	96.191	150.721	61.96	

Choose fields to add to report:

Search

Country

Product Group

date

Sum of Selected Measure Amount

Months

More Tables...

Drag fields between areas below:

Filters

Columns

Months

Rows

Values

Country

Sum of Sum of ...

- Here is a link to Microsoft's instructions on how to get started using Pivot Tables:

<https://support.microsoft.com/en-us/office/video-create-a-pivottable-and-analyze-your-data-7810597d-0837-41f7-9699-5911aa282760>

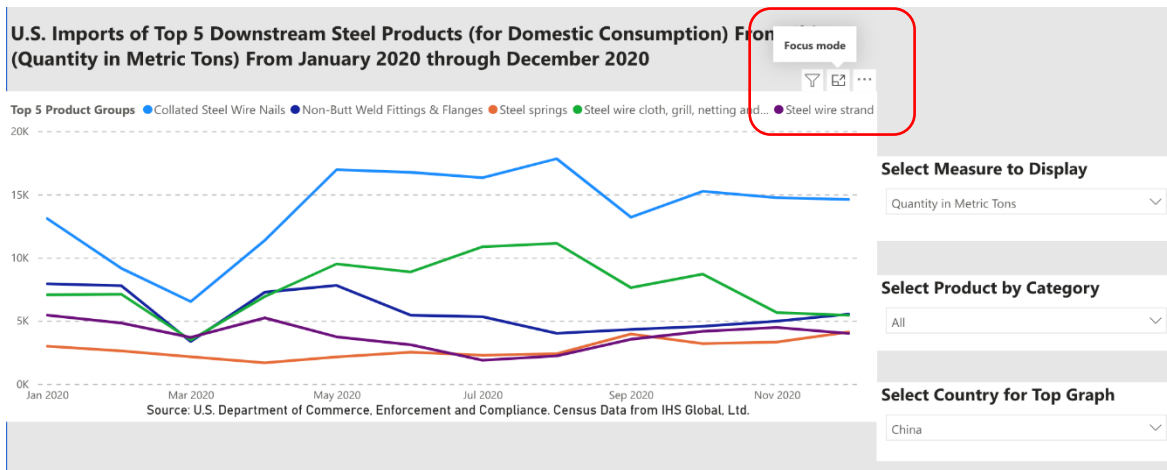
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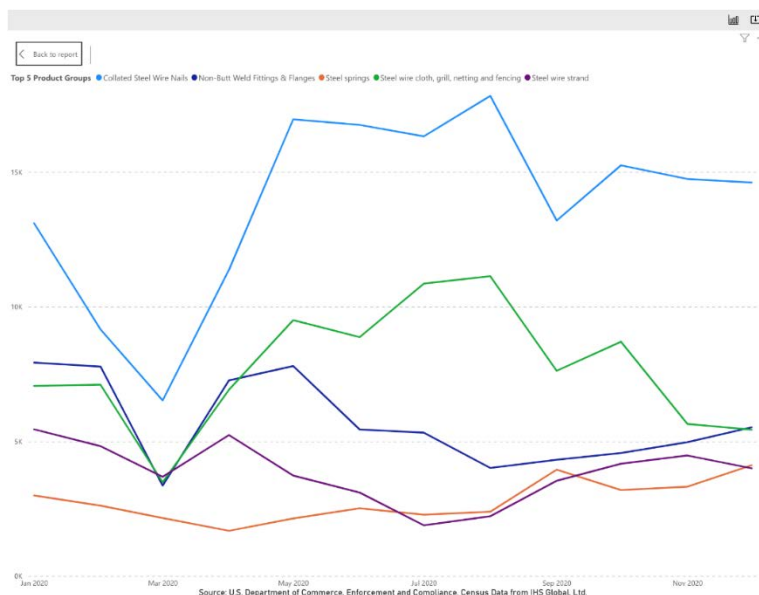
Printing Tables and Graphs

Tables, graphs, and other graphics in the monitor can be printed or screenshots as follows:

- Once you have the desired filters in place, select “focus mode” in the top right of the graph or table. This spotlights the graphic/table, expanding it to cover the full screen. You can then use any screen capture method, including using the snipping tool or screenshotting, to save the image.
 - For Windows users: to use the snipping tool, click on “New” and point and drag your mouse to select the area you want to screenshot. Then save the image or copy and paste into your desired software, like a Word document.
 - For Mac Users: click “Command” + “Shift” + “4” and select the area you would like to screenshot, then save the image or copy and paste into your desired software.



- This is what the chart looks like in focus mode:



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- To exit focus mode, click “Back to Report” in the upper left-hand corner of the display.



Support

Check out the FAQs, Instructional Videos, and User Guides at <https://www.trade.gov/steel>. Forward all questions to steel.license@trade.gov.