

Global Aluminum Trade Monitor

Quick Reference Guide



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

Summary

The new interactive Global Aluminum Trade Monitor (GATM) has many enhanced capabilities and advanced analytic features. Specifically, the new graphics in the interactive GATM allow users to visualize aluminum trade data from the world's top aluminum importing and exporting countries in a variety of ways. This monitor allows for transparency for efficient tracking of changing trade patterns and ready simple analyses.

The data can be viewed online through graphs and a map and can also be downloaded for individual, customized analysis.

This quick reference guide describes:

1. How to navigate and customize the graphic displays of the new dashboard for annual and year-to-date data for exports and imports;
2. How users can filter and disaggregate underlying data;
3. How users can develop customized visuals of the data based on search parameters; and
4. How users can export data from the GATM for further individual analysis.

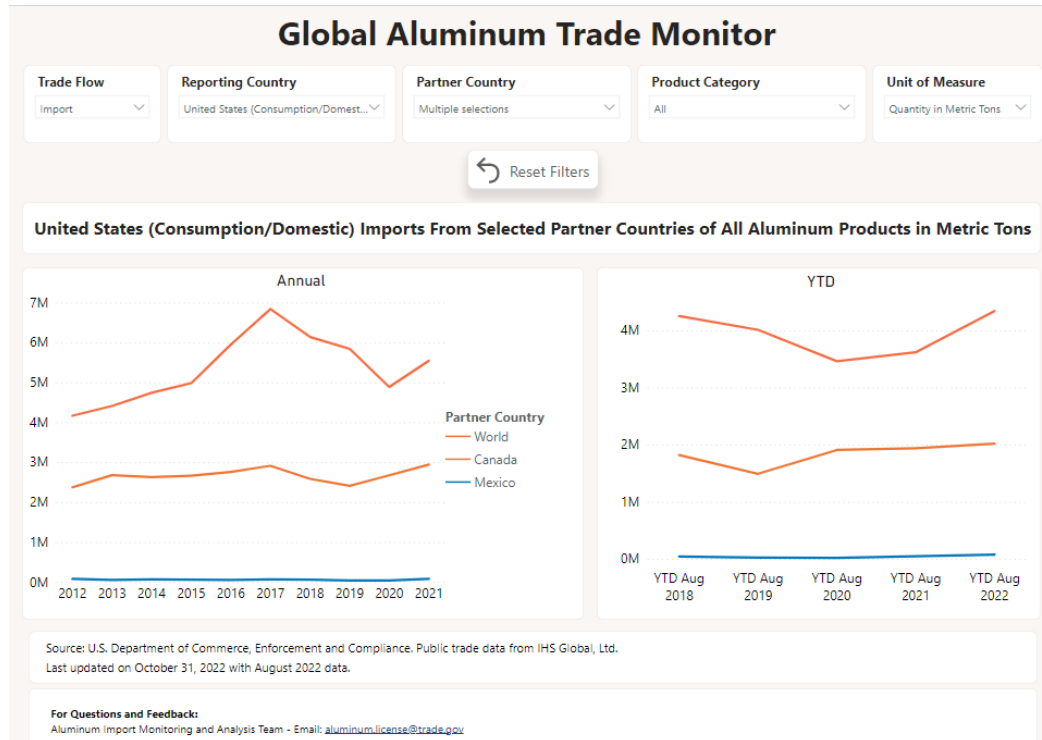
The developments in the GATM and interactive comparison dashboard will allow users to conduct customized, in-depth analysis of changing trade patterns and product trends for global imports and exports of aluminum products.

Navigation of the Monitor

The new GATM is comprised of three tabs located at the bottom of the landing page of the dashboard. The monitor provides data at the aggregate product category level (7 product categories) for the largest aluminum importing and exporting countries including reverse flows for select aluminum producing/trading countries that do not report trade data: Russia, Cambodia, Laos, Mozambique, Myanmar, Oman, United Arab Emirates (UAE) and Vietnam. Reverse flows for these countries were calculated using the import data of reporting trading partner countries to construct the export data of the nonreporting country (note, these figures may not be as precise as other values). The data is updated regularly when countries release their official trade statistics. Here is a visual example for users to reference on how to navigate these tabs:

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There are five tabs, each of which includes annual data:

- **“GATM”**: This tab presents two line graphs. The graph on the left shows annual global imports/exports of aggregate aluminum categories (represented by the orange line) and the measures from selected partner and reporting countries. The graph on the right presents the same data for the year-to-date data. Hovering the cursor over each point on a line graph displays a tooltip that shows the measure of aluminum imported from each country, in a given year.
- **“Top Partner Country”**: This tab offers import or export data on the top trade partners of a selected country in a ranked list. In the filters, the import or export data can be filtered by year, trade flow, reporting country, partner country, product category, and unit of measure.
- **“GATM Comparison”**: This tab displays eight bar charts. The first graph shows the total measure of aluminum traded annually and year-to-date between a reporting country and its trade partner, while the remaining seven graphs display the measure of different aluminum product categories traded. This tab can also be used to compare the yearly measure of imports and exports side-by-side of the total and seven aluminum categories.
- **“Map”**: This tab offers geographic data for the share of product categories imported or exported to each country, in a given year or year-to-date. The size of the pie charts approximately indicates the relative amounts of aluminum traded by a country, and each color represents an aluminum category. Hovering the cursor over each slice in one of the various pie charts displays a tooltip that shows the product category and measure amount traded in a given country.

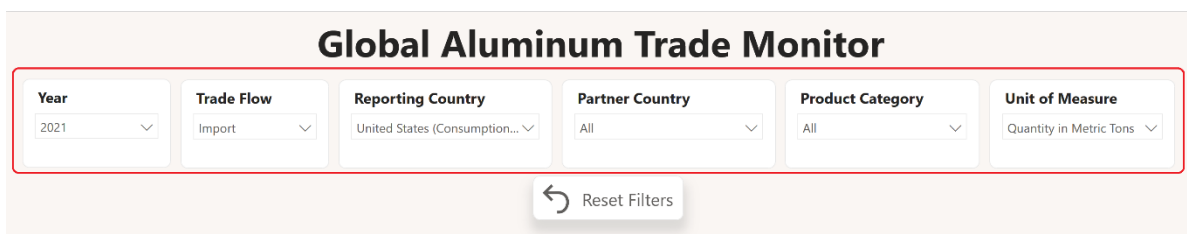
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- **“Export/Import by Product”**: This tab displays a treemap. The visual is vertically split by trade direction, and horizontally broken out by product category. The percentages and quantities shown add up to 100% of the selected country’s total imports and exports. Hovering the cursor over each category displays a tooltip that shows the product category in question, the unit of measure selected, and the value of each rectangle.

How to Filter and View Disaggregated/Underlying Data

Each tab presents default settings at the top of the page. This allows users to customize their view by using filters to disaggregate the underlying data based on the trade flow, reporting and partner countries, product categories, and data measures of interest (i.e., volume or value). In many of the filters, the user can choose multiple options for viewing the underlying data for more in-depth analysis of aluminum trade trends.



The screenshot shows the 'Global Aluminum Trade Monitor' interface. At the top, there is a title 'Global Aluminum Trade Monitor'. Below the title, there is a row of six filter dropdown menus: 'Year' (set to 2021), 'Trade Flow' (set to Import), 'Reporting Country' (set to United States (Consumption...)), 'Partner Country' (set to All), 'Product Category' (set to All), and 'Unit of Measure' (set to Quantity in Metric Tons). Below these filters is a 'Reset Filters' button with a circular arrow icon.

In the default setting, the dashboard shows all aluminum imported by volume into the United States from the world, Canada, and Mexico. 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.

These filters, from left to right, include:

- **Trade Flow**: Users can change this filter to view either import or export data.
- **Reporting Country**: This filter allows users to view different reporting countries by selecting a country of interest.
- **Partner Country**: This filter provides a drop-down menu for the user to select various or all trade partner countries of interest.
- **Product Category**: This also provides a drop-down menu for the user to select various or all aluminum product categories.
- **Select Unit of Measure**: This allows the user to change the measure used for presenting the dataset. The default is to show volume, in metric tons.
 - This drop-down allows users to select “Quantity in Metric Tons” or “Value in U.S. Dollars.”
 - Please note that a metric ton is 1,000 kilograms, or approximately 0.907 net tons.

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The screenshot shows the 'Global Aluminum Trade Monitor' interface. At the top, there are five filter dropdown menus: 'Trade Flow' (set to 'Import'), 'Reporting Country' (set to 'United States (Consumption/Domest...)', with a search dropdown open showing a list of countries including Australia, Austria, Bahrain, Belgium, Brazil, Cambodia*, Canada, China, and EU (External Trade)), 'Partner Country' (set to 'World'), 'Product Category' (set to 'All'), and 'Unit of Measure' (set to 'Quantity in Metric Tons'). A red box highlights a 'Reset Filters' button with a circular arrow icon. Below the filters, the main title reads 'United States (Co...ports From Selected Partner Countries of All Aluminum Products in Metric Tons'. The 'YTD' label is visible at the bottom right of the main content area.

To return to the default settings, the user may change the filters individually or click on the “reset filters” button.

Filtering Individual Charts and Maps

- In the **Top Partner Country** tab, view the top import or export partner countries of a selected reporting country and see a ranking of trade partners by volume or value.

The screenshot shows the 'Global Aluminum Trade Monitor' interface with the 'Top Partner Countries' tab selected. The filters are: 'Year' (2021), 'Trade Flow' (Import), 'Reporting Country' (United States (Consumption...)), 'Partner Country' (All), 'Product Category' (All), and 'Unit of Measure' (Quantity in Metric Tons). The main content area displays a table titled 'Top Partner Countries of United States (Consumption/Domestic) for Imports of All Aluminum Products in Metric Tons, 2021'. A 'Reset Filters' button is visible on the right. Below the table, there is a source note and a feedback section.

Partner Country	Volume (Metric Tons)	Rank
World	5,540,867.73	
Canada	2,941,276.36	1
United Arab Emirates	358,923.00	2
Russia	242,390.35	3
Bahrain	230,639.23	4
China	208,799.12	5
Argentina	118,760.15	6
Australia	116,878.80	7
India	116,693.25	8

Source: U.S. Department of Commerce, Enforcement and Compliance. Public trade data from IHS Global, Ltd. Last updated on October 31, 2022 with August 2022 data.

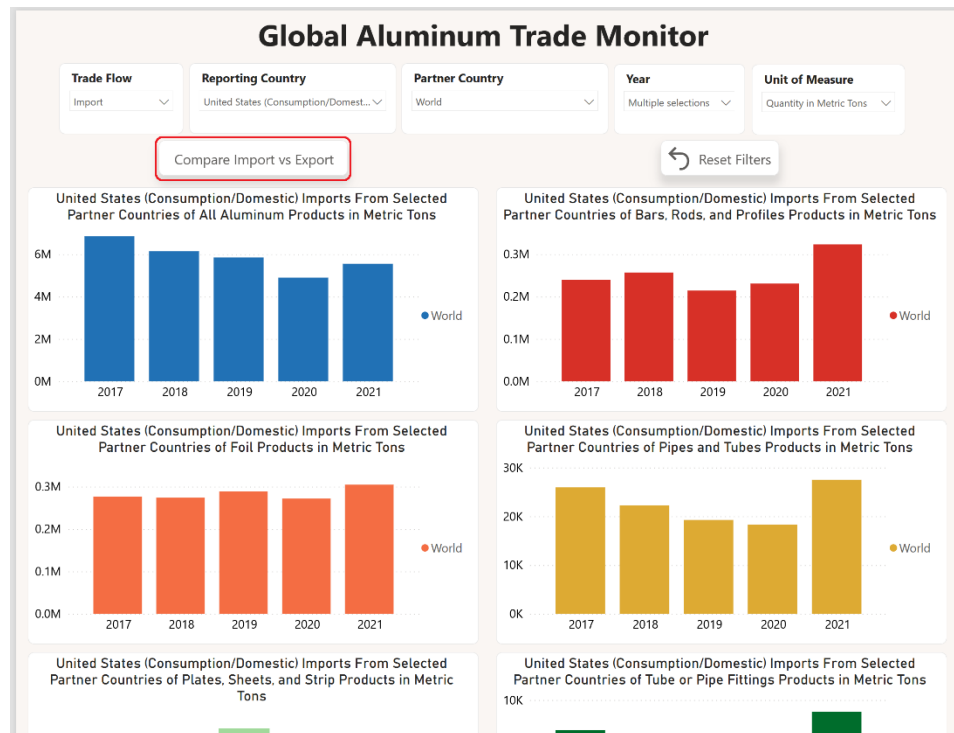
For Questions and Feedback:
Aluminum Import Monitoring and Analysis Team - Email: aluminum.license@trade.gov

Data Source: Global Trade Atlas; Copyright © IHS Markit Global Inc. All rights reserved.
Note: Countries denoted with asterisks (Cambodia, Laos, Mozambique, Myanmar, Oman, United Arab Emirates, and Vietnam) indicate reverse flows, where import data has been used to construct export statistics. These figures may not be as precise as other values.

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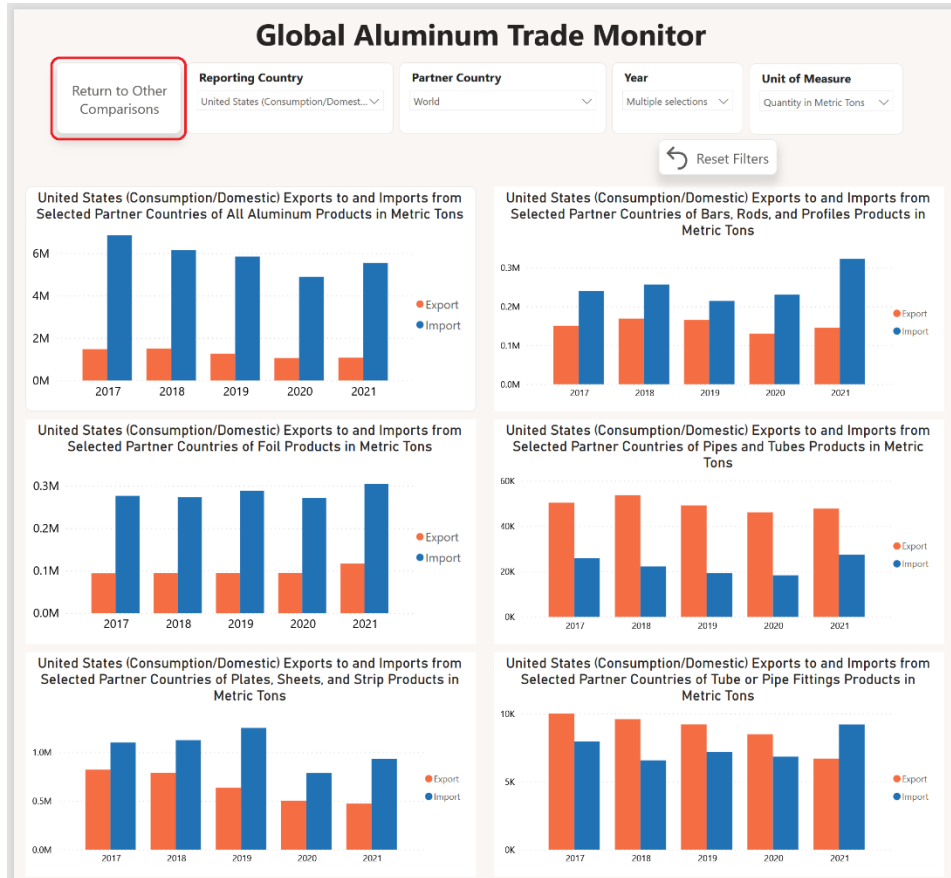
- In the **GATM Comparison** tab, the default view is in Other Comparisons. This comparison displays the measure of either imports or exports of aluminum products in aggregate and by product category (i.e., Bars, Rods, & Profiles, Foil, Pipes & Tubes, Plates, Sheets & Strip, Tube or Pipe Fittings, Unwrought, and Wire).



- Alternatively, select **Compare Import vs Export** to view import and export data for each product category side-by-side.

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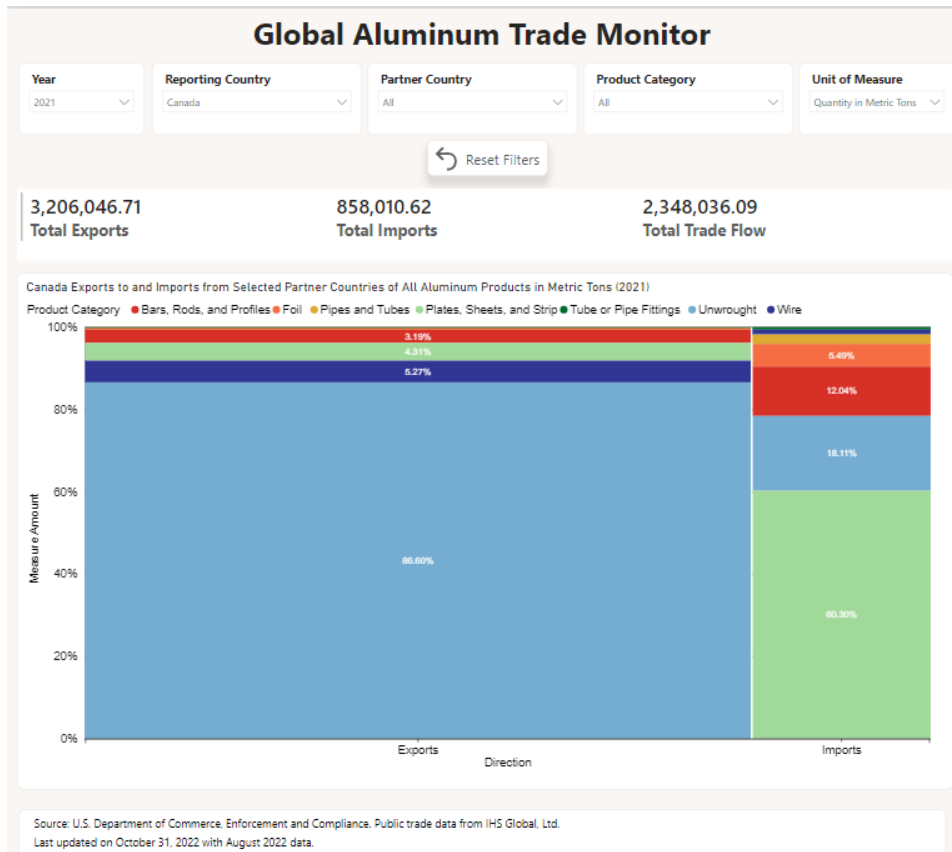
- The **Map** tab geographically displays trade data. Here, the size of the bubbles represents the measure being displayed (e.g., volume of imports) and each slice of the pie chart represents a category type of aluminum to or from each country.
 - To zoom in and out, *click on the “positive/negative signs”* at the top right corner of the map.



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- Select the **Export/Import by Product** tab to view the total share of export/imports of a selected country by product category.



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Exporting Data

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

- The user can export data by **clicking on the graph or map**, then **three dots will appear in the upper right hand corner of the map**. Next, click on the **“three dots” in the upper right-hand corner of the graph**. Next, select **“export data.”** Do not click on the “three dots” in the right-hand corner, next to the overarching title of each graph; there will be no data downloaded.



- Then, select “Summarized Data.” Click **“export.”** The downloaded Excel data file will be on the lower left corner of the screen. Open that file.

The 'Export data' dialog box is shown. It has a title bar with a close button (X). The main text reads: 'Export your data in the format that suits your needs. If you have a lot of data, the number of rows you export might be limited depending on the file type you select. [Learn more about exporting data](#)'. There are three radio button options: 'Data with current layout' (disabled), 'Summarized data' (selected and highlighted with a red box), and 'Underlying data' (disabled). Below these is a 'File format' dropdown menu set to '.xlsx (Excel 150,000-row max)'. At the bottom right, there are two buttons: 'Export' (highlighted with a red box) and 'Cancel'.

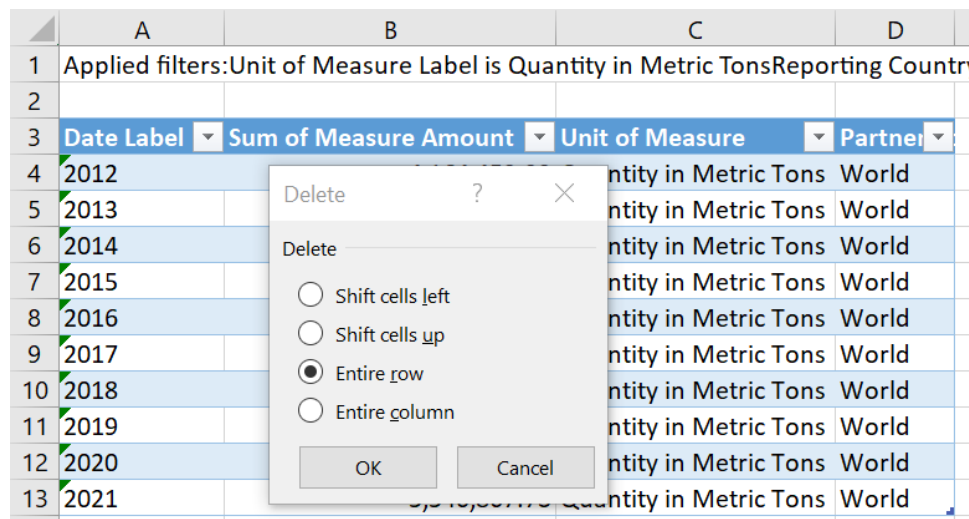
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Using a Pivot Table to Organize Data

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

- Open the exported data file, now on your computer. Once you have opened the file, delete the first two rows of the sheet.



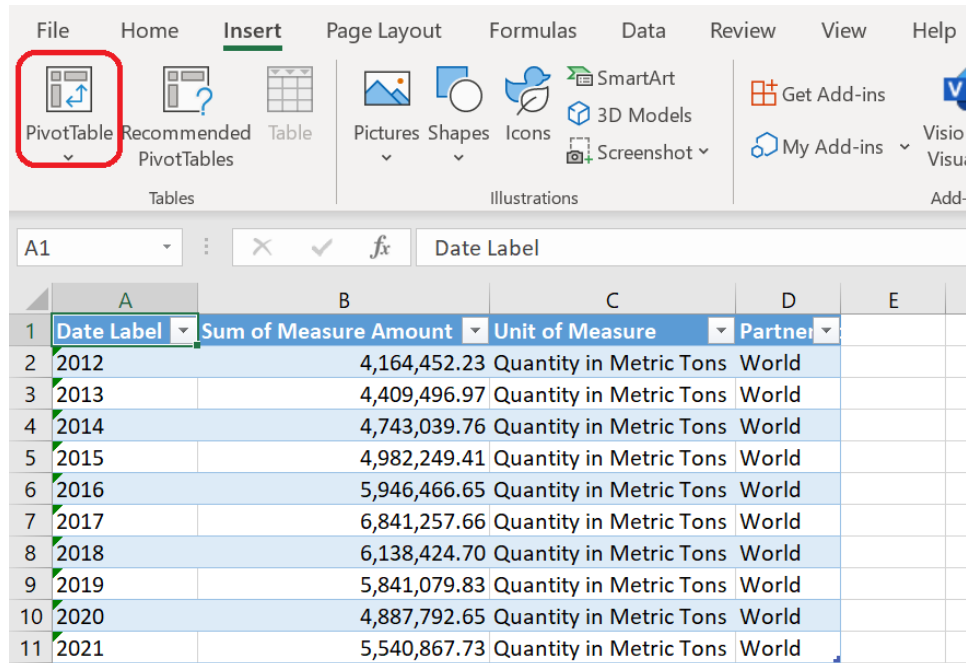
The screenshot shows an Excel spreadsheet with a PivotTable. The PivotTable is located in the range A3:D13. The PivotTable fields are: Date Label (rows), Sum of Measure Amount (columns), Unit of Measure (rows), and Partner (columns). The data is filtered for the years 2012 through 2021. A 'Delete' dialog box is open over the PivotTable, with the 'Entire row' option selected. The dialog box has 'OK' and 'Cancel' buttons.

	A	B	C	D
1	Applied filters:Unit of Measure Label is Quantity in Metric TonsReporting Countr			
2				
3	Date Label	Sum of Measure Amount	Unit of Measure	Partner
4	2012		ntity in Metric Tons	World
5	2013		ntity in Metric Tons	World
6	2014		ntity in Metric Tons	World
7	2015		ntity in Metric Tons	World
8	2016		ntity in Metric Tons	World
9	2017		ntity in Metric Tons	World
10	2018		ntity in Metric Tons	World
11	2019		ntity in Metric Tons	World
12	2020		ntity in Metric Tons	World
13	2021		ntity in Metric Tons	World

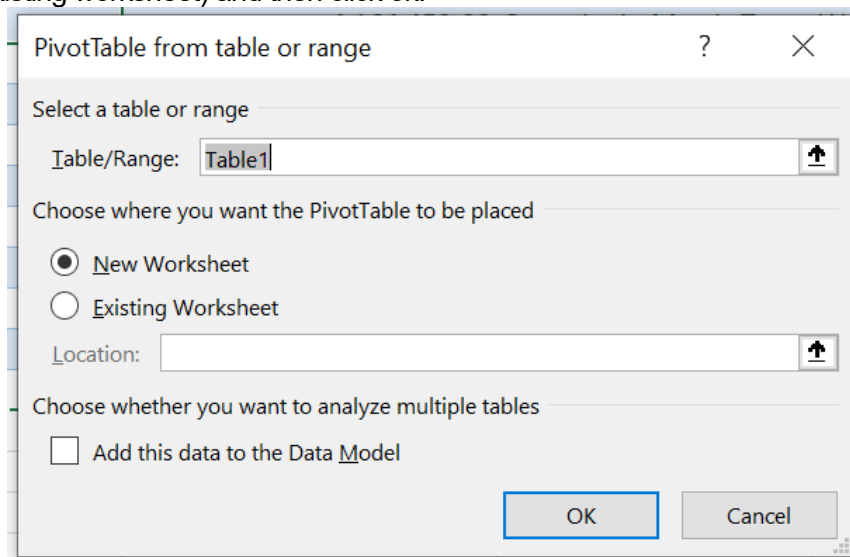
- With the cursor in the data table, click on the Insert tab and select Pivot Table.

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- When the pop-up 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.



- 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.

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The screenshot displays an Excel spreadsheet with a PivotTable. The PivotTable is structured as follows:

Row Labels	Sum of Sum of Measure Amount
2012	4164452.23
Quantity in Metric Tons	4164452.23
World	4164452.23
2013	4409496.97
Quantity in Metric Tons	4409496.97
World	4409496.97
2014	4743039.76
Quantity in Metric Tons	4743039.76
World	4743039.76
2015	4982249.41
Quantity in Metric Tons	4982249.41
World	4982249.41
2016	5946466.65
Quantity in Metric Tons	5946466.65
World	5946466.65
2017	6841257.66
Quantity in Metric Tons	6841257.66
World	6841257.66
2018	6138424.7
Quantity in Metric Tons	6138424.7
World	6138424.7
2019	5841079.83
Quantity in Metric Tons	5841079.83
World	5841079.83
2020	4887792.65
Quantity in Metric Tons	4887792.65
World	4887792.65
2021	5540867.73
Quantity in Metric Tons	5540867.73
World	5540867.73
Grand Total	53495127.59

The PivotTable Fields task pane on the right shows the following configuration:

- Filters: (Empty)
- Columns: (Empty)
- Rows: Date Label, Unit of Measure, Partner Country
- Values: Sum of Sum of Measure Amount

- 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>

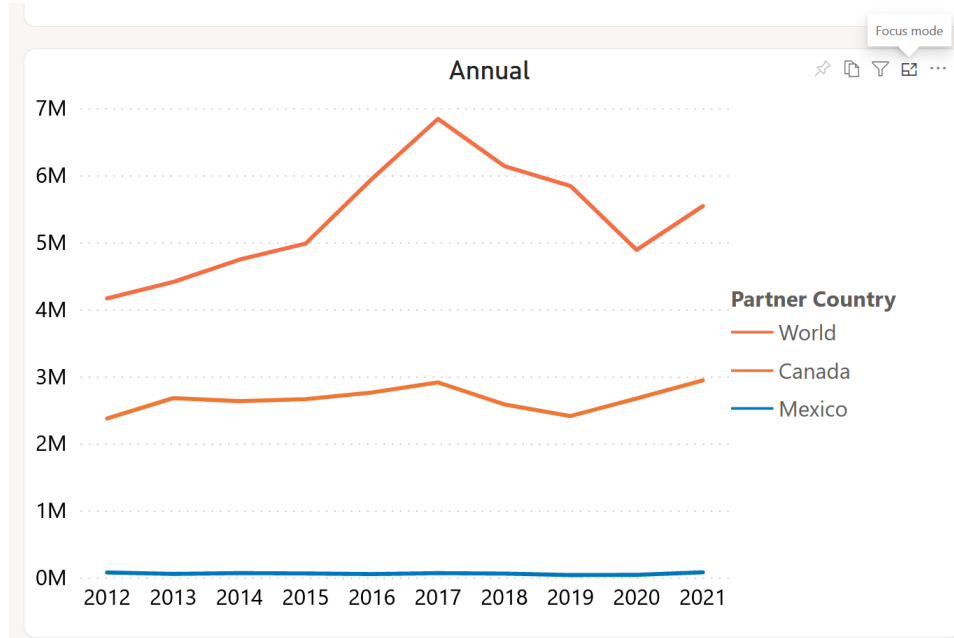
Printing Tables and Graphs

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

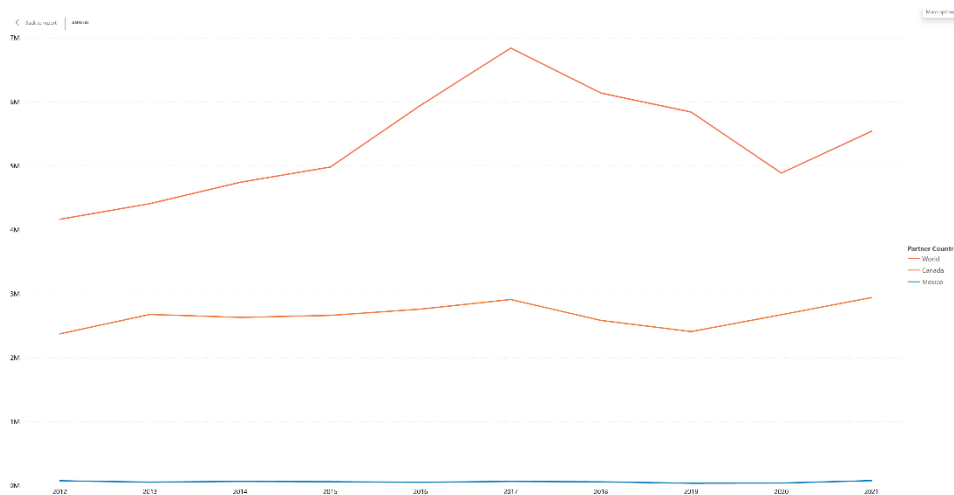
- Once you have the desired filters in place, select “focus mode” in the top right of the graph or table. This spotlights the graphic/table, expanding it to cover the full screen. You can then use any screen capture method, including using the snipping tool or screenshotting, to save the image.
 - For 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, to save an image of the chart or other graphic.

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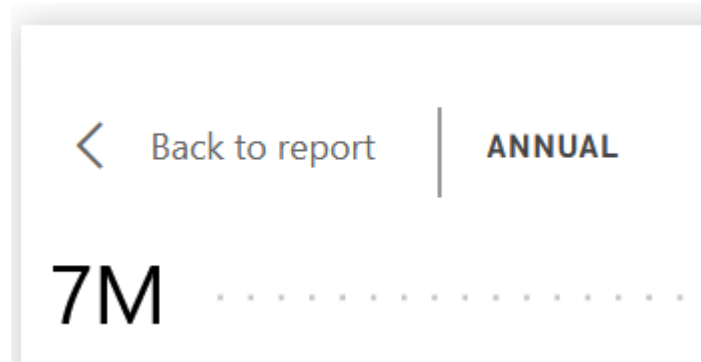
- This is what the chart looks like in focus mode:



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

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- Once you have saved this image to your computer, you may open it using your preferred viewing software and print it as you would another image.

Support

Please see FAQs, Instructional Videos, and User Guides at <https://www.trade.gov/aluminum>. Forward all questions to aluminum.license@trade.gov.