Effective March 23, President Trump will apply 25% and 10% tariffs, respectively, on certain steel and aluminum imports, from all countries, excluding Canada and Mexico at least at this time. These tariffs will affect various stakeholders in the U.S. economy, prompting reactions from several Members of Congress, some in support and others voicing concerns. In general, the tariffs would be expected to benefit the domestic steel and aluminum industries, leading to potential expansion in production in those sectors, while potentially negatively affecting consumers and downstream domestic industries (e.g., manufacturing and construction) through higher costs.

For more information on the Section 232 case, see CRS Insight IN10872, The President Acts to Impose Tariffs on Steel and Aluminum Imports, by Rachel F. Fefer and Vivian C. Jones; and CRS Legal Sidebar LSB10097, Threats to National Security Foiled? A Wrap Up of New Tariffs on Steel and Aluminum, by Caitlaint Devereaux Lewis.

U.S. Steel and Aluminum Imports Subject to Section 232

In 2017, U.S. imports of steel and aluminum products covered by the Section 232 tariffs totaled $29.0 billion and $17.4 billion, respectively (Figure 1). Over the past decade steel imports, by value, have fluctuated significantly, while imports of aluminum have increased steadily. The
The current exclusion of Canada and Mexico from the Section 232 tariffs is economically significant as the two countries respectively accounted for 18% and 5% of relevant U.S. steel imports, and 40% and 2% of relevant U.S. aluminum imports in 2017. Excluding Canada and Mexico, the top three suppliers of steel in 2017 were the European Union (EU), South Korea, and Brazil; the top three suppliers of aluminum were China, Russia, and the United Arab Emirates (Table 1).

Figure 1. U.S. Steel and Aluminum Imports subject to Section 232 Tariff

Source: Created by CRS using data from Census Bureau on HTS products included in the Section 232 proclamations.

Table 1. Top U.S. Import Suppliers of Products Covered under Section 232 Proclamations
(2017)

<table>
<thead>
<tr>
<th>Steel</th>
<th>Aluminum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Country</td>
<td>Import Value</td>
</tr>
<tr>
<td></td>
<td>(million U.S.</td>
</tr>
<tr>
<td></td>
<td>$s)</td>
</tr>
<tr>
<td>European</td>
<td>20.6%</td>
</tr>
<tr>
<td>Country</td>
<td>Value</td>
</tr>
<tr>
<td>--------------</td>
<td>-------</td>
</tr>
<tr>
<td>Union</td>
<td>5,993</td>
</tr>
<tr>
<td>South Korea</td>
<td>2,787</td>
</tr>
<tr>
<td>Brazil</td>
<td>2,450</td>
</tr>
<tr>
<td>Japan</td>
<td>1,659</td>
</tr>
<tr>
<td>Russia</td>
<td>1,431</td>
</tr>
<tr>
<td>Taiwan</td>
<td>1,264</td>
</tr>
<tr>
<td>Turkey</td>
<td>1,192</td>
</tr>
<tr>
<td>China</td>
<td>1,009</td>
</tr>
<tr>
<td>India</td>
<td>761</td>
</tr>
<tr>
<td>Vietnam</td>
<td>532</td>
</tr>
<tr>
<td>Canada</td>
<td>5,187</td>
</tr>
<tr>
<td>Mexico</td>
<td></td>
</tr>
<tr>
<td>U.S. Total (All Countries)</td>
<td>29,038</td>
</tr>
</tbody>
</table>

**Source:** Created by CRS using data from the Census Bureau on HTS products included in the Section 232 proclamations.

**Notes:** European Union includes 28 member states. Canada and Mexico are currently excluded from the new tariffs.

Economic Dynamics of the Tariff Increase
Changes in tariffs affect economic activity directly by influencing the price of imported goods and indirectly through changes in exchange rates and real incomes. The extent of the price change and its impact on trade flows, employment, and production in the United States and abroad depend on resource constraints and how various economic actors (foreign producers of the goods subject to the tariffs, producers of domestic substitutes, producers in downstream industries, and consumers) may respond as the effects of the increased tariffs reverberate throughout the economy. The following outcomes would be expected at the microeconomic (individual firms and consumers) level:

- **The price of the imported steel and aluminum products would likely increase.** The magnitude of the price increase will depend on a number of factors including the level of current and potential country and product exceptions, and the ability of foreign producers to lower their own prices and absorb a portion of the tariff increase, which determines the extent the tariffs are "passed through" to downstream industries and consumers.

- **Demand for the imported goods facing the tariffs would likely decrease, while demand for those goods produced domestically or in countries excluded from the tariff would likely increase.** Consumers and downstream firms' sensitivity to the price increase (their price elasticity of demand) will depend in large part on the degree to which the steel and aluminum products produced domestically or in excluded countries are sufficient substitutes for the products facing the tariffs.

- **The price and output of steel and aluminum produced domestically or in countries excluded from the tariffs will likely increase.** As consumers of the products facing the tariffs shift their demand to tariff-free substitutes, domestic and excluded-country producers will likely respond by increasing output and raising prices. Resource constraints that may limit this expansion could cause prices to increase more rapidly.

- **Input costs for downstream domestic producers will likely increase.** As prices likely rise in the United States for the goods subject to the tariffs, domestic industries that use steel and aluminum in their products ("downstream" industries, such as auto manufacturers and oil producers) will face higher input costs. Higher input costs for downstream domestic producers will likely lead to some combination of lower profits and higher prices, which in turn, could dampen demand for downstream products and result in a reduction of output in these sectors.

Aggregating these microeconomic effects, tariffs also have the potential to affect macroeconomic variables, although these impacts may be limited in the case of the Section 232 tariffs, given their focus on two specific commodities with potential exemptions, relative to the size of the U.S. economy. With regard to the value of the U.S. dollar, as demand for foreign goods likely falls in response to the tariff, U.S. demand for foreign currency may also fall, putting upward pressure on the relative exchange value of the dollar. Tariffs may also affect national consumption patterns, depending on how the shift to higher cost domestic substitutes affects consumers' discretionary income and therefore aggregate demand. Finally, given the ad-hoc nature, these tariffs, in particular, are also likely to increase uncertainty in the U.S. business environment potentially placing a drag on investment.

**Assessing the Overall Economic Impact**

From a global standpoint, tariff increases on steel and aluminum are likely to result in an unambiguous welfare loss due to what most economists consider is a misallocation of resources.
caused by shifting production from lower-cost to higher-cost producers. Looking solely at the
domestic economy, the net welfare effect is unclear, but also likely negative. Generally,
economic models would suggest the negative impact of higher prices on consumers and
industries using the imported goods is likely to outweigh the benefit of higher profits and
expanded production in the import-competing industry and the additional government revenue
generated by the tariff. It is theoretically plausible to generate an overall positive welfare effect
for the domestic economy if the foreign producers absorb a large enough portion of the tariff
increase. Given the current excess capacity and intense price competition in the global steel and
aluminum industries, however, this level of tariff absorption by foreign firms seems unlikely.
Moreover, any potential retaliation by foreign governments would erode this welfare gain.
Major U.S. trading partners, such as the EU, have already expressed their intent to retaliate
against the U.S. action by imposing tariffs on various U.S. exports.

The direct economic effects of the tariffs may be limited due to the relatively small share of
economic activity directly affected. Excluding Canada and Mexico, U.S. imports of covered
steel and aluminum were $21.4 billion and $10.1 billion, respectively, accounting for 1.3% of
producers employ approximately 200,000 workers in the United States, less than 1% of total
U.S. private employment (120 million). Various stakeholder groups have prepared quantitative
estimates of the costs and benefits across the economy. Specific estimates from these studies
should be interpreted with caution given their sensitivity to modeling assumptions and
techniques, but generally they suggest a small negative overall effect on U.S. gross domestic
product (GDP) from the tariffs with employment shifts into the domestic steel and aluminum
industries and away from other sectors in the economy.

Ultimately the economic significance of the tariffs will largely depend on two currently
unknown variables, namely

- **The range of product and country exclusions.** Canada and Mexico are excluded, which
together account for more than 25% of steel and 40% of aluminum imports covered by
the tariff. The United States also has important national security relationships, a key
factor for potential exemptions according to the U.S. proclamations, with the EU and
South Korea. Exempting these partners, together with Canada and Mexico, would
exclude more than 50% of relevant U.S. steel imports. Specific products may also be
excluded from the tariffs, which would further limit any economic impact.

- **The degree to which other countries retaliate.** Retaliation would have an immediate
negative economic impact on the industries subject to retaliatory tariffs. Depending on
the degree of retaliation it could also set off a tit-for-tat process of increasing global
protectionism, leading to a reduction in global trade volumes and a costly and inefficient
reallocation of resources.