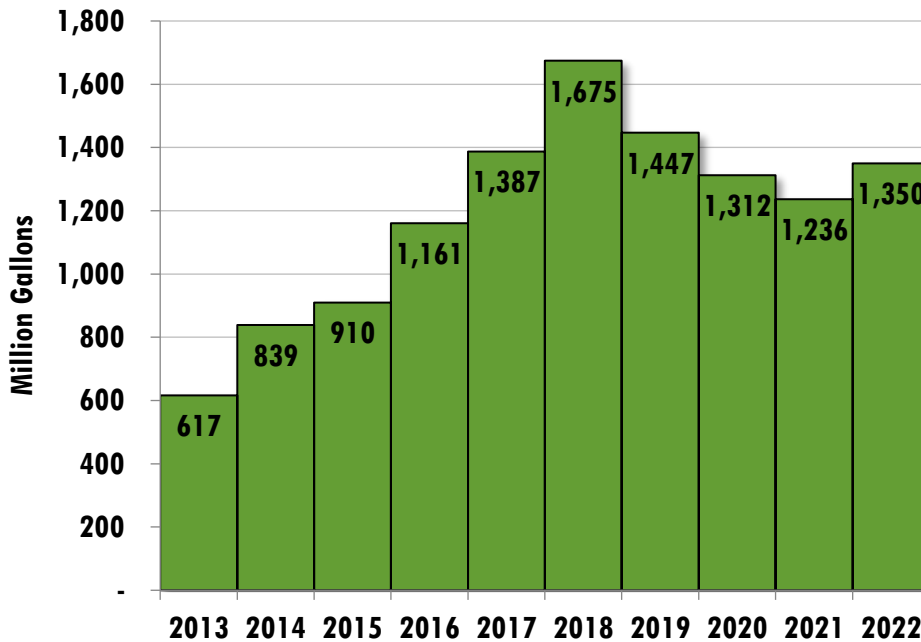




2022 U.S. ETHANOL EXPORTS & IMPORTS STATISTICAL SUMMARY

2022 U.S. ETHANOL EXPORTS

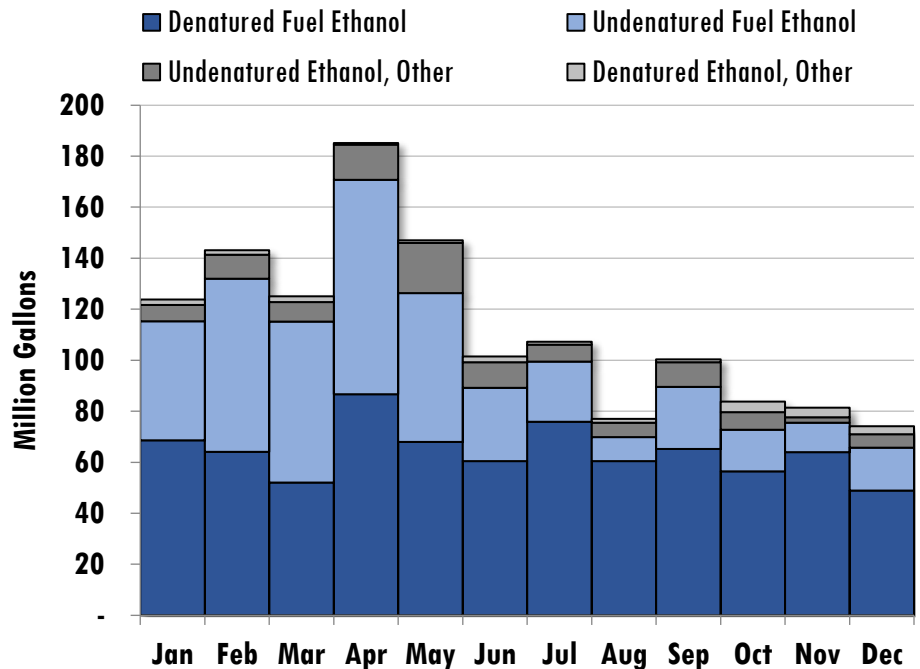
Annual U.S. Ethanol Exports



Spurred by competitive pricing and tight global fuel supplies, **U.S. ethanol exports rose 9% to 1.35 billion gallons in 2022—the fourth-highest volume on record.** American-made ethanol was exported to **85 countries** on all six inhabited continents.

Exports started 2022 strong but eased during the second half of the year, when shipments to South Korea and India declined and minimal volumes went to Brazil. **Denatured ethanol** accounted for **63%** of exports classified as being for fuel use, while **undenatured ethanol** represented **37%**.

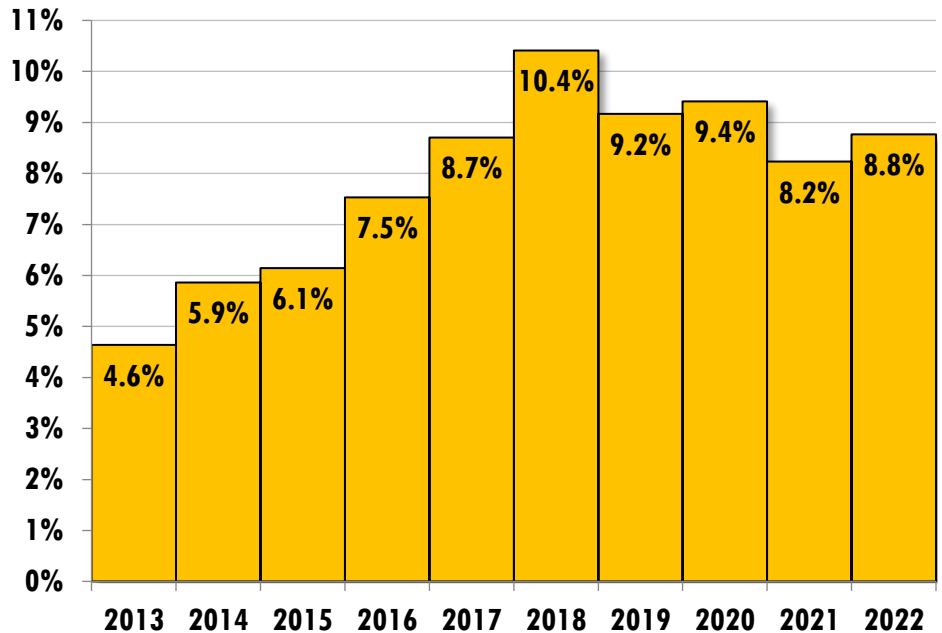
2022 Monthly Ethanol Exports, by Type



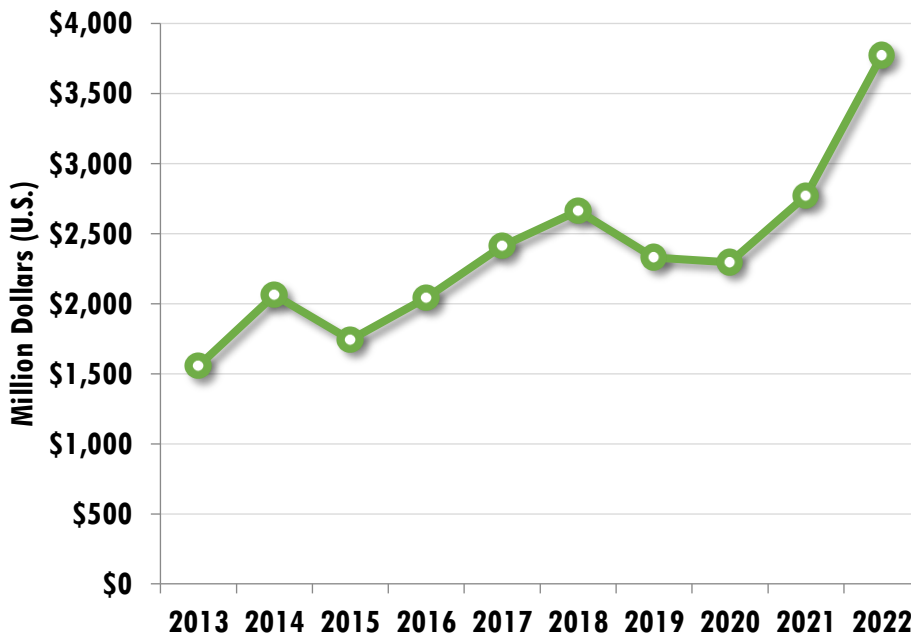
2022 U.S. ETHANOL EXPORTS

Export Share of U.S. Ethanol Production

The share of U.S. ethanol production that was exported rebounded to 8.8% in 2022, which was consistent with the prior five years.



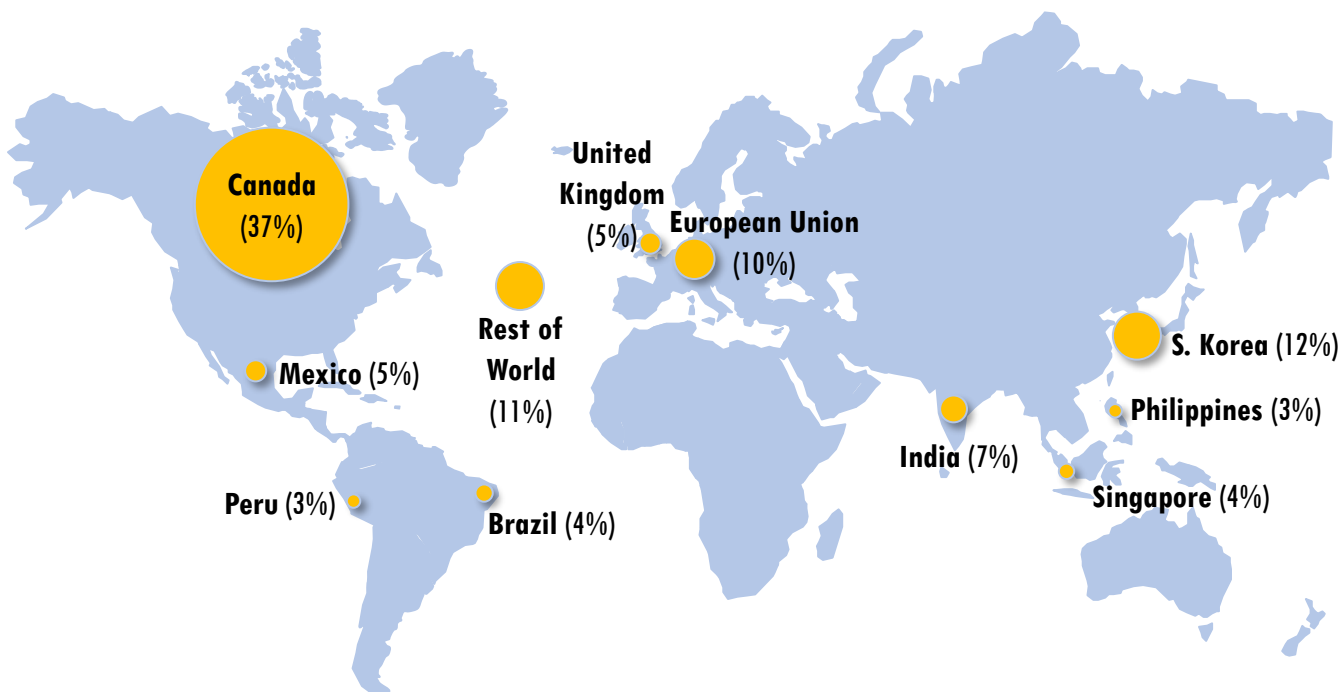
Value of U.S. Ethanol Exports



The value of U.S. ethanol exports **surged to \$3.77 billion** in 2022, a record high and an increase of \$1 billion over 2021. Export volumes and prices both increased.

2022 ETHANOL EXPORTS: TOP MARKETS

Top Markets for U.S. Ethanol Exports in 2022



2022 ethanol export volumes to the Top 10 markets are shown in the table below, along with a comparison to 2021 volumes. All figures are shown in millions of gallons, unless otherwise noted.

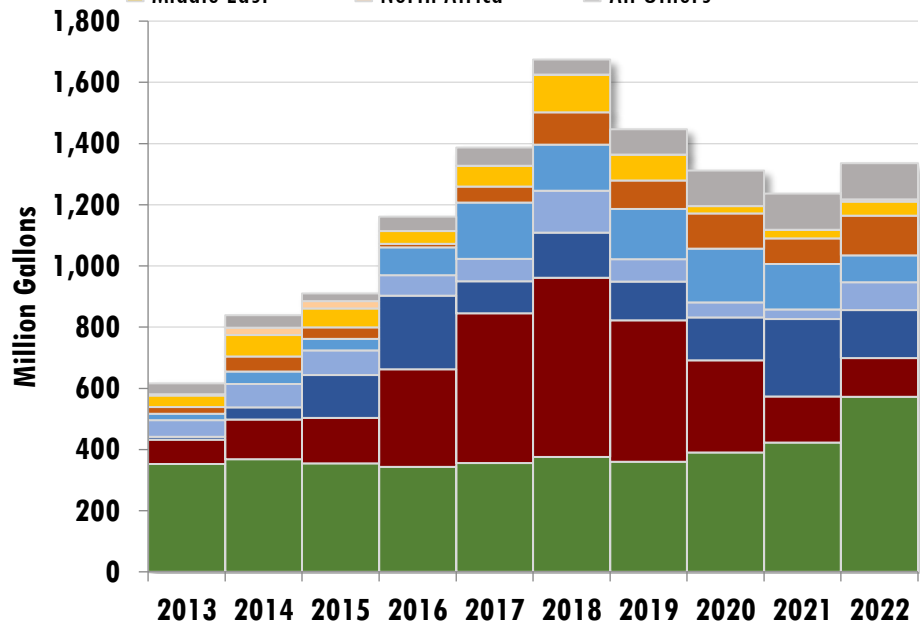
Country	Den. Fuel	Und. Fuel	Den. Other	Und. Other	2022 Total	2021 Total	Change
Canada	463.3	7.1	16.6	15.5	502.5	374.4	+34%
South Korea	57.2	67.6	3.4	28.2	156.4	150.8	+4%
European Union	66.7	45.6	0.1	17.2	129.5	83.0	+56%
India	2.0	86.6	0.0	0.0	88.6	148.9	-40%
Mexico	5.3	54.3	1.8	8.3	69.8	49.0	+42%
United Kingdom	61.7	5.4	0.0	0.0	67.1	41.5	+62%
Brazil	13.1	46.2	0.1	0.0	59.5	69.5	-14%
Singapore	21.8	28.1	0.0	0.1	50.1	4.1	+1133%
Peru	10.7	35.2	0.0	0.0	45.9	43.9	+5%
Philippines	12.6	23.9	0.1	1.6	38.1	27.6	+38%

2022 U.S. ETHANOL EXPORT DESTINATIONS

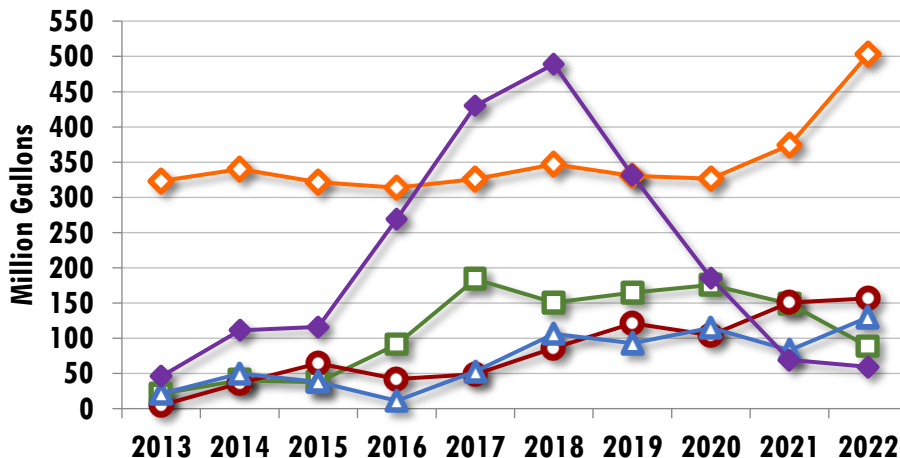
U.S. Exports by Region



North America continued to be the **largest regional destination** for U.S. exports in 2022. **East Asia** remained in second place, though its share declined. The **European Union** rose to third place. However, shipments to **South America** fell further.



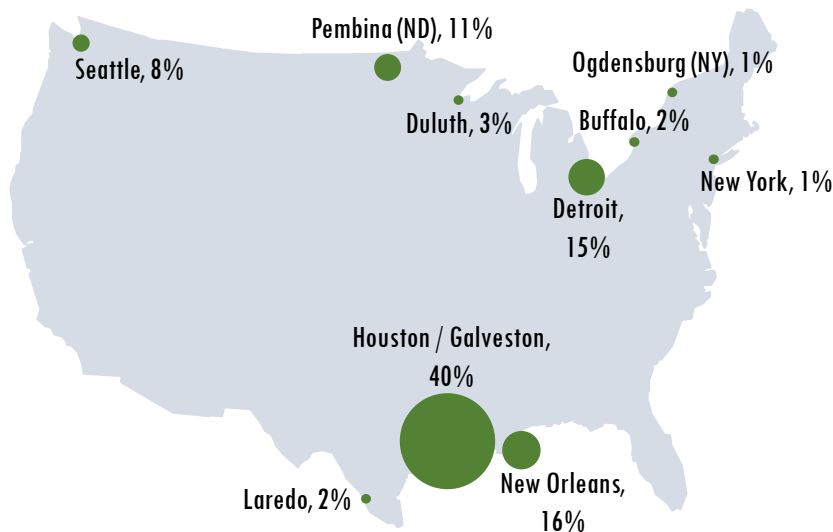
Volatility in Major U.S. Ethanol Export Markets



Canada remained the **top market** for U.S. ethanol, taking more than **500 million gallons, a record** for any destination. Exports to the **EU** rose more than **50%**, strengthening after the Russian invasion of Ukraine. However, shipments to **Brazil** fell further.

2022 EXPORT HUBS AND NET EXPORTS

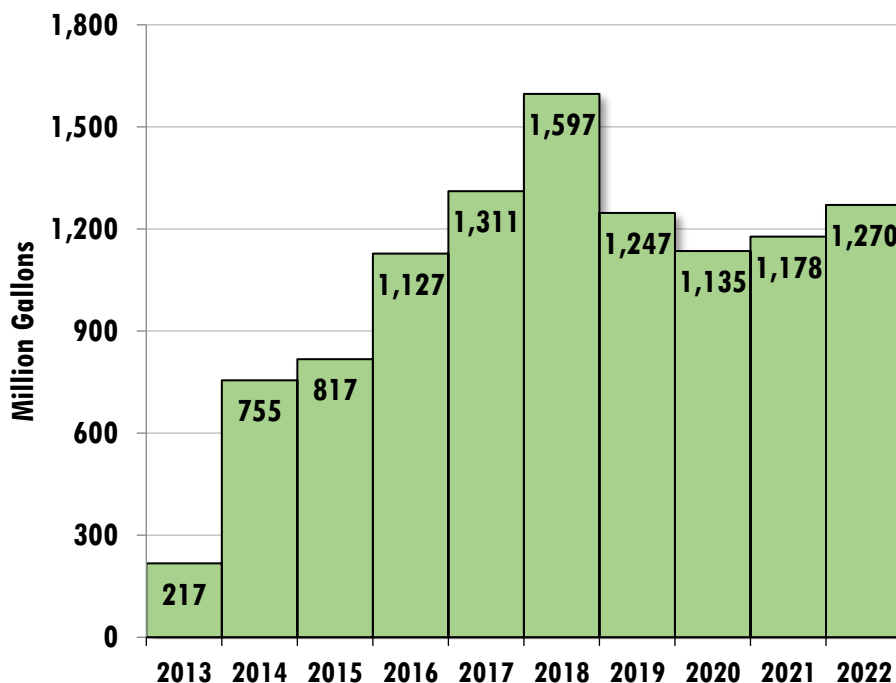
Top Ports/Districts of Exit for 2022 U.S. Ethanol Exports



More than half of U.S. ethanol exports departed via the **Gulf of Mexico**. The **Great Lakes and Northern Tier** were collectively the **second-largest** region. Significant volumes also were shipped from the **Pacific Northwest**.

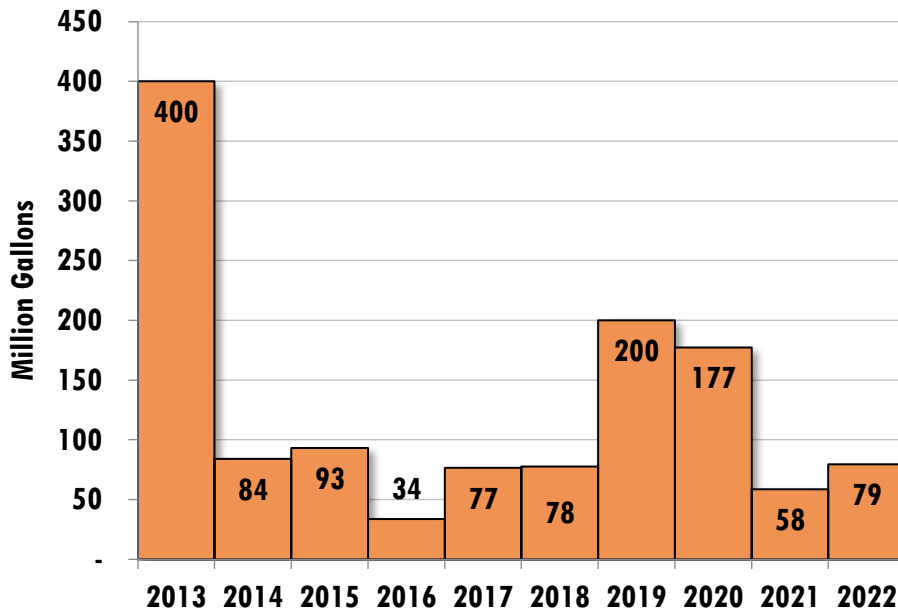
Net exports of ethanol continued to rise in 2022, despite higher imports. The U.S. remained a net exporter for the 13th straight year.

Annual U.S. Net Ethanol Exports



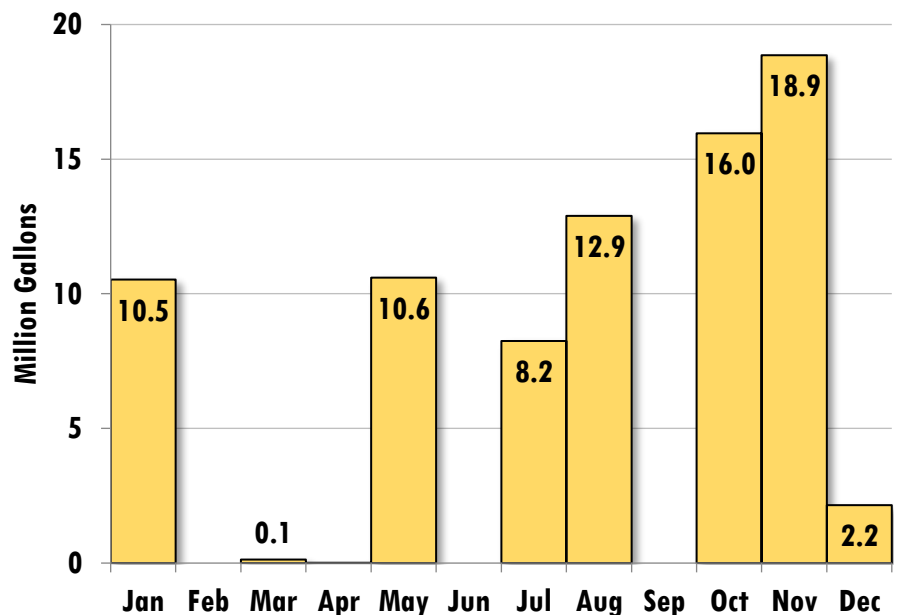
2022 U.S. ETHANOL IMPORTS

Annual U.S. Fuel Ethanol Imports



U.S. imports of fuel ethanol rebounded to **79 million gallons** in 2022, a level consistent with most of the last decade.

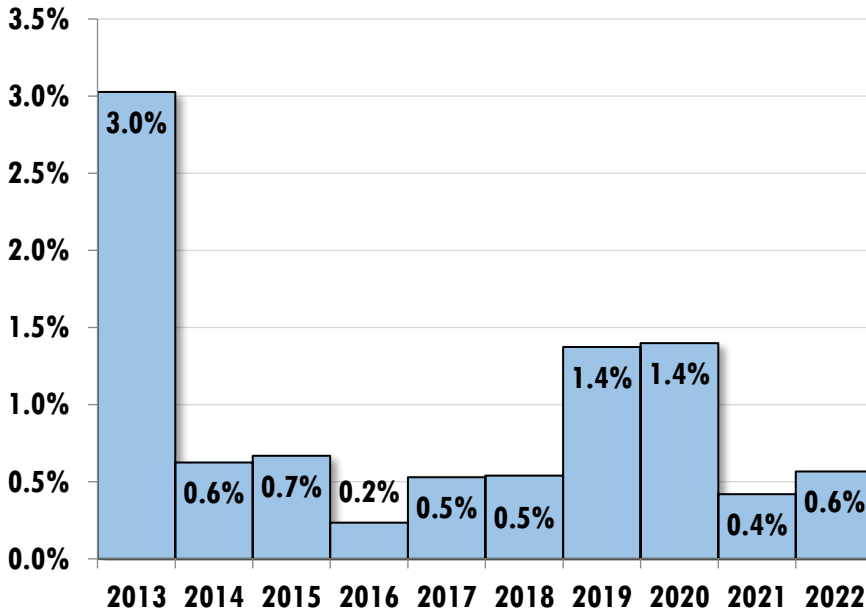
2022 Monthly Ethanol Imports



Virtually all fuel ethanol imports continued to come from **Brazil**, due in large part to favorable treatment under the California Low Carbon Fuel Standard.

2022 U.S. ETHANOL IMPORTS

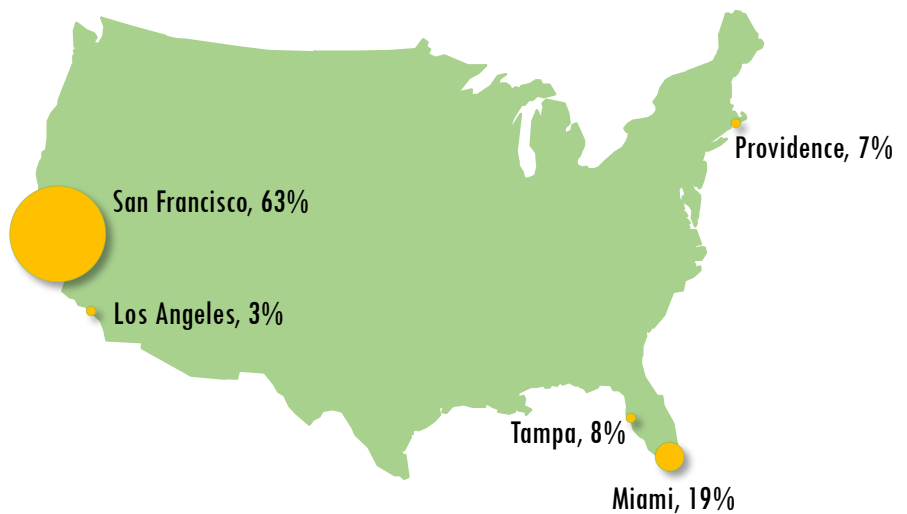
**U.S. Ethanol Imports:
Share of Total U.S. Ethanol Consumption**



Ethanol enhanced America's energy security, as imports accounted for **less than 1%** of U.S. ethanol consumption in 2022.

Top Ports of Entry for 2022 U.S. Ethanol Imports

California ports received **two-thirds** of the fuel ethanol **imported** into the U.S. in 2022. Significant volumes also were imported into **Florida**.



ABOUT THE DATA IN THIS REPORT

U.S. Ethanol Export Data

- The export data in this report includes exports classified under the following Harmonized Tariff Schedule (HTS) codes:
 - **2207200010**: Ethyl alcohol and other spirits, denatured, of any strength: For fuel use
 - **2207106010**: Undenatured ethyl alcohol of an alcoholic strength by volume of 80 percent vol. or higher: For non-beverage purposes: For fuel use
 - **2207200090**: Ethyl alcohol and other spirits, denatured, of any strength: Other
 - **2207106090**: Undenatured ethyl alcohol of an alcoholic strength by volume of 80 percent vol. or higher: For non-beverage purposes: Other
- 2207200090 and 2207106090 are included in this report because there is anecdotal evidence that exports of ethanol intended for fuel use are sometimes classified under these codes. In any case, ethanol classified under these codes represented 10% of the 2022 U.S. exports discussed in this report.

U.S. Ethanol Import Data

- The import data in this report includes imports classified under the following Harmonized Tariff Schedule (HTS) codes:
 - **2207200010**: Ethyl alcohol and other spirits, denatured, of any strength: For fuel use
 - **2207106010**: Undenatured ethyl alcohol of an alcoholic strength by volume of 80 percent vol. or higher: For non-beverage purposes: For fuel use

Sources

- All data in this report comes from the U.S. Census Bureau, U.S. Department of Commerce, U.S. Department of Agriculture, U.S. International Trade Commission, and U.S. Energy Information Administration

The Renewable Fuels Association publishes **monthly** summaries of export and import data for ethanol and distillers dried grains in its [Trade Monitor](#).

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