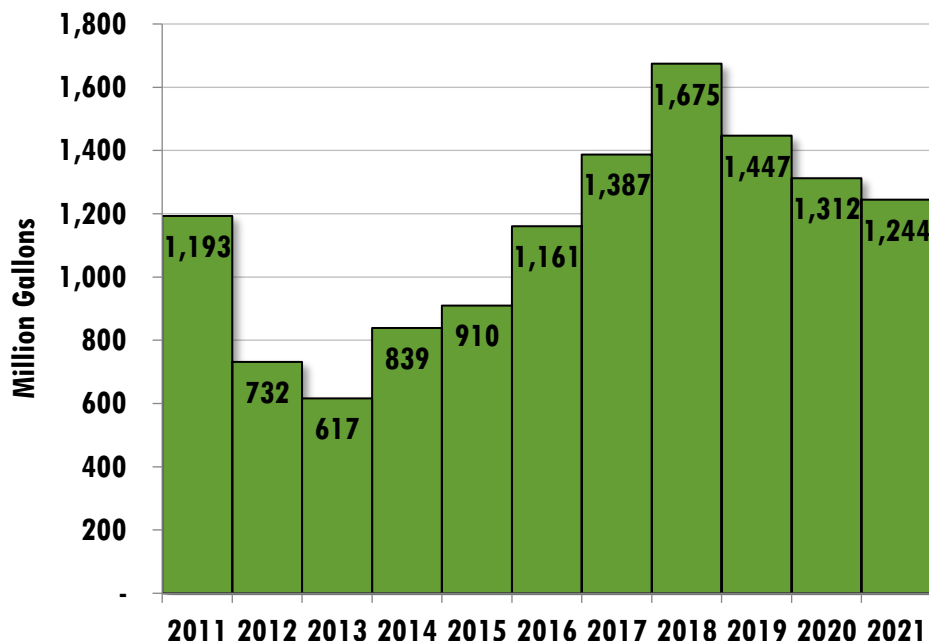


2021 U.S. ETHANOL EXPORTS & IMPORTS STATISTICAL SUMMARY



2021 U.S. ETHANOL EXPORTS

Annual U.S. Ethanol Exports

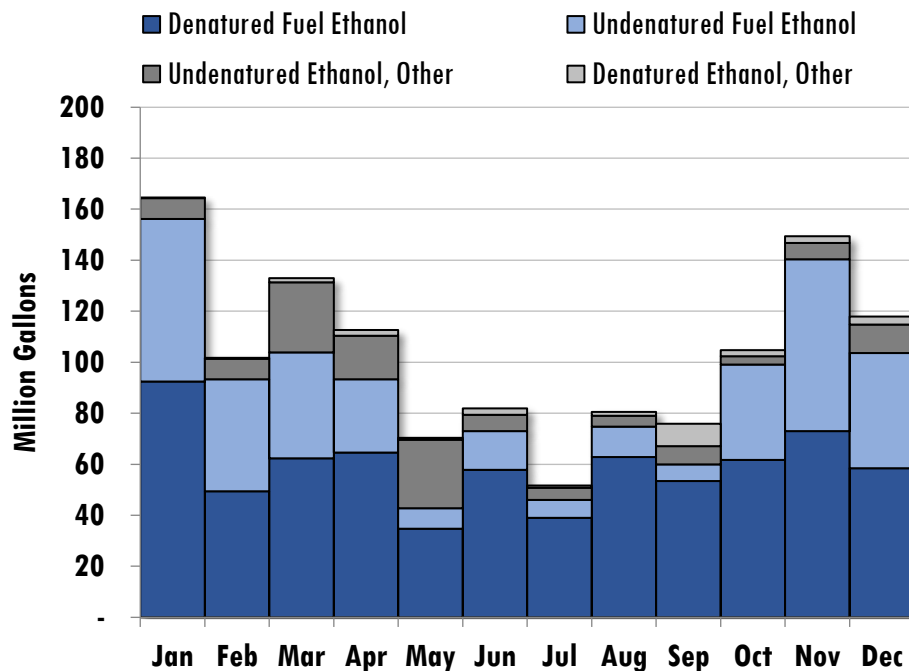


The U.S. exported **1.24 billion gallons** of ethanol in 2021—down 5% from 2020 but still the **fifth-highest volume** on record. American-made ethanol was exported to **88 countries** on all six inhabited continents around the world.

2021 Monthly Ethanol Exports, by Type

Denatured fuel ethanol accounted for **57%** of exports.

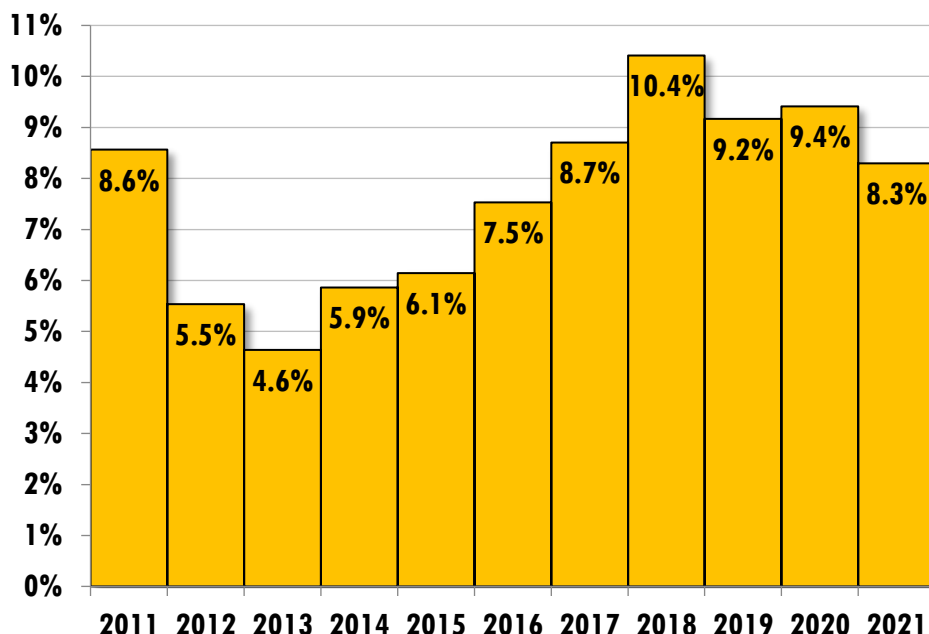
The share represented by **undenatured fuel ethanol** slipped to **30%**, but exports of **undenatured industrial ethanol doubled**, largely as a result of **China's** return to the market. **Denatured industrial ethanol** contributed **2%** of shipments.



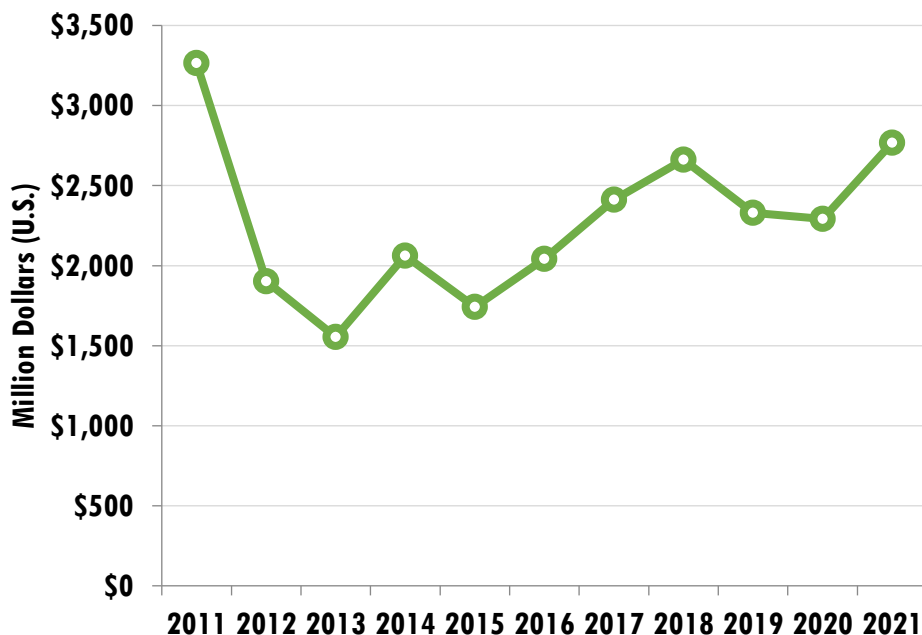
2021 U.S. ETHANOL EXPORTS

Export Share of U.S. Ethanol Production

Approximately
8.3% of the
ethanol produced
in the U.S. in 2021
was exported, a
lower share than in
recent years.



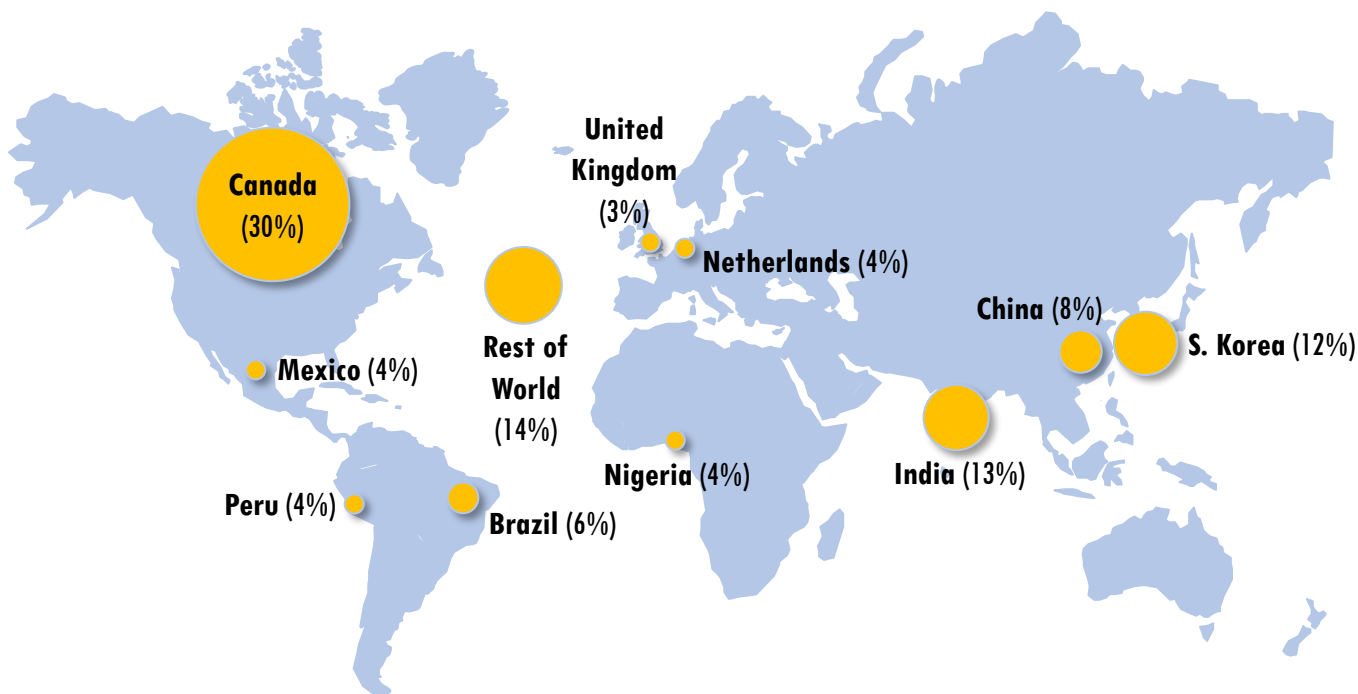
Value of U.S. Ethanol Exports



The value of U.S. ethanol exports rose to **\$2.77 billion** in 2021, the **second-highest** ever, as ethanol prices **rebounded** strongly from pandemic lows.

2021 ETHANOL EXPORTS: TOP MARKETS

Top Markets for U.S. Ethanol Exports in 2021



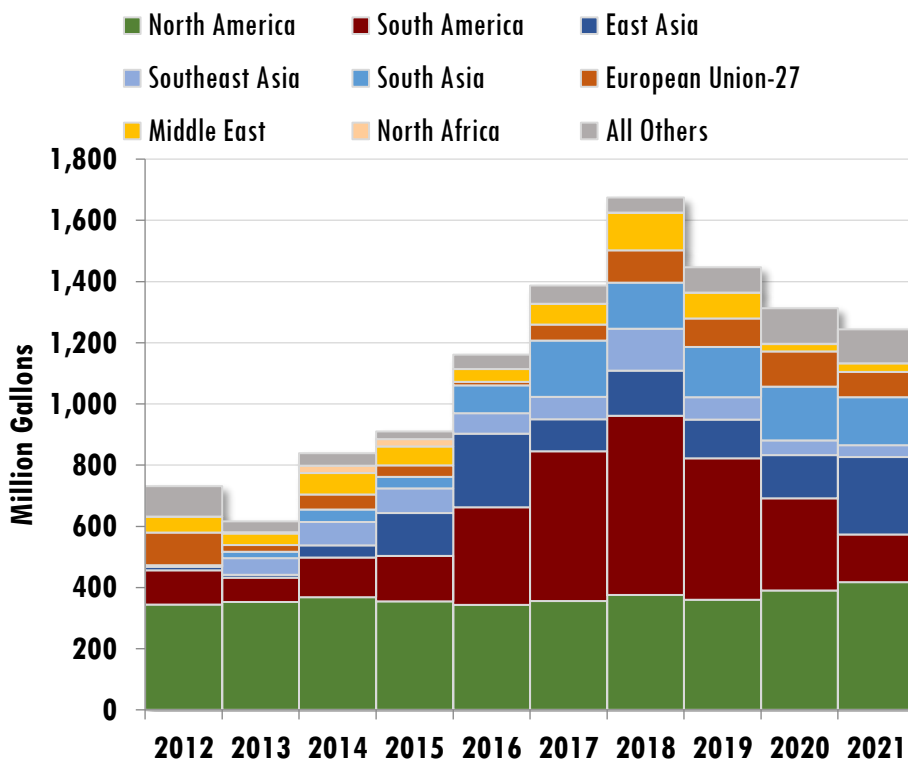
2021 ethanol export volumes to the Top 10 markets are shown in the table below, along with a comparison to 2020 volumes. All figures are shown in millions of gallons, unless otherwise noted.

Country	Den. Fuel	Und. Fuel	Den. Other	Und. Other	2021 Total	2020 Total	Change
Canada	337.0	3.5	12.9	16.9	370.2	326.3	+13%
India	57.1	99.3	0.0	0.0	156.4	175.6	-11%
South Korea	91.9	43.2	5.3	11.3	151.7	104.1	+46%
China	22.7	29.5	0.0	48.0	100.2	31.7	+216%
Brazil	22.1	53.8	0.0	0.0	75.9	185.8	-59%
Mexico	2.6	41.8	0.9	2.1	47.4	64.4	-26%
Nigeria	15.0	9.5	0.0	19.7	44.2	37.2	+19%
Netherlands	36.9	6.9	0.0	0.0	43.9	85.0	-48%
Peru	28.3	10.7	4.7	0.0	43.7	44.5	-2%
United Kingdom	28.3	13.1	0.0	0.1	41.5	24.2	+72%

2021 U.S. ETHANOL EXPORT DESTINATIONS

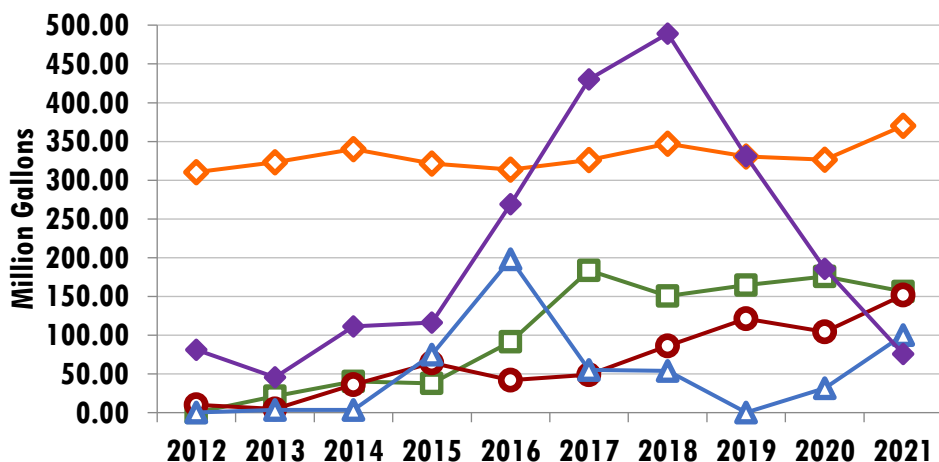
U.S. Exports by Region

North America remained the **largest regional destination** for U.S. exports in 2021, while **East Asia** rose to second place. The share of exports shipped to **South Asia** was stable. However, volumes destined for **South America** fell further.



Volatility in Major U.S. Ethanol Export Markets

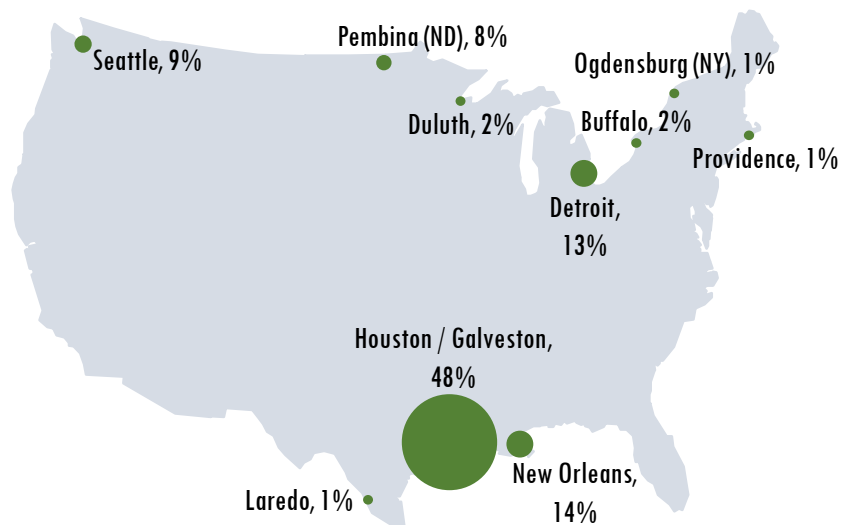
Canada India South Korea China Brazil



Canada remained the **largest and most consistent destination** for U.S. ethanol. Exports to **South Korea** rose, and shipments nearly matched those to **India**. A notable development was **China's return** as a large-scale buyer. However, for the second-straight year, the main cause of the decline in U.S. exports was a **drop in shipments to Brazil**.

2021 EXPORT HUBS AND NET EXPORTS

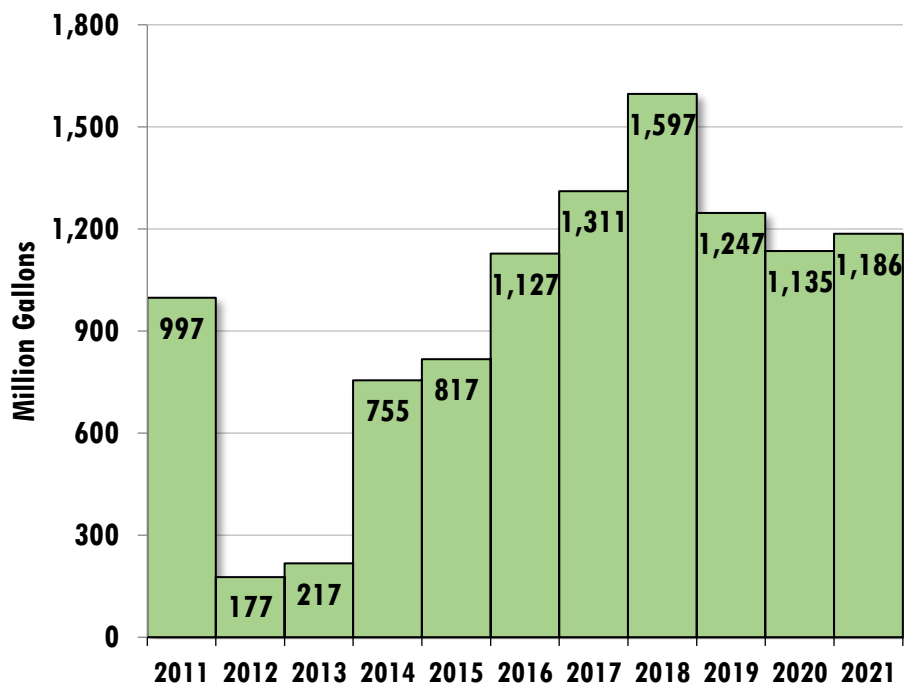
Top Ports/Districts of Exit for 2021 U.S. Ethanol Exports



Nearly **two-thirds** of U.S. ethanol exports departed via the **Gulf of Mexico** in 2021. The **Great Lakes** and **Northern Tier** were collectively the **second-largest** region. Significant volumes also were shipped from the **Pacific Northwest**.

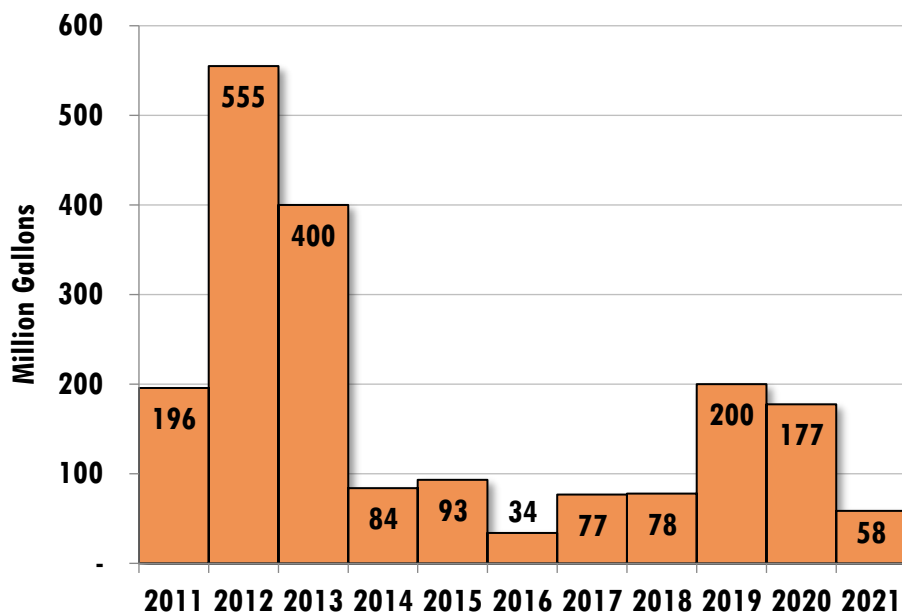
Net exports of ethanol rose in 2021, as imports declined more than exports. The U.S. remained a **net exporter** for the **12th straight year**.

Annual U.S. Net Ethanol Exports



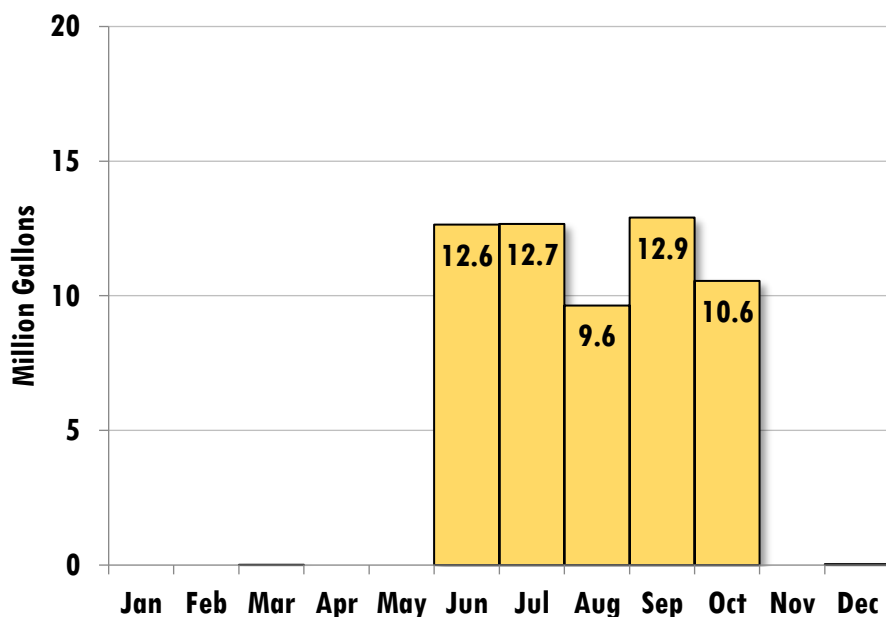
2021 U.S. ETHANOL IMPORTS

Annual U.S. Fuel Ethanol Imports



U.S. **imports** of fuel ethanol **receded** to **58 million gallons** in 2021, after volumes had been elevated during the prior two years.

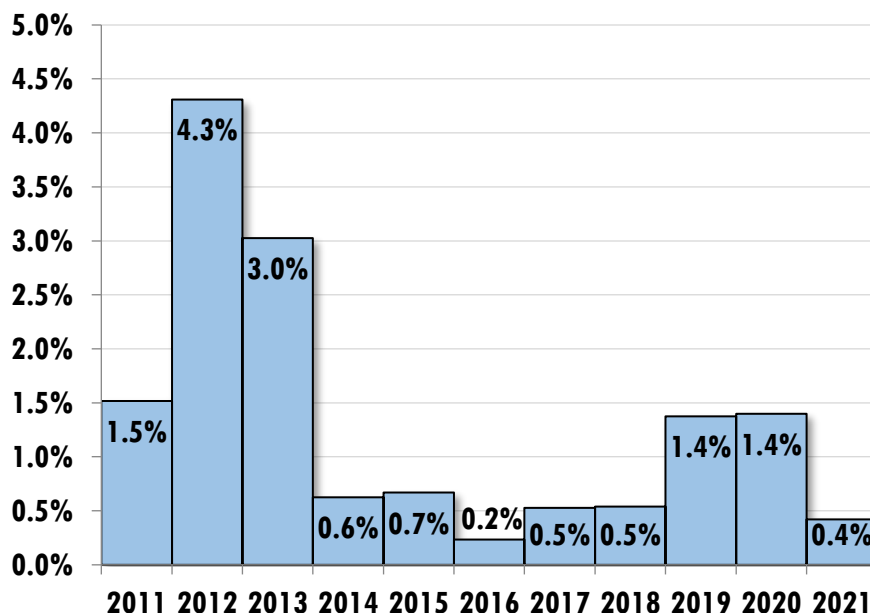
2021 Monthly Ethanol Imports



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

2021 U.S. ETHANOL IMPORTS

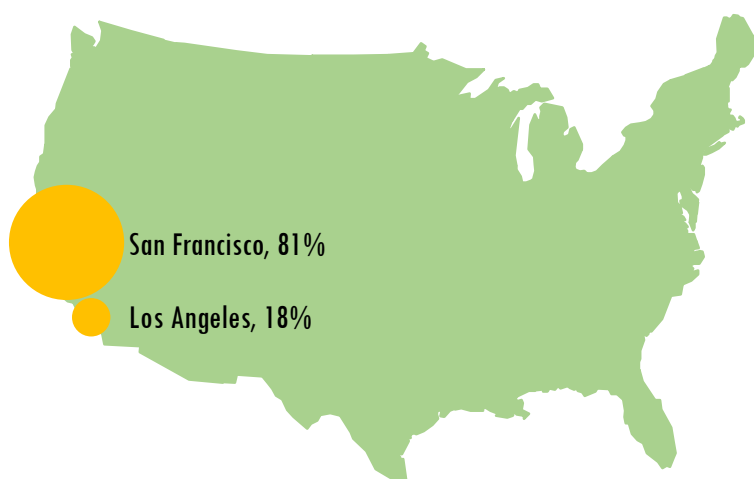
**U.S. Ethanol Imports:
Share of Total U.S. Ethanol Consumption**



Imports accounted for **less than 1%** of the ethanol consumed in the U.S. in 2021, a decline from the prior two years.

Top Ports of Entry for 2021 U.S. Ethanol Imports

California ports received **99%** of the fuel ethanol **imported** into the U.S. in 2021, driven by the state's Low Carbon Fuel Standard.



ABOUT THE DATA IN THIS REPORT

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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 13% of the 2021 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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