

Ethanol Market And Pricing Data

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Reports available at https://grains.org/ethanol_report/.

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The U.S. Grains Council is a private, non-profit partnership of producers and agribusinesses committed to building and expanding international markets for U.S. barley, corn, grain sorghum and their products. The Council is headquartered in Washington, D.C. and has ten international offices that oversee programs in more than 50 countries. Financial support from our private industry members, including state checkoffs, agribusinesses, state entities and others, triggers federal matching funds from the USDA resulting in a combined program value of more than \$26 million.

Ethanol, Fuels and Co-Product Pricing

| Comparative Pricing for Fuels and Co-Products - \$/Gallon | | | | | | | |
|---|---------------|--------------------------|------------------|---------------------------------|---------------------------------|--|--|
| Product | Current price | Prior week average | Previous year | % change (week over week) | % change (year over year) | | |
| Ethanol | | | | | | | |
| Ethanol (FOB Gulf) | \$1.742 | \$1.740 | \$2.284 | 0.1% | -23.7% | | |
| Anhydrous Ethanol (FOB Santos, Brazil) | \$1.825 | \$1.846 | \$2.373 | -1.2% | -23.1% | | |
| Hydrous Ethanol (FOB Santos, Brazil) | \$1.725 | \$1.731 | \$2.102 | -0.3% | -17.9% | | |
| Anhydrous - Hydrous Spread | \$0.100 | \$0.116 | \$0.271 | -13.8% | -63.2% | | |
| Gulf discount/premium from Santos | -\$0.083 | -\$0.107 | -\$0.089 | -22.3% | -7.0% | | |
| Ethanol (FOB PNW) | \$1.915 | \$1.880 | \$2.418 | 1.9% | -20.8% | | |
| Gasoline/Chemical components & additives | | | | | | | |
| MTBE (FOB Gulf) | \$2.556 | \$2.498 | \$2.888 | 2.4% | -11.5% | | |
| MTBE Premium/Discount to Ethanol (FOB Gulf) | \$0.815 | \$0.758 | \$0.604 | 2.2% | 12.3% | | |
| "Aromatic" Octane Enhancers (BTX) | | | | | | | |
| Benzene (FOB U.S. Gulf) | \$3.592 | \$3.466 | \$3.170 | 3.6% | 13.3% | | |
| Toluene NITN (FOB U.S. Gulf) | \$3.482 | \$3.419 | \$3.530 | 1.8% | -1.4% | | |
| Mixed Xylene (FOB U.S. Gulf) | \$3.532 | \$3.469 | \$3.512 | 1.8% | 0.6% | | |
| Weighted Average Aromatic Price (BTX) | \$3.524 | \$3.454 | \$3.475 | 2.0% | 1.4% | | |
| Gasoline (FOB Gulf) | \$2.068 | \$2.032 | \$2.264 | 1.8% | -8.7% | | |

| Comparative Pricing for Fuels and Co-Products - \$/Liter | | | | | | | |
|--|---------------|--------------------------|------------------|---------------------------------|---------------------------------|--|--|
| Product | Current price | Prior week average | Previous year | % change (week over week) | % change (year over year) | | |
| Ethanol | | | | | | | |
| Ethanol (FOB Gulf) | \$0.460 | \$0.460 | \$0.603 | 0.1% | -23.7% | | |
| Anhydrous Ethanol (FOB Santos, Brazil) | \$0.482 | \$0.488 | \$0.627 | -1.2% | -23.1% | | |
| Hydrous Ethanol (FOB Santos, Brazil) | \$0.456 | \$0.457 | \$0.555 | -0.3% | -17.9% | | |
| Anhydrous - Hydrous Spread | \$0.026 | \$0.031 | \$0.072 | -13.8% | -63.2% | | |
| Gulf discount/premium from Santos | -\$0.022 | -\$0.028 | -\$0.024 | -22.3% | -7.0% | | |
| Ethanol (FOB PNW) | \$0.506 | \$0.497 | \$0.639 | 1.9% | -20.8% | | |
| Gasoline/Chemical components & additives | | | | | | | |
| MTBE (FOB Gulf) | \$0.675 | \$0.660 | \$0.763 | 2.4% | -11.5% | | |
| MTBE Premium/Discount to Ethanol (FOB Gulf) | \$0.215 | \$0.200 | \$0.160 | 2.2% | 12.3% | | |
| "Aromatic" Octane Enhancers (BTX) | | | | | | | |
| Benzene (FOB U.S. Gulf) | \$0.949 | \$0.916 | \$0.838 | 3.6% | 13.3% | | |
| Toluene NITN (FOB U.S. Gulf) | \$0.920 | \$0.903 | \$0.933 | 1.8% | -1.4% | | |
| Mixed Xylene (FOB U.S. Gulf) | \$0.933 | \$0.916 | \$0.928 | 1.8% | 0.6% | | |
| Weighted Average Aromatic Price (BTX) | \$0.931 | \$0.912 | \$0.918 | 2.0% | 1.4% | | |
| Gasoline (FOB Gulf) | \$0.546 | \$0.537 | \$0.598 | 1.8% | -8.7% | | |

| FOB and Estimated CNF Ethanol Prices, \$/MT | | | | | | |
|---|--|--|--|--|--|--|
| Current price | Prior week average | Previous year | W/W % Change | Y/Y % Change | | |
| | | | | | | |
| \$588.45 | \$587.72 | \$771.70 | 0.1% | -23.7% | | |
| \$616.47 | \$623.76 | \$801.84 | -1.2% | -23.1% | | |
| \$582.76 | \$584.67 | \$710.21 | -0.3% | -17.9% | | |
| | | | | | | |
| \$600.56 | \$601.54 | \$778.94 | -0.2% | -22.9% | | |
| \$640.78 | \$640.05 | \$823.93 | 0.1% | -22.2% | | |
| \$650.95 | \$654.83 | \$815.12 | -0.6% | -20.1% | | |
| \$649.63 | \$653.51 | \$808.54 | -0.6% | -19.7% | | |
| \$655.12 | \$654.39 | \$836.70 | 0.1% | -21.7% | | |
| \$631.95 | \$631.22 | \$811.19 | 0.1% | -22.1% | | |
| \$661.78 | \$661.05 | \$857.53 | 0.1% | -22.8% | | |
| \$697.62 | \$695.73 | \$884.32 | 0.3% | -21.1% | | |
| \$684.63 | \$683.90 | \$872.43 | 0.1% | -21.5% | | |
| \$718.58 | \$717.85 | \$913.31 | 0.1% | -21.3% | | |
| \$691.36 | \$690.63 | \$885.46 | 0.1% | -21.9% | | |
| \$632.49 | \$631.76 | \$811.97 | 0.1% | -22.1% | | |
| \$699.27 | \$706.56 | \$891.95 | -1.0% | -21.6% | | |
| \$682.29 | \$689.58 | \$878.88 | -1.1% | -22.4% | | |
| \$699.23 | \$706.52 | \$898.71 | -1.0% | -22.2% | | |
| \$726.49 | \$733.78 | \$919.80 | -1.0% | -21.0% | | |
| \$630.80 | \$641.70 | \$765.82 | _0 3º/- | -16.5% | | |
| • | • | · | | -16.5 <i>%</i> -16.2% | | |
| • | • | • | | -16.2% -16.3% | | |
| · · | • | - | | -16.3% -16.2% | | |
| · · | • | • | | -16.2% -16.0% | | |
| | \$588.45 \$616.47 \$582.76 \$600.56 \$640.78 \$650.95 \$649.63 \$655.12 \$631.95 \$661.78 \$697.62 \$684.63 \$718.58 \$691.36 \$632.49 \$699.27 \$682.29 \$699.23 | \$588.45 \$587.72 \$616.47 \$623.76 \$582.76 \$584.67 \$600.56 \$640.78 \$640.05 \$650.95 \$654.83 \$649.63 \$653.51 \$655.12 \$661.78 \$661.05 \$697.62 \$695.73 \$684.63 \$683.90 \$718.58 \$717.85 \$691.36 \$690.63 \$632.49 \$631.76 \$699.27 \$706.56 \$682.29 \$689.58 \$699.23 \$706.52 \$726.49 \$733.78 \$639.80 \$641.70 \$681.78 \$6629.90 \$631.81 \$652.59 \$654.50 | Current price Prior week average Previous year \$588.45 \$587.72 \$771.70 \$616.47 \$623.76 \$801.84 \$582.76 \$584.67 \$710.21 \$600.56 \$601.54 \$778.94 \$640.78 \$640.05 \$823.93 \$650.95 \$654.83 \$815.12 \$649.63 \$653.51 \$808.54 \$655.12 \$654.39 \$836.70 \$631.95 \$631.22 \$811.19 \$661.78 \$661.05 \$857.53 \$697.62 \$695.73 \$884.32 \$684.63 \$683.90 \$872.43 \$718.58 \$717.85 \$913.31 \$691.36 \$690.63 \$885.46 \$632.49 \$631.76 \$811.97 \$699.27 \$706.56 \$891.95 \$682.29 \$689.58 \$878.88 \$699.23 \$706.52 \$898.71 \$726.49 \$733.78 \$919.80 \$639.80 \$641.70 \$765.82 \$681.78 \$ | Current price Prior week average Previous year W/W % Change \$588.45 \$587.72 \$771.70 0.1% \$616.47 \$623.76 \$801.84 -1.2% \$582.76 \$584.67 \$710.21 -0.3% \$600.56 \$601.54 \$778.94 -0.2% \$640.78 \$640.05 \$823.93 0.1% \$650.95 \$654.83 \$815.12 -0.6% \$649.63 \$653.51 \$808.54 -0.6% \$655.12 \$654.39 \$836.70 0.1% \$631.95 \$631.22 \$811.19 0.1% \$661.78 \$661.05 \$857.53 0.1% \$697.62 \$695.73 \$884.32 0.3% \$684.63 \$683.90 \$872.43 0.1% \$718.58 \$717.85 \$913.31 0.1% \$691.36 \$690.63 \$885.46 0.1% \$632.49 \$631.76 \$811.97 0.1% \$699.27 \$706.56 \$891.95 -1.0% \$699.23 | | |

Source: World Perspectives, Inc.

Note: estimated cost and freight (C&F) prices are based on information believed to be reliable and accurate. Estimates for some routes may be based on mathematical inference and not actual market offers. Terms of trade and market conditions may cause actual prices to vary from these estimates.

Market Outlook: U.S. ethanol prices ended last week 0.6 percent higher and extended those gains in early week trading and rose 1.9 percent through Tuesday's close. Midwest wholesale rack ethanol prices were lower to end last week but were up 0.1 percent through Tuesday's market close to their last quote of 46.28 cents/liter (175.18 cents/gallon).

FOB Houston ethanol prices finished last week 2.7 percent higher and are up 0.2 percent through Tuesday's trading from Friday's close. FOB Houston ethanol prices are quoted at 46.01 cents/liter (174.18 cents/gallon). FOB Santos, Brazil anhydrous ethanol prices were higher last week; they are down in early week trading, falling 1.2 percent to 48.2 cents/liter (182.475 cents/gallon) through Tuesday's trading.

The FOB Gulf-Santos, Brazil ethanol spread has narrowed from last week's close through Tuesday's trading and is currently at -2.19 cents/liter (-8.29 cents/gallon).

MTBE prices fell 0.9 percent last week but reversed that trend in early week trading to gain 1.7 percent from Friday's close through Tuesday's trading. MTBE's premium to FOB Houston ethanol has increased from last week's report and stands at 21.12 cents/liter (79.93 cents/gallon).

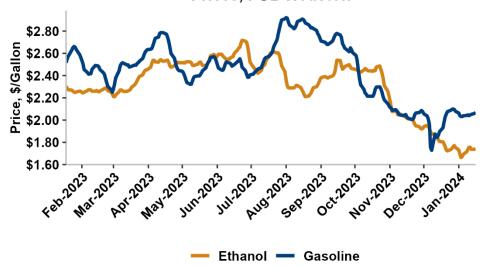
BTX component prices were higher last week and continued that dynamic through Tuesday's market close: Benzene was up 3.3 percent while Toluene was up 1.6 percent, and Xylene was up 1.5 percent. The estimated weighted average aromatic price is currently 92.83 cents/liter (351.42 cents/gallon), up from last Friday's close. The BTX-Houston ethanol spread widened last week, and the weighted average BTX price is 46.82 cents/liter (177.24 cents/gallon) higher than the FOB Houston ethanol price.

Gasoline and petroleum products were mostly higher last week and were steady/higher in early week trade. RBOB futures are up 0.1 percent to start the week while 84 octane RBOB (Houston) and 87 octane CBOB (U.S. Gulf) gasoline prices are up 0.2 and up 0 percent, respectively. WTI futures are 0.4 percent lower at \$72.4/barrel while Brent futures are down 0.5 percent to \$77.93/barrel, from Friday through Tuesday's close.

Liquid tanker rates are 1 percent lower on average this week with offers for the U.S. Gulf to Saudi Arabia seeing the largest gains (up 1 percent). Freight from the U.S. Gulf to the East Coast of Mexico saw the largest declines and is down 12 percent from last week. On average, tanker freight from the U.S. Gulf is down 2 percent this week while freight from the PNW is unchanged. Liquid tanker freight rates from Brazil are steady, on average, this week while freight rates across all origins are 6 percent higher than this same week in 2023.

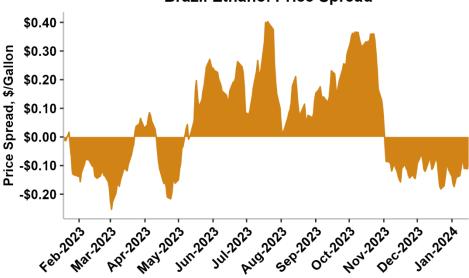
On a cost-and-freight (C&F) basis, offers are mostly lower this week as both freight rates and FOB ethanol offers have moved below last week's values. Prices for ethanol C&F to Central America from the U.S. Gulf are down 0.4 percent this week and are down 20.9 percent from this same week in 2023. Values for PNW ethanol to Southeast Asia average \$693.6/MT this week, down 1 percent from the prior week and down 22.1 percent year-over-year. That compares to U.S. Gulf to Southeast Asia C&F prices that average \$688.33/MT and are up 0.1 percent from last week but are down 21.9 percent year-over-year. C&F prices for Brazilian ethanol to Southeast Asia are down 0.3 percent from last week.

Rolling 52-Week Ethanol and Gasoline Prices, FOB Houston

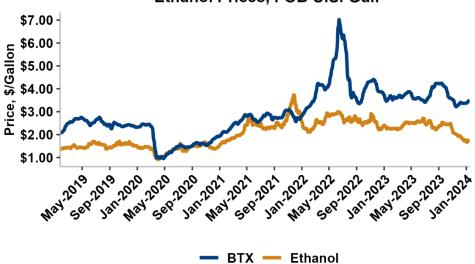


Source: World Perspecitves, Inc.



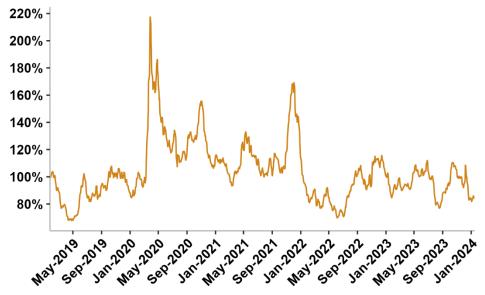


Daily Weighted Average BTX and Ethanol Prices, FOB U.S. Gulf

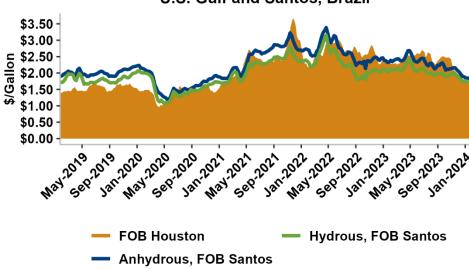


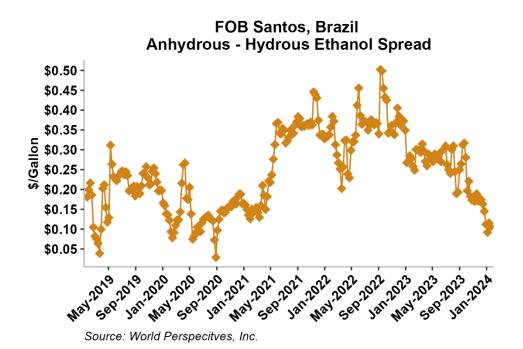
Source: World Perspecitves, Inc.

Ethanol as % of Gasoline, FOB U.S. Gulf Prices

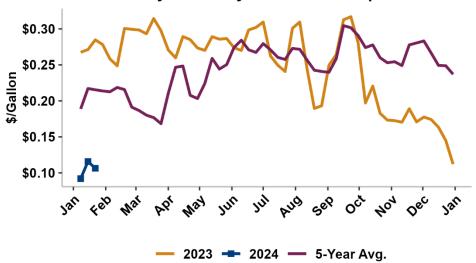


FOB Ethanol Prices, U.S. Gulf and Santos, Brazil



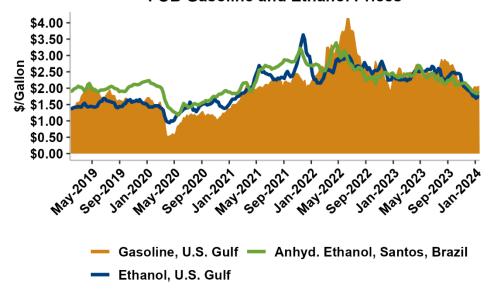


Seasonal Trends in Brazil's Anhydrous - Hydrous Ethanol Spread

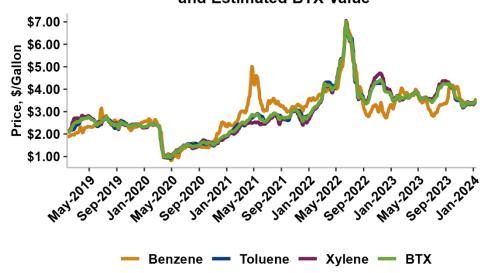


Source: World Perspecitves, Inc.

FOB Gasoline and Ethanol Prices

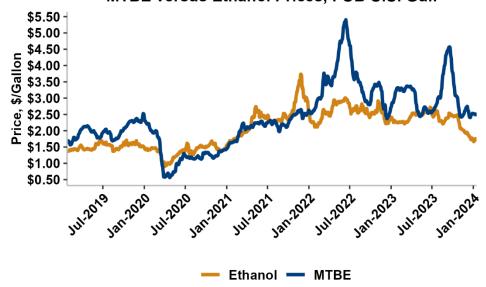


U.S. Benzene, Toluene, and Xylene Prices and Estimated BTX Value

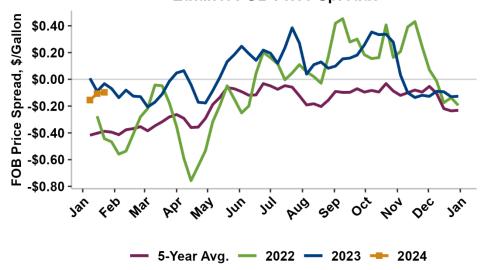


Source: World Perspecitves, Inc.



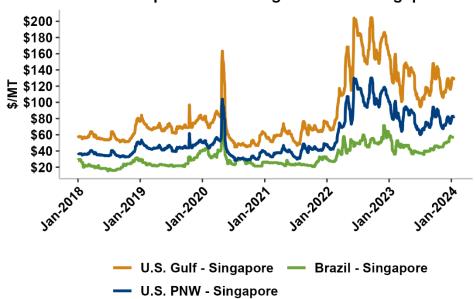


Seasonal Trends in U.S. Gulf - Santos, Brazil Ethanol FOB Price Spreads

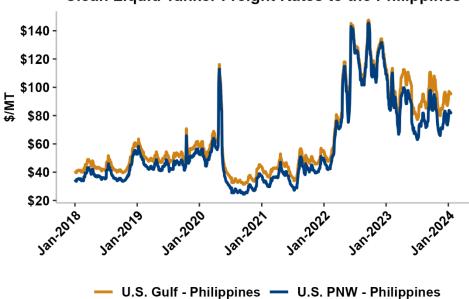


Source: World Perspecitves, Inc.

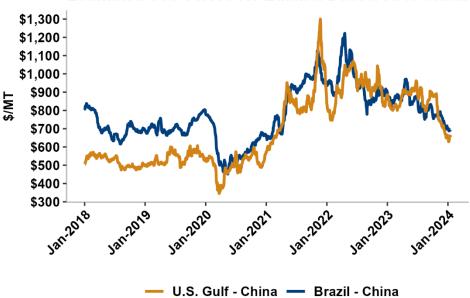
Clean Liquid Tanker Freight Rates to Singapore



Clean Liquid Tanker Freight Rates to the Philippines



Estimated C&F Prices for Ethanol Delivered to China



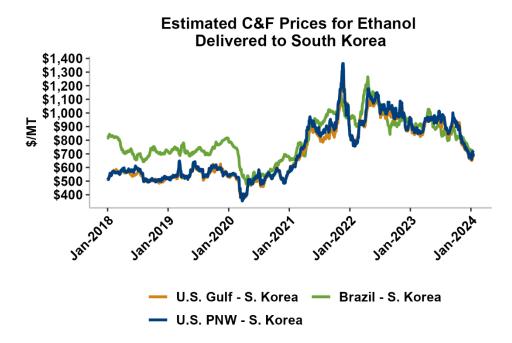
Estimated C&F Prices for Ethanol Delivered to India



U.S. PNW - Singapore

Estimated C&F Prices for Ethanol

U.S. Gulf - Singapore — Brazil - Singapore



Tariff Rates

| HS Codes | | | | | |
|------------|--|--|--|--|--|
| HS Code | Description | | | | |
| 2207106010 | Ethyl alcohol, <i>undenatured</i> , of an alcoholic strength by volume of 80 percent or higher, <i>for fuel use.</i> | | | | |
| 2207200010 | Ethyl alcohol and other spirits, <i>denatured</i> , of any strength, <i>for fuel use.</i> | | | | |

| Global Tariff Rates on U.S. Ethanol | | | | | | | |
|-------------------------------------|-------------|---------------------|-----------------|------------------------|---|--|--|
| Country | HS Code | Unit of Quantity | Rates | of Duty | - Notes | | |
| Country | | | General | Special | | | |
| Canada | Undenatured | \$/liter | 0% | - | USMCA | | |
| Canada | Denatured | \$/liter | 0% | - | OOMOA | | |
| Brazil | Undenatured | \$/liter | 16% | - | Effective February 2023, Brazil reinstated tariffs on U.S. ethanol that | | |
| DIAZII | Denatured | \$/liter | 16% | - | were previously lifted from March 2022. | | |
| | Undenatured | \$/liter | 65% | | 40% MFN rate + 25% Section 301 tariff | | |
| China | Denatured | \$/liter | 70% | VAT on imports of 13%. | 30% MFN rate + 15% Section 232 tariff + 25% Section 301 tariff. Starting 2 Mar. 2021, importers may apply for tariff exemptions. | | |
| Colombia | Undenatured | \$/liter | \$0.1997/gallon | - | | | |
| Colombia | Denatured | \$/liter | \$0.1997/gallon | - | | | |
| India | Undenatured | \$/liter | 150% | - | Domestic ethanol supplied to OMC's for blending is subject to a combined Central and State GST of 5%. Ethyl alcohol for other/industrial uses | | |
| | Denatured | \$/liter | 5% | | is subject to a combined Central and State GST of 18%. | | |
| Philippines | Undenatured | \$/liter | 0% | 1% | 1% additional duty imposed if imported ethanol is to be used for fuel-blending | | |
| Philippines | Denatured | \$/liter | 0% | 1% | purposes under Philippine Fuel Ethanol Program. | | |
| B | Undenatured | \$/liter | 0% | VAT on imports of | U.SPeru Trade Promotion Agreement lowered U.S. import duties to 3% | | |
| Peru | Denatured | \$/liter | 0% | 18% | (denatured) and 0% (undenatured). Denatured duty down to 0% in 2018. | | |
| Korea, South | Undenatured | \$/liter | 20% | VAT on imports of | KORUS | | |
| Korea, South | Denatured | \$/liter | 103% | 10% | KOROS | | |
| Mexico | Undenatured | \$/liter | 0% | _ | USMCA | | |
| WEXICO | Denatured | \$/liter | 0% | | COMO | | |
| Nigeria | Undenatured | \$/liter | 70% | - | | | |
| - Ingeria | Denatured | \$/liter | 20% | - | | | |
| United Arab | Undenatured | \$/liter | 5% | _ | GCC common external tariff. | | |
| Emirates | Denatured | \$/liter | 5% | | | | |
| Vietnam | Undenatured | \$/liter | 10% | - | Lowered from 15% on 15 July 2023 | | |
| | Denatured | \$/liter | 10% | _ | Lowered from 15% on 15 July 2023 | | |

Tariff Rate Database: If you are interested in tariff rate data for U.S. export markets, click here.

Additional Market Resources

| USDA GAIN Reports | |
|---|--|
| Report Title | Description |
| Argentina Biofuels Annual 2023 (GAIN) | This report provides an overview on biofuel use in Argentina. |
| Australia Biofuels Annual 2022 (GAIN) | This report provides an overview on biofuel use in Australia. |
| Brazil Biofuels Annual 2023 (GAIN) | This report provides an overview on biofuel use in Brazil. |
| Canada Biofuels Annual 2023 (GAIN) | This report provides an overview on biofuel use in Canada. |
| China Biofuels Annual 2023 (GAIN) | This report provides an overview on biofuel use in China. |
| Colombia Biofuels Annual 2023 (GAIN) | This report provides an overview on biofuel use in Colombia. |
| Ethanol Industry Emerging in Ecuador (GAIN) | This report highlights Ecuador's emerging ethanol industry. |
| EU-27 Biofuels Annual 2023 (GAIN) | This report provides an overview on biofuel use in the EU-27. |
| EU-27: Biofuel Mandates in the EU by Member State in 2022 (GAIN) | This report provides an overview on the biofuel use mandates in the EU member states and supplements the EU-27 Biofuels Annual Report. |
| India Biofuels Annual 2022 (GAIN) | This report provides an overview on biofuel use in India. |
| Indonesia Biofuels Annual 2023 (GAIN) | This report provides an overview on biofuel use in Indonesia. |
| Japan Biofuels Annual 2023 (GAIN) | This report provides an overview on biofuel use in Japan. |
| Malaysia Biofuels Annual 2023 (GAIN) | This report provides an overview on biofuel use in Malaysia. |
| New Zealand Proposes Biofuels Mandate 2021 (GAIN) | This report provides an overview of New Zealand's proposed biofuel regulations. |
| Peru Biofuels Annual 2023 (GAIN) | This report provides an overview on biofuel use in Peru. |
| Philippines Biofuels Annual 2023 (GAIN) | This report provides an overview on biofuel use in the Philippines. |
| Portugal Biofuels Policy and Market 2020 (GAIN) | This report provides an overview on biofuel policy in Portugal. |
| Spain Biofuels Policy and Market 2020 (GAIN) | This report provides an overview on biofuel policy in Spain. |
| Thailand Biofuels Annual 2023 (GAIN) | This report provides an overview on biofuel use in Thailand. |