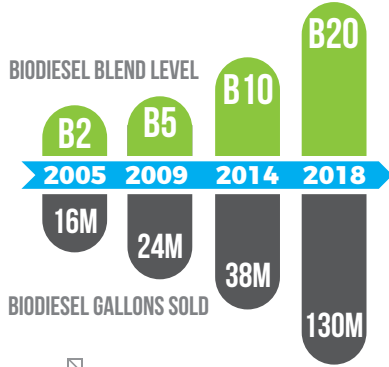




# BIODIESEL: MINNESOTA'S ECONOMIC ENGINE

*The Country's First Biodiesel Mandate*

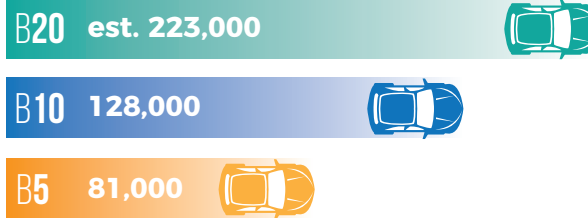


## SEASONAL BLEND REQUIREMENTS

April 15 - Sept. 30	= B20
April 1 - April 14	= B10
Oct. 1 - March 31	= B5

## EMISSION REDUCTIONS

Annual CO<sub>2</sub> emission reductions equivalent to vehicles removed from the road.



## Minnesota's LEADERSHIP



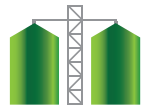
- First state to require biodiesel use
- First state to require B20 for summer months

#3

Ranks #3 among U.S. states in soybean production

#10

Ranks #10 among U.S. states in biodiesel production



## Economic Indicators

- 87.5M** Minnesota's annual biodiesel production capacity.
- 5,397** Full-time equivalent jobs in Minnesota supported by biodiesel.
- \$1.7B** Total economic impact on Minnesota GDP, including \$676M in farm-level impact.
- \$22.8M** Every 1 million gallons of biodiesel production contributes \$22.8 million in statewide economic output and supports 73 jobs.
- 96%** In 2016, Minnesota consumed 77 million gallons of biodiesel and produced 74 million gallons - meaning 96% of consumption came from in-state production.



## Economic Drivers

- 45% soy** Minnesota biodiesel production comes from a diverse range of feedstocks including soybean oil and other oils, fats and greases.
- \$18.8B** From 2006 to 2015, biodiesel increased the value of soybeans by 63 cents per bushel. This increased the value of soybean oil to U.S. farmers by \$18.8 billion and decreased the price of soybean meal by up to \$48 per ton.
- \$330M** Biodiesel accounted for 13% of the \$2.56B value of Minnesota's 298 million bushels of soybeans in 2019.

## ABOUT BIODIESEL AND RENEWABLE DIESEL

- Made from plant-based oils, used cooking oils, and animal fats
- Clean-burning
- Can be used in any diesel engine without modification
- Commercially available nationwide
- Today's solution for heavy-duty trucking, emergency vehicles, bus fleets, and farm equipment

Sources: USDA National Agricultural Statistics Service; Frizzell, R. "NBB Static Biodiesel Shock," INTL FCStone, 2019; Minnesota Department of Agriculture, Annual Report on Biodiesel, 2020; Minnesota Department of Agriculture, Economic Impact of the Minnesota Biodiesel Industry, 2017.