

**Table 10.4a Biodiesel Overview**

	Feed-stock <sup>b</sup>		Losses and Co-products <sup>c</sup>			Production <sup>a</sup>			Trade <sup>a</sup>			Stocks <sup>a,e</sup>			Stock Change <sup>a,f</sup>			Consumption <sup>a,g</sup>		
						Imports	Exports	Net Imports <sup>d</sup>	Imports	Exports	Net Imports <sup>d</sup>									
	TBtu	TBtu	Mbbl	MMgal	TBtu	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	MMgal	TBtu					
<b>2001 Total</b> .....	<b>1</b>	<b>(s)</b>	<b>204</b>	<b>9</b>	<b>1</b>	<b>81</b>	<b>41</b>	<b>40</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>244</b>	<b>10</b>	<b>1</b>				
<b>2005 Total</b> .....	<b>12</b>	<b>(s)</b>	<b>2,162</b>	<b>91</b>	<b>12</b>	<b>214</b>	<b>213</b>	<b>1</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>2,163</b>	<b>91</b>	<b>12</b>				
<b>2010 Total</b> .....	<b>44</b>	<b>1</b>	<b>8,177</b>	<b>343</b>	<b>44</b>	<b>564</b>	<b>2,588</b>	<b>-2,024</b>	<b>672</b>	<b>-39</b>	<b>672</b>	<b>-39</b>	<b>672</b>	<b>6,192</b>	<b>260</b>	<b>33</b>				
<b>2011 Total</b> .....	<b>125</b>	<b>2</b>	<b>23,035</b>	<b>967</b>	<b>123</b>	<b>890</b>	<b>1,799</b>	<b>-908</b>	<b>2,005</b>	<b>h 1,028</b>	<b>2,005</b>	<b>h 1,028</b>	<b>21,099</b>	<b>886</b>	<b>113</b>					
<b>2012 Total</b> .....	<b>128</b>	<b>2</b>	<b>23,588</b>	<b>991</b>	<b>126</b>	<b>853</b>	<b>3,056</b>	<b>-2,203</b>	<b>1,984</b>	<b>-20</b>	<b>1,984</b>	<b>-20</b>	<b>21,406</b>	<b>899</b>	<b>115</b>					
<b>2013 Total</b> .....	<b>176</b>	<b>2</b>	<b>32,368</b>	<b>1,359</b>	<b>173</b>	<b>8,152</b>	<b>4,675</b>	<b>3,477</b>	<b>3,810</b>	<b>1,825</b>	<b>3,810</b>	<b>1,825</b>	<b>34,020</b>	<b>1,429</b>	<b>182</b>					
<b>2014 Total</b> .....	<b>165</b>	<b>2</b>	<b>30,452</b>	<b>1,279</b>	<b>163</b>	<b>4,578</b>	<b>1,974</b>	<b>2,604</b>	<b>3,131</b>	<b>-679</b>	<b>3,131</b>	<b>-679</b>	<b>33,735</b>	<b>1,417</b>	<b>181</b>					
<b>2015 Total</b> .....	<b>163</b>	<b>2</b>	<b>30,080</b>	<b>1,263</b>	<b>161</b>	<b>8,399</b>	<b>2,091</b>	<b>6,308</b>	<b>3,943</b>	<b>813</b>	<b>3,943</b>	<b>813</b>	<b>35,575</b>	<b>1,494</b>	<b>191</b>					
<b>2016 Total</b> .....	<b>203</b>	<b>3</b>	<b>37,327</b>	<b>1,568</b>	<b>200</b>	<b>16,879</b>	<b>2,098</b>	<b>14,781</b>	<b>6,398</b>	<b>2,454</b>	<b>6,398</b>	<b>2,454</b>	<b>49,653</b>	<b>2,085</b>	<b>266</b>					
<b>2017 Total</b> .....	<b>206</b>	<b>3</b>	<b>37,993</b>	<b>1,596</b>	<b>204</b>	<b>9,374</b>	<b>2,228</b>	<b>7,146</b>	<b>4,268</b>	<b>-2,130</b>	<b>4,268</b>	<b>-2,130</b>	<b>47,269</b>	<b>1,985</b>	<b>253</b>					
<b>2018 Total</b> .....	<b>240</b>	<b>3</b>	<b>44,222</b>	<b>1,857</b>	<b>237</b>	<b>3,969</b>	<b>2,470</b>	<b>1,499</b>	<b>4,662</b>	<b>394</b>	<b>4,662</b>	<b>394</b>	<b>45,326</b>	<b>1,904</b>	<b>243</b>					
<b>2019 Total</b> .....	<b>223</b>	<b>3</b>	<b>41,060</b>	<b>1,725</b>	<b>220</b>	<b>4,078</b>	<b>2,730</b>	<b>1,348</b>	<b>3,907</b>	<b>-756</b>	<b>3,907</b>	<b>-756</b>	<b>43,163</b>	<b>1,813</b>	<b>231</b>					
<b>2020 Total</b> .....	<b>235</b>	<b>3</b>	<b>43,207</b>	<b>1,815</b>	<b>232</b>	<b>4,684</b>	<b>3,458</b>	<b>1,226</b>	<b>3,665</b>	<b>-241</b>	<b>3,665</b>	<b>-241</b>	<b>44,675</b>	<b>1,876</b>	<b>239</b>					
<b>2021 Total</b> .....	<b>221</b>	<b>3</b>	<b>40,686</b>	<b>1,709</b>	<b>218</b>	<b>5,005</b>	<b>4,452</b>	<b>553</b>	<b>4,187</b>	<b>522</b>	<b>4,187</b>	<b>522</b>	<b>40,717</b>	<b>1,710</b>	<b>218</b>					
<b>2022 January</b> .....	<b>16</b>	<b>(s)</b>	<b>2,857</b>	<b>120</b>	<b>15</b>	<b>388</b>	<b>209</b>	<b>179</b>	<b>4,544</b>	<b>356</b>	<b>4,544</b>	<b>356</b>	<b>2,680</b>	<b>113</b>	<b>14</b>					
February .....	15	(s)	2,707	114	15	121	124	-3	4,457	-86	4,457	-86	2,790	117	15					
March .....	17	(s)	3,161	133	17	636	171	465	4,692	234	4,692	234	3,391	142	18					
April .....	16	(s)	3,018	127	16	672	632	40	4,212	-479	4,212	-479	3,537	149	19					
May .....	18	(s)	3,242	136	17	315	699	-384	3,839	-373	3,839	-373	3,230	136	17					
June .....	18	(s)	3,265	137	17	346	589	-243	3,404	-435	3,404	-435	3,458	145	19					
July .....	19	(s)	3,490	147	19	284	625	-341	3,240	-164	3,240	-164	3,313	139	18					
August .....	19	(s)	3,519	148	19	371	831	-460	2,894	-347	2,894	-347	3,405	143	18					
September .....	18	(s)	3,350	141	18	405	641	-236	2,826	-67	2,826	-67	3,182	134	17					
October .....	19	(s)	3,464	145	19	658	468	190	2,903	77	2,903	77	3,577	150	19					
November .....	18	(s)	3,384	142	18	903	221	682	3,232	329	3,232	329	3,737	157	20					
December .....	17	(s)	3,164	133	17	851	462	389	3,608	376	3,608	376	3,178	133	17					
<b>Total</b> .....	<b>210</b>	<b>3</b>	<b>38,620</b>	<b>1,622</b>	<b>207</b>	<b>5,950</b>	<b>5,671</b>	<b>279</b>	<b>3,608</b>	<b>-580</b>	<b>3,608</b>	<b>-580</b>	<b>39,478</b>	<b>1,658</b>	<b>212</b>					
<b>2023 January</b> .....	<b>18</b>	<b>(s)</b>	<b>3,242</b>	<b>136</b>	<b>17</b>	<b>930</b>	<b>92</b>	<b>838</b>	<b>4,297</b>	<b>h 698</b>	<b>4,297</b>	<b>h 698</b>	<b>3,383</b>	<b>142</b>	<b>18</b>					
February .....	15	(s)	2,840	119	15	952	132	820	4,861	564	4,861	564	3,096	130	17					
March .....	18	(s)	3,325	140	18	916	261	655	5,055	194	5,055	194	3,787	159	20					
April .....	17	(s)	3,164	133	17	1,000	1,044	-44	4,847	-209	4,847	-209	3,328	140	18					
May .....	20	(s)	3,722	156	20	832	757	75	4,413	-433	4,413	-433	4,230	178	23					
June .....	20	(s)	3,636	153	19	1,016	839	177	3,978	-435	3,978	-435	4,249	178	23					
July .....	20	(s)	3,612	152	19	725	691	34	3,719	-259	3,719	-259	3,905	164	21					
August .....	19	(s)	3,458	145	19	991	553	438	3,589	-130	3,589	-130	4,027	169	22					
September .....	19	(s)	3,438	144	18	1,280	410	870	3,576	-13	3,576	-13	4,321	181	23					
October .....	19	(s)	3,495	147	19	1,017	451	566	3,514	-61	3,514	-61	4,122	173	22					
November .....	18	(s)	3,231	136	17	1,239	361	878	3,675	160	3,675	160	3,948	166	21					
December .....	18	(s)	3,286	138	18	1,031	391	640	3,827	153	3,827	153	3,773	158	20					
<b>Total</b> .....	<b>220</b>	<b>3</b>	<b>40,447</b>	<b>1,699</b>	<b>217</b>	<b>11,929</b>	<b>5,980</b>	<b>5,949</b>	<b>3,827</b>	<b>h 228</b>	<b>3,827</b>	<b>h 228</b>	<b>46,168</b>	<b>1,939</b>	<b>247</b>					
<b>2024 January</b> .....	<b>16</b>	<b>(s)</b>	<b>3,028</b>	<b>127</b>	<b>16</b>	<b>1,179</b>	<b>122</b>	<b>1,057</b>	<b>4,205</b>	<b>378</b>	<b>4,205</b>	<b>378</b>	<b>3,707</b>	<b>156</b>	<b>20</b>					
February .....	16	(s)	2,989	126	16	1,572	213	1,359	4,564	359	4,564	359	3,989	168	21					
March .....	18	(s)	3,230	136	17	658	326	332	4,401	-163	4,401	-163	3,725	156	20					
April .....	17	(s)	3,180	134	17	1,452	428	1,024	4,413	12	4,413	12	4,191	176	22					
May .....	19	(s)	3,406	143	18	878	504	374	4,185	-228	4,185	-228	4,008	168	21					
<b>5-Month Total</b> .....	<b>86</b>	<b>1</b>	<b>15,832</b>	<b>665</b>	<b>85</b>	<b>5,739</b>	<b>1,593</b>	<b>4,146</b>	<b>4,185</b>	<b>358</b>	<b>4,185</b>	<b>358</b>	<b>19,620</b>	<b>824</b>	<b>105</b>					
<b>2023 5-Month Total</b> .....	<b>89</b>	<b>1</b>	<b>16,293</b>	<b>684</b>	<b>87</b>	<b>4,630</b>	<b>2,285</b>	<b>2,345</b>	<b>4,413</b>	<b>814</b>	<b>4,413</b>	<b>814</b>	<b>17,824</b>	<b>749</b>	<b>96</b>					
<b>2022 5-Month Total</b> .....	<b>81</b>	<b>1</b>	<b>14,984</b>	<b>629</b>	<b>80</b>	<b>2,132</b>	<b>1,836</b>	<b>296</b>	<b>3,839</b>	<b>-348</b>	<b>3,839</b>	<b>-348</b>	<b>15,628</b>	<b>656</b>	<b>84</b>					

<sup>a</sup> Data are for "biodiesel," which is primarily fatty acid methyl esters (FAME). See "Biodiesel" in Glossary.  
<sup>b</sup> Total vegetable oil and other biomass inputs to the production of biodiesel. See "Biodiesel Feedstock" entry in the "Thermal Conversion Factor Source Documentation" at the end of Appendix A.  
<sup>c</sup> Losses and co-products from the production of biodiesel. Does not include natural gas, electricity, and other non-biomass energy used in the production of biodiesel—these are included in the industrial sector consumption statistics for the appropriate energy source.  
<sup>d</sup> Net imports equal imports minus exports.  
<sup>e</sup> Stocks are at end of period. Includes biodiesel stocks at (or in) refineries, pipelines, and bulk terminals. Beginning in 2011, also includes stocks at biodiesel production plants.  
<sup>f</sup> A negative value indicates a decrease in stocks and a positive value indicates an increase.  
<sup>g</sup> In 2009, because of incomplete data coverage and differing data sources, a "Balancing Item" amount of 733 thousand barrels (653 thousand barrels in January 2009; 80 thousand barrels in February 2009) is used to balance biodiesel supply

and disposition.  
<sup>h</sup> Derived from the final 2010 stocks value for bulk terminals and biodiesel production plants (977 thousand barrels), not the final 2010 value for bulk terminals only (672 thousand barrels) that is shown under "Stocks."  
<sup>i</sup> Derived from the preliminary 2022 stocks value (3,599 thousand barrels), not the final 2022 value (3,608 thousand barrels) that is shown under "Stocks."  
 NA=Not available. (s)=Less than 0.5 trillion Btu.  
 Notes: • Mbbl = thousand barrels. MMgal = million U.S. gallons. TBtu = trillion Btu. • Biodiesel data in thousand barrels are converted to million gallons by multiplying by 0.042, and are converted to Btu by multiplying by 5.359 million Btu per barrel (the approximate heat content of biodiesel—see Table A1). • Through 2000, data are not available. Beginning in 2001, data not from EIA surveys are estimates. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.  
 Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#renewable> (Excel and CSV files) for all available annual and monthly data beginning in 2001.  
 Sources: See end of section.