



*Independent Statistics & Analysis*  
U.S. Energy Information  
Administration

# Monthly Biodiesel Production Report

With data for December 2016

February 2017



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## Biodiesel Highlights and Background, Data for December 2016

### *Highlights*

**Production** – U.S. production of biodiesel was 143 million gallons in December 2016. Biodiesel production during December 2016 was 1 million gallons higher than production in November 2016. Biodiesel production from the Midwest region (Petroleum Administration for Defense District 2) accounted for 63 percent of the United States total. Production came from 96 biodiesel plants with capacity of 2.3 billion gallons per year.

**Sales** – Producer sales of biodiesel during December 2016 included 84 million gallons sold as B100 (100% biodiesel) and an additional 75 million gallons of B100 sold in biodiesel blends with diesel fuel derived from petroleum.

**Feedstocks** – There were a total of 1,051 million pounds of feedstocks used to produce biodiesel in December 2016. Soybean oil remained the largest biodiesel feedstock during December 2016 with 610 million pounds consumed.

### *Background*

The Monthly Biodiesel Production Report provides data on operations of the U.S. biodiesel industry as part of EIA's response to section 1508 of the Energy Policy Act of 2005 which directed EIA to publish information on renewable fuels including biodiesel. Data are provided for the U.S. and in selected cases by state and region.

The source of data is [Form EIA-22M Monthly Biodiesel Production Survey](#), used to collect the following information from registered producers of biodiesel.

- plant location, operating status, and annual production capacity
- production of 100% biodiesel (B100)
- biodiesel coproduct production
- stocks
- feedstock, alcohol input, and catalysts used in biodiesel production
- sales of B100 and blended biodiesel from producing plants
- sales of biodiesel to end-users

Form EIA-22M provides data necessary to monitor growth of the biodiesel industry in order to allow Congress to assess whether objectives of Section 503 of the Energy Policy Act of 1992 and Section 1508 of the Energy Policy Act of 2005 are being achieved.

**Table 1. U.S. Biodiesel production capacity and production**

million gallons

Period	Annual Production Capacity	Monthly B100 Production
<b>2014</b>		
January	1,959	73
February	2,102	76
March	2,073	99
April	2,079	93
May	2,120	106
June	2,002	110
July	2,106	121
August	2,118	124
September	2,131	114
October	2,146	122
November	2,131	108
December	2,145	124
<b>Total</b>	--	<b>1,271</b>
<b>2015</b>		
January	2,106	73
February	2,155	78
March	2,160	98
April	2,209	108
May	2,168	117
June	2,151	122
July	2,131	122
August	2,134	124
September	2,154	107
October	2,166	106
November	2,122	106
December	2,029	108
<b>Total</b>	--	<b>1,268</b>
<b>2016</b>		
January	2,237	105
February	2,237	105
March	2,266	121
April	2,257	120
May	2,275	135
June	2,275	135
July	2,275	140
August	2,275	142
September	2,279	135
October	2,294	143
November	2,294	142
December	2,296	143
<b>12 Month Total</b>	--	<b>1,566</b>
<b>2015 12 Month Total</b>	--	<b>1,268</b>
<b>2014 12 Month Total</b>	--	<b>1,271</b>

-- = Not Applicable

R = Revised

Totals may not equal the sum of components due to independent rounding.

B100 is the industry designation for pure biodiesel; a biodiesel blend contains both pure biodiesel and petroleum diesel fuel.

Source: U.S. Energy Information Administration, Form EIA-22M "Monthly Biodiesel Production Survey"

**Table 2. U.S. Biodiesel production, sales, and stocks**

million gallons

Period	B100 production	Sales of B100	Sales of B100 included in biodiesel blends	Ending stocks of B100	B100 stock change
<b>2014</b>					
January	73	50	16	26	6
February	76	52	20	32	7
March	99	67	31	36	4
April	93	58	33	39	3
May	106	67	42	36	(2)
June	110	70	41	34	(2)
July	121	79	43	36	2
August	124	77	49	34	(2)
September	114	71	47	30	(5)
October	122	76	45	32	3
November	108	61	40	41	9
December	124	65	83	15	(25)
<b>Total</b>	<b>1,271</b>	<b>792</b>	<b>491</b>	<b>--</b>	<b>(4)</b>
<b>2015</b>					
January	73	39	22	30	15
February	78	51	19	39	9
March	98	63	29	45	6
April	108	70	37	46	1
May	117	76	45	42	(4)
June	122	80	45	38	(3)
July	122	74	52	47	9
August	124	75	46	42	(5)
September	107	71	42	32	(10)
October	106	65	39	35	3
November	106	52	40	48	13
December	108	64	49	44	(4)
<b>12 Month Total</b>	<b>1,268</b>	<b>781</b>	<b>465</b>	<b>--</b>	<b>29</b>
<b>2016</b>					
January	105	46	45	57	13
February	105	44	56	61	5
March	121	62	64	56	(5)
April	120	65	61	49	(7)
May	135	67	68	50	1
June	135	68	72	45	(5)
July	140	79	60	46	1
August	142	84	66	38	(8)
September	135	70	69	35	(3)
October	143	74	66	38	3
November	142	74	62	44	6
December	143	84	75	29	(15)
<b>12 Month Total</b>	<b>1,566</b>	<b>818</b>	<b>764</b>	<b>--</b>	<b>(16)</b>
<b>2015 12 Month Total</b>	<b>1,268</b>	<b>781</b>	<b>465</b>	<b>--</b>	<b>29</b>
<b>2014 12 Month Total</b>	<b>1,271</b>	<b>793</b>	<b>491</b>	<b>--</b>	<b>(4)</b>

-- = Not applicable

R = Revised

(s) = Value is less than 0.5 of the table metric, but value is included in any associated total.

Totals may not equal the sum of components due to independent rounding.

B100 is the industry designation for pure biodiesel; a biodiesel blend contains both pure biodiesel and petroleum diesel fuel.

Source: U.S. Energy Information Administration, Form EIA-22M "Monthly Biodiesel Production Survey"

**Table 3. U.S. Inputs to biodiesel production**

million pounds

Period	Feedstock inputs						Animal fats	
	Vegetable oils						Poultry	Tallow
	Canola oil	Corn oil	Cottonseed oil	Palm oil	Soybean oil	Other		
<b>2014</b>								
January	36	73	W	W	273	W	2	15
February	27	54	W	W	277	W	6	21
March	32	78	W	W	379	W	13	43
April	58	66	W	W	360	W	17	33
May	68	89	W	W	399	W	23	48
June	91	75	W	W	467	W	18	21
July	135	91	W	W	435	W	22	42
August	136	91	W	W	448	W	15	37
September	126	93	W	W	395	W	18	49
October	133	86	W	W	459	W	13	32
November	121	86	W	W	447	W	16	15
December	85	95	W	W	531	W	13	24
<b>Total</b>	<b>1,046</b>	<b>977</b>	-	<b>W</b>	<b>4,869</b>	<b>W</b>	<b>176</b>	<b>380</b>
<b>2015</b>								
January	65	54	W	W	306	W	9	19
February	30	68	W	W	312	W	9	9
March	80	72	W	W	381	W	8	34
April	94	94	W	W	385	W	16	31
May	55	87	W	W	443	W	23	49
June	56	78	W	W	474	W	20	57
July	76	110	W	W	447	W	18	48
August	73	111	W	W	464	W	21	44
September	68	92	W	W	390	W	23	40
October	60	102	W	W	408	W	17	42
November	40	89	W	W	464	W	17	24
December	48	100	W	W	436	W	15	33
<b>Total</b>	<b>745</b>	<b>1,057</b>	-	<b>1</b>	<b>4,908</b>	<b>W</b>	<b>197</b>	<b>429</b>
<b>2016</b>								
January	61	94	-	(s)	392	3	11	23
February	47	88	-	-	395	W	11	19
March	68	93	-	-	464	1	15	15
April	92	87	-	-	415	W	19	38
May	122	94	-	-	544	W	20	24
June	129	103	-	-	520	W	17	36
July	115	127	-	-	536	W	21	36
August	109	123	-	-	561	W	27	32
September	117	106	(s)	-	537	W	21	29
October	117	120	-	-	526	W	20	31
November	98	136	-	-	596	W	20	25
December	55	135	-	-	610	(s)	17	23
<b>12 Month Total</b>	<b>1,130</b>	<b>1,306</b>	<b>(s)</b>	<b>(s)</b>	<b>6,096</b>	<b>W</b>	<b>220</b>	<b>332</b>
<b>2015 12 Month Total</b>	<b>745</b>	<b>1,057</b>	<b>W</b>	<b>1</b>	<b>4,908</b>	<b>W</b>	<b>197</b>	<b>429</b>
<b>2014 12 Month Total</b>	<b>1,046</b>	<b>977</b>	<b>W</b>	<b>W</b>	<b>4,869</b>	<b>W</b>	<b>176</b>	<b>380</b>

- = No data reported

R = Revised

W = Withheld to avoid disclosure of individual company data.

**Table 3a. U.S. Inputs to biodiesel production (continuation of table 3)**

million pounds

Period	Feedstock inputs						Other inputs		
	Animal fats		Recycled feeds		Algae	Other	Alcohol	Catalysts	
	White grease	Other	Yellow grease	Other					
<b>2014</b>									
January	30	2	60	15	-	17	56	8	
February	41	4	76	22	-	21	56	9	
March	41	3	103	23	-	4	76	9	
April	39	4	86	27	-	6	68	9	
May	46	4	105	34	-	2	82	11	
June	29	4	86	22	-	7	80	11	
July	37	4	98	18	-	29	85	13	
August	36	2	104	5	-	15	92	15	
September	41	1	105	9	-	15	87	14	
October	45	1	98	7	-	17	92	16	
November	37	1	74	5	-	13	79	14	
December	49	1	93	11	-	3	90	15	
<b>Total</b>	<b>470</b>	<b>31</b>	<b>1,089</b>	<b>197</b>	<b>1</b>	<b>149</b>	<b>943</b>	<b>144</b>	
<b>2015</b>									
January	29	0	53	W	-	4	54	10	
February	33	1	78	W	-	6	63	11	
March	43	4	93	W	-	10	74	14	
April	57	3	105	W	-	12	81	14	
May	60	9	120	W	-	9	92	15	
June	56	18	131	W	-	8	94	16	
July	49	3	131	W	-	14	95	15	
August	54	6	120	W	-	10	93	16	
September	54	2	108	W	-	6	79	14	
October	52	2	108	W	-	2	87	15	
November	45	4	103	W	-	6	84	15	
December	58	3	106	W	-	3	84	16	
<b>Total</b>	<b>589</b>	<b>56</b>	<b>1,254</b>	<b>122</b>	<b>0</b>	<b>91</b>	<b>982</b>	<b>170</b>	
<b>2016</b>									
January	57	1	93	W	-	W	80	14	
February	53	7	109	W	-	6	85	14	
March	44	14	110	W	-	W	95	15	
April	53	12	118	W	(s)	W	87	14	
May	47	15	106	W	(s)	6	101	17	
June	42	5	113	W	-	6	101	17	
July	38	6	130	W	-	W	106	17	
August	38	4	127	W	-	8	108	18	
September	36	W	117	W	-	W	113	19	
October	47	W	137	W	-	6	123	21	
November	49	5	118	W	-	W	109	22	
December	74	W	112	W	-	W	171	23	
<b>12 Month Total</b>	<b>578</b>	<b>W</b>	<b>1,389</b>	<b>W</b>	<b>(s)</b>	<b>W</b>	<b>1,279</b>	<b>213</b>	
<b>2015 12 Month Total</b>	<b>589</b>	<b>56</b>	<b>1,254</b>	<b>-</b>	<b>-</b>	<b>91</b>	<b>982</b>	<b>170</b>	
<b>2014 12 Month Total</b>	<b>470</b>	<b>31</b>	<b>1,089</b>	<b>197</b>	<b>-</b>	<b>149</b>	<b>943</b>	<b>144</b>	

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**Table 4. Biodiesel producers and production capacity by state, December 2016**

State	Number of producers	Annual production capacity (million gallons per year)
Alabama	2	29
Alaska	1	0
Arizona	1	2
Arkansas	2	63
California	8	77
Colorado	-	-
Connecticut	1	15
Delaware	-	-
District of Columbia	-	-
Florida	3	15
Georgia	4	19
Hawaii	1	6
Idaho	-	-
Illinois	5	166
Indiana	2	104
Iowa	11	370
Kansas	2	51
Kentucky	1	49
Louisiana	-	-
Maine	1	1
Maryland	-	-
Massachusetts	1	1
Michigan	2	10
Minnesota	3	69
Mississippi	3	94
Missouri	8	169
Montana	-	-
Nebraska	1	3
Nevada	-	-
New Hampshire	1	4
New Jersey	1	25
New Mexico	1	1
New York	-	-
North Carolina	3	8
North Dakota	1	85
Ohio	1	65
Oklahoma	1	38
Oregon	1	17
Pennsylvania	2	78
Rhode Island	1	1
South Carolina	1	5
South Dakota	-	-
Tennessee	2	5
Texas	9	474
Utah	1	40
Vermont	-	-
Virginia	3	7
Washington	2	105
West Virginia	-	-
Wisconsin	2	26
Wyoming	-	-
<b>U.S. Total</b>	<b>96</b>	<b>2,296</b>

- = No data reported.

Totals may not equal the sum of components due to independent rounding.

Number of producers is a count of plants with operable capacity during the report month.

Source: U.S. Energy Information Administration, Form EIA-22M "Monthly Biodiesel Production Survey"

**Table 5. Biodiesel (B100) production by Petroleum Administration for Defense District (PADD)**

million gallons

Period	PADD					U.S.
	East Coast (PADD 1)	Midwest (PADD 2)	Gulf Coast (PADD 3)	Rocky Mountain (PADD 4)	West Coast (PADD 5)	
<b>2014</b>						
January	3	50	17	(s)	2	73
February	5	57	10	(s)	4	76
March	5	75	13	(s)	6	99
April	6	68	14	(s)	5	93
May	5	76	17	1	8	106
June	5	85	13	1	6	110
July	6	86	20	1	9	121
August	7	85	22	1	10	124
September	8	79	19	(s)	8	114
October	5	86	23	(s)	8	122
November	3	78	19	(s)	8	108
December	4	88	25	(s)	7	124
<b>Total</b>	<b>61</b>	<b>913</b>	<b>210</b>	<b>4</b>	<b>81</b>	<b>1,271</b>
<b>2015</b>						
January	3	54	9	(s)	7	73
February	3	56	12	(s)	6	78
March	5	68	16	(s)	8	98
April	6	75	18	(s)	9	108
May	6	81	19	(s)	9	117
June	6	84	21	(s)	10	122
July	7	87	17	(s)	11	122
August	6	86	21	(s)	10	124
September	6	74	17	(s)	9	107
October	5	73	19	(s)	9	106
November	5	75	20	(s)	6	106
December	6	78	20	(s)	4	108
<b>Total</b>	<b>64</b>	<b>891</b>	<b>212</b>	<b>(s)</b>	<b>98</b>	<b>1,268</b>
<b>2016</b>						
January	6	74	16	(s)	8	105
February	7	72	22	(s)	5	105
March	8	83	22	(s)	8	121
April	7	83	21	(s)	9	120
May	8	91	26	(s)	11	135
June	8	92	24	(s)	11	135
July	8	96	25	(s)	11	140
August	7	97	26	(s)	12	142
September	7	89	27	(s)	12	135
October	8	96	28	(s)	12	143
November	7	95	27	(s)	13	142
December	8	90	31	(s)	13	143
<b>12 Month Total</b>	<b>89</b>	<b>1,058</b>	<b>295</b>	<b>(s)</b>	<b>125</b>	<b>1,566</b>
<b>2015 12 Month Total</b>	<b>64</b>	<b>891</b>	<b>212</b>	<b>(s)</b>	<b>98</b>	<b>1,268</b>
<b>2014 12 Month Total</b>	<b>61</b>	<b>913</b>	<b>212</b>	<b>4</b>	<b>81</b>	<b>1,271</b>

- = No data reported

R = Revised

(s) = Value is less than 0.5 of the table metric, but value is included in any associated total.

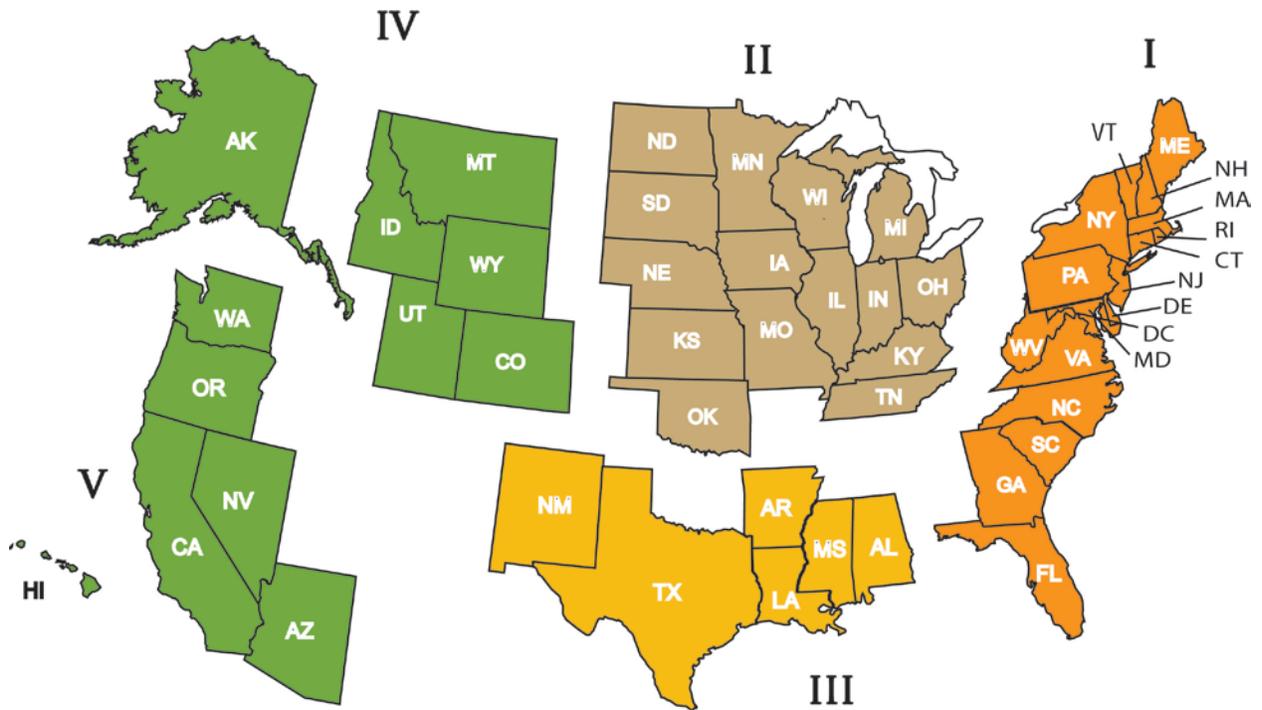
Totals may not equal the sum of components due to independent rounding.

B100 is the industry designation for pure biodiesel; a biodiesel blend contains both pure biodiesel and petroleum diesel fuel.

See Appendix A for a map of states included in each PADD.

Source: U.S. Energy Information Administration, Form EIA-22M "Monthly Biodiesel Production Survey"

## Appendix A Petroleum Administration for Defense Districts (PADD)



NOTE: MAP NOT TO SCALE.