



Independent Statistics & Analysis
U.S. Energy Information
Administration

Monthly Biodiesel Production Report

With data for November 2018

January 2019



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Biodiesel Highlights and Background, Data for November 2018

Highlights

Production – U.S. production of biodiesel was 159 million gallons in November 2018. Biodiesel production during November 2018 was 11 million gallons lower than production in October 2018. Biodiesel production from the Midwest region (Petroleum Administration for Defense District 2) accounted for 66 percent of the United States total. Production came from 100 biodiesel plants with capacity of 2.4 billion gallons per year.

Sales – Producer sales of biodiesel during November 2018 included 62 million gallons sold as B100 (100% biodiesel) and an additional 91 million gallons of B100 sold in biodiesel blends with diesel fuel derived from petroleum.

Feedstocks – There were a total of 1,218 million pounds of feedstocks used to produce biodiesel in November 2018. Soybean oil remained the largest biodiesel feedstock during November 2018 with 704 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

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
2016		
January	2,270	105
February	2,270	105
March	2,299	121
April	2,290	120
May	2,275	135
June	2,275	135
July	2,275	140
August	2,275	142
September	2,279	135
October	2,312	144
November	2,312	143
December	2,316	144
Total	--	1,569
2017		
January	2,316	93
February	2,316	94
March	2,362	116
April	2,328	127
May	2,329	136
June	2,329	140
July	2,330	150
August	2,321	149
September	2,350	147
October	2,357	148
November	2,417	148
December	2,401	148
Total	--	1,596
2018		
January	2,448	125
February	2,449	127
March	2,448	148
April	2,466	142
May	2,410	151
June	2,405	158
July	2,405	165
August	2,415	171
September	2,419	163
October	2,431	170
November	2,416	159
11 Month Total	--	1,678
2017 11 Month Total	--	1,448
2016 11 Month Total	--	1,425

-- = 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
2016					
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	144	74	67	38	3
November	143	74	63	44	6
December	144	84	76	29	(16)
Total	1,569	818	767	--	(16)
2017					
January	93	35	37	49	20
February	94	37	47	59	10
March	116	51	61	62	4
April	127	51	71	66	4
May	136	66	82	55	(11)
June	140	62	84	50	(5)
July	150	63	87	49	0
August	149	63	89	46	(3)
September	147	61	83	49	2
October	148	53	91	51	3
November	148	55	92	52	1
December	148	56	99	44	(8)
Total	1,596	655	924	--	16
2018					
January	125	51	66	52	8
February	127	48	71	60	8
March	148	54	92	62	2
April	142	57	88	59	(3)
May	151	71	91	48	(11)
June	158	69	89	48	0
July	165	71	97	45	(3)
August	171	77	102	37	(8)
September	163	68	91	41	4
October	170	68	100	43	1
November	159	62	91	49	6
11 Month Total	1,678	696	977	--	5
2017 11 Month Total	1,448	599	824	--	24
2016 11 Month Total	1,425	734	691	--	-

-- = Not applicable

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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		
2016								
January	61	94	-	(s)	392	3	11	23
February	47	88	-	-	416	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
Total	1,130	1,306	(s)	(s)	6,117	W	220	332
2017								
January	38	112	-	-	390	(s)	7	W
February	69	112	-	-	369	(s)	10	15
March	130	122	-	-	369	(s)	13	W
April	120	129	-	-	427	W	13	45
May	131	124	-	-	546	(s)	13	41
June	153	113	-	-	549	(s)	15	34
July	157	130	-	-	606	(s)	W	36
August	143	143	-	-	608	(s)	18	39
September	84	144	W	-	604	(s)	13	33
October	159	132	W	-	577	(s)	20	38
November	141	153	W	-	591	(s)	24	34
December	128	165	W	-	594	(s)	13	30
Total	1,452	1,579	W	-	6,230	W	W	W
2018								
January	128	153	(s)	-	462	(s)	6	W
February	102	143	-	-	496	(s)	6	W
March	101	155	-	-	624	(s)	W	23
April	116	178	(s)	-	520	(s)	W	43
May	W	178	W	-	581	(s)	8	49
June	W	170	(s)	-	624	W	10	51
July	W	193	W	-	671	W	12	56
August	108	202	-	-	705	W	19	54
September	96	169	W	-	689	W	17	49
October	101	178	W	-	699	W	17	59
November	W	185	W	-	704	W	13	30
11 Month Total	W	1,904	30	-	6,774	W	123	463
2017 11 Month Total	1,324	1,414	W	-	5,636	W	W	W
2016 11 Month Total	1,075	1,171	(s)	(s)	5,506	W	203	309

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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					
2016									
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	
Total	578	W	1,389	W	(s)	W	1,279	213	
2017									
January	47	1	84	W	(s)	2	78	17	
February	55	4	82	11	(s)	W	75	17	
March	67	4	116	W	-	W	92	20	
April	59	3	133	10	-	W	96	21	
May	49	5	131	W	-	W	103	21	
June	44	8	142	W	-	W	106	21	
July	33	W	135	W	-	W	111	27	
August	35	4	135	W	-	3	112	26	
September	46	4	127	W	-	W	110	25	
October	49	5	130	W	-	W	116	22	
November	49	5	131	W	-	W	116	23	
December	56	W	124	W	-	W	117	23	
Total	591	W	1,471	W	(s)	W	1,232	263	
2018									
January	44	4	103	W	(s)	1	98	20	
February	44	5	123	W	-	4	100	19	
March	49	5	138	11	-	W	118	23	
April	54	W	140	10	-	W	112	21	
May	53	5	154	12	-	W	120	23	
June	57	W	150	15	-	W	126	24	
July	51	6	152	12	-	W	131	24	
August	55	W	147	18	-	W	136	26	
September	58	5	136	17	-	W	129	24	
October	59	3	148	13	-	W	137	25	
November	48	4	137	15	-	W	128	23	
11 Month Total	572	49	1,528	146	-	W	1,335	254	
2017 11 Month Total	534	W	1,347	W	(s)	W	1,115	239	
2016 11 Month Total	504	W	1,277	W	(s)	W	1,108	188	

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Table 4. Biodiesel producers and production capacity by state, November 2018

State	Number of producers	Annual production capacity (million gallons per year)
Alabama	1	20
Alaska	1	0
Arizona	1	2
Arkansas	3	115
California	10	88
Colorado	-	-
Connecticut	1	25
Delaware	-	-
District of Columbia	-	-
Florida	3	23
Georgia	3	19
Hawaii	1	6
Idaho	-	-
Illinois	6	177
Indiana	3	107
Iowa	10	428
Kansas	1	1
Kentucky	1	49
Louisiana	-	-
Maine	1	1
Maryland	-	-
Massachusetts	1	1
Michigan	2	10
Minnesota	3	83
Mississippi	3	102
Missouri	10	212
Montana	1	-
Nebraska	2	53
Nevada	-	-
New Hampshire	-	-
New Jersey	-	-
New Mexico	1	1
New York	-	-
North Carolina	3	8
North Dakota	1	85
Ohio	1	71
Oklahoma	1	38
Oregon	1	17
Pennsylvania	2	90
Rhode Island	1	7
South Carolina	1	5
South Dakota	-	-
Tennessee	1	2
Texas	10	385
Utah	1	40
Vermont	-	-
Virginia	4	9
Washington	2	109
West Virginia	-	-
Wisconsin	2	27
Wyoming	-	-
U.S. Total	100	2,416

- = 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)	
2016						
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	97	28	(s)	12	144
November	7	96	28	(s)	13	143
December	8	91	31	(s)	13	144
Total	89	1,061	296	(s)	125	1,569
2017						
January	4	65	17	(s)	6	93
February	4	66	16	(s)	8	94
March	6	77	23	(s)	10	116
April	7	85	25	(s)	10	127
May	8	94	25	(s)	9	136
June	8	92	27	(s)	13	140
July	8	99	30	(s)	13	150
August	8	101	28	(s)	12	149
September	8	99	27	(s)	13	147
October	8	96	31	(s)	12	148
November	8	98	31	(s)	11	148
December	8	98	32	(s)	10	148
Total	85	1,070	312	(s)	127	1,596
2018						
January	7	84	23	(s)	11	125
February	8	85	25	(s)	9	127
March	10	98	30	(s)	10	148
April	9	94	27	(s)	12	142
May	9	97	31	(s)	14	151
June	9	104	31	(s)	13	158
July	10	108	33	(s)	13	165
August	10	110	37	(s)	14	171
September	10	109	33	(s)	11	163
October	10	110	36	(s)	13	170
November	10	106	35	(s)	8	159
11 Month Total	102	1,105	341	(s)	128	1,678
2017 11 Month Total	77	972	280	(s)	117	1,448
2016 11 Month Total	81	970	265	(s)	112	1,425

- = No data reported

R = Revised

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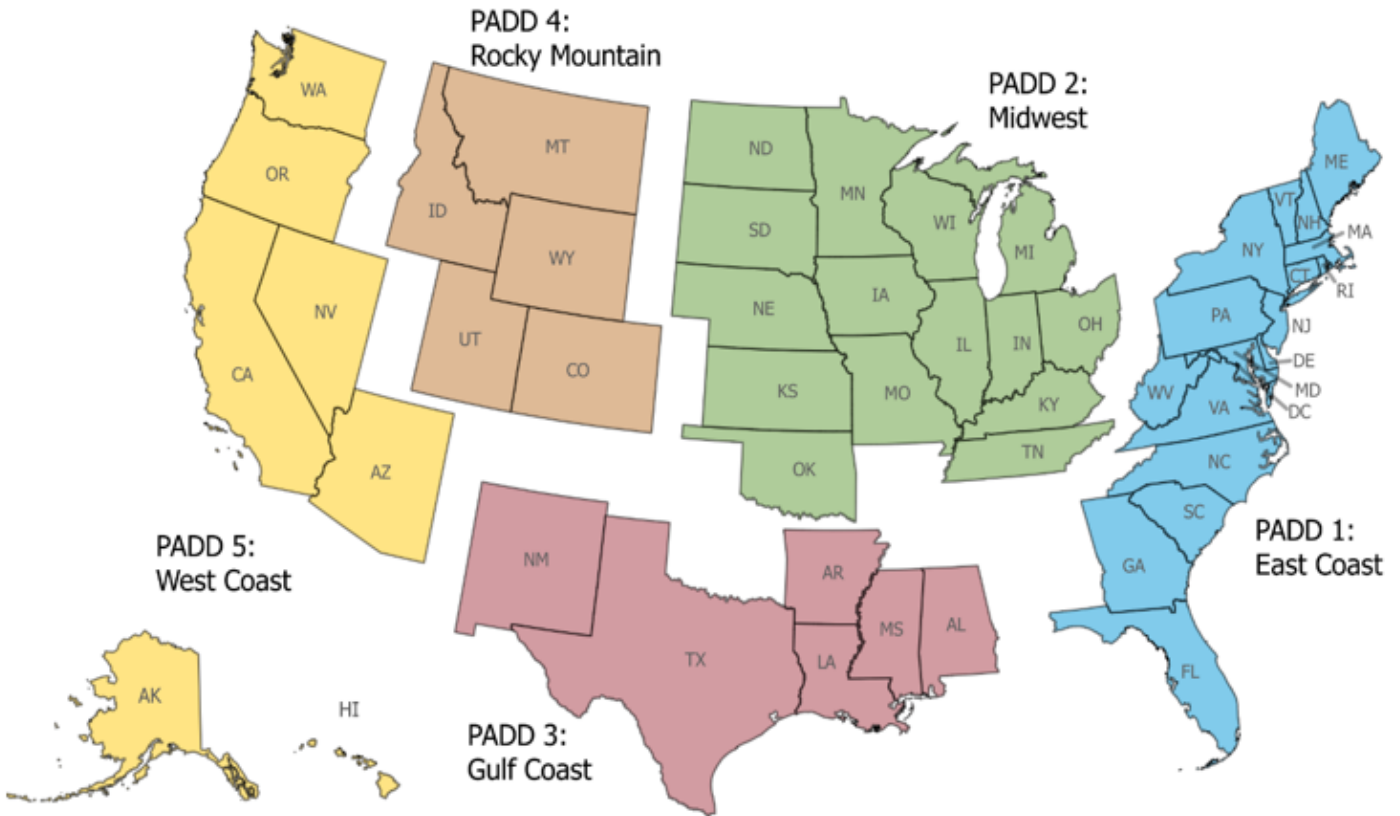
Totals may not equal the sum of components due to independent rounding.

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.