



Independent Statistics & Analysis
U.S. Energy Information
Administration

Monthly Biodiesel Production Report

With data for August 2019

October 2019



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Biodiesel Highlights and Background, Data for August 2019

Highlights

Production – U.S. production of biodiesel was 156 million gallons in August 2019. Biodiesel production during August 2019 was 3 million gallons lower than production in July 2019. Biodiesel production from the Midwest region (Petroleum Administration for Defense District 2) accounted for 67 percent of the United States total. Production came from 95 biodiesel plants with capacity of 2.5 billion gallons per year.

Sales – Producer sales of biodiesel during August 2019 included 71 million gallons sold as B100 (100% biodiesel) and an additional 86 million gallons of B100 sold in biodiesel blends with diesel fuel derived from petroleum.

Feedstocks – There were a total of 1,198 million pounds of feedstocks used to produce biodiesel in August 2019. Soybean oil remained the largest biodiesel feedstock during August 2019 with 701 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
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	2,549	126
February	2,550	128
March	2,548	149
April	2,567	143
May	2,511	151
June	2,512	159
July	2,512	166
August	2,512	172
September	2,512	164
October	2,517	171
November	2,502	160
December	2,507	168
12 Month Total	--	1,857
2019		
January	2,554	144
February	2,553	131
March	2,553	141
April	2,553	152
May	2,543	155
June	2,494	142
July	2,549	159
August	2,549	156
8 Month Total	--	1,178
2018 8 Month Total	--	1,194
2017 8 Month Total	--	1,005

-- = 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

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
2017					
January	93	35	37	49	20
February	94	37	47	59	10
March	116	51	61	62	4
April	127	51	71	67	4
May	136	66	82	55	(12)
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	126	51	66	52	8
February	128	48	72	60	8
March	149	54	92	62	2
April	143	57	88	59	(3)
May	151	71	92	48	(11)
June	159	69	90	48	0
July	166	71	98	45	(3)
August	172	77	103	38	(8)
September	164	68	92	42	4
October	171	69	101	43	1
November	160	62	92	49	6
December	168	67	107	44	(5)
12 Month Total	1,857	765	1,093	--	0
2019					
January	144	47	71	68	24
February	131	48	77	73	5
March	141	57	90	66	(7)
April	152	66	90	62	(4)
May	155	72	89	54	(8)
June	142	65	81	50	(4)
July	159	72	90	46	(3)
August	156	71	86	45	(2)
8 Month Total	1,178	499	675	--	1
2018 8 Month Total	1,194	499	700	--	(7)
2017 8 Month Total	1,005	429	558	--	18

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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		
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
December	W	181	W	-	768	(s)	10	21
12 Month Total	1,197	2,085	W	-	7,542	W	133	484
2019								
January	W	145	W	-	623	(s)	W	24
February	W	137	-	-	560	(s)	16	20
March	83	141	(s)	-	617	W	W	24
April	121	154	W	-	632	(s)	9	26
May	W	144	W	-	659	W	19	29
June	W	155	(s)	-	594	W	16	23
July	118	154	(s)	-	709	W	18	22
August	108	162	(s)	-	701	W	16	24
8 Month Total	795	1,192	W	-	5,094	W	115	192
2018 8 Month Total	860	1,372	10	(s)	4,683	W	77	324
2017 8 Month Total	940	985	W	-	3,864	(s)	89	W

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

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

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	Other				
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	
December	45	4	140	22	-	W	150	26	
12 Month Total	618	53	1,668	168	-	W	1,485	280	
2019									
January	63	3	121	22	-	W	119	22	
February	49	4	124	17	-	W	104	20	
March	58	6	121	15	-	W	117	21	
April	57	3	134	24	-	W	151	25	
May	43	1	138	30	-	W	126	22	
June	45	(s)	119	W	-	W	115	21	
July	40	1	118	23	-	W	126	23	
August	30	W	115	28	-	9	127	23	
8 Month Total	386	W	990	W	-	W	986	177	
2018 8 Month Total	407	W	1,107	100	(s)	W	941	182	
2017 8 Month Total	390	30	958	W	(s)	W	774	168	

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

Table 4. Biodiesel producers and production capacity by state, August 2019

State	Number of producers	Annual production capacity (million gallons per year)
Alabama	1	20
Alaska	1	0
Arizona	1	2
Arkansas	3	115
California	9	85
Colorado	-	-
Connecticut	1	30
Delaware	-	-
District of Columbia	-	-
Florida	2	13
Georgia	3	19
Hawaii	1	6
Idaho	-	-
Illinois	6	184
Indiana	3	107
Iowa	10	445
Kansas	1	60
Kentucky	1	54
Louisiana	-	-
Maine	1	1
Maryland	-	-
Massachusetts	1	1
Michigan	2	18
Minnesota	3	85
Mississippi	3	102
Missouri	9	247
Montana	1	-
Nebraska	1	50
Nevada	-	-
New Hampshire	1	4
New Jersey	-	-
New Mexico	1	1
New York	-	-
North Carolina	2	7
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	2	38
Texas	9	389
Utah	-	-
Vermont	-	-
Virginia	4	9
Washington	2	112
West Virginia	-	-
Wisconsin	2	32
Wyoming	-	-
U.S. Total	95	2,549

- = No data reported.

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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)	
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	126
February	8	85	25	(s)	9	128
March	11	99	30	(s)	10	149
April	10	94	27	(s)	12	143
May	10	97	31	(s)	14	151
June	10	105	31	(s)	13	159
July	11	108	33	(s)	13	166
August	10	111	37	(s)	14	172
September	10	110	33	(s)	11	164
October	10	112	36	(s)	13	171
November	11	107	35	(s)	8	160
December	11	108	37	(s)	12	168
12 Month Total	119	1,220	378	(s)	140	1,857
2019						
January	9	94	28	(s)	13	144
February	10	87	28	(s)	6	131
March	8	97	27	(s)	9	141
April	9	101	30	(s)	12	152
May	8	106	26	(s)	14	155
June	7	97	26	(s)	11	142
July	7	107	31	(s)	13	159
August	6	105	31	(s)	14	156
8 Month Total	64	794	227	(s)	92	1,178
2018 8 Month Total	77	783	237	(s)	96	1,194
2017 8 Month Total	53	679	191	(s)	81	1,005

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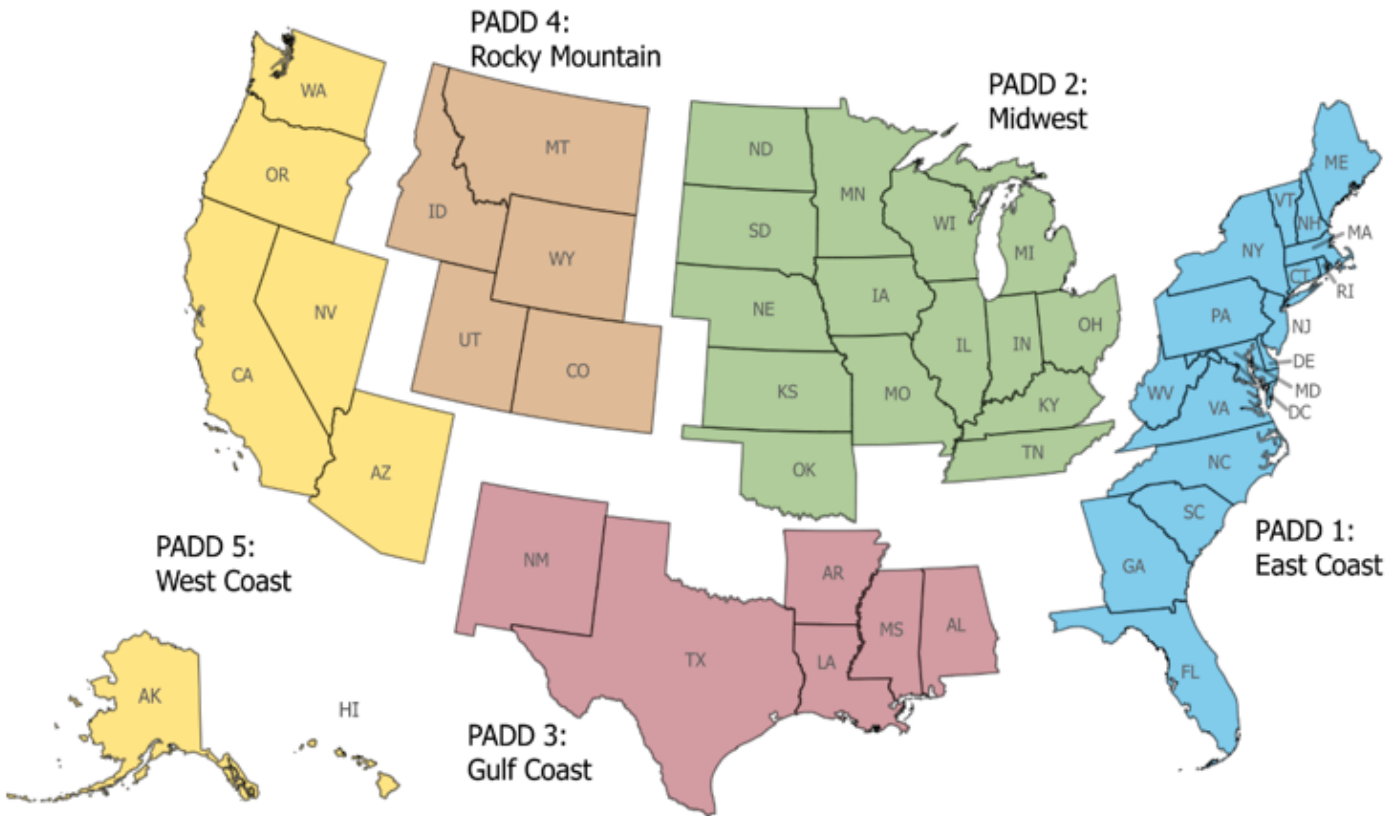
Totals may not equal the sum of components due to independent rounding.

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.