

**Table 31. Exports of Crude Oil and Petroleum Products by PAD District, January 2023**  
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
<b>Crude Oil<sup>1</sup></b> .....	<b>0</b>	<b>2,654</b>	<b>103,032</b>	<b>–</b>	<b>–</b>	<b>105,686</b>	<b>3,409</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>6,568</b>	<b>7,153</b>	<b>64,449</b>	<b>9</b>	<b>1,026</b>	<b>79,204</b>	<b>2,555</b>
Natural Gas Liquids .....	6,568	7,153	64,449	9	1,026	79,204	2,555
Ethane .....	2,783	2,307	9,985	0	–	15,075	486
Propane .....	3,256	115	41,124	1	743	45,239	1,459
Normal Butane .....	484	101	12,861	–	259	13,704	442
Isobutane .....	1	1	126	–	2	130	4
Natural Gasoline .....	44	4,629	354	8	23	5,056	163
<b>Other Liquids</b> .....	<b>123</b>	<b>3,576</b>	<b>8,099</b>	<b>14</b>	<b>426</b>	<b>12,239</b>	<b>395</b>
Hydrogen/Biofuels/Other Hydrocarbons .....	98	964	1,588	12	291	2,954	95
Hydrogen .....	–	–	–	–	–	–	–
Biofuels .....	98	964	1,588	12	291	2,954	95
Fuel Ethanol .....	94	918	1,505	12	260	2,790	90
Biodiesel .....	4	45	83	–	32	164	5
Renewable Diesel Fuel .....	NA	NA	NA	NA	NA	NA	NA
Other Biofuels <sup>2</sup> .....	NA	NA	NA	NA	NA	NA	NA
Other Hydrocarbons .....	–	–	–	–	–	–	–
Unfinished Oils .....	21	2,539	3,677	0	21	6,259	202
Naphthas and Lighter .....	8	2,518	3,249	0	1	5,776	186
Kerosene and Light Gas Oils .....	13	21	428	–	20	483	16
Heavy Gas Oils .....	–	–	–	–	–	–	–
Residuum .....	–	–	–	–	–	–	–
Motor Gasoline Blend.Comp. (MGBC) .....	4	74	2,833	2	114	3,027	98
Reformulated .....	0	–	21	–	2	23	1
Conventional .....	4	74	2,812	2	112	3,003	97
Aviation Gasoline Blend. Comp. ....	–	–	–	–	–	–	–
<b>Finished Petroleum Products</b> .....	<b>2,282</b>	<b>627</b>	<b>76,486</b>	<b>19</b>	<b>10,156</b>	<b>89,570</b>	<b>2,889</b>
Finished Motor Gasoline .....	70	172	24,931	1	1,386	26,560	857
Reformulated .....	–	–	–	–	–	–	–
Conventional .....	70	172	24,931	1	1,386	26,560	857
Finished Aviation Gasoline .....	–	–	–	–	–	–	–
Kerosene-Type Jet Fuel .....	389	36	4,789	–	795	6,008	194
Kerosene .....	2	2	316	–	0	321	10
Distillate Fuel Oil .....	433	82	24,167	0	3,314	27,996	903
15 ppm sulfur and under .....	11	0	20,651	0	2,770	23,433	756
Greater than 15 ppm to 500 ppm sulfur .....	421	20	2,472	–	53	2,965	96
Greater than 500 ppm sulfur .....	1	62	1,044	–	491	1,597	52
Residual Fuel Oil .....	4	0	2,467	–	822	3,292	106
Naphtha for Petro. Feed. Use .....	–	–	–	–	–	–	–
Other Oils for Petro. Feed. Use .....	91	–	1,114	–	100	1,305	42
Special Naphthas .....	–	–	–	–	–	–	–
Lubricants .....	143	178	2,308	16	240	2,884	93
Waxes .....	67	38	15	–	5	125	4
Petroleum Coke .....	963	27	15,728	0	3,473	20,191	651
Asphalt and Road Oil .....	101	90	569	3	22	784	25
Miscellaneous Products .....	18	1	83	–	0	102	3
<b>Total</b> .....	<b>8,973</b>	<b>14,009</b>	<b>252,066</b>	<b>42</b>	<b>11,608</b>	<b>286,699</b>	<b>9,248</b>

-- = Not Applicable.

- = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

<sup>2</sup> Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

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

Sources: U.S. Census Bureau and EIA estimates.

**Table 31. Exports of Crude Oil and Petroleum Products by PAD District, February 2023**  
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
<b>Crude Oil<sup>1</sup></b> .....	<b>0</b>	<b>3,366</b>	<b>111,799</b>	<b>–</b>	<b>–</b>	<b>115,166</b>	<b>4,113</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>5,213</b>	<b>6,935</b>	<b>58,751</b>	<b>9</b>	<b>1,572</b>	<b>72,479</b>	<b>2,589</b>
Natural Gas Liquids .....	5,213	6,935	58,751	9	1,572	72,479	2,589
Ethane .....	1,585	1,971	9,274	0	–	12,829	458
Propane .....	2,976	95	40,179	0	932	44,182	1,578
Normal Butane .....	609	106	9,119	–	629	10,463	374
Isobutane .....	1	1	103	–	–	106	4
Natural Gasoline .....	43	4,762	75	8	11	4,899	175
<b>Other Liquids</b> .....	<b>214</b>	<b>3,285</b>	<b>7,163</b>	<b>39</b>	<b>707</b>	<b>11,408</b>	<b>407</b>
Hydrogen/Biofuels/Other Hydrocarbons .....	184	807	1,330	39	341	2,701	96
Hydrogen .....	–	–	–	–	–	–	–
Biofuels .....	184	807	1,330	39	341	2,701	96
Fuel Ethanol .....	181	744	1,299	39	288	2,551	91
Biodiesel .....	3	63	31	–	53	150	5
Renewable Diesel Fuel .....	NA	NA	NA	NA	NA	NA	NA
Other Biofuels <sup>2</sup> .....	NA	NA	NA	NA	NA	NA	NA
Other Hydrocarbons .....	–	–	–	–	–	–	–
Unfinished Oils .....	27	2,398	4,999	–	203	7,627	272
Naphthas and Lighter .....	11	2,392	4,359	–	0	6,762	241
Kerosene and Light Gas Oils .....	16	6	640	–	203	865	31
Heavy Gas Oils .....	–	–	–	–	–	–	–
Residuum .....	–	–	–	–	–	–	–
Motor Gasoline Blend.Comp. (MGBC) .....	3	80	834	–	163	1,080	39
Reformulated .....	0	–	53	–	0	54	2
Conventional .....	3	80	781	–	163	1,027	37
Aviation Gasoline Blend. Comp. ....	–	–	–	–	–	–	–
<b>Finished Petroleum Products</b> .....	<b>1,358</b>	<b>493</b>	<b>66,144</b>	<b>19</b>	<b>6,698</b>	<b>74,713</b>	<b>2,668</b>
Finished Motor Gasoline .....	42	196	20,260	0	881	21,380	764
Reformulated .....	–	–	–	–	–	–	–
Conventional .....	42	196	20,260	0	881	21,380	764
Finished Aviation Gasoline .....	–	–	–	–	–	–	–
Kerosene-Type Jet Fuel .....	318	24	3,800	–	838	4,979	178
Kerosene .....	2	0	25	–	0	27	1
Distillate Fuel Oil .....	227	19	23,917	–	1,824	25,987	928
15 ppm sulfur and under .....	205	2	19,770	–	1,169	21,146	755
Greater than 15 ppm to 500 ppm sulfur .....	21	5	2,291	–	210	2,528	90
Greater than 500 ppm sulfur .....	1	12	1,856	–	445	2,313	83
Residual Fuel Oil .....	212	–	2,919	–	301	3,432	123
Naphtha for Petro. Feed. Use .....	–	–	–	–	–	–	–
Other Oils for Petro. Feed. Use .....	2	–	1,176	–	50	1,228	44
Special Naphthas .....	–	–	–	–	–	–	–
Lubricants .....	189	154	1,841	17	63	2,265	81
Waxes .....	61	40	25	1	4	131	5
Petroleum Coke .....	226	38	11,746	–	2,711	14,720	526
Asphalt and Road Oil .....	64	17	401	1	27	511	18
Miscellaneous Products .....	14	4	33	–	0	52	2
<b>Total</b> .....	<b>6,785</b>	<b>14,080</b>	<b>243,857</b>	<b>67</b>	<b>8,978</b>	<b>273,766</b>	<b>9,777</b>

-- = Not Applicable.

- = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

<sup>2</sup> Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

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

Sources: U.S. Census Bureau and EIA estimates.

**Table 31. Exports of Crude Oil and Petroleum Products by PAD District, March 2023**  
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
<b>Crude Oil<sup>1</sup></b> .....	<b>0</b>	<b>2,088</b>	<b>133,647</b>	<b>–</b>	<b>1,053</b>	<b>136,788</b>	<b>4,413</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>9,290</b>	<b>6,061</b>	<b>73,244</b>	<b>8</b>	<b>2,619</b>	<b>91,222</b>	<b>2,943</b>
Natural Gas Liquids .....	9,290	6,061	73,244	8	2,619	91,222	2,943
Ethane .....	2,290	1,390	11,928	–	–	15,608	503
Propane .....	5,064	147	49,406	2	1,389	56,008	1,807
Normal Butane .....	1,891	75	11,663	0	1,225	14,855	479
Isobutane .....	1	2	157	–	3	163	5
Natural Gasoline .....	44	4,447	90	6	2	4,588	148
<b>Other Liquids</b> .....	<b>140</b>	<b>3,424</b>	<b>10,999</b>	<b>42</b>	<b>442</b>	<b>15,047</b>	<b>485</b>
Hydrogen/Biofuels/Other Hydrocarbons .....	118	1,027	1,678	37	217	3,077	99
Hydrogen .....	–	–	–	–	–	–	–
Biofuels .....	118	1,027	1,678	37	217	3,077	99
Fuel Ethanol .....	113	865	1,648	37	153	2,817	91
Biodiesel .....	5	162	29	–	64	261	8
Renewable Diesel Fuel .....	NA	NA	NA	NA	NA	NA	NA
Other Biofuels <sup>2</sup> .....	NA	NA	NA	NA	NA	NA	NA
Other Hydrocarbons .....	–	–	–	–	–	–	–
Unfinished Oils .....	19	2,384	6,563	5	41	9,013	291
Naphthas and Lighter .....	7	2,297	6,312	–	20	8,637	279
Kerosene and Light Gas Oils .....	12	87	251	5	21	376	12
Heavy Gas Oils .....	–	–	–	–	–	–	–
Residuum .....	–	–	–	–	–	–	–
Motor Gasoline Blend.Comp. (MGBC) .....	2	13	2,758	–	184	2,957	95
Reformulated .....	0	–	34	–	1	36	1
Conventional .....	2	13	2,724	–	183	2,921	94
Aviation Gasoline Blend. Comp. ....	–	–	–	–	–	–	–
<b>Finished Petroleum Products</b> .....	<b>3,381</b>	<b>758</b>	<b>79,762</b>	<b>17</b>	<b>10,460</b>	<b>94,379</b>	<b>3,044</b>
Finished Motor Gasoline .....	51	285	23,790	1	612	24,738	798
Reformulated .....	–	–	–	–	–	–	–
Conventional .....	51	285	23,790	1	612	24,738	798
Finished Aviation Gasoline .....	–	–	–	–	–	–	–
Kerosene-Type Jet Fuel .....	36	27	5,112	–	853	6,028	194
Kerosene .....	4	1	47	–	0	53	2
Distillate Fuel Oil .....	1,421	31	30,661	–	3,305	35,419	1,143
15 ppm sulfur and under .....	1,244	1	26,490	–	2,561	30,295	977
Greater than 15 ppm to 500 ppm sulfur .....	27	5	3,184	–	193	3,410	110
Greater than 500 ppm sulfur .....	150	25	987	–	552	1,714	55
Residual Fuel Oil .....	1,125	–	4,061	–	1,508	6,693	216
Naphtha for Petro. Feed. Use .....	–	–	–	–	–	–	–
Other Oils for Petro. Feed. Use .....	4	–	1,133	–	–	1,137	37
Special Naphthas .....	–	–	–	–	–	–	–
Lubricants .....	337	195	3,137	14	323	4,006	129
Waxes .....	69	38	21	0	5	134	4
Petroleum Coke .....	233	110	11,419	–	3,826	15,588	503
Asphalt and Road Oil .....	82	70	339	2	28	521	17
Miscellaneous Products .....	18	1	41	–	0	61	2
<b>Total</b> .....	<b>12,811</b>	<b>12,331</b>	<b>297,652</b>	<b>67</b>	<b>14,574</b>	<b>337,436</b>	<b>10,885</b>

-- = Not Applicable.

- = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

<sup>2</sup> Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

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

Sources: U.S. Census Bureau and EIA estimates.

**Table 31. Exports of Crude Oil and Petroleum Products by PAD District, April 2023**  
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
<b>Crude Oil<sup>1</sup></b> .....	<b>0</b>	<b>1,366</b>	<b>122,740</b>	<b>–</b>	<b>–</b>	<b>124,107</b>	<b>4,137</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>7,822</b>	<b>6,206</b>	<b>63,425</b>	<b>2</b>	<b>1,506</b>	<b>78,962</b>	<b>2,632</b>
Natural Gas Liquids .....	7,822	6,206	63,425	2	1,506	78,962	2,632
Ethane .....	1,818	1,703	11,375	–	–	14,895	497
Propane .....	3,722	205	40,995	2	861	45,786	1,526
Normal Butane .....	2,260	100	10,867	–	618	13,845	461
Isobutane .....	0	2	104	–	3	109	4
Natural Gasoline .....	22	4,197	84	–	24	4,327	144
<b>Other Liquids</b> .....	<b>213</b>	<b>3,914</b>	<b>9,913</b>	<b>111</b>	<b>394</b>	<b>14,546</b>	<b>485</b>
Hydrogen/Biofuels/Other Hydrocarbons .....	194	1,214	2,352	51	183	3,994	133
Hydrogen .....	–	–	–	–	–	–	–
Biofuels .....	194	1,214	2,352	51	183	3,994	133
Fuel Ethanol .....	188	795	1,697	43	130	2,853	95
Biodiesel .....	6	419	655	7	53	1,141	38
Renewable Diesel Fuel .....	NA	NA	NA	NA	NA	NA	NA
Other Biofuels <sup>2</sup> .....	NA	NA	NA	NA	NA	NA	NA
Other Hydrocarbons .....	–	–	–	–	–	–	–
Unfinished Oils .....	17	2,643	6,662	60	4	9,386	313
Naphthas and Lighter .....	7	2,530	6,015	–	1	8,552	285
Kerosene and Light Gas Oils .....	10	113	647	60	3	834	28
Heavy Gas Oils .....	–	–	–	–	–	–	–
Residuum .....	–	–	–	–	–	–	–
Motor Gasoline Blend.Comp. (MGBC) .....	2	57	899	0	207	1,166	39
Reformulated .....	–	–	63	–	–	63	2
Conventional .....	2	57	836	0	207	1,103	37
Aviation Gasoline Blend. Comp. ....	–	–	–	–	–	–	–
<b>Finished Petroleum Products</b> .....	<b>685</b>	<b>1,438</b>	<b>70,101</b>	<b>21</b>	<b>8,666</b>	<b>80,911</b>	<b>2,697</b>
Finished Motor Gasoline .....	32	346	22,287	1	765	23,431	781
Reformulated .....	–	–	–	–	–	–	–
Conventional .....	32	346	22,287	1	765	23,431	781
Finished Aviation Gasoline .....	–	–	–	–	–	–	–
Kerosene-Type Jet Fuel .....	27	28	3,286	–	492	3,834	128
Kerosene .....	4	1	20	–	0	24	1
Distillate Fuel Oil .....	112	81	27,009	–	3,387	30,589	1,020
15 ppm sulfur and under .....	9	6	23,547	–	3,347	26,910	897
Greater than 15 ppm to 500 ppm sulfur .....	101	3	2,367	–	19	2,490	83
Greater than 500 ppm sulfur .....	2	72	1,095	–	20	1,189	40
Residual Fuel Oil .....	2	–	2,836	–	671	3,509	117
Naphtha for Petro. Feed. Use .....	–	–	–	–	–	–	–
Other Oils for Petro. Feed. Use .....	–	–	836	–	–	836	28
Special Naphthas .....	–	–	–	–	–	–	–
Lubricants .....	168	184	2,801	19	89	3,261	109
Waxes .....	65	24	20	0	4	112	4
Petroleum Coke .....	211	700	10,498	–	3,236	14,646	488
Asphalt and Road Oil .....	50	73	446	1	22	591	20
Miscellaneous Products .....	14	1	63	–	–	77	3
<b>Total</b> .....	<b>8,721</b>	<b>12,925</b>	<b>266,180</b>	<b>134</b>	<b>10,566</b>	<b>298,525</b>	<b>9,951</b>

-- = Not Applicable.

– = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

<sup>2</sup> Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

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

Sources: U.S. Census Bureau and EIA estimates.

**Table 31. Exports of Crude Oil and Petroleum Products by PAD District, May 2023**  
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
<b>Crude Oil<sup>1</sup></b> .....	<b>0</b>	<b>3,375</b>	<b>115,857</b>	<b>–</b>	<b>–</b>	<b>119,233</b>	<b>3,846</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>11,082</b>	<b>7,696</b>	<b>59,625</b>	<b>9</b>	<b>1,717</b>	<b>80,129</b>	<b>2,585</b>
Natural Gas Liquids .....	11,082	7,696	59,625	9	1,717	80,129	2,585
Ethane .....	2,075	1,998	10,377	–	–	14,450	466
Propane .....	5,960	173	40,349	2	859	47,343	1,527
Normal Butane .....	2,978	157	8,674	–	856	12,665	409
Isobutane .....	1	2	178	–	0	181	6
Natural Gasoline .....	68	5,366	48	8	1	5,491	177
<b>Other Liquids</b> .....	<b>154</b>	<b>3,952</b>	<b>12,331</b>	<b>93</b>	<b>542</b>	<b>17,072</b>	<b>551</b>
Hydrogen/Biofuels/Other Hydrocarbons .....	37	1,272	1,812	64	249	3,434	111
Hydrogen .....	–	–	–	–	–	–	–
Biofuels .....	37	1,272	1,812	64	249	3,434	111
Fuel Ethanol .....	34	897	1,578	36	130	2,676	86
Biodiesel .....	3	374	233	28	119	758	24
Renewable Diesel Fuel .....	NA	NA	NA	NA	NA	NA	NA
Other Biofuels <sup>2</sup> .....	NA	NA	NA	NA	NA	NA	NA
Other Hydrocarbons .....	–	–	–	–	–	–	–
Unfinished Oils .....	114	2,626	8,040	29	93	10,902	352
Naphthas and Lighter .....	105	2,466	7,336	0	2	9,908	320
Kerosene and Light Gas Oils .....	9	160	704	29	92	994	32
Heavy Gas Oils .....	–	–	–	–	–	–	–
Residuum .....	–	–	–	–	–	–	–
Motor Gasoline Blend.Comp. (MGBC) .....	3	55	2,480	0	200	2,737	88
Reformulated .....	0	–	50	–	1	51	2
Conventional .....	2	55	2,430	0	199	2,686	87
Aviation Gasoline Blend. Comp. ....	–	–	–	–	–	–	–
<b>Finished Petroleum Products</b> .....	<b>1,776</b>	<b>1,234</b>	<b>79,400</b>	<b>19</b>	<b>8,783</b>	<b>91,213</b>	<b>2,942</b>
Finished Motor Gasoline .....	65	316	21,757	2	914	23,054	744
Reformulated .....	–	–	–	–	–	–	–
Conventional .....	65	316	21,757	2	914	23,054	744
Finished Aviation Gasoline .....	–	–	–	–	–	–	–
Kerosene-Type Jet Fuel .....	21	34	3,477	–	473	4,005	129
Kerosene .....	9	1	1	–	1	12	0
Distillate Fuel Oil .....	163	115	32,907	–	2,875	36,059	1,163
15 ppm sulfur and under .....	136	1	27,746	–	2,771	30,653	989
Greater than 15 ppm to 500 ppm sulfur .....	26	2	3,868	–	70	3,966	128
Greater than 500 ppm sulfur .....	1	111	1,293	–	34	1,440	46
Residual Fuel Oil .....	449	0	3,420	–	2	3,871	125
Naphtha for Petro. Feed. Use .....	–	–	–	–	–	–	–
Other Oils for Petro. Feed. Use .....	150	–	482	–	–	632	20
Special Naphthas .....	–	–	–	–	–	–	–
Lubricants .....	320	221	3,032	15	506	4,094	132
Waxes .....	83	21	19	0	5	128	4
Petroleum Coke .....	429	507	14,009	0	3,976	18,921	610
Asphalt and Road Oil .....	78	20	216	1	31	347	11
Miscellaneous Products .....	10	0	79	0	0	89	3
<b>Total</b> .....	<b>13,012</b>	<b>16,257</b>	<b>267,213</b>	<b>121</b>	<b>11,043</b>	<b>307,647</b>	<b>9,924</b>

-- = Not Applicable.

- = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

<sup>2</sup> Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

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

Sources: U.S. Census Bureau and EIA estimates.

**Table 31. Exports of Crude Oil and Petroleum Products by PAD District, June 2023**  
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
<b>Crude Oil<sup>1</sup></b> .....	<b>1</b>	<b>2,352</b>	<b>113,748</b>	<b>–</b>	<b>1,300</b>	<b>117,401</b>	<b>3,913</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>10,096</b>	<b>8,738</b>	<b>57,075</b>	<b>13</b>	<b>2,728</b>	<b>78,649</b>	<b>2,622</b>
Natural Gas Liquids .....	10,096	8,738	57,075	13	2,728	78,649	2,622
Ethane .....	2,144	3,359	9,855	0	1	15,359	512
Propane .....	6,037	134	38,515	3	1,189	45,877	1,529
Normal Butane .....	1,866	129	8,564	3	1,535	12,097	403
Isobutane .....	1	2	62	–	3	67	2
Natural Gasoline .....	48	5,114	79	6	1	5,249	175
<b>Other Liquids</b> .....	<b>294</b>	<b>4,150</b>	<b>9,639</b>	<b>97</b>	<b>456</b>	<b>14,636</b>	<b>488</b>
Hydrogen/Biofuels/Other Hydrocarbons .....	41	1,390	1,712	40	310	3,494	116
Hydrogen .....	–	–	–	–	–	–	–
Biofuels .....	41	1,390	1,712	40	310	3,494	116
Fuel Ethanol .....	39	979	1,447	27	164	2,656	89
Biodiesel .....	2	412	265	13	147	839	28
Renewable Diesel Fuel .....	NA	NA	NA	NA	NA	NA	NA
Other Biofuels <sup>2</sup> .....	NA	NA	NA	NA	NA	NA	NA
Other Hydrocarbons .....	–	–	–	–	–	–	–
Unfinished Oils .....	250	2,616	6,059	57	16	8,998	300
Naphthas and Lighter .....	7	2,408	5,961	–	1	8,377	279
Kerosene and Light Gas Oils .....	243	207	99	57	15	621	21
Heavy Gas Oils .....	–	–	–	–	–	–	–
Residuum .....	–	–	–	–	–	–	–
Motor Gasoline Blend.Comp. (MGBC) .....	2	144	1,867	–	130	2,144	71
Reformulated .....	0	–	21	–	0	21	1
Conventional .....	2	144	1,847	–	130	2,123	71
Aviation Gasoline Blend. Comp. ....	–	–	–	–	–	–	–
<b>Finished Petroleum Products</b> .....	<b>2,133</b>	<b>803</b>	<b>79,733</b>	<b>13</b>	<b>9,155</b>	<b>91,836</b>	<b>3,061</b>
Finished Motor Gasoline .....	53	178	20,502	1	1,219	21,953	732
Reformulated .....	–	–	–	–	–	–	–
Conventional .....	53	178	20,502	1	1,219	21,953	732
Finished Aviation Gasoline .....	–	–	–	–	–	–	–
Kerosene-Type Jet Fuel .....	461	44	3,752	–	621	4,879	163
Kerosene .....	4	1	43	–	1	49	2
Distillate Fuel Oil .....	671	30	30,645	–	3,506	34,852	1,162
15 ppm sulfur and under .....	660	1	27,580	–	3,295	31,536	1,051
Greater than 15 ppm to 500 ppm sulfur .....	10	3	1,792	–	2	1,807	60
Greater than 500 ppm sulfur .....	1	27	1,273	–	209	1,510	50
Residual Fuel Oil .....	3	1	4,122	–	358	4,484	149
Naphtha for Petro. Feed. Use .....	–	–	–	–	–	–	–
Other Oils for Petro. Feed. Use .....	–	–	1,112	–	314	1,427	48
Special Naphthas .....	–	–	–	–	–	–	–
Lubricants .....	290	203	2,662	10	87	3,253	108
Waxes .....	72	33	20	–	5	129	4
Petroleum Coke .....	478	215	16,477	–	3,018	20,189	673
Asphalt and Road Oil .....	81	97	336	2	26	541	18
Miscellaneous Products .....	19	0	60	0	1	80	3
<b>Total</b> .....	<b>12,523</b>	<b>16,043</b>	<b>260,195</b>	<b>123</b>	<b>13,639</b>	<b>302,522</b>	<b>10,084</b>

-- = Not Applicable.

– = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

<sup>2</sup> Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

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

Sources: U.S. Census Bureau and EIA estimates.

**Table 31. Exports of Crude Oil and Petroleum Products by PAD District, July 2023**  
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
<b>Crude Oil<sup>1</sup></b> .....	<b>0</b>	<b>3,051</b>	<b>118,548</b>	<b>–</b>	<b>0</b>	<b>121,600</b>	<b>3,923</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>9,072</b>	<b>5,991</b>	<b>62,984</b>	<b>12</b>	<b>1,458</b>	<b>79,516</b>	<b>2,565</b>
Natural Gas Liquids .....	9,072	5,991	62,984	12	1,458	79,516	2,565
Ethane .....	2,424	2,036	10,890	1	–	15,351	495
Propane .....	4,478	125	42,625	3	834	48,066	1,551
Normal Butane .....	2,131	160	8,975	1	620	11,887	383
Isobutane .....	1	2	161	–	2	167	5
Natural Gasoline .....	38	3,667	332	7	1	4,044	130
<b>Other Liquids</b> .....	<b>577</b>	<b>3,932</b>	<b>10,518</b>	<b>116</b>	<b>998</b>	<b>16,141</b>	<b>521</b>
Hydrogen/Biofuels/Other Hydrocarbons .....	150	1,424	1,429	79	287	3,369	109
Hydrogen .....	–	–	–	–	–	–	–
Biofuels .....	150	1,424	1,429	79	287	3,369	109
Fuel Ethanol .....	147	1,046	1,273	45	167	2,678	86
Biodiesel .....	3	378	156	34	120	691	22
Renewable Diesel Fuel .....	NA	NA	NA	NA	NA	NA	NA
Other Biofuels <sup>2</sup> .....	NA	NA	NA	NA	NA	NA	NA
Other Hydrocarbons .....	–	–	–	–	–	–	–
Unfinished Oils .....	17	2,395	6,411	37	453	9,313	300
Naphthas and Lighter .....	7	2,288	6,123	0	305	8,722	281
Kerosene and Light Gas Oils .....	10	107	288	37	148	591	19
Heavy Gas Oils .....	–	–	–	–	–	–	–
Residuum .....	–	–	–	–	–	–	–
Motor Gasoline Blend.Comp. (MGBC) .....	411	113	2,678	0	258	3,459	112
Reformulated .....	1	–	5	–	1	8	0
Conventional .....	409	113	2,673	0	257	3,451	111
Aviation Gasoline Blend. Comp. ....	–	–	–	–	–	–	–
<b>Finished Petroleum Products</b> .....	<b>1,480</b>	<b>888</b>	<b>90,917</b>	<b>18</b>	<b>9,324</b>	<b>102,627</b>	<b>3,311</b>
Finished Motor Gasoline .....	167	140	26,031	1	824	27,163	876
Reformulated .....	–	–	–	–	–	–	–
Conventional .....	167	140	26,031	1	824	27,163	876
Finished Aviation Gasoline .....	–	–	–	–	–	–	–
Kerosene-Type Jet Fuel .....	22	64	4,045	–	534	4,665	150
Kerosene .....	2	0	21	–	0	23	1
Distillate Fuel Oil .....	648	73	35,120	–	3,271	39,113	1,262
15 ppm sulfur and under .....	635	0	31,143	–	3,219	34,997	1,129
Greater than 15 ppm to 500 ppm sulfur .....	13	8	3,107	–	1	3,129	101
Greater than 500 ppm sulfur .....	0	65	871	–	51	987	32
Residual Fuel Oil .....	6	39	4,400	–	361	4,806	155
Naphtha for Petro. Feed. Use .....	–	–	–	–	–	–	–
Other Oils for Petro. Feed. Use .....	–	–	516	–	308	824	27
Special Naphthas .....	–	–	–	–	–	–	–
Lubricants .....	149	196	2,874	15	376	3,609	116
Waxes .....	64	23	25	0	3	116	4
Petroleum Coke .....	299	196	17,648	0	3,620	21,763	702
Asphalt and Road Oil .....	111	156	191	2	26	487	16
Miscellaneous Products .....	12	0	45	–	0	58	2
<b>Total</b> .....	<b>11,129</b>	<b>13,862</b>	<b>282,967</b>	<b>146</b>	<b>11,779</b>	<b>319,884</b>	<b>10,319</b>

-- = Not Applicable.

- = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

<sup>2</sup> Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

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

Sources: U.S. Census Bureau and EIA estimates.

**Table 31. Exports of Crude Oil and Petroleum Products by PAD District, August 2023**  
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
<b>Crude Oil<sup>1</sup></b> .....	<b>0</b>	<b>3,104</b>	<b>132,718</b>	<b>–</b>	<b>760</b>	<b>136,582</b>	<b>4,406</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>11,148</b>	<b>6,770</b>	<b>60,892</b>	<b>4</b>	<b>1,831</b>	<b>80,645</b>	<b>2,601</b>
Natural Gas Liquids .....	11,148	6,770	60,892	4	1,831	80,645	2,601
Ethane .....	2,310	2,257	11,218	–	–	15,785	509
Propane .....	5,789	129	38,980	3	1,089	45,989	1,484
Normal Butane .....	3,022	256	10,287	0	737	14,302	461
Isobutane .....	1	0	55	–	2	59	2
Natural Gasoline .....	27	4,128	352	1	3	4,512	146
<b>Other Liquids</b> .....	<b>161</b>	<b>3,460</b>	<b>10,019</b>	<b>146</b>	<b>516</b>	<b>14,302</b>	<b>461</b>
Hydrogen/Biofuels/Other Hydrocarbons .....	124	1,354	1,036	122	312	2,948	95
Hydrogen .....	–	–	–	–	–	–	–
Biofuels .....	124	1,354	1,036	122	312	2,948	95
Fuel Ethanol .....	122	1,024	954	85	210	2,395	77
Biodiesel .....	2	330	82	37	102	553	18
Renewable Diesel Fuel .....	NA	NA	NA	NA	NA	NA	NA
Other Biofuels <sup>2</sup> .....	NA	NA	NA	NA	NA	NA	NA
Other Hydrocarbons .....	–	–	–	–	–	–	–
Unfinished Oils .....	22	1,777	6,676	21	21	8,517	275
Naphthas and Lighter .....	7	1,601	6,527	0	1	8,136	262
Kerosene and Light Gas Oils .....	15	176	149	21	20	381	12
Heavy Gas Oils .....	–	–	–	–	–	–	–
Residuum .....	–	–	–	–	–	–	–
Motor Gasoline Blend.Comp. (MGBC) .....	16	329	2,306	3	183	2,837	92
Reformulated .....	1	–	0	–	–	1	0
Conventional .....	15	329	2,306	3	183	2,836	91
Aviation Gasoline Blend. Comp. ....	–	–	–	–	–	–	–
<b>Finished Petroleum Products</b> .....	<b>1,891</b>	<b>729</b>	<b>81,762</b>	<b>18</b>	<b>8,661</b>	<b>93,062</b>	<b>3,002</b>
Finished Motor Gasoline .....	44	209	21,913	1	869	23,035	743
Reformulated .....	–	–	–	–	–	–	–
Conventional .....	44	209	21,913	1	869	23,035	743
Finished Aviation Gasoline .....	–	–	–	–	–	–	–
Kerosene-Type Jet Fuel .....	14	88	5,442	0	951	6,495	210
Kerosene .....	4	0	326	–	0	330	11
Distillate Fuel Oil .....	644	80	33,805	0	2,879	37,407	1,207
15 ppm sulfur and under .....	575	25	29,396	0	2,482	32,478	1,048
Greater than 15 ppm to 500 ppm sulfur .....	19	5	3,242	–	7	3,272	106
Greater than 500 ppm sulfur .....	50	50	1,167	–	391	1,657	53
Residual Fuel Oil .....	211	10	2,675	–	284	3,180	103
Naphtha for Petro. Feed. Use .....	–	–	–	–	–	–	–
Other Oils for Petro. Feed. Use .....	0	–	1,285	–	146	1,431	46
Special Naphthas .....	–	–	–	–	–	–	–
Lubricants .....	184	181	2,581	16	67	3,029	98
Waxes .....	81	32	19	0	4	136	4
Petroleum Coke .....	602	78	13,185	–	3,415	17,279	557
Asphalt and Road Oil .....	93	51	506	1	46	697	22
Miscellaneous Products .....	15	0	28	–	0	42	1
<b>Total</b> .....	<b>13,201</b>	<b>14,064</b>	<b>285,390</b>	<b>169</b>	<b>11,768</b>	<b>324,592</b>	<b>10,471</b>

-- = Not Applicable.

- = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

<sup>2</sup> Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

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

Sources: U.S. Census Bureau and EIA estimates.



**Table 31. Exports of Crude Oil and Petroleum Products by PAD District, September 2023**  
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
<b>Crude Oil<sup>1</sup></b> .....	<b>1</b>	<b>4,993</b>	<b>119,115</b>	<b>–</b>	<b>–</b>	<b>124,109</b>	<b>4,137</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>9,980</b>	<b>5,692</b>	<b>65,258</b>	<b>3</b>	<b>1,462</b>	<b>82,395</b>	<b>2,746</b>
Natural Gas Liquids .....	9,980	5,692	65,258	3	1,462	82,395	2,746
Ethane .....	2,466	1,921	10,925	–	–	15,312	510
Propane .....	5,692	124	42,335	2	929	49,083	1,636
Normal Butane .....	1,786	58	11,945	1	528	14,316	477
Isobutane .....	1	4	4	–	4	12	0
Natural Gasoline .....	35	3,586	50	0	1	3,672	122
<b>Other Liquids</b> .....	<b>276</b>	<b>3,881</b>	<b>10,534</b>	<b>132</b>	<b>604</b>	<b>15,428</b>	<b>514</b>
Hydrogen/Biofuels/Other Hydrocarbons .....	251	1,198	1,502	61	296	3,308	110
Hydrogen .....	–	–	–	–	–	–	–
Biofuels .....	251	1,198	1,502	61	296	3,308	110
Fuel Ethanol .....	248	959	1,462	60	170	2,899	97
Biodiesel .....	3	239	40	2	127	410	14
Renewable Diesel Fuel .....	NA	NA	NA	NA	NA	NA	NA
Other Biofuels <sup>2</sup> .....	NA	NA	NA	NA	NA	NA	NA
Other Hydrocarbons .....	–	–	–	–	–	–	–
Unfinished Oils .....	19	2,477	7,434	61	150	10,141	338
Naphthas and Lighter .....	6	2,257	7,282	0	0	9,545	318
Kerosene and Light Gas Oils .....	13	220	152	61	149	596	20
Heavy Gas Oils .....	–	–	–	–	–	–	–
Residuum .....	–	–	–	–	–	–	–
Motor Gasoline Blend.Comp. (MGBC) .....	5	206	1,598	10	158	1,978	66
Reformulated .....	0	–	1	–	1	3	0
Conventional .....	5	206	1,597	10	157	1,976	66
Aviation Gasoline Blend. Comp. ....	–	–	–	–	–	–	–
<b>Finished Petroleum Products</b> .....	<b>1,931</b>	<b>846</b>	<b>69,682</b>	<b>17</b>	<b>8,963</b>	<b>81,440</b>	<b>2,715</b>
Finished Motor Gasoline .....	43	147	21,891	1	751	22,834	761
Reformulated .....	–	–	–	–	–	–	–
Conventional .....	43	147	21,891	1	751	22,834	761
Finished Aviation Gasoline .....	–	–	–	–	–	–	–
Kerosene-Type Jet Fuel .....	9	83	3,327	–	765	4,185	139
Kerosene .....	4	0	23	–	127	154	5
Distillate Fuel Oil .....	975	62	28,347	–	2,963	32,347	1,078
15 ppm sulfur and under .....	954	1	24,168	–	2,391	27,515	917
Greater than 15 ppm to 500 ppm sulfur .....	20	4	2,484	–	29	2,538	85
Greater than 500 ppm sulfur .....	–	57	1,694	–	543	2,294	76
Residual Fuel Oil .....	8	1	2,232	–	942	3,183	106
Naphtha for Petro. Feed. Use .....	–	–	–	–	–	–	–
Other Oils for Petro. Feed. Use .....	113	–	773	–	50	936	31
Special Naphthas .....	–	–	–	–	–	–	–
Lubricants .....	181	194	3,039	14	312	3,740	125
Waxes .....	91	21	22	0	3	137	5
Petroleum Coke .....	434	216	9,475	0	3,020	13,146	438
Asphalt and Road Oil .....	60	121	518	2	30	731	24
Miscellaneous Products .....	12	1	34	–	0	47	2
<b>Total</b> .....	<b>12,188</b>	<b>15,412</b>	<b>264,589</b>	<b>153</b>	<b>11,030</b>	<b>303,371</b>	<b>10,112</b>

-- = Not Applicable.

– = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

<sup>2</sup> Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

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

Sources: U.S. Census Bureau and EIA estimates.

**Table 31. Exports of Crude Oil and Petroleum Products by PAD District, October 2023**  
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
<b>Crude Oil<sup>1</sup></b> .....	<b>1</b>	<b>3,417</b>	<b>124,564</b>	<b>–</b>	<b>–</b>	<b>127,981</b>	<b>4,128</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>7,828</b>	<b>4,806</b>	<b>70,587</b>	<b>0</b>	<b>1,978</b>	<b>85,200</b>	<b>2,748</b>
Natural Gas Liquids .....	7,828	4,806	70,587	0	1,978	85,200	2,748
Ethane .....	2,146	1,081	10,402	–	1	13,630	440
Propane .....	4,831	60	46,846	0	1,116	52,854	1,705
Normal Butane .....	821	185	13,049	0	858	14,913	481
Isobutane .....	–	3	132	–	2	137	4
Natural Gasoline .....	30	3,477	158	0	1	3,666	118
<b>Other Liquids</b> .....	<b>354</b>	<b>4,663</b>	<b>8,363</b>	<b>72</b>	<b>783</b>	<b>14,234</b>	<b>459</b>
Hydrogen/Biofuels/Other Hydrocarbons .....	331	1,104	1,555	61	177	3,228	104
Hydrogen .....	–	–	–	–	–	–	–
Biofuels .....	331	1,104	1,555	61	177	3,228	104
Fuel Ethanol .....	331	973	1,281	61	132	2,777	90
Biodiesel .....	0	131	274	–	45	451	15
Renewable Diesel Fuel .....	NA	NA	NA	NA	NA	NA	NA
Other Biofuels <sup>2</sup> .....	NA	NA	NA	NA	NA	NA	NA
Other Hydrocarbons .....	–	–	–	–	–	–	–
Unfinished Oils .....	18	3,187	5,259	–	429	8,894	287
Naphthas and Lighter .....	5	3,097	5,154	–	401	8,656	279
Kerosene and Light Gas Oils .....	13	91	105	–	28	238	8
Heavy Gas Oils .....	–	–	–	–	–	–	–
Residuum .....	–	–	–	–	–	–	–
Motor Gasoline Blend.Comp. (MGBC) .....	5	371	1,548	11	176	2,112	68
Reformulated .....	1	–	21	–	4	26	1
Conventional .....	4	371	1,527	11	172	2,086	67
Aviation Gasoline Blend. Comp. ....	–	–	–	–	–	–	–
<b>Finished Petroleum Products</b> .....	<b>1,087</b>	<b>581</b>	<b>75,871</b>	<b>14</b>	<b>10,610</b>	<b>88,164</b>	<b>2,844</b>
Finished Motor Gasoline .....	78	158	24,427	–	871	25,533	824
Reformulated .....	–	–	–	–	–	–	–
Conventional .....	78	158	24,427	–	871	25,533	824
Finished Aviation Gasoline .....	–	–	–	–	–	–	–
Kerosene-Type Jet Fuel .....	14	86	3,768	–	672	4,540	146
Kerosene .....	4	–	322	–	–	327	11
Distillate Fuel Oil .....	36	67	28,422	–	4,879	33,404	1,078
15 ppm sulfur and under .....	16	49	23,429	–	3,820	27,314	881
Greater than 15 ppm to 500 ppm sulfur .....	19	–	2,959	–	327	3,305	107
Greater than 500 ppm sulfur .....	1	18	2,034	–	732	2,785	90
Residual Fuel Oil .....	4	0	2,973	–	517	3,495	113
Naphtha for Petro. Feed. Use .....	–	–	–	–	–	–	–
Other Oils for Petro. Feed. Use .....	–	–	1,304	–	338	1,642	53
Special Naphthas .....	–	–	–	–	–	–	–
Lubricants .....	229	165	2,578	12	88	3,071	99
Waxes .....	71	21	28	0	4	124	4
Petroleum Coke .....	469	77	11,578	0	3,210	15,335	495
Asphalt and Road Oil .....	168	7	449	2	32	658	21
Miscellaneous Products .....	13	1	22	0	0	36	1
<b>Total</b> .....	<b>9,269</b>	<b>13,467</b>	<b>279,385</b>	<b>87</b>	<b>13,371</b>	<b>315,579</b>	<b>10,180</b>

-- = Not Applicable.

– = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

<sup>2</sup> Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

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

Sources: U.S. Census Bureau and EIA estimates.

**Table 31. Exports of Crude Oil and Petroleum Products by PAD District, November 2023**  
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
<b>Crude Oil<sup>1</sup></b> .....	<b>1</b>	<b>3,524</b>	<b>114,341</b>	<b>0</b>	<b>2</b>	<b>117,868</b>	<b>3,929</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>6,154</b>	<b>5,752</b>	<b>70,779</b>	<b>3</b>	<b>992</b>	<b>83,681</b>	<b>2,789</b>
Natural Gas Liquids .....	6,154	5,752	70,779	3	992	83,681	2,789
Ethane .....	1,715	1,170	9,128	—	1	12,014	400
Propane .....	3,974	77	48,919	—	616	53,586	1,786
Normal Butane .....	416	124	12,523	0	369	13,433	448
Isobutane .....	—	2	69	—	4	74	2
Natural Gasoline .....	49	4,379	141	3	1	4,574	152
<b>Other Liquids</b> .....	<b>63</b>	<b>4,419</b>	<b>12,046</b>	<b>56</b>	<b>365</b>	<b>16,949</b>	<b>565</b>
Hydrogen/Biofuels/Other Hydrocarbons .....	34	986	1,851	53	184	3,108	104
Hydrogen .....	—	—	—	—	—	—	—
Biofuels .....	34	986	1,851	53	184	3,108	104
Fuel Ethanol .....	31	901	1,610	53	151	2,746	92
Biodiesel .....	3	84	241	—	33	361	12
Renewable Diesel Fuel .....	NA	NA	NA	NA	NA	NA	NA
Other Biofuels <sup>2</sup> .....	NA	NA	NA	NA	NA	NA	NA
Other Hydrocarbons .....	—	—	—	—	—	—	—
Unfinished Oils .....	26	3,275	5,887	0	11	9,199	307
Naphthas and Lighter .....	11	3,208	5,429	0	1	8,648	288
Kerosene and Light Gas Oils .....	15	68	458	0	10	551	18
Heavy Gas Oils .....	—	—	—	—	—	—	—
Residuum .....	—	—	—	—	—	—	—
Motor Gasoline Blend.Comp. (MGBC) .....	3	159	4,307	3	170	4,642	155
Reformulated .....	0	—	34	—	1	35	1
Conventional .....	3	159	4,273	3	169	4,607	154
Aviation Gasoline Blend. Comp. ....	—	—	—	—	—	—	—
<b>Finished Petroleum Products</b> .....	<b>1,871</b>	<b>601</b>	<b>76,522</b>	<b>10</b>	<b>9,599</b>	<b>88,604</b>	<b>2,953</b>
Finished Motor Gasoline .....	44	133	25,637	—	1,151	26,965	899
Reformulated .....	—	—	—	—	—	—	—
Conventional .....	44	133	25,637	—	1,151	26,965	899
Finished Aviation Gasoline .....	—	—	—	—	—	—	—
Kerosene-Type Jet Fuel .....	171	90	4,454	—	932	5,647	188
Kerosene .....	3	—	75	—	0	78	3
Distillate Fuel Oil .....	418	52	30,082	—	4,296	34,848	1,162
15 ppm sulfur and under .....	394	1	26,090	—	2,874	29,359	979
Greater than 15 ppm to 500 ppm sulfur .....	24	—	2,861	—	311	3,197	107
Greater than 500 ppm sulfur .....	—	51	1,131	—	1,111	2,293	76
Residual Fuel Oil .....	8	—	2,215	—	239	2,462	82
Naphtha for Petro. Feed. Use .....	—	—	—	—	—	—	—
Other Oils for Petro. Feed. Use .....	103	—	778	—	240	1,122	37
Special Naphthas .....	—	—	—	—	—	—	—
Lubricants .....	219	181	3,583	10	263	4,255	142
Waxes .....	76	21	18	0	3	118	4
Petroleum Coke .....	733	106	9,211	—	2,429	12,481	416
Asphalt and Road Oil .....	79	19	379	1	45	522	17
Miscellaneous Products .....	16	0	90	—	0	107	4
<b>Total</b> .....	<b>8,090</b>	<b>14,297</b>	<b>273,688</b>	<b>69</b>	<b>10,958</b>	<b>307,102</b>	<b>10,237</b>

-- = Not Applicable.

- = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

<sup>2</sup> Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

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

Sources: U.S. Census Bureau and EIA estimates.

**Table 31. Exports of Crude Oil and Petroleum Products by PAD District, December 2023**  
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
<b>Crude Oil<sup>1</sup></b> .....	<b>1</b>	<b>3,899</b>	<b>139,372</b>	<b>1</b>	<b>–</b>	<b>143,273</b>	<b>4,622</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>8,733</b>	<b>7,244</b>	<b>68,720</b>	<b>0</b>	<b>1,674</b>	<b>86,371</b>	<b>2,786</b>
Natural Gas Liquids .....	8,733	7,244	68,720	0	1,674	86,371	2,786
Ethane .....	1,999	2,617	7,019	–	–	11,635	375
Propane .....	5,962	48	49,205	–	1,287	56,502	1,823
Normal Butane .....	721	148	12,240	–	377	13,486	435
Isobutane .....	–	3	42	–	3	47	2
Natural Gasoline .....	50	4,428	215	0	6	4,700	152
<b>Other Liquids</b> .....	<b>59</b>	<b>3,325</b>	<b>14,767</b>	<b>61</b>	<b>428</b>	<b>18,640</b>	<b>601</b>
Hydrogen/Biofuels/Other Hydrocarbons .....	31	911	2,867	49	240	4,098	132
Hydrogen .....	–	–	–	–	–	–	–
Biofuels .....	31	911	2,867	49	240	4,098	132
Fuel Ethanol .....	27	845	2,595	49	192	3,707	120
Biodiesel .....	4	66	273	–	48	391	13
Renewable Diesel Fuel .....	NA	NA	NA	NA	NA	NA	NA
Other Biofuels <sup>2</sup> .....	NA	NA	NA	NA	NA	NA	NA
Other Hydrocarbons .....	–	–	–	–	–	–	–
Unfinished Oils .....	22	2,312	9,398	–	37	11,770	380
Naphthas and Lighter .....	6	2,257	8,611	–	7	10,880	351
Kerosene and Light Gas Oils .....	16	55	788	–	31	890	29
Heavy Gas Oils .....	–	–	–	–	–	–	–
Residuum .....	–	–	–	–	–	–	–
Motor Gasoline Blend.Comp. (MGBC) .....	7	101	2,501	12	151	2,772	89
Reformulated .....	1	–	21	–	–	22	1
Conventional .....	6	101	2,480	12	151	2,750	89
Aviation Gasoline Blend. Comp. ....	–	–	–	–	–	–	–
<b>Finished Petroleum Products</b> .....	<b>1,123</b>	<b>503</b>	<b>98,638</b>	<b>12</b>	<b>9,946</b>	<b>110,221</b>	<b>3,556</b>
Finished Motor Gasoline .....	80	81	29,936	1	1,237	31,335	1,011
Reformulated .....	–	–	–	–	–	–	–
Conventional .....	80	81	29,936	1	1,237	31,335	1,011
Finished Aviation Gasoline .....	–	–	–	–	–	–	–
Kerosene-Type Jet Fuel .....	21	111	7,081	–	606	7,820	252
Kerosene .....	8	0	25	–	0	33	1
Distillate Fuel Oil .....	31	41	35,659	–	3,612	39,343	1,269
15 ppm sulfur and under .....	11	1	31,599	–	3,377	34,989	1,129
Greater than 15 ppm to 500 ppm sulfur .....	19	1	2,684	–	33	2,738	88
Greater than 500 ppm sulfur .....	0	39	1,375	–	202	1,616	52
Residual Fuel Oil .....	4	–	3,271	–	51	3,327	107
Naphtha for Petro. Feed. Use .....	–	–	–	–	–	–	–
Other Oils for Petro. Feed. Use .....	110	–	1,165	–	200	1,475	48
Special Naphthas .....	–	–	–	–	–	–	–
Lubricants .....	280	179	3,289	10	516	4,273	138
Waxes .....	64	14	25	–	4	107	3
Petroleum Coke .....	447	57	17,786	–	3,692	21,982	709
Asphalt and Road Oil .....	60	20	310	1	26	418	13
Miscellaneous Products .....	17	1	90	0	1	108	3
<b>Total</b> .....	<b>9,915</b>	<b>14,971</b>	<b>321,496</b>	<b>74</b>	<b>12,048</b>	<b>358,505</b>	<b>11,565</b>

-- = Not Applicable.

– = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

<sup>2</sup> Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

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

Sources: U.S. Census Bureau and EIA estimates.