

**Table 4b. U.S. Hydrocarbon Gas Liquids (HGL) and Petroleum Refinery Balances (million barrels per day, except inventories and utilization factor)**

U.S. Energy Information Administration | Short-Term Energy Outlook - November 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
<b>HGL Production</b>															
<b>Natural Gas Processing Plants</b>															
Ethane .....	1.35	1.41	1.36	1.58	1.59	1.70	1.75	1.84	1.85	1.87	1.92	1.99	1.43	1.72	1.91
Propane .....	1.18	1.22	1.25	1.30	1.29	1.37	1.44	1.48	1.51	1.55	1.58	1.60	1.24	1.39	1.56
Butanes .....	0.63	0.66	0.68	0.69	0.69	0.74	0.77	0.79	0.80	0.83	0.85	0.85	0.67	0.75	0.83
Natural Gasoline (Pentanes Plus) .....	0.41	0.45	0.48	0.46	0.44	0.50	0.55	0.53	0.52	0.56	0.58	0.57	0.45	0.51	0.56
<b>Refinery and Blender Net Production</b>															
Ethane/Ethylene .....	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.00
Propane .....	0.29	0.32	0.30	0.32	0.30	0.31	0.31	0.29	0.28	0.30	0.30	0.30	0.31	0.30	0.30
Propylene (refinery-grade) .....	0.27	0.29	0.27	0.30	0.28	0.29	0.28	0.28	0.28	0.29	0.28	0.29	0.28	0.28	0.28
Butanes/Butylenes .....	-0.09	0.27	0.16	-0.22	-0.11	0.24	0.19	-0.20	-0.08	0.26	0.19	-0.20	0.03	0.03	0.04
<b>Renewable Fuels and Oxygenate Plant Net Production</b>															
Natural Gasoline (Pentanes Plus) .....	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
<b>HGL Net Imports</b>															
Ethane .....	-0.15	-0.16	-0.20	-0.19	-0.22	-0.29	-0.26	-0.30	-0.31	-0.31	-0.31	-0.33	-0.18	-0.27	-0.31
Propane/Propylene .....	-0.80	-0.73	-0.69	-0.82	-0.72	-0.81	-0.91	-0.88	-0.95	-0.95	-0.91	-0.95	-0.76	-0.83	-0.94
Butanes/Butylenes .....	-0.08	-0.13	-0.11	-0.11	-0.10	-0.20	-0.16	-0.20	-0.25	-0.27	-0.28	-0.26	-0.11	-0.16	-0.27
Natural Gasoline (Pentanes Plus) .....	-0.18	-0.18	-0.16	-0.14	-0.18	-0.23	-0.18	-0.22	-0.26	-0.27	-0.30	-0.27	-0.17	-0.20	-0.28
<b>HGL Refinery and Blender Net Inputs</b>															
Butanes/Butylenes .....	0.43	0.30	0.33	0.50	0.45	0.30	0.32	0.51	0.41	0.30	0.33	0.51	0.39	0.40	0.39
Natural Gasoline (Pentanes Plus) .....	0.16	0.18	0.18	0.19	0.15	0.16	0.19	0.18	0.17	0.18	0.18	0.18	0.18	0.17	0.18
<b>HGL Consumption</b>															
Ethane/Ethylene .....	1.20	1.25	1.15	1.37	1.44	1.45	1.51	1.54	1.54	1.55	1.63	1.69	1.24	1.49	1.60
Propane .....	1.05	0.61	0.68	0.87	1.16	0.60	0.64	0.97	1.08	0.58	0.70	1.03	0.80	0.84	0.85
Propylene (refinery-grade) .....	0.34	0.32	0.28	0.32	0.32	0.31	0.30	0.30	0.31	0.31	0.30	0.30	0.31	0.31	0.30
Butanes/Butylenes .....	0.14	0.23	0.20	0.16	0.20	0.21	0.23	0.21	0.19	0.26	0.25	0.22	0.18	0.22	0.23
Natural Gasoline (Pentanes Plus) .....	0.09	0.08	0.09	0.15	0.10	0.09	0.13	0.08	0.08	0.06	0.06	0.07	0.10	0.10	0.07
<b>HGL Inventories (million barrels)</b>															
Ethane .....	49.66	51.90	51.76	57.72	51.41	47.90	45.60	46.47	45.34	48.44	47.65	47.66	52.78	47.83	47.28
Propane .....	40.18	56.92	71.42	62.21	33.83	56.51	72.10	63.38	40.33	67.01	90.08	81.36	62.21	63.38	81.36
Propylene (refinery-grade) .....	3.66	3.86	4.90	4.61	3.82	3.64	3.88	4.08	3.20	3.04	3.00	3.64	4.61	4.08	3.64
Butanes/Butylenes .....	31.28	56.79	75.55	47.45	32.02	55.37	78.80	48.47	37.58	61.25	77.19	46.36	47.45	48.47	46.36
Natural Gasoline (Pentanes Plus) .....	21.49	20.55	23.40	20.11	19.36	18.59	20.20	23.00	21.68	23.78	25.08	26.99	20.11	23.00	26.99
<b>Refinery and Blender Net Inputs</b>															
Crude Oil .....	15.90	17.13	16.60	16.72	16.41	17.14	17.32	16.75	16.49	17.32	17.45	16.88	16.59	16.91	17.04
Hydrocarbon Gas Liquids .....	0.59	0.48	0.51	0.69	0.61	0.47	0.51	0.69	0.58	0.48	0.52	0.69	0.57	0.57	0.57
Other Hydrocarbons/Oxygenates .....	1.16	1.23	1.22	1.20	1.16	1.23	1.23	1.27	1.20	1.28	1.29	1.29	1.20	1.22	1.27
Unfinished Oils .....	0.26	0.32	0.38	0.45	0.12	0.42	0.42	0.36	0.25	0.43	0.46	0.38	0.35	0.33	0.38
Motor Gasoline Blend Components .....	0.35	0.64	0.67	0.24	0.34	0.70	0.62	0.48	0.57	0.84	0.66	0.49	0.47	0.54	0.64
Aviation Gasoline Blend Components .....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Refinery and Blender Net Inputs .....	18.25	19.80	19.37	19.31	18.63	19.96	20.12	19.55	19.09	20.35	20.38	19.73	19.19	19.57	19.89
<b>Refinery Processing Gain</b>															
.....	1.11	1.15	1.08	1.12	1.11	1.12	1.16	1.12	1.08	1.12	1.14	1.13	1.11	1.13	1.12
<b>Refinery and Blender Net Production</b>															
Hydrocarbon Gas Liquids .....	0.48	0.89	0.73	0.40	0.48	0.84	0.78	0.38	0.49	0.86	0.77	0.39	0.63	0.62	0.63
Finished Motor Gasoline .....	9.53	10.08	10.04	10.15	9.79	10.14	10.15	10.24	9.94	10.33	10.28	10.32	9.95	10.08	10.22
Jet Fuel .....	1.63	1.74	1.75	1.69	1.72	1.83	1.90	1.75	1.69	1.80	1.88	1.77	1.70	1.80	1.79
Distillate Fuel .....	4.75	5.17	4.93	5.25	4.81	5.25	5.26	5.21	5.06	5.37	5.43	5.32	5.02	5.13	5.30
Residual Fuel .....	0.46	0.41	0.43	0.41	0.44	0.40	0.41	0.41	0.44	0.44	0.40	0.40	0.43	0.42	0.42
Other Oils (a) .....	2.51	2.65	2.56	2.53	2.49	2.61	2.77	2.67	2.56	2.66	2.76	2.65	2.56	2.64	2.66
Total Refinery and Blender Net Production .....	19.36	20.95	20.44	20.43	19.74	21.08	21.27	20.67	20.17	21.47	21.52	20.86	20.30	20.70	21.01
<b>Refinery Distillation Inputs</b>															
.....	16.25	17.44	16.91	17.01	16.76	17.50	17.65	16.97	16.69	17.44	17.63	17.08	16.90	17.22	17.21
<b>Refinery Operable Distillation Capacity</b>															
.....	18.62	18.58	18.54	18.52	18.57	18.60	18.60	18.60	18.60	18.60	18.63	18.65	18.56	18.59	18.62
<b>Refinery Distillation Utilization Factor</b>															
.....	0.87	0.94	0.91	0.92	0.90	0.94	0.95	0.91	0.90	0.94	0.95	0.92	0.91	0.93	0.92

- = no data available

(a) "Other Oils" includes aviation gasoline blend components, finished aviation gasoline, kerosene, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt and road oil, still gas, and miscellaneous products.

**Notes:** The approximate break between historical and forecast values is shown with historical data printed in bold; estimates and forecasts in italics.

**Historical data:** Latest data available from Energy Information Administration databases supporting the following reports: *Petroleum Supply Monthly*, DOE/EIA-0109; *Petroleum Supply Annual*, DOE/EIA-0340/2; *Weekly Petroleum Status Report*, DOE/EIA-0208.

Minor discrepancies with published historical data are due to independent rounding.

**Projections:** EIA Regional Short-Term Energy Model.