

Understanding changes to EIA's hydrocarbon gas liquids (HGL) supply/disposition tables



September 13, 2017 | Washington, D.C.

By

Warren Wilczewski, Office of Petroleum, Natural Gas, & Biofuels Analysis

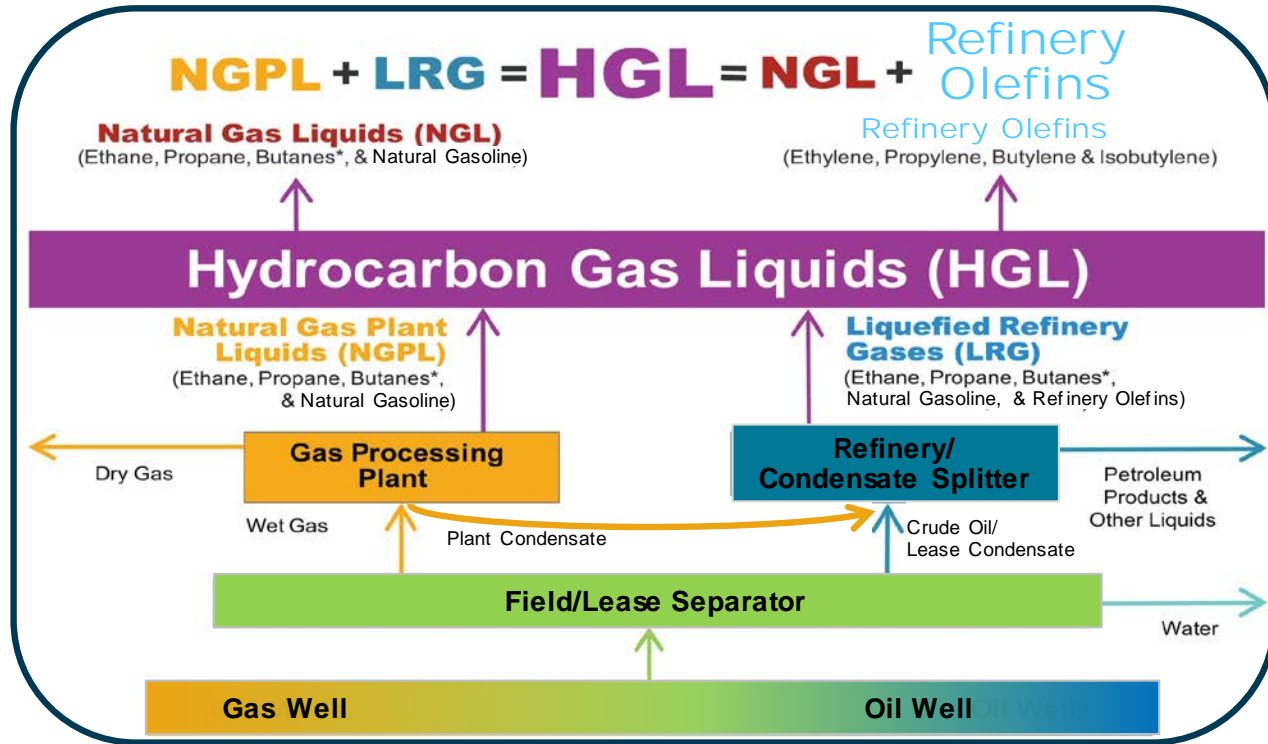
EIA mission: independent statistics and analysis

- EIA was created by the U.S. Congress in 1977
- EIA collects, analyzes, and disseminates independent and impartial energy information to promote sound policymaking, efficient markets, and public understanding of energy and its interaction with the economy and the environment
- EIA is the Nation's premier source of energy information and, by law, its data, analyses, and forecasts are independent of approval by any other officer or employee of the U.S. Government
- EIA does not propose or advocate any policy positions

Key takeaways

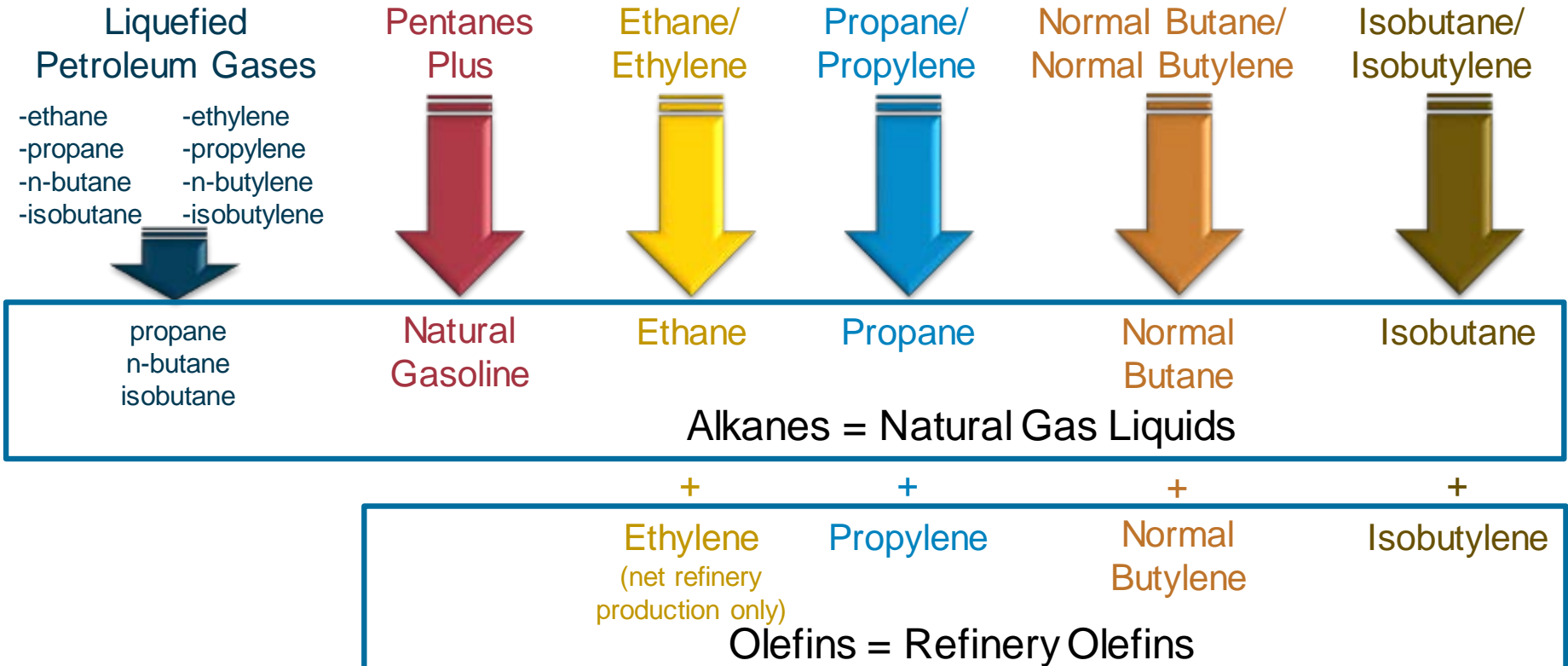
- EIA implemented the alkanes/olefins split in its monthly tables back to January 2010 – both on the web and in the Petroleum Supply Monthly, on August 31, alongside the release of the 2016 Petroleum Supply Annual
- Surveys remain the same, and the data remain the same, only the labels and the table layouts have changed
- Based on industry stakeholder insight, EIA developed an allocation methodology for alkanes and olefins in stocks to generate datasets that do not precisely reflect data collected through surveys
- The only data that will no longer appear in EIA tables is ethylene, with the exception of refinery production of ethylene

EIA's HGL terminology bridges how the commodities are supplied, marketed and consumed



*Butanes include normal butane and isobutane.

EIA's revised monthly data tables for HGL affect all natural gas liquids (alkanes) and refinery olefins (olefins)



Where it all began...

Supply and Disposition

Area: U.S.

Latest Periods:

May 2017 (Current)

Unit: Thousand Barrels per Day

Click a table value for series history 999

[Download Series History](#) [Definitions, Sources & Notes](#)

Show Data By: <input checked="" type="radio"/> Product <input type="radio"/> Area	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels & Oxygenate Plant Net Production	Refinery & Blender Net Production	Imports	Net Receipts	Adjustments	Stock Change	Refinery & Blender Net Inputs	Exports	Products Supplied	
Crude Oil & Petroleum Products	12,890	1,174	21,036	10,628		516	170	19,911	6,142	20,021	
Crude Oil	9,169	--	--	8,397		305	-364	17,212	1,023	0	
Natural Gas Plant Liquids and Liquefied Refinery Gases	3,721	-21	908	166		--	562	484	1,332	2,397	
Pentanes Plus	449	-21	--	17		--	-31	191	176	109	
Liquefied Petroleum Gases	3,272	--	908	148		--	593	292	1,156	2,288	
Ethane/Ethylene	1,405	--	8	-		--	6	-	191	1,215	
Propane/Propylene	1,211	--	622	120		--	235	-	855	863	
Normal Butane/Butylene	283	--	285	16		--	349	65	101	68	
Isobutane/Isobutylene	374	--	-6	12		--	3	227	8	141	

market calls this Natural Gasoline

LPG? Not really, since it includes ethane and all refinery olefins

Mixed products from multiple sources of production reporting combined product supplied numbers that in fact serve completely different markets

...where we are now

Supply and Disposition

Area: ▾

Latest
Periods:

▾

Unit: ▾

Click a table value
for series history

[Download Series History](#)

[Definitions, Sources & Notes](#)

Show Data By:	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels & Oxygenate Plant Net Production	Refinery & Blender Net Production	Imports	Net Receipts	Adjustments	Stock Change	Refinery & Blender Net Inputs	Exports	Products Supplied	
<input checked="" type="radio"/> Product <input type="radio"/> Area											
Crude Oil & Petroleum Products	12,849	1,186	21,321	10,240		393	-824	20,170	6,148	20,494	
Crude Oil	9,097	--	--	8,010		159	-725	17,205	786	0	
Hydrocarbon Gas Liquids	3,752	-22	915	152		--	660	473	1,225	2,439	
Natural Gas Liquids	3,752	-22	630	120		--	647	473	1,225	2,135	
Ethane	1,412	--	5	-		--	-3		120	1,300	
Propane	1,216	--	333	93		--	356		742	544	
Normal Butane	284	--	297	11		--	270	64	154	104	
Isobutane	374	--	-5	11		--	-9	219	3	167	
Natural Gasoline	467	-22		6		--	34	191	206	20	
Refinery Olefins	--	--	285	32		--	13	--	--	304	
Ethylene	--	--	1	--		--	0	--	--	1	
Propylene	--	--	282	23		--	8	--	--	298	
Butylene	--	--	1	8		--	4	--	--	5	
Isobutylene	--	--	1	-		--	0	--	--	1	

ALKANES

OLEFINS

Source: EIA, [Supply and Disposition table](#)

The new tables/categories fixed what needed fixing

Exports by Destination

Product: Liquefied Petroleum Gases Period-Unit: Annual-Thousand Barrels per Day

Product	2013	2014	2015	2016	View History		
Total All Countries	332	537	783	1,004	1973-2016		
Angola					2003-2012		
Anguilla					2012-2012		
Antigua and Barbuda		0	0	0	2012-2016		
Argentina	0	1	0	1	1993-2016		
Aruba	8	20	25	26	2007-2016		
Australia	0	5	0	6	1993-2016		
Bahama	1	2	1	1	1993-2016		
Bahrain					1996-2009		
Barbados				0	2003-2016		
Belgium			1	1	1993-2016		
Belize	0	0			2011-2015		
Benin				1	2015-2016		
Bolivia				0	2016-2016		
Bosnia and Herzegovina				0	2015-2015		
Brazil	12	15	42	50	47	45	1993-2016
Bulgaria							2007-2007
Burma							2007-2008
Bermuda		0	0	0	0	0	1995-2016
Cameroon							1995-2004
Canada	19	19	23	64	87	91	1993-2016

Exports by Destination

Product: Propane Period-Unit: Monthly-Thousand Barrels per Day

Product	Mar-17	Apr-17	May-17	Jun-17	View History		
Total All Countries	1,010	893	855	742	2004-2017		
Albania					2016-2016		
Angola					2005-2012		
Anguilla					2012-2012		
Antigua and Barbuda					2012-2016		
Argentina					2005-2016		
Aruba	73	38	37	19	2008-2017		
Australia	19	0	36	19	2004-2017		
Bahama	1	0	1	1	2004-2017		
Barbados					2006-2016		
Belgium					2004-2016		
Belize					2012-2012		
Benin					2015-2015		
Brazil					2004-2017		
Bulgaria		1			2007-2017		
Burma					2007-2008		
Bermuda	0	0	0	0	2010-2017		
Canada	6	5	10	12	14	11	2004-2017
Cayman Islands							2007-2017
Chile	29	19	27	44	45	2005-2017	
China	145	146	136	106	128	19	2004-2017

Source: EIA, [Exports by Destination](#)

Surveys remain the same, and the data remain the same, only the labels and the table layouts have changed

Natural Gas Plant Field Production

Area: Period-Unit:

[Download Series History](#) [Definitions, Sources & Notes](#)

Show Data By:		Graph	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	View History
<input checked="" type="radio"/> Product	<input type="radio"/> Area	Clear							
Natural Gas Liquids		<input type="checkbox"/>	3,365	3,604	3,644	3,633	3,721	3,752	2010-2017
Ethane		<input type="checkbox"/>	1,230	1,377	1,390	1,354	1,405	1,412	2010-2017
Propane		<input type="checkbox"/>	1,129	1,176	1,186	1,195	1,211	1,216	2007-2017
Normal Butane		<input type="checkbox"/>	285	310	325	296	283	284	2007-2017
Isobutane		<input type="checkbox"/>	323	323	317	352	374	374	2007-2017
Natural Gasoline		<input type="checkbox"/>	398	417	426	436	449	467	2010-2017
Liquefied Petroleum Gases		<input type="checkbox"/>	1,737	1,810	1,828	1,843	1,868		1981-2017

Click on the source key icon to learn how to download series into Excel, or to embed a chart or map on your website.

Source: EIA, [Natural Gas Plant Field Production](#)

Surveys remain the same, and the data remain the same, only the labels and the table layouts have changed

Natural Gas Plant Field Production

Area: U.S. Period-Unit: Monthly-Thousand Barrels per Day

Show Data By:		Graph	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	View History
Product		Clear							
Total			11,262	11,065	11,492	12,021	12,343	12,475	2005-2017
Hydrocarbon Gas Liquids			353	412	679	857	908	915	2008-2017
Natural Gas Liquids			92	181	396	553	611	630	2010-2017
Ethane			2	9	2	5	7	5	2005-2017
Propane			298	281	295	298	324	333	2005-2017
Normal Butane			-197	-114	86	252	287	297	2005-2017
Isobutane			-10	4	14	-1	-7	-5	2005-2017
Refinery Olefins			261	231	283	304	297	285	2010-2017
Ethylene			1	1	1	1	1	1	2005-2017
Propylene			266	262	291	303	298	282	2005-2017
Butylene			-7	-32	-11	-2	-2	1	2005-2017
Isobutylene			1	1	1	1	1	1	2005-2017
Liquefied Refinery Gases			353	412	679	857	908		2005-2017
Ethane/Ethylene			3	10	2	6	8		2005-2017
Propane/Propylene			564	543	586	601	622		2005-2017
Normal Butane/Butylene			-204	-146	75	250	285		2005-2017
Isobutane/Isobutylene			-10	5	15	0	-6		2005-2017

Source: EIA, [Refinery Net Production](#)

Surveys remain the same, and the data remain the same, only the labels and the table layouts have changed

Natural Gas Plant Field Production

Area: **Refinery Net Production**

Refinery & Blender Net Input

Area: U.S. Period-Unit: Monthly-Thousand Barrels

Show Data By: Product Area

	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	View History
Total	555,215	508,662	583,194	582,317	617,255	605,099	1981-2017
Crude Oil	500,013	435,294	496,878	509,100	533,575	516,149	1981-2017
Hydrcarbon Gas Liquids	20,141	16,420	16,070	14,315	14,994	14,200	1981-2017
Natural Gas Liquids	20,141	16,420	16,070	14,315	14,994	14,200	2010-2017
Normal Butane	9,155	6,826	4,897	3,335	2,028	1,926	2009-2017
Isobutane	6,511	5,405	5,880	6,196	7,034	6,559	2009-2017
Natural Gasoline	4,475	4,189	5,293	4,784	5,932	5,715	2010-2017
Pentanes Plus	4,475	4,189	5,293	4,784	5,932	5,715	1981-2017
Liquefied Petroleum Gases	15,666	12,231	10,777	9,531	9,062		1981-2017

Source: EIA, [Refinery & Blender Net Input](#)

Surveys remain the same, and the data remain the same, only the labels and the table layouts have changed

Natural Gas Plant Field Production

Ar Refinery Net Production

Refinery & Blender Net Input

Movements by Pipeline between PAD Districts

Area: PADD 1 to PADD 2 Period-Unit: Monthly-Thousand Barrels

Download Series History Definitions, Sources & Notes

Show Data By: Product Areas Graph Clear

	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	View History
Crude Oil and Petroleum Products							1986-2017
Crude Oil	85	81	78	58	66	52	1986-2017
Petroleum Products	12,147	10,985	13,415	14,033	14,400	13,866	1986-2017
Hydrocarbon Gas Liquids	3,940	3,264	4,248	4,277	4,445	4,273	2005-2017
Natural Gas Liquids	3,940	3,264	4,248	4,277	4,445	4,273	2010-2017
Ethane	3,867	3,191	4,175	4,204	4,372	4,200	2013-2017
Propane	45	45	45	45	45	45	2005-2017
Normal Butane	5	5	5	5	5	5	2005-2017
Isobutane	13	13	13	13	13	13	2008-2017
Natural Gasoline	10	10	10	10	10	10	2010-2017
Pentanes Plus	10	10	10	10	10	10	2009-2017
Liquefied Petroleum Gases	3,930	3,254	4,238	4,267	4,435		1986-2017
Ethane/Ethylene	3,867	3,191	4,175	4,204	4,372		2013-2017
Propane/Propylene	45	45	45	45	45		2005-2017
Isobutane/Isobutylene	13	13	13	13	13		2008-2017
Normal Butane/Butylene	5	5	5	5	5		2005-2017

Source: EIA, [Movements by Pipeline between PAD Districts – PADD 1 to PADD 2](#)

Surveys remain the same, and the data remain the same, only the labels and the table layouts have changed

Natural Gas Plant Field Production

Ar Refinery Net Production

Refinery & Blender Net Input

Movements by Pipeline between PAD Districts

Movements of Crude Oil and Selected Products by Rail between PAD Districts

Area: PADD 2 to PADD 1 Period-Unit: Monthly-Thousand Barrels

[Download Series History](#) [Definitions, Sources & Notes](#)

Show Data By:	Graph	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	View History
<input checked="" type="radio"/> Product <input type="radio"/> Areas	Clear							
Crude Oil		4,610	2,858	2,921	2,770	1,447	2,280	2010-2017
Propane		1,857	1,166	1,117	978	971	712	2010-2017
Propylene		152	393	122	232	327	405	2010-2017
Normal Butane		460	258	490	198	263	78	2010-2017
Isobutane		257	177	317	279	101	256	2010-2017
Fuel Ethanol		10,066	7,935	9,375	8,440	8,443	9,570	2010-2017
Biodiesel		176	91	126	35	53	53	2010-2017
Petroleum Coke			157	636	432	816	345	2010-2017
Asphalt and Road Oil		291	30	169	218	685	604	2010-2017

Click on the source key icon to learn how to download series into Excel, or to embed a chart or map on your website.

-- = No Data Reported; -- = Not Applicable; NA = Not Available; W = Withheld to avoid disclosure of individual company data.

Notes: Rail movements of crude oil are estimates based on EIA analysis of data from the Surface Transportation Board and other information. See [movements of crude oil by rail](#) for movements by rail within PADDs and to/from Canada. See Definitions, Sources, and Notes link above for more information on this table.

Release Date: 08/31/2017

Next Release Date: 09/29/2017

Source: EIA, [Movements of Crude Oil and Selected Products by Rail between PAD Districts](#)

Natural gas processing plant stocks are alkanes-only

Stocks by Type

Area: Period-Unit:
 Stock Type:

[Download Series History](#) [Definitions, Sources & Notes](#)

Show Data By: Product Stock Area Type

	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	View History
All Oils (Excluding Crude Oil)	5,268	4,815	5,158	4,874	6,114	6,287	1993-2017
Hydrocarbon Gas Liquids	5,268	4,815	5,158	4,874	6,114	6,287	1993-2017
Natural Gas Liquids	5,268	4,815	5,158	4,874	6,114	6,287	2010-2017
Ethane	598	735	1,038	815	811	573	2010-2017
Propane	2,647	2,328	2,197	1,898	2,478	2,579	2010-2017
Normal Butane	823	616	782	1,091	1,538	1,838	2010-2017
Isobutane	670	674	679	561	686	717	2010-2017
Natural Gasoline	530	462	462	509	601	580	2010-2017
Pentanes Plus	530	462	462	509	601	580	1993-2017
Liquefied Petroleum Gases	4,738	4,353	4,696	4,365	5,513		1993-2017
Ethane/Ethylene	598	735	1,038	815	811		1993-2017
Propane/Propylene	2,647	2,328	2,197	1,898	2,478		1993-2017
Normal Butane/Butylene	823	616	782	1,091	1,538		1993-2017
Isobutane/Butylene	670	674	679	561	686		1993-2017

Click on the source key icon to learn how to download series into Excel, or to embed a chart or map on your website.

- Though EIA survey product codes for natural gas plants collect data on alkane/olefin mixes, natural gas plants do not produce olefins
- Therefore, all natural gas plant stocks are of alkanes only

Source: EIA, [Stocks by Type – Natural Gas Processing Plant](#)

Pipeline stocks of HGL are nearly wholly alkanes

Stocks by Type

Area: Period-Unit:
 Stock Type:

[Download Series History](#) [Definitions, Sources & Notes](#)

Show Data By: Product Stock Area Type

	Graph	Clear	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	View History
Crude Oil and Petroleum Products		<input type="checkbox"/>	129,849	125,328	121,012	124,010	125,772	124,995	2008-2017
All Oils (Excluding Crude Oil)		<input type="checkbox"/>	129,849	125,328	121,012	124,010	125,772	124,995	1993-2017
Hydrocarbon Gas Liquids		<input type="checkbox"/>	34,062	33,675	33,074	32,682	32,628	32,866	2008-2017
Natural Gas Liquids		<input type="checkbox"/>	34,062	33,675	33,074	32,682	32,628	32,866	2010-2017
Ethane		<input type="checkbox"/>	8,301	8,379	8,026	7,949	8,369	8,455	2010-2017
Propane		<input type="checkbox"/>	11,621	11,256	10,694	10,618	9,907	10,052	2010-2017
Normal Butane		<input type="checkbox"/>	2,816	2,413	2,574	2,573	3,149	2,886	2010-2017
Isobutane		<input type="checkbox"/>	1,538	1,692	1,752	1,767	1,645	1,551	2010-2017
Natural Gasoline		<input type="checkbox"/>	9,786	9,935	10,028	9,775	9,558	9,922	2010-2017
Pentanes Plus		<input type="checkbox"/>	9,786	9,935	10,028	9,775	9,558	9,922	1993-2017
Liquefied Petroleum Gases		<input type="checkbox"/>	24,276	23,740	23,046	22,907	23,070		1993-2017
Ethane/Ethylene		<input type="checkbox"/>	8,301	8,379	8,026	7,949	8,369		1993-2017
Propane/Propylene		<input type="checkbox"/>	11,621	11,256	10,694	10,618	9,907		1993-2017
Normal Butane/Butylene		<input type="checkbox"/>	2,816	2,413	2,574	2,573	3,149		1993-2017
Isobutane/Butylene		<input type="checkbox"/>	1,538	1,692	1,752	1,767	1,645		1993-2017

- Based on stakeholder feedback, EIA has determined at best minor quantities of olefins are moved by pipelines that respond to EIA's surveys
- All stocks of mixed alkanes/olefins in pipelines have therefore been moved to the alkanes-only categories

Source: EIA, [Stocks by Type – Pipeline](#)

Bulk Terminal surveys, for the most part, already collected olefins stocks

Stocks by Type

Area: Period-Unit:
 Stock Type:

Download Series History		Definitions, Sources & Notes									
Show Data By:											
<input checked="" type="radio"/> Product <input type="radio"/> Stock <input type="radio"/> Area		<input type="button" value="Graph"/> <input type="button" value="Clear"/>		Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	View History	
Crude Oil and Petroleum Products		<input type="checkbox"/>	<input type="checkbox"/>	460,933	444,255	424,012	433,451	444,130	450,198	2008-2017	
All Oils (Excluding Crude Oil)		<input type="checkbox"/>	<input type="checkbox"/>	460,933	444,255	424,012	433,451	444,130	450,198	1993-2017	
Hydrocarbon Gas Liquids		<input type="checkbox"/>	<input type="checkbox"/>	109,930	99,445	95,393	101,036	116,041	134,640	2008-2017	
Natural Gas Liquids		<input type="checkbox"/>	<input type="checkbox"/>	106,276	97,026	93,056	97,924	113,534	132,017	2010-2017	
Ethane		<input type="checkbox"/>	<input type="checkbox"/>	39,388	40,315	41,711	43,254	42,437	42,529	2010-2017	
Propane		<input type="checkbox"/>	<input type="checkbox"/>	37,439	31,012	25,590	24,191	31,497	41,724	2010-2017	
Normal Butane		<input type="checkbox"/>	<input type="checkbox"/>	13,278	11,136	11,964	17,261	26,611	33,760	2010-2017	
Refinery Grade Butane		<input type="checkbox"/>	<input type="checkbox"/>	3,340	2,266	2,413	3,667	6,928	10,554	2005-2017	
Isobutane		<input type="checkbox"/>	<input type="checkbox"/>	2,823	3,171	3,641	3,951	4,476	4,622	2010-2017	
Natural Gasoline		<input type="checkbox"/>	<input type="checkbox"/>	13,348	11,392	10,150	9,267	8,513	9,382	2010-2017	
Refinery Olefins		<input type="checkbox"/>	<input type="checkbox"/>	3,654	2,419	2,337	3,112	2,507	2,623	2010-2017	
Ethylene		<input type="checkbox"/>	<input type="checkbox"/>	0	0	0	0	0		2005-2017	
Propylene		<input type="checkbox"/>	<input type="checkbox"/>	3,654	2,419	2,337	3,112	2,507	2,623	2010-2017	
Pentanes Plus		<input type="checkbox"/>	<input type="checkbox"/>	13,348	11,392	10,150	9,267	8,513	9,382	1993-2017	
Liquefied Petroleum Gases		<input type="checkbox"/>	<input type="checkbox"/>	96,582	88,053	85,243	91,769	107,528		1993-2017	
Ethane/Ethylene		<input type="checkbox"/>	<input type="checkbox"/>	39,388	40,315	41,711	43,254	42,437		1993-2017	
Propane/Propylene		<input type="checkbox"/>	<input type="checkbox"/>	41,093	33,431	27,927	27,303	34,004		1993-2017	
Propylene (Nonfuel Use)		<input type="checkbox"/>	<input type="checkbox"/>	3,654	2,419	2,337	3,112			2004-2017	
Normal Butane/Butylene		<input type="checkbox"/>	<input type="checkbox"/>	13,278	11,136	11,964	17,261	26,611		1993-2017	
Isobutane/Butylene		<input type="checkbox"/>	<input type="checkbox"/>	2,823	3,171	3,641	3,951	4,476		1993-2017	

- EIA surveys bulk terminals on the mixed alkane/olefins codes, but also collects separate data on propylene and ethylene stocks
- Propane stocks are therefore now reported as prior propane/propylene MINUS the propylene portion
- Ethane stocks are the ethane/ethylene stocks MINUS the ethylene.
- The Ethylene will no longer be reported
- Based on stakeholder feedback, stocks of butanes/butylenes are assumed to be of alkanes only
- Pentanes Plus stocks = Natural Gasoline stocks

Source: EIA, [Stocks by Type – Bulk Terminal](#)

Refinery stocks required a more involved approach

Stocks by Type

Area: Period-Unit:
 Stock Type:

[Download Series History](#) [Definitions, Sources & Notes](#)

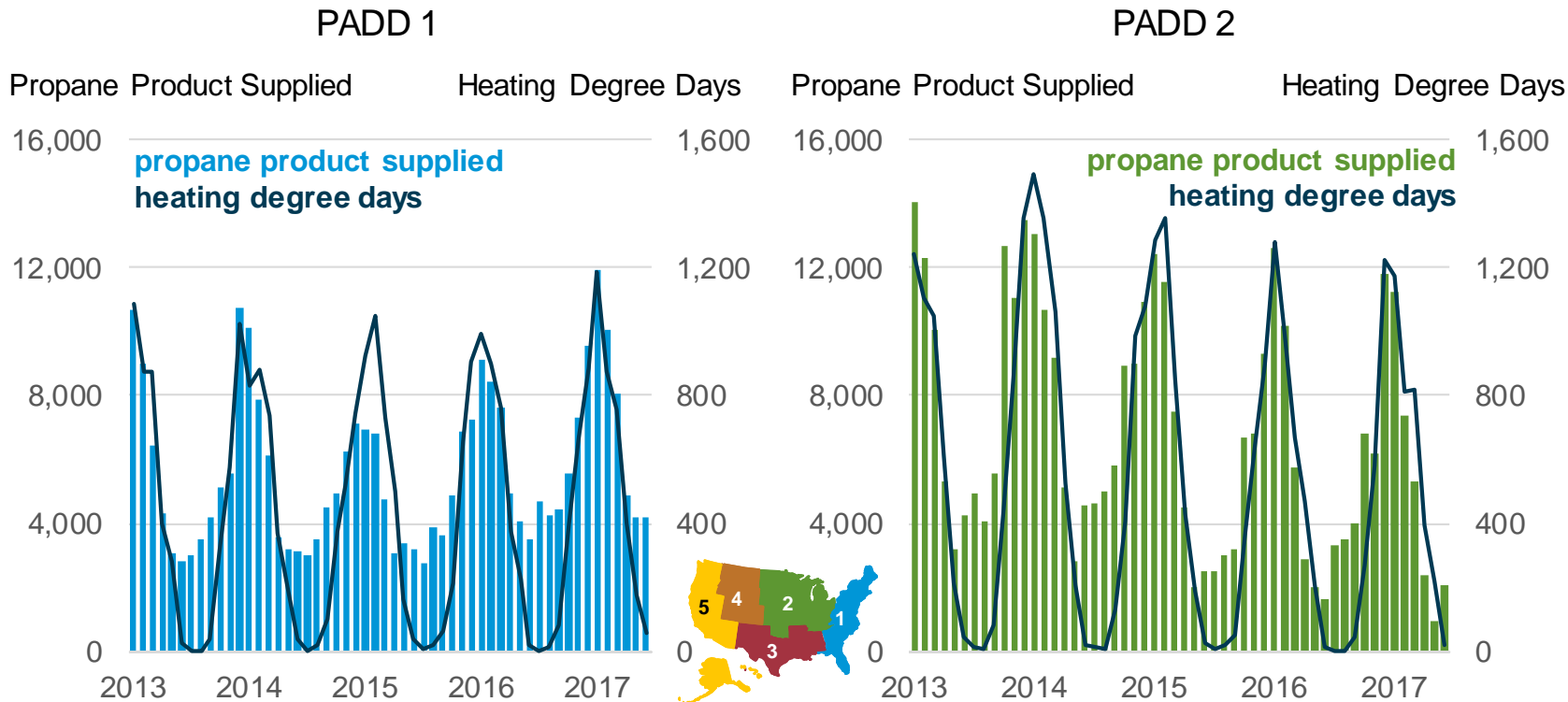
Show Data By: Product Stock Area Type

	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	View History
Crude Oil and Petroleum Products	352,679	355,520	355,056	353,947	357,790	347,115	1993-2017
Hydrocarbon Gas Liquids	16,152	15,946	14,453	15,344	16,003	16,797	2008-2017
Natural Gas Liquids	11,364	12,682	11,198	13,164	12,788	13,480	2010-2017
Ethane	150	160	151	148	184	164	2010-2017
Propane	1,802	2,413	1,720	1,827	2,324	2,693	2010-2017
Normal Butane	5,508	5,832	5,520	7,328	6,938	7,840	2010-2017
Isobutane	3,021	3,250	2,954	2,894	2,469	2,114	2010-2017
Natural Gasoline	883	1,027	853	967	873	669	2010-2017
Refinery Olefins	4,788	3,264	3,255	2,180	3,215	3,317	2010-2017
Ethylene	0	0	0	0	0	0	2010-2017
Propylene	2,279	1,163	1,440	1,240	1,447	1,405	2010-2017
Butylene	2,468	2,079	1,773	905	1,746	1,873	2010-2017
Isobutylene	41	22	42	35	22	39	2010-2017
Pentanes Plus	883	1,027	853	967	873	669	1993-2017
Liquefied Petroleum Gases	15,269	14,919	13,600	14,377	15,130		1993-2017
Ethane/Ethylene	150	160	151	148	184		1993-2017
Propane/Propylene	4,081	3,576	3,160	3,067	3,771		1993-2017
Normal Butane/Butylene	7,976	7,911	7,293	8,233	8,684		1993-2017
Isobutane/Ethylene	3,062	3,272	2,996	2,929	2,491		1993-2017

Source: EIA, [Stocks by Type – Refinery](#)

- Refinery stocks are surveyed as alkane/olefin mixes
- No blanket assumptions can be made about particular refineries or regions that would allow for a clear split of alkanes and olefins
- Through consultation with industry stakeholders, EIA learned refinery stocks generally reflect refinery throughput
- Refinery stocks are therefore split in EIA's back-office system, by calculating ratios of refinery net production of each alkane and olefin, and applying that ratio to monthly stocks
- Underlying survey data remains unchanged

Applying new data – Propane product supplied & heating degree days



Source: EIA [Propane Product Supplied](#); National Oceanic and Atmospheric Administration, [Weighted Heating Degree Days](#)

Questions & Answers

- Will the weekly petroleum status report be impacted?
 - No. The re-alignment of HGL data only affects monthly and annual numbers. Weekly surveys do not collect sufficient data to allow us to split up the HGL stocks the way we can with the monthly numbers. So until/if the weekly surveys change, weekly tables will retain the current format.
- In the data, propane supplied for January 2013 is zero. Will that be fixed?
 - As we had posted in our [Petroleum Supply Monthly page](#), and emailed to those who [subscribe](#) to our PSM emails, EIA is aware of some errant data that is contained in some posted tables covering our monthly historical petroleum supply data series going back to 2007. We are working to correct these IT-related issues and hope to repost the corrected series in the near future. We apologize for any inconvenience this may cause, and we thank our readers for their patience as we work to correct and repost the monthly series.
- How will EIA's LPG (liquefied propane gases) numbers line up with IEA's (International Energy Agency) numbers?
 - Since 2015 EIA has been submitting LPG statistics to IEA that are consistent with the current approach, with data back to 2012. Those numbers were based on a higher-level calculation, splitting alkanes and olefins refinery stocks at the PADD level using PADD-level refinery net production to allocate PADD-level refinery stocks. The approach implemented with the 2016 PSA release splits these stocks at the refinery level, so there is bound to be a slight difference. Refinery stocks, however, represent a minor share of total stock, and stock changes on an annual basis represent a minor share of total product supply. So once we resubmit our LPG numbers to IEA they will be different, but that difference will essentially be within the margin or error.

Questions & Answers

- Product supplied of propane shown in the charts didn't align perfectly with the heating degree days. Is it possible that's because petrochemical consumption is also in the numbers?
 - Yes, EIA does not collect end-use data for propane, so whether its propane use as petrochemical feedstock or as engine fuel, those numbers will be in the total product supplied shown.
- Is refinery propylene that is blended into propane reported as propane or refinery propylene?
 - Our survey forms instruct respondents to split the stream into propane and propylene, even if the products are comingled. So while it is possible that refineries produce a mixed product stream, and store the product in mix, the production numbers reported to EIA are of individual components in production, which allows us to then apply the share of each component to the stocks (which are not split out) to generate a product stock number.
- How do we use the API (Application Programming Interface) to pull down the data?
 - See Slide 22, as well as an [Excel Add-in](#) how-to on the [EIA YouTube Channel](#)
- Do you plan to report natural gasoline rail movements? How about butylenes?
 - We will not be expanding the HGL-by-Rail data tables to include natural gasoline or butylenes. We found the data we receive from the Surface Transportation Board to offer insufficient detail for us to be able to parse out natural gasoline or butylenes and report these as individual series. For more detail on our rail data, you may view the recorded [HGL-by-Rail webinar](#).

Questions & Answers

- In current data, refinery net production of butylenes is reported as negative for some months. If there is a negative net production number, why doesn't it show up as a positive net input?
 - Current EIA forms do not have a field to allow the entry by our respondents of refinery inputs of butylenes (normal butylene and isobutylene). Refiners therefore insert a negative number into the net production field to indicate an input.
- Is data for the combined categories still available?
 - EIA will continue to publish combined alkanes/olefins numbers for at least half a year. While our original intention was to retire these series with the release of the July Petroleum Supply Monthly – so on September 30 – we have heard from many of our stakeholders that they will require more time to adjust their tables and accommodate the revised labels and table structures.
 - Please also keep in mind that even when we do retire the series, back history will always be available – EIA will continue to publish all historical data. In addition, the split series, for example the individual series for propane and propylene, will be additive so analysts who wish to reassemble the old totals will be able to do so.

Automating EIA data pulls

1 [Download & Install Excel plug-in: https://www.eia.gov/opendata/excel/](https://www.eia.gov/opendata/excel/)

2 **Natural Gas Plant Field Production**
 Area: U.S. Period-Unit: Monthly-Thousand Barrels per Day

Download Series History Definitions, Sources & Notes

Show Data By: Product Area

	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	View History
Natural Gas Liquids	3,365	3,604	3,644	3,633	3,721	3,752	2010-2017
Ethane	1,230	1,377	1,390	1,354	1,405	1,412	2010-2017
Propane	1,129	1,176	1,186	1,195	1,211	1,216	2007-2017
Normal Butane	285	310	325	296	283	284	2007-2017
Isobutane	323	332	317	353	374	374	2007-2017
Natural Gasoline	398	417	426	436	449	467	2010-2017
Liquefied Petroleum Gases	1,737	1,810	1,828	1,843	1,868		1981-2017

Click on the source key icon to learn how to download series into Excel, or to embed a chart or map on your website.

3 **API Query Browser**

EIA Data Sets

API CALL TO USE: http://api.eia.gov/series/?api_key=YOUR_API_KEY_HERE&series_id=PET.M_EPLLPA_FPF_NUS_MBBLDM

SERIES NAME: U.S. Field Production of Propane, Monthly

SERIES ID: PET.M_EPLLPA_FPF_NUS_MBBLDM

4b PRESS

4a PASTE

RESULT

date	value
2017-06-01	1216
2017-05-01	1211
2017-04-01	1195
2017-03-01	1186
2017-02-01	1176
2017-01-01	1129

Thank you

Warren Wilczewski 202-586-9320 Warren.Wilczewski@eia.gov

Office of Petroleum, Natural Gas, and Biofuels Analysis

Sasha Abdalla 202-287-6323 Sasha.Abdalla@eia.gov

Office of Petroleum and Biofuels Statistics