

June 28, 2019 | Volume 13: Issue 124

## TODAY IN THE MARKET

Ethylene was higher on Friday and propylene was steady. Energy futures were flat to lower and ethylene cash costs were mixed. Spot polymer prices remained steady.

Jun MtB-NOVA was bid at 12.75 cpp and offered at 14.5 cpp earlier in the day, but no bids or offers were seen for Jun by market close. Jun last traded on Jun 26 at 13 cpp. Jul was bid at 13.5 cpp against no offers. Outside of the NOVA hub, there were no bids or offers for Jun ethylene for delivery in Texas. Jul TX-Other ethylene traded yesterday at 19 cpp. A Jun TX-Other deal from 6/24 was confirmed at 18 cpp. In Louisiana, Jun Choctaw ethylene traded at 15 cpp, above its last done level of 13.5 cpp. Jun ended the day bid at 14 cpp and offered at 16 cpp. Jul was bid at 14 cpp but no offers were seen. A Jul/4Q 2019 Choctaw ethylene spread traded at 0.125 cpp backward, and a Jul/Oct-Nov Choctaw ethylene spread also traded at 0.125 cpp backward. Jul LA-Other ethylene traded at 20 cpp. The MTD 45-day weighted average for Jun TX/LA ethylene was 14.107 cpp, up 0.840 cpp from May.

The propylene market was quiet today. Jun MtB-EPC PGP was bid at 34 cpp but no offers emerged. A Jun MtB-EPC deal from 6/18 was confirmed at 33 cpp. Jul was bid at 33.25 cpp, also against no offers. The MTD 45-day weighted average for Jun all Texas PGP was 32.728 cpp, down 5.617 cpp from May. No bids or offers were seen for Jun MtB-EPC RGP. A Jun MtB-EPC deal from yesterday was confirmed at 23 cpp; two Jul MtB-EPC deals from yesterday were confirmed at 23 cpp. Jul was bid at 23 cpp against no offers. The MTD 45-day weighted average for Jun all Texas RGP was 23.337 cpp, down 2.127 cpp from May.

In operations news, ExxonMobil's BOP-2X olefins unit at Baytown was flaring today due to an unplanned shutdown of the unit's ethylene recovery compressor, according to a filing made to the TCEQ. The filing advised that flaring will continue until Saturday and noted that the event's impact to production was minimal.

Aug NYMEX crude settled at \$58.47/bbl, down 96 cents from Thursday's settle. Aug ICE Brent settled at \$66.55/bbl, unchanged. Aug NYMEX nat gas settled at \$2.308/mmBtu, down 1.6 cents.

Ethylene cash costs were mixed. Jun ethane-based costs were down 0.1 cpp at 8.1 cpp. Propane-based costs were unchanged at 12.2 cpp. Butane-based costs were down 0.5 cpp at 10.8 cpp. The ethane-ethylene spread moved from 7.6 cpp to 7.7 cpp. The spread between ethane and HDPE BM (FOB Houston) was 0.1 cpp wider at 30.3 cpp. The propane-PGP spread moved from 23.2 cpp to 23.4 cpp. The spread between propane and HoPP raffia (FOB Houston) was 0.2 cpp wider at 34.4 cpp.

Jun HDPE BM HIC (loop-slurry process) ended the week unchanged at 37 cpp, while Jul was at 36 cpp, down 1 cpp. Jun LLDPE film closed down 0.5 cpp at 35.5 cpp FOB Houston. Jun HoPP inj and HoPP raffia were unchanged and at parity at 45 cpp FOB Houston. Total on Friday announced a 3 cpp increase on its PS products effective Jul 1. In domestic resale markets, offgrade HDPE BM ended the week at 37-38 cpp railcar delivered, down by as much as 10 cpp. Generic prime HIPS was steady at 82 cpp and generic prime GPPS was flat at 78 cpp railcar delivered. Imports of HIPS and GPPS from South Korea and Mexico were readily available for domestic resale. In Latin American markets, robust supply of US-produced LLDPE film kept export prices in the mid \$900s/mt CFR WCSA.

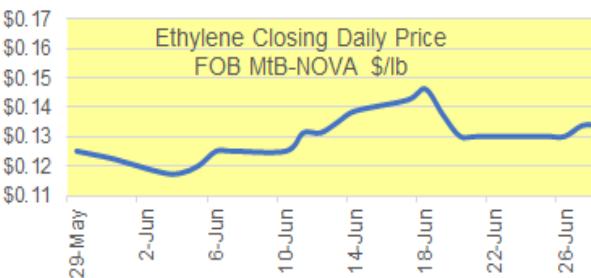
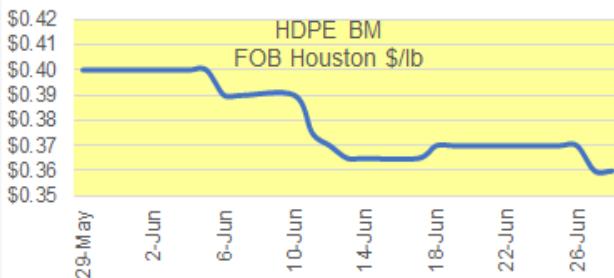
CLOSING MARKETS			
Monomers	JUNE	change	MTD cal avg
Ethylene MtB FOB	0.13375	-	0.13063
Ethylene Choctaw FOB	0.15000	0.01000	0.13594
PGP MtB FOB	0.34000	-	0.32813
RGP MtB FOB	0.23000	-	0.21750
Benzene DDP HTC	2.70000	-0.05000	2.66750
Polymers			
FOB Houston Bulk Railcar			
HDPE Blow Mold	0.36000	-	0.37600
LLDPE Film	0.35500	-	0.36225
HoPP Raffia	0.45000	-	0.47000
HoPP Inj	0.45000	-	0.46950
Domestic Resale (DER)			
HDPE Blow Mold	0.52000	-	0.52450
LDPE Film	0.58000	-	0.59275
HDPE Inj	0.49000	-	0.50100
HMWPE Film	0.51500	-	0.53275
LLDPE Film	0.49000	-	0.50250
HoPP	0.53500	-	0.55025
CoPP	0.55500	-	0.56900
GPPS	0.78000	-	0.78000
HIPS	0.82000	-	0.82000
Ethylene Cash Costs			
Ethane-based	0.08064	-0.00079	0.08377
Propane-based	0.12228	-0.00040	0.10885
Butane-based	0.10786	-0.00523	0.10921
Natural Gasoline-Based	0.31669	-0.00930	0.29017
<i>Ethylene: \$/lb. Mt B NOVA = Mont Belvieu NOVA storage. Choctaw = Choctaw (LA) Boardwalk storage. Propylene: \$/lb, Mt B EPC = Mont Belvieu (TX) Enterprise storage. Benzene: \$/gal, delivered, duty paid, Houston/Texas City basis. Resins: \$/lb, Generic Prime. Domestic prices reflect reseller railcars delivered to North American locations excluding Mexico, West Coast and Pacific Northwest. Cash Costs are derived from formulas using OPIS NGLs and PCW petrochemical assessments and employ yield formulas understood to be commonly used by ethylene producers. They are not specific to any particular plant or technology; they are an estimated average.</i>			

# PetroChem Wire Daily



June 28, 2019 | Volume 13: Issue 124

CLOSING BID/ASK					
Monomers	Bid	Ask	Polymers	Bid	Ask
Ethylene MtB-NOVA	Jun	-	HDPE BM FOB Houston	0.36000	0.38000
Ethylene MtB-NOVA	Jul	0.13500	LLDPE Film FOB Houston	0.35000	0.36000
Ethylene MtB-Other	Jun	-	HoPP Raffia FOB Houston	0.43000	0.46000
Ethylene MtB-Other	Jul	-	HoPP Inj FOB Houston	0.43000	0.46000
Ethylene Choctaw	Jun	0.14000	HoPP Inj Domestic	0.52000	0.55000
Ethylene Choctaw	Jul	0.14000	CoPP Inj Domestic	0.54000	0.57000
RGP MtB-EPC	Jun	-	HDPE Blow Mold Domestic	0.50000	0.54000
RGP MtB-EPC	Jul	0.23000	HDPE Inj Domestic	0.48000	0.50000
PGP MtB-EPC	Jun	0.34000	LLDPE Film Butene Domestic	0.48000	0.50000
PGP MtB-EPC	Jul	0.33250	HMWPE Film Domestic	0.51000	0.52000
Benzene DDP HTC	Jun	-	LDPE Film Clarity Domestic	0.57000	0.59000
Benzene DDP HTC	Jul	2.34000	HIPS Domestic	0.80000	0.84000
			GPPS Domestic	0.76000	0.80000



CLOSING SPREADS (\$/lb)	
Ethylene - (Ethane x. 0.422)	0.062
Ethylene - (Ethane div. 2.97)	0.077
Ethylene - Propane	0.027
Ethylene - Butane	0.033
Ethylene-Nat gasoline	-0.067
Ethylene - PGP	-0.206
Ethylene - RGP	-0.096
RGP-Propane	0.124
PGP - RGP	0.110
LDPE film - Ethylene	0.446
LLDPE film - Ethylene	0.356
HDPE blow mold - Ethylene	0.386
HDPE inj - Ethylene	0.356
HDPE HMW - Ethylene	0.381
LDPE film - Ethane	0.523
LLDPE film - Ethane	0.433
HDPE blow mold - Ethane	0.463
HDPE inj - Ethane	0.433
HDPE HMW - Ethane	0.458
PP homo - RGP	0.305
PP copol - RGP	0.325
PP homo - Propane	0.429
PP copol - Propane	0.449
GPPS - Benzene	0.414
GPPS - Ethylene	0.646
HIPS - Benzene	0.454
HIPS - Ethylene	0.686

Closing spreads are calculated on a straight price basis, not inclusive of costs or co-product credit factors.

NGLs used in spreads are OPIS closing prices.

Spreads are calculated in \$/lb, using standard conversion factors for NGLs and benzene, which transact in \$/gal.

June 28, 2019 | Volume 13: Issue 124

## Closing Forward Curves

	Ethylene FOB MtB	Ethylene FOB Choc	PGP FOB Mt B	HDPE FOB Hou	LLDPE FOB Hou	HoPP FOB Hou	HDPE FOB Chi	LLDPE FOB Chi	HoPP FOB Chi	Ethane-based Ethylene Cost	Propane-based Ethylene Cost	Butane-based Ethylene Cost	C5-based Ethylene Cost
Jun-19	0.13375	0.15000	0.34000	0.36000	0.35500	0.45000	0.49000	0.47000	0.49000	0.08064	0.12228	0.10786	0.31669
Jul-19	0.13500	0.15000	0.34125	0.36000	0.35500	0.45000	0.49000	0.47000	0.49000	0.08016	0.13027	0.11737	0.32137
Aug-19	0.13625	0.15000	0.34250	0.36000	0.35500	0.45000	0.49000	0.47000	0.49000	0.08793	0.14060	0.13376	0.33032
Sep-19	0.14000	0.15000	0.34750	0.36000	0.35500	0.45000	0.49000	0.47000	0.49000	0.09492	0.15130	0.14880	0.33329
Oct-19	0.14250	0.14875	0.35250	0.36000	0.35500	0.45000	0.49000	0.47000	0.49000	0.09956	0.15719	0.15696	0.33319
Nov-19	0.14500	0.14875	0.35750	0.36000	0.35500	0.45000	0.49000	0.47000	0.49000	0.10189	0.16021	0.16004	0.33179
Dec-19	0.14750	0.14875	0.35750	0.36000	0.35500	0.45000	0.49000	0.47000	0.49000	0.10378	0.16345	0.16250	0.33243
Jan-20	0.15000	0.15000	0.36000	0.36000	0.35500	0.45000	0.49000	0.47000	0.49000	0.10611	0.16758	0.16558	0.33375
Feb-20	0.15250	0.15250	0.36250	0.36000	0.35500	0.45000	0.49000	0.47000	0.49000	0.10750	0.16665	0.16349	0.33177
Mar-20	0.15500	0.15500	0.36500	0.36000	0.35500	0.45000	0.49000	0.47000	0.49000	0.10834	0.15987	0.15660	0.32847
Apr-20	0.15750	0.15750	0.36875	0.36000	0.35500	0.45000	0.49000	0.47000	0.49000	0.10750	0.15280	0.14998	0.32134
May-20	0.15750	0.16000	0.37250	0.36000	0.35500	0.45000	0.49000	0.47000	0.49000	0.10706	0.15173	0.14900	0.31350
Jun-20	0.15750	0.16250	0.37625	0.36000	0.35500	0.45000	0.49000	0.47000	0.49000	0.10687	0.15149	0.14948	0.30820
Jul-20	0.16000	0.16750	0.37375	0.36000	0.35500	0.45000	0.49000	0.47000	0.49000	0.10695	0.15538	0.15234	0.30712
Aug-20	0.16250	0.17000	0.37375	0.36000	0.35500	0.45000	0.49000	0.47000	0.49000	0.10699	0.15990	0.15614	0.30544
Sep-20	0.16250	0.17250	0.37375	0.36000	0.35500	0.45000	0.49000	0.47000	0.49000	0.10695	0.16572	0.15995	0.30642
Oct-20	0.16250	0.17250	0.37375	0.36000	0.35500	0.45000	0.49000	0.47000	0.49000	0.10684	0.17092	0.16394	0.30566
Nov-20	0.16375	0.17250	0.37375	0.36000	0.35500	0.45000	0.49000	0.47000	0.49000	0.10706	0.17618	0.16741	0.30497
Dec-20	0.16375	0.17250	0.37375	0.36000	0.35500	0.45000	0.49000	0.47000	0.49000	0.10740	0.17898	0.17088	0.30222
Jan-21	0.16375	0.17250	0.37375	0.36000	0.35500	0.45000	0.49000	0.47000	0.49000				
Feb-21	0.16375	0.17250	0.37375	0.36000	0.35500	0.45000	0.49000	0.47000	0.49000				

FOB = Free on Board. MtB= Mont Belvieu. Hou = Houston. Chi = Chicago. For a full methodology, visit [www.petrochemwire.com](http://www.petrochemwire.com)

# PetroChem Wire Daily



June 28, 2019 | Volume 13: Issue 124

Ethylene Calendar Averages			
	MTD Jun	May	Change
30-day FOB MtB-NOVA	0.13063	0.12932	0.00131
30-day FOB Choctaw	0.13594	0.13375	0.00219
Spot Ethylene Trading Ranges (front month)			
	Low	High	Midpoint
<b>Today</b>	-	-	-
Ethylene FOB MtB-NOVA	-	-	-
Ethylene TX-Other	-	-	-
Ethylene FOB Choctaw	0.15000	0.15000	0.15000
Ethylene LA-Other	-	-	-
<b>This Month</b>			
Ethylene FOB MtB-NOVA	0.11750	0.14625	0.13188
Ethylene All Texas	0.11750	0.18000	0.14875
Ethylene FOB Choctaw	0.12125	0.15125	0.13625
Ethylene All Louisiana	0.12125	0.15500	0.13813

Ethylene Weighted Averages			
	MTD Jun	May	Change
30-day Mt B all	0.14364	0.13017	0.01348
30-day LA all	0.13928	0.13438	0.00491
30-day TX/LA	0.14125	0.13182	0.01034
45-day Mt B all	0.14245	0.13149	0.01096
45-day LA all	0.13841	0.13498	0.00343
45-day TX/LA	0.14107	0.13268	0.00840
	MTD Jul	Jun	Change
45-day Mt B all	0.18315	0.14245	0.04071
45-day LA all	0.15833	0.13841	0.01992
45-day TX/LA	0.17872	0.14107	0.03765

Ethylene Spot Volumes (MM lbs)		
	MTD Jun	May
Current Month Phys 30d - TX & LA	219.5	148
Current Month Phys 30d - TX only	144.5	90
Current Month Phys 30d - LA only	75	58
Current Month Phys 45d - TX & LA	249.5	191
Current Month Phys 45d - TX only	164.5	126
Current Month Phys 45d - LA only	85	65
Next Month Phys 45d - TX & LA	84	28
Next Month Phys 45d - TX only	69	18
Next Month Phys 45d - LA only	15	10
Forward Physical - TX & LA	3	12
Spreads Physical - TX & LA	185	189
Index Physical - TX & LA	42	23
All Paper	34	72.2

	28-Jun	27-Jun	26-Jun	25-Jun	24-Jun	21-Jun	20-Jun	19-Jun	18-Jun
June Physical	.15 Choc		.12875 MtB-N .13 MtB-N	.135 Choc	.13 MtB-N .13 MtB-N .18 TX-O	.135 Choc	.135 MtB-N .1375 Choc .135 Choc .135 MtB-N .13 MtB-N .13 MtB-N	.145 MtB-N .14 Mt B-N .1475 Choc .1475 Choc .145 Choc .14 Choc .1375 MtB-N	.14625 MtB-N .15125 Choc .155 LA-O .155 LA-O .155 LA-O .15 TX-O .15 TX-O
July Physical	.20 LA-O	.19 TX-O .13375 MtB-N			.135 Choc .14 LA-O		.185 TX-O		.185 Jul TX-O .18 Jul TX-O
Forward Physical									
Spreads Physical	.00125 bw Jul/4Q Choc .00125 bw Jul/Oct-Nov Choc	.0 Jun/Jul MtB-N		.0 Jun/Dec Choc .0 Jun/Dec Choc					.00125 bw Jun/Jul Choc
Index Physical			.0 Cal '20 MtB Cal Avg .0075 Jul MtB Cal Avg (Choc del.)						
Paper							.155 Cal '20	.16 Cal '20	.16875 Cal '20

# PetroChem Wire Daily



June 28, 2019 | Volume 13: Issue 124

Ethylene Calendar Averages			
	MTD Jun	May	Change
30-day FOB MtB-NOVA	0.13063	0.12932	0.00131
30-day FOB Choctaw	0.13594	0.13375	0.00219
Spot Ethylene Trading Ranges (front month)			
	Low	High	Midpoint
<b>Today</b>	-	-	-
Ethylene FOB MtB-NOVA	-	-	-
Ethylene TX-Other	-	-	-
Ethylene FOB Choctaw	0.15000	0.15000	0.15000
Ethylene LA-Other	-	-	-
<b>This Month</b>			
Ethylene FOB MtB-NOVA	0.11750	0.14625	0.13188
Ethylene All Texas	0.11750	0.18000	0.14875
Ethylene FOB Choctaw	0.12125	0.15125	0.13625
Ethylene All Louisiana	0.12125	0.15500	0.13813

Ethylene Weighted Averages			
	MTD Jun	May	Change
30-day Mt B all	0.14364	0.13017	0.01348
30-day LA all	0.13928	0.13438	0.00491
30-day TX/LA	0.14125	0.13182	0.01034
45-day Mt B all	0.14245	0.13149	0.01096
45-day LA all	0.13841	0.13498	0.00343
45-day TX/LA	0.14107	0.13268	0.00840
	MTD Jul	Jun	Change
45-day Mt B all	0.18315	0.14245	0.04071
45-day LA all	0.15833	0.13841	0.01992
45-day TX/LA	0.17872	0.14107	0.03765

Ethylene Spot Volumes (MM lbs)		
	MTD Jun	May
Current Month Phys 30d - TX & LA	219.5	148
Current Month Phys 30d - TX only	144.5	90
Current Month Phys 30d - LA only	75	58
Current Month Phys 45d - TX & LA	249.5	191
Current Month Phys 45d - TX only	164.5	126
Current Month Phys 45d - LA only	85	65
Next Month Phys 45d - TX & LA	84	28
Next Month Phys 45d - TX only	69	18
Next Month Phys 45d - LA only	15	10
Forward Physical - TX & LA	3	12
Spreads Physical - TX & LA	185	189
Index Physical - TX & LA	42	23
All Paper	34	72.2

	28-Jun	27-Jun	26-Jun	25-Jun	24-Jun	21-Jun	20-Jun	19-Jun	18-Jun	17-Jun
Ethylene FOB MtB-NOVA		.13375 Jul	.12875 Jun .13 Jun		.13 Jun .13 Jun		.135 Jun .135 Jun .13 Jun .13 Jun	.145 Jun .14 Jun .1375 Jun	.14625 Jun	.1425 Jun .1425 Jun .145 Jun
Ethylene TX-Other		.19 Jul			.18 Jun		.185 Jul		.185 Jul .18 Jul .15 Jun .15 Jun	.18 Jun
Ethylene FOB Choctaw	.15 Jun			.135 Jun	.135 Jul	.135 Jun	.1375 Jun .135 Jun	.1475 Jun .1475 Jun .145 Jun .14 Jun	.15125 Jun	
Ethylene LA-Other	.20 Jul				.14 Jul				.155 Jun .155 Jun .155 Jun	

	14-Jun	13-Jun	12-Jun	11-Jun	10-Jun	7-Jun	6-Jun	5-Jun	4-Jun	3-Jun
Ethylene FOB MtB-NOVA	.14 Jun	.14 Jun .14 Jun .135 Jun .135 Jun	.1325 Jun		.125 Jun .13 Jun	.125 Jun .125 Jun	.125 Jun	.1175 Jun .1175 Jun		.1175 Jun
Ethylene TX-Other			.17 Jun		.17 Jun	.17 Jun	.165 Jun			
Ethylene FOB Choctaw		.1375 Jun								.12375 Jun .12125 Jun .12125 Jun
Ethylene LA-Other		.1375 Jun								

# PetroChem Wire Daily



June 28, 2019 | Volume 13: Issue 124

PGP Calendar Averages			
	MTD Jun	May	Change
30-day Mt B	0.32813	0.38886	-0.06074
PGP Trading Ranges (front month)			
	Low	High	Midpoint
<b>Today</b>			
PGP MtB	-	-	-
PGP TX Non-MtB	-	-	-
<b>This Month</b>			
PGP MtB	0.32000	0.33500	0.32750
PGP TX Non-MtB	-	-	-

PGP Weighted Averages			
	MTD Jun	May	Change
30-day Mt B	0.32728	0.38345	-0.05617
30-day All TX	0.32728	0.38345	-0.05617
45-day Mt B	0.32728	0.38345	-0.05617
45-day All TX	0.32728	0.38345	-0.05617
	MTD Jul	MTD Jun	Change
45-day Mt B	-	0.32728	-
45-day All TX	-	0.32728	-

PGP Spot Volumes (MM lbs)		
	MTD Jun	May
Current Month Phys 30d	39	66
Current Month Phys 45d	39	66
Next Month Phys 45d	0	0
Forward Physical	0	18
Spreads Physical	52	52
Index Physical	15	0
All Paper	54	68.5

	28-Jun	27-Jun	26-Jun	25-Jun	24-Jun	21-Jun	20-Jun	19-Jun	18-Jun	17-Jun
June Physical									.325 MtB-E .33 MtB-E	
May Physical										
Forward Physical										
Spreads Physical				.0025 ctg Jun/Jul				.0025 ctg Jun/Jul		
Index Physical					-.0325 Jul CP		-.03375 Jun CP			
Paper										

	14-Jun	13-Jun	12-Jun	11-Jun	10-Jun	7-Jun	6-Jun	5-Jun	4-Jun	3-Jun
June Physical		.32625 MtB-E .325 MtB-E .32 MtB-E .32 MtB-E			.33 MtB-E			.3325 MtB-E .33 MtB-E	.335 MtB-E	
May Physical										
Forward Physical										
Spreads Physical		.00375 ctg Jun/Jul .00375 ctg Jun/Jul .00375 ctg Jun/Jul								
Index Physical			-.035 Jun CP							
Paper	.3475 4Q .3475 4Q .34875 4Q .35 4Q .35125 4Q	.375 4Q .35 4Q .35 4Q .35 4Q						.34 Jun-Sep .3425 3Q .36 4Q '19 .36 4Q '19 .38 2Q '20	.34 Jun-Sep	

# PetroChem Wire Daily



June 28, 2019 | Volume 13: Issue 124

RGP Calendar Averages			
	MTD Jun	May	Change
30-day RGP pipe	0.21750	0.24977	-0.03227
RGP Trading Ranges (front month)			
	Low	High	Midpoint
<b>Today</b>			
RGP MtB-E	-	-	-
RGP TX Non-MtB	-	-	-
RGP Non-TX	-	-	-
<b>This Month</b>			
RGP MtB-E	0.20000	0.24000	0.22000
RGP TX Non-MtB	0.27000	0.31000	0.29000
RGP Non-TX	-	-	-

RGP Weighted Averages			
	MTD Jun	May	Change
30-day RGP pipe MtB-E	0.22500	0.25000	-0.02500
30-day RGP all MtB-E	0.22500	0.25000	-0.02500
30-day RGP all TX	0.23435	0.25000	-0.01565
30-day RGP all TX/Non-TX	0.23435	0.25000	-0.01565
45-day RGP pipe MtB-E	0.22719	0.24878	-0.02159
45-day RGP all MtB-E	0.22750	0.24878	-0.02128
45-day RGP all TX	0.23337	0.25465	-0.02127
45-day RGP all TX/Non-TX	0.23337	0.25465	-0.02127
	MTD Jul	MTD Jun	Change
45-day RGP pipe	0.23000	0.22719	0.00225
45-day RGP all MtB-E	0.23000	0.22750	0.00225
45-day RGP all TX	-	0.23337	-
45-day RGP all TX/Non-TX	-	0.23337	-

RGP Spot Volumes (K bbl)		
	MTD Jun	May
Current Month Pipe 30d	150	130
Current Month Pipe 45d	200	205
Next Month Pipe 45d	50	50
Forward Physical	0	0
Current Month All 30d	153.2	130
Current Month All 45d	253.2	240
Next Month All 45d	0	50
Spreads Physical	0	0
Index Physical	35.5	14

	28-Jun	27-Jun	26-Jun	25-Jun	24-Jun	21-Jun	20-Jun	19-Jun	18-Jun	17-Jun
June Physical		.23 MtB-E	.23 MtB-E .23 MtB-E		.2 MtB-E					
July Physical		.23 MtB-E .23 MtB-E								
Spreads Physical										
Index physical		.06 Jul Index*	.05 Jul/Aug In- dex* .05 Aug Index*							

	14-Jun	13-Jun	12-Jun	11-Jun	10-Jun	7-Jun	6-Jun	5-Jun	4-Jun	3-Jun
June Physical	.205 MtB-E .27 TX-O*			.215 MtB-E			.31 TX-O*			.24 MtB-E
July Physical										
Spreads Physical										
Index physical					.07 Jun Index*					

\*not pipeline. \*\* specified delivery dates.

# PetroChem Wire Daily



June 28, 2019 | Volume 13: Issue 124

MTD EST. ETHYLENE OUTPUT		MTD OVERALL OPERATING RATES		YTD OVERALL OPERATING RATES		YTD EST. ETHYLENE OUTPUT	
MTD Max GC Capacity	5.661 B	Texas	84.5%	Texas	90.8%	YTD Max GC Capacity	36.192 B
MTD Est GC Output	4.990 B	Louisiana	100.0%	Louisiana	93.6%	YTD Est GC Output	33.098 B
MTD LBS OUT	0.671 B	Gulf Coast	88.1%	Gulf Coast	91.4%	YTD LBS OUT	3.095 B

Current Outages	Location	MM lbs/day Ethylene	% US Capacity	Start Date	Status	Planned or Unplanned	Total Days Down/Reduced	Est. MM Pounds Out
Eastman	Longview HCC-3	0.849	0.40%	2H Oct 2018	Shut	P	246	209
Chevron Phillips	Sweeny 22	1.640	0.78%	9-May-18	Shut	P	415	681
BASF/Total	Port Arthur	5.830	2.78%	4-Apr-19	Shut	P	86	501
Chevron Phillips	Sweeny 33	6.160	2.93%	11-Jun-19	Shut	U	17	105
Past Outages	Location	MM lbs/day Ethylene	% US Capacity	Start Date	End Date	Planned or Unplanned	Total Days Down/Reduced	Est. MM Pounds Out
ExxonMobil	Beaumont	4.932	2.35%	2-Apr-19	24-Jun-19	P	88	434
Markwest	Javelina	0.616	0.29%	25-Mar-19	End-May	P	68	41.9
Huntsman	Port Neches	1.096	0.52%	10-May-19	11-May-19	U	2	2
Chevron Phillips	Port Arthur	5.150	2.45%	10-May-19	11-May-19	U	2	10
Dow	Freeport TX-7	3.562	1.70%	10-May-19	11-May-19	U	2	4
Huntsman	Port Neches	1.096	0.52%	23-Apr-19	23-Apr-19	U	1	1.1
Shell	Norco OL-5	5.150	2.82%	Early Mar	Mid-Apr	P	40	206
Chevron Phillips	Cedar Bayou	5.041	2.40%	11-Apr-19	12-Apr-19	U	1	5
ExxonMobil	Baton Rouge	2.945	1.40%	15-Feb-19	Early Apr	P	45	133
Chevron Phillips	Sweeny 24	4.110	1.96%	20-Mar-19	31-Mar-19	U	10	41
Flint Hills Resources	Port Arthur	3.669	1.75%	27-Feb-19	5-Mar-19	U	6	22
ExxonMobil	Beaumont	4.932	2.35%	8-Jan-19	Mid-Jan	U	6	Reduced
BASF/Total	Port Arthur	5.830	2.78%	30-Dec-18	Early Jan	U	4	Reduced
Dow	Freeport TX-8	6.288	3.00%	27-Dec-18	29-Dec-18	U	2	13
NOVA	Geismar	5.644	2.69%	end-Nov	21-Dec-18	P	25	141
Chevron Phillips	Sweeny 24	4.110	1.96%	22-Nov-18	End-Nov	U	Reduced	Reduced
Eastman	Longview HCC-3A	0.849	0.40%	15-Apr-18	2H Oct	P	184	156
Chevron Phillips	Port Arthur	5.150	2.45%	9-Sep-18	Mid-Nov	P	68	350