

PETROCHEM WIRE

BY OPIS, A DOW JONES COMPANY

MONTHLY SPOT MARKETS SUMMARY

WEIGHTED AVERAGE PRICES: SEP DELIVERY				
PRICE	DELIVERY MONTH	DEAL TIME FRAME	PRODUCT & LOCATION	CHANGE FROM AUG
\$0.24268	SEP	30 DAY	ETHYLENE MTB-EPC	-\$0.01497
\$0.25077	SEP	45 DAY	ETHYLENE MTB-EPC	-\$0.00627
\$0.24268	SEP	30 DAY	ETHYLENE TEXAS	-\$0.01498
\$0.25289	SEP	45 DAY	ETHYLENE TEXAS	-\$0.00423
\$0.22675	SEP	30 DAY	ETHYLENE CHOCTAW	-\$0.03712
\$0.24055	SEP	45 DAY	ETHYLENE CHOCTAW	-\$0.01985
\$0.22675	SEP	30 DAY	ETHYLENE LOUISIANA	-\$0.03996
\$0.24055	SEP	45 DAY	ETHYLENE LOUISIANA	-\$0.02230
\$0.23742	SEP	30 DAY	ETHYLENE TEXAS/LOUISIANA	-\$0.02299
\$0.24873	SEP	45 DAY	ETHYLENE TEXAS/LOUISIANA	-\$0.01046
\$0.18000	SEP	30 DAY	REFINERY GRADE PROPYLENE MT B PIPE	-\$0.00833
\$0.18000	SEP	45 DAY	REFINERY GRADE PROPYLENE MT B PIPE	-\$0.00833
\$0.19914	SEP	30 DAY	REFINERY GRADE PROPYLENE ALL TEXAS	-\$0.05781
\$0.28280	SEP	45 DAY	REFINERY GRADE PROPYLENE ALL TEXAS	-\$0.00246
\$0.39372	SEP	30 DAY	POLYMER GRADE PROPYLENE MT BELVIEU	-\$0.07302
\$0.40362	SEP	45 DAY	POLYMER GRADE PROPYLENE MT BELVIEU	-\$0.06313
CALENDAR AVERAGE PRICES: SEP 1-30				
PRICE	MONTH		PRODUCT & LOCATION	CHANGE FROM AUG
\$0.22899	SEP		ETHYLENE MONT BELVIEU-EPC (\$/lb)	-\$0.03232
\$0.22208	SEP		ETHYLENE CHOCTAW (\$/lb)	-\$0.03748
\$0.38161	SEP		POLYMER GRADE PROPYLENE MONT BELVIEU (\$/lb)	-\$0.07687
\$0.18000	SEP		REFINERY GRADE PROPYLENE MONT BELVIEU (\$/lb)	-\$0.00891
\$0.51128	SEP		STYRENE USG (\$/lb)	-\$0.03662
\$0.38048	SEP		HDPE BM FOB HOUSTON (\$/lb)	-\$0.02256
\$0.39095	SEP		LLDPE BUTENE FOB HOUSTON (\$/lb)	-\$0.04514
\$0.60095	SEP		HoPP RAFFIA FOB HOUSTON (\$/lb)	-\$0.07470
\$0.60095	SEP		HoPP INJ FOB HOUSTON (\$/lb)	-\$0.07514
\$0.49667	SEP		HDPE BM FOB CHICAGO (\$/lb)	-\$0.04072
\$0.52762	SEP		LLDPE BUTENE FOB CHICAGO (\$/lb)	-\$0.05108
\$0.65667	SEP		HoPP INJ FOB CHICAGO (\$/lb)	-\$0.06811
\$0.53000	SEP		HDPE Blow Mold Divd East of Rockies (\$/lb)	-\$0.05370
\$0.69571	SEP		LDPE Film Divd East of Rockies (\$/lb)	-\$0.07342
\$0.54262	SEP		HDPE Inj Divd East of Rockies (\$/lb)	-\$0.05368
\$0.55619	SEP		HMWPE Film Divd East of Rockies (\$/lb)	-\$0.06424
\$0.56429	SEP		LLDPE Film Divd East of Rockies (\$/lb)	-\$0.06658
\$0.70751	SEP		HoPP Divd East of Rockies (\$/lb)	-\$0.06597
\$0.73762	SEP		CoPP Divd East of Rockies (\$/lb)	-\$0.07760
\$0.97905	SEP		GPPS Divd East of Rockies (\$/lb)	-\$0.19443
\$1.04952	SEP		HIPS Divd East of Rockies (\$/lb)	-\$0.20352
\$0.18524	SEP		ETHANE-BASED ETHYLENE CASH COST (\$/lb)	-\$0.05209
\$0.30355	SEP		PROPANE-BASED ETHYLENE CASH COST (\$/lb)	-\$0.02258
\$0.26304	SEP		N-BUTANE-BASED ETHYLENE CASH COST (\$/lb)	-\$0.02751
\$0.43495	SEP		NATURAL GASOLINE-BASED ETHYLENE CASH COST (\$/lb)	-\$0.02059
\$0.61299	SEP		RGP IMPLIED ALKY VALUE (\$/lb)	-\$0.06906

PETROCHEM WIRE

BY OPIS, A DOW JONES COMPANY

ETHYLENE SPOT MARKET SUMMARY

FIXED PRICE SUMMARY	DATES	WTD AVE PRICE	VOLUME	DEAL #
OCT DELIVERY MTB-EPC	SEP 16 - SEP 30	\$0.20368	19,000,000	6
OCT DELIVERY TX-OTHER	SEP 16 - SEP 30	\$0.20000	5,000,000	1
OCT DELIVERY TX SUMMARY	SEP 16 - SEP 30	\$0.20292	24,000,000	7
OCT DELIVERY CHOCTAW	SEP 16 - SEP 30	\$0.18750	3,000,000	1
OCT DELIVERY LA-ALL	SEP 16 - SEP 30	\$0.18750	3,000,000	1
OCT DELIVERY TX/LA SUMMARY	SEP 16 - SEP 30	\$0.20120	27,000,000	8
SEP DELIVERY MTB-EPC	SEP 1 - SEP 30	\$0.24268	128,000,000	32
SEP DELIVERY TX-OTHER	SEP 1 - SEP 30	-	-	0
SEP DELIVERY TX SUMMARY	SEP 1 - SEP 30	\$0.24268	128,000,000	32
SEP DELIVERY CHOCTAW	SEP 1 - SEP 30	\$0.22675	63,000,000	12
SEP DELIVERY LA-ALL	SEP 1 - SEP 30	\$0.22675	63,000,000	12
SEP DELIVERY TX/LA SUMMARY	SEP 1 - SEP 30	\$0.23742	191,000,000	44
SEP DELIVERY MTB-EPC	AUG 16 - SEP 30	\$0.25077	169,000,000	42
SEP DELIVERY TX-OTHER	AUG 16 - SEP 30	\$0.28875	10,000,000	1
SEP DELIVERY TX SUMMARY	AUG 16 - SEP 30	\$0.25289	179,000,000	43
SEP DELIVERY CHOCTAW	AUG 16 - SEP 30	\$0.24055	91,000,000	18
SEP DELIVERY LA-ALL	AUG 16 - SEP 30	\$0.24055	91,000,000	18
SEP DELIVERY TX/LA SUMMARY	AUG 16 - SEP 30	\$0.24873	270,000,000	61
AUG DELIVERY MTB-EPC	AUG 1 - AUG 31	\$0.25764	133,000,000	30
AUG DELIVERY TX-OTHER	AUG 1 - AUG 31	\$0.25773	22,000,000	2
AUG DELIVERY TX SUMMARY	AUG 1 - AUG 31	\$0.25765	155,000,000	32
AUG DELIVERY CHOCTAW	AUG 1 - AUG 31	\$0.26386	56,000,000	12
AUG DELIVERY LA-ALL	AUG 1 - AUG 31	\$0.26671	68,000,000	13
AUG DELIVERY TX/LA SUMMARY	AUG 1 - AUG 31	\$0.26041	223,000,000	45
AUG DELIVERY MTB-EPC	JUL 16 - AUG 31	\$0.25704	148,000,000	33
AUG DELIVERY TX-OTHER	JUL 16 - AUG 31	\$0.25773	22,000,000	2
AUG DELIVERY TX SUMMARY	JUL 16 - AUG 31	\$0.25713	170,000,000	35
AUG DELIVERY CHOCTAW	JUL 16 - AUG 31	\$0.26040	84,000,000	17
AUG DELIVERY LA-ALL	JUL 16 - AUG 31	\$0.26285	96,000,000	18
AUG DELIVERY TX/LA SUMMARY	JUL 16 - AUG 31	\$0.25919	266,000,000	53
JUL DELIVERY MTB-EPC	JUL 1 - JUL 31	\$0.23888	117,000,000	21
JUL DELIVERY TX-OTHER	JUL 1 - JUL 31	-	-	0
JUL DELIVERY TX SUMMARY	JUL 1 - JUL 31	\$0.23888	117,000,000	21
JUL DELIVERY CHOCTAW	JUL 1 - JUL 31	\$0.24014	88,000,000	16
JUL DELIVERY LA-ALL	JUL 1 - JUL 31	\$0.24014	88,000,000	16
JUL DELIVERY TX/LA SUMMARY	JUL 1 - JUL 31	\$0.23942	205,000,000	37
JUL DELIVERY MTB-EPC	JUN 16 - JUL 31	\$0.24613	198,000,000	35
JUL DELIVERY TX-OTHER	JUN 16 - JUL 31	-	-	0
JUL DELIVERY TX SUMMARY	JUN 16 - JUL 31	\$0.24613	198,000,000	35
JUL DELIVERY CHOCTAW	JUN 16 - JUL 31	\$0.24243	103,000,000	19
JUL DELIVERY LA-ALL	JUN 16 - JUL 31	\$0.24243	103,000,000	19
JUL DELIVERY TX/LA SUMMARY	JUN 16 - JUL 31	\$0.24486	301,000,000	54

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SPOT ETHYLENE DEALS FOR SEP DELIVERY AUG 16 - SEP 30

SEP ETHYLENE LOW-HIGH RANGES

SEP 1-30 *TX ONLY*: \$0.195 / \$0.2525

SEP 1-30 *TX & LA*: \$0.1925 / \$0.2525

AUG 16 - SEP 30 *TX ONLY*: \$0.195 / \$0.28875

AUG 16 - SEP 30 *TX & LA*: \$0.1925 / \$0.28875

	ETHYLENE		
16-Aug			
17-Aug	0.27500	MtB-EPC	
18-Aug	0.27500	MtB-EPC	
	0.27500	MtB-EPC	
	0.27375	MtB-EPC	
	0.27375	MtB-EPC	
19-Aug			
22-Aug	0.28000	MtB-EPC	
	0.28000	MtB-EPC	
	0.28000	MtB-EPC	
	0.27375	CHOCTAW	
	0.27375	CHOCTAW	
	0.27500	CHOCTAW	
23-Aug	0.27000	CHOCTAW	
	0.27000	CHOCTAW	
	0.27000	CHOCTAW	
24-Aug			
25-Aug	0.28875	TX-OTHER	
26-Aug	0.27250	MtB-EPC	
	0.27250	MtB-EPC	
29-Aug			
30-Aug			
31-Aug			
1-Sep			
2-Sep	0.24500	CHOCTAW	
6-Sep	0.25000	MtB-EPC	*
	0.25000	MtB-EPC	*
	0.25000	MtB-EPC	*

	ETHYLENE		
	0.25000	MtB-EPC	*
7-Sep	0.25000	MtB-EPC	
	0.25250	MtB-EPC	
	0.24750	CHOCTAW	
8-Sep	0.25250	MtB-EPC	*
	0.25000	MtB-EPC	
	0.25250	MtB-EPC	*
	0.25250	MtB-EPC	
	0.25250	MtB-EPC	*
	0.25000	MtB-EPC	*
	0.25000	MtB-EPC	*
	0.25000	MtB-EPC	*
	0.24500	CHOCTAW	
	0.24250	CHOCTAW	
9-Sep			
12-Sep	0.24000	MtB-EPC	
	0.24000	MtB-EPC	
13-Sep	0.23500	MtB-EPC	
	0.24000	MtB-EPC	
	0.23500	CHOCTAW	
	0.23250	CHOCTAW	
14-Sep	0.24750	MtB-EPC	
	0.23500	CHOCTAW	
15-Sep	0.23750	MtB-EPC	
	0.23750	MtB-EPC	
	0.23750	MtB-EPC	

	ETHYLENE		
	0.24000	MtB-EPC	
	0.24000	MtB-EPC	
16-Sep			
19-Sep	0.22750	MtB-EPC	
	0.22750	CHOCTAW	
20-Sep			
21-Sep	0.20750	CHOCTAW	
22-Sep	0.21250	CHOCTAW	
23-Sep	0.20500	MtB-EPC	
26-Sep			
27-Sep			
28-Sep	0.19750	MtB-EPC	
	0.19750	MtB-EPC	
	0.19500	MtB-EPC	
29-Sep			
30-Sep	0.19250	CHOCTAW	
	0.19750	CHOCTAW	

* dated delivery

PETROCHEM WIRE

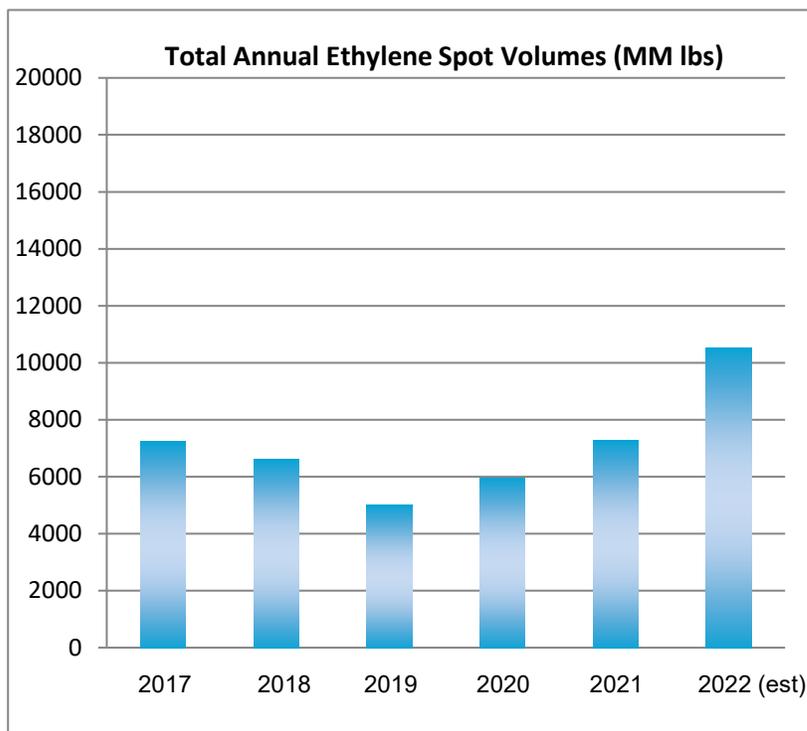
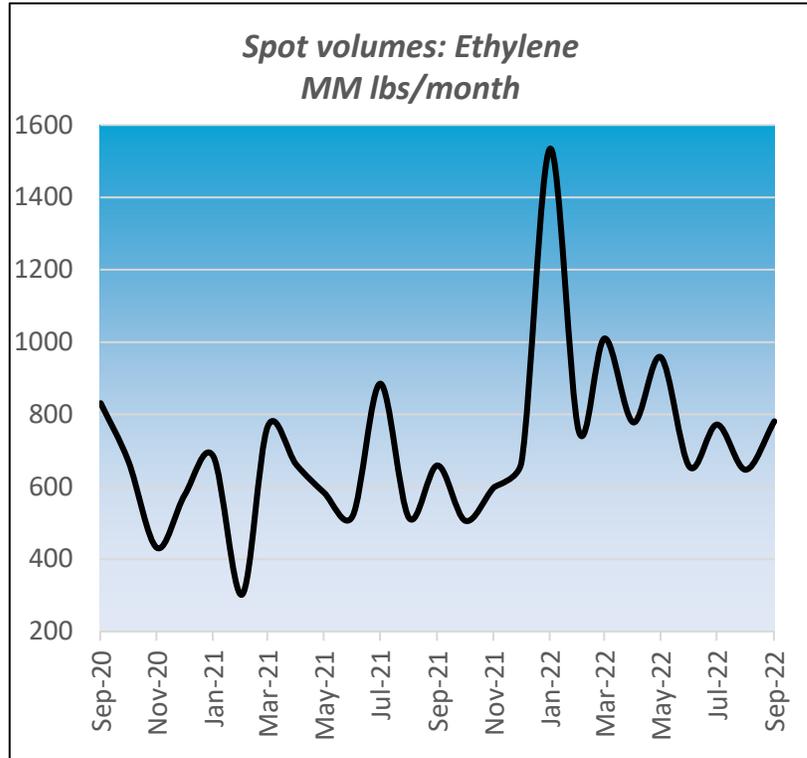
BY OPIS, A DOW JONES COMPANY

SPOT ETHYLENE VOLUME SUMMARY

AVG PER MONTH	
2017	602.17
2018	550.81
2019	416.21
2020	497.17
2021	605.71
2022	876.61

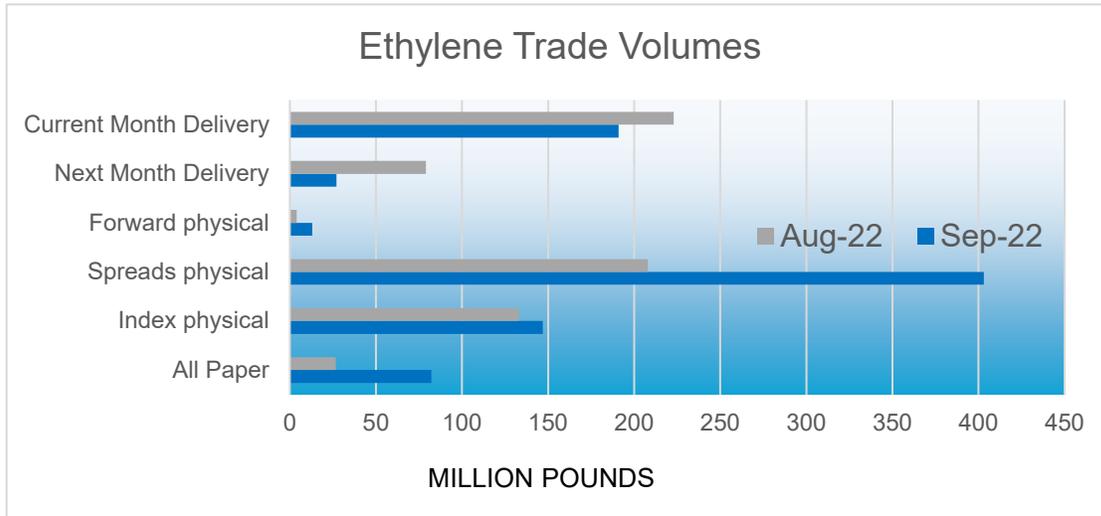
TOTAL VOLUMES	
2017	7226.00
2018	6609.70
2019	4994.50
2020	5966.00
2021	7268.51
2022	10519.33 est.

MONTH	MM LBS
Sep-20	831.00
Oct-20	670.50
Nov-20	431.00
Dec-20	577.50
Jan-21	684.20
Feb-21	301.50
Mar-21	766.90
Apr-21	661.00
May-21	583.90
Jun-21	519.00
Jul-21	885.00
Aug-21	514.00
Sep-21	659.00
Oct-21	506.00
Nov-21	598.00
Dec-21	668.50
Jan-22	1534.50
Feb-22	754.00
Mar-22	1010.00
Apr-22	778.00
May-22	958.00
Jun-22	655.00
Jul-22	772.00
Aug-22	647.00
Sep-22	781.00

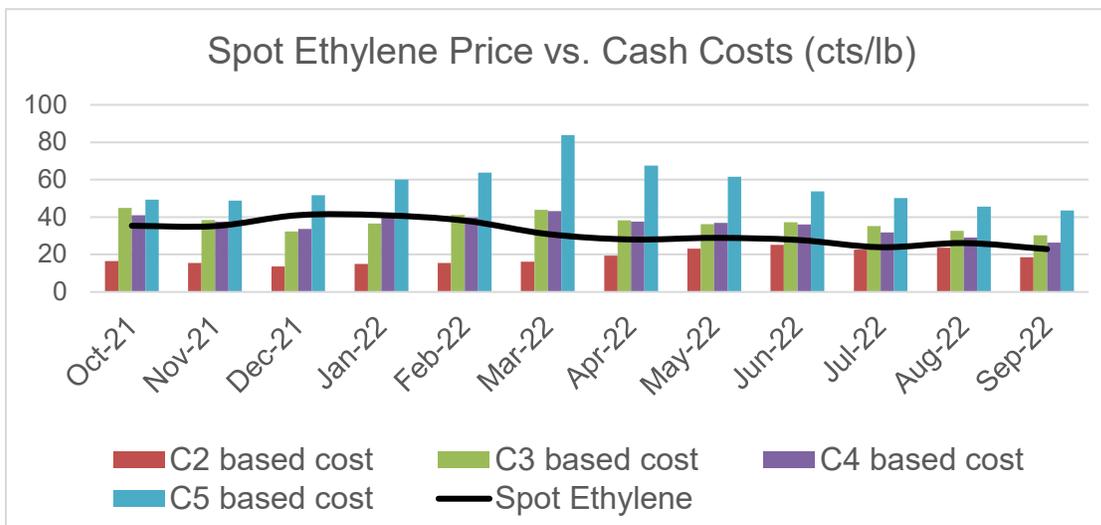


PETROCHEM WIRE

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	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22
All Paper	48.2	32.8	131.9	26.6	26.7	82.2
Index physical	117.0	223.0	155.0	165.0	133.0	147.0
Spreads physical	429.0	320.0	208.0	323.0	208.0	403.0
Forward physical	45.0	58.0	42.0	36.0	4.0	13.0
Next Month Delivery	18.0	33.0	96.0	43.0	79.0	27.0
Current Month Delivery	169.0	324.0	154.0	205.0	223.0	191.0



	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22
Spot Ethylene	28.044	28.917	27.810	23.925	26.130	22.899
C2 based cost	19.428	23.096	25.175	22.622	23.733	18.524
C3 based cost	38.271	36.164	37.243	35.144	32.613	30.355
C4 based cost	37.535	36.910	36.128	31.777	29.055	26.304
C5 based cost	67.470	61.603	53.775	50.200	45.554	43.495

PETROCHEM WIRE

BY OPIS, A DOW JONES COMPANY

PGP SPOT MARKET SUMMARY

FIXED PRICE SUMMARY	DATES	WTD AVG PRICE	VOLUME	DEAL #
OCT DELIVERY MTB-EPC	SEP 16 - SEP 30	\$0.33047	37,000,000	9
OCT DELIVERY TX-ALL	SEP 16 - SEP 30	\$0.33047	37,000,000	9
SEP DELIVERY MTB-EPC	SEP 1 - SEP 30	\$0.39372	132,000,000	34
SEP DELIVERY TX-ALL	SEP 1 - SEP 30	\$0.39372	132,000,000	34
SEP DELIVERY MTB-EPC	AUG 16 - SEP 30	\$0.40362	162,000,000	43
SEP DELIVERY TX-ALL	AUG 16 - SEP 30	\$0.40362	162,000,000	43
AUG DELIVERY MTB-EPC	AUG 1 - AUG 31	\$0.46674	139,000,000	35
AUG DELIVERY TX-ALL	AUG 1 - AUG 31	\$0.46674	139,000,000	35
AUG DELIVERY MTB-EPC	JUL 16 - AUG 31	\$0.46674	139,000,000	35
AUG DELIVERY TX-ALL	JUL 16 - AUG 31	\$0.46674	139,000,000	35

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SPOT POLYMER GRADE DEALS FOR SEP DELIVERY AUG 16 - SEP 30

SEP POLYMER GRADE LOW-HIGH RANGES

SEP 1-30 *MTB-EPC*: \$0.34 / \$0.45

SEP 1-30 *TX-ALL*: \$0.34 / \$0.45

AUG 16 - SEP 30 *MTB-EPC*: \$0.34 / \$0.455

AUG 16 - SEP 30 *TX-ALL*: \$0.34 / \$0.455

	PGP		
16-Aug			
17-Aug			
18-Aug	0.44000	MtB-EPC	
19-Aug	0.43500	MtB-EPC	
22-Aug			
23-Aug	0.44000	MtB-EPC	
24-Aug	0.45000	MtB-EPC	
25-Aug			
26-Aug	0.45500	MtB-EPC	
	0.45500	MtB-EPC	
29-Aug			
30-Aug	0.45000	MtB-EPC	
31-Aug	0.45000	MtB-EPC	
	0.45000	MtB-EPC	
1-Sep	0.45000	MtB-EPC	
	0.45000	MtB-EPC	
2-Sep			
6-Sep	0.45000	MtB-EPC	*
	0.45000	MtB-EPC	*
7-Sep	0.42000	MtB-EPC	
	0.42000	MtB-EPC	

	PGP		
	0.42000	MtB-EPC	
8-Sep	0.42000	MtB-EPC	
	0.42000	MtB-EPC	
	0.42000	MtB-EPC	
	0.42000	MtB-EPC	
9-Sep	0.42000	MtB-EPC	
	0.41750	MtB-EPC	
12-Sep	0.41750	MtB-EPC	
	0.42000	MtB-EPC	
	0.42000	MtB-EPC	
13-Sep			
14-Sep			
15-Sep	0.38000	MtB-EPC	*
	0.38000	MtB-EPC	
	0.38000	MtB-EPC	
16-Sep			
19-Sep	0.36750	MtB-EPC	
20-Sep	0.35250	MtB-EPC	
	0.35250	MtB-EPC	
	0.35250	MtB-EPC	
	0.35000	MtB-EPC	

	PGP		
	0.34000	MtB-EPC	
	0.34000	MtB-EPC	
21-Sep	0.34000	MtB-EPC	*
	0.34000	MtB-EPC	
22-Sep			
23-Sep			
26-Sep	0.34375	MtB-EPC	
27-Sep	0.34500	MtB-EPC	
	0.34500	MtB-EPC	
28-Sep			
29-Sep			
30-Sep			

* dated delivery

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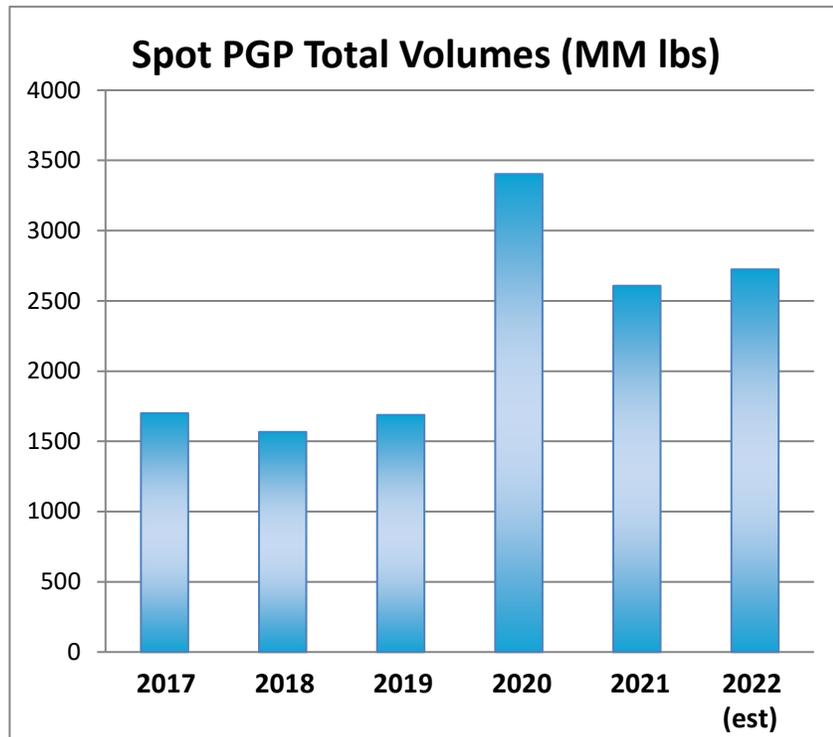
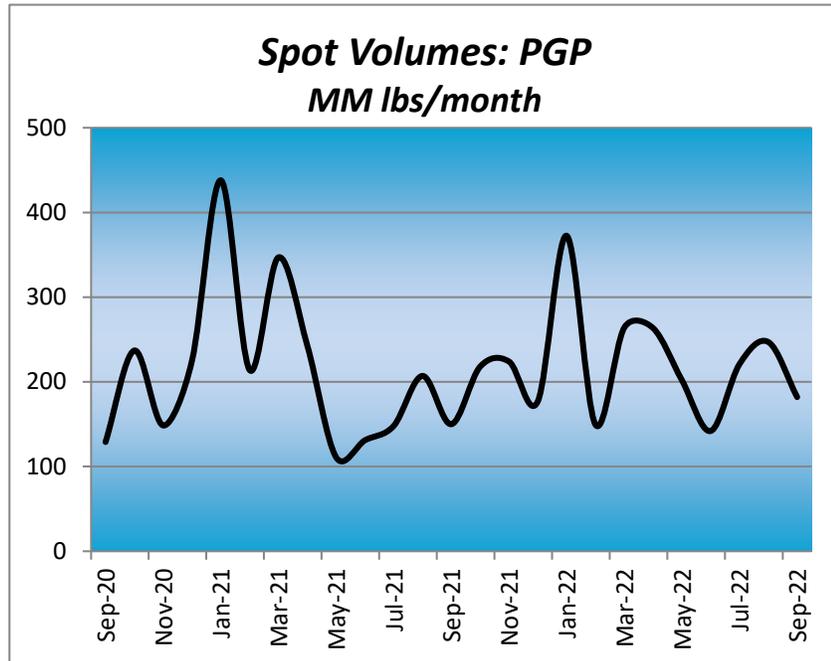
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AVG PER MONTH	
2017	141.71
2018	130.58
2019	140.69
2020	283.62
2021	217.33
2022	227.06

TOTAL VOLUMES	
2017	1700.50
2018	1567.00
2019	1688.30
2020	3403.47
2020	2608.00
2022	2724.67

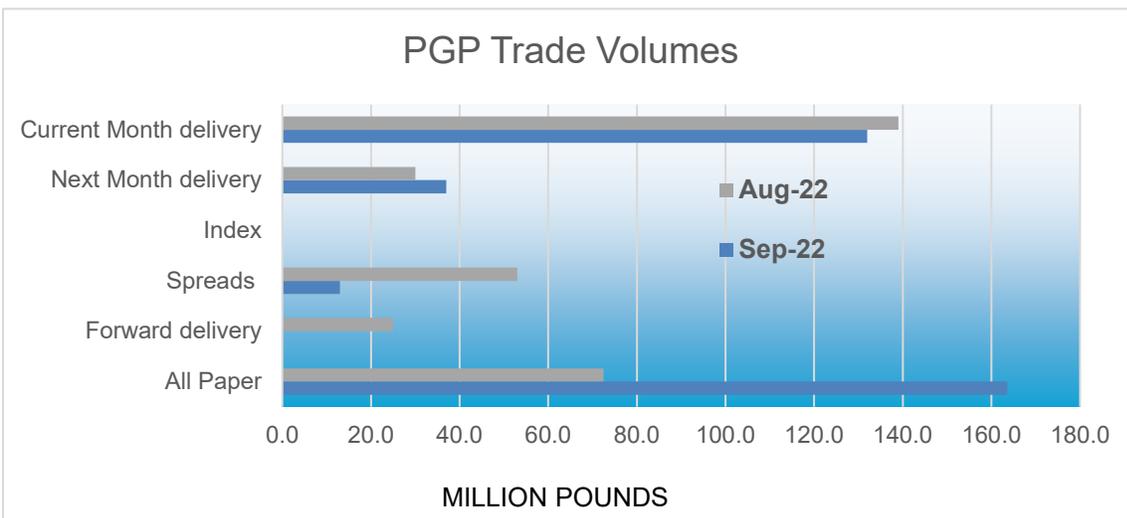
MONTH	MM LBS
Sep-20	129.00
Oct-20	237.00
Nov-20	148.50
Dec-20	225.00
Jan-21	438.00
Feb-21	214.00
Mar-21	347.00
Apr-21	243.00
May-21	111.00
Jun-21	131.00
Jul-21	148.00
Aug-21	207.00
Sep-21	150.00
Oct-21	218.00
Nov-21	224.00
Dec-21	177.00
Jan-22	372.50
Feb-22	149.50
Mar-22	264.00
Apr-22	263.50
May-22	202.00
Jun-22	142.00
Jul-22	221.00
Aug-22	247.00
Sep-22	182.00

SPOT PGP VOLUME SUMMARY

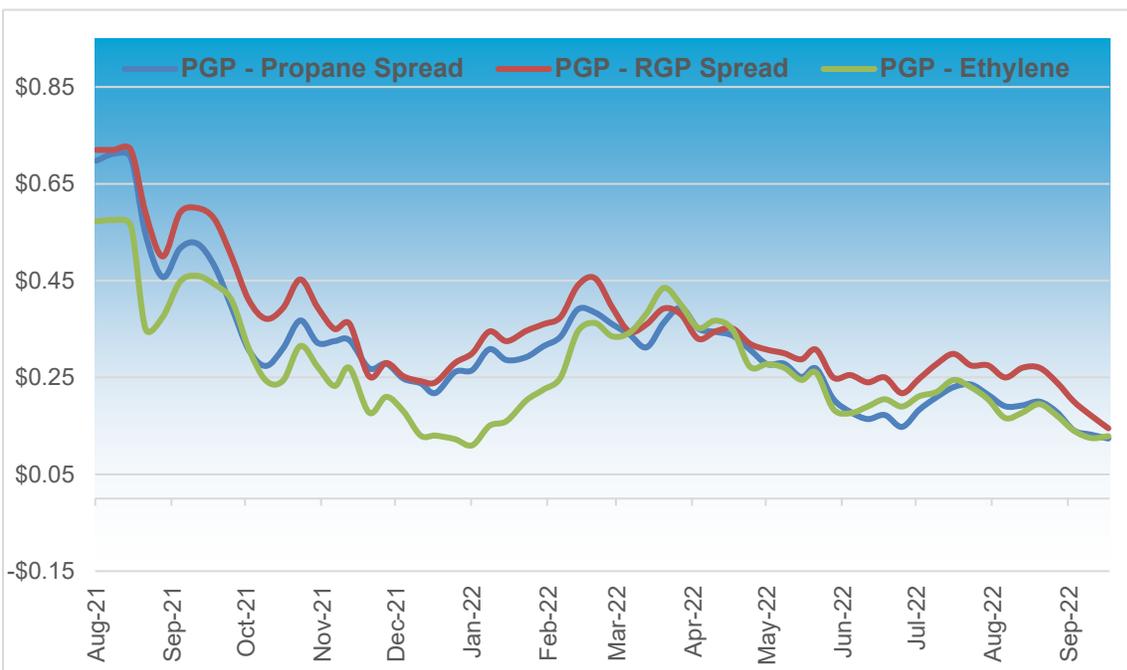


PETROCHEM WIRE

BY OPIS, A DOW JONES COMPANY



	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22
All Paper	124	185	157	72	73	164
Forward delivery	18	45	10	2	25	0
Spreads	23	6	24	49	53	13
Index	25	15	5	0	0	0
Next Month delivery	0	13	15	0	30	37
Current Month delivery	198	123	88	170	139	132



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RGP SPOT MARKET SUMMARY

FIXED PRICE SUMMARY	DELIVERY MODE	TRADE DATES	WTD AVG PRICE	VOLUME (BBL)	DEAL #
OCT DELIVERY MTB-EPC	PIPE	SEP 16 - SEP 30	\$0.15500	150,000	2
OCT DELIVERY TX-ALL	ALL	SEP 16 - SEP 30	\$0.18578	199,000	5
OCT DELIVERY NON-TX	ALL	SEP 16 - SEP 30	-	-	-
OCT DELIVERY TX & NON-TX	ALL	SEP 16 - SEP 30	\$0.18578	199,000	5
SEP DELIVERY MTB-EPC	PIPE	SEP 1 - SEP 30	\$0.18000	125,000	4
SEP DELIVERY TX-ALL	ALL	SEP 1 - SEP 30	\$0.19914	139,000	5
SEP DELIVERY NON-TX	ALL	SEP 1 - SEP 30	-	-	-
SEP DELIVERY TX & NON-TX	ALL	SEP 1 - SEP 30	\$0.19914	139,000	5
SEP DELIVERY MTB-EPC	PIPE	AUG 16 - SEP 30	\$0.18000	125,000	4
SEP DELIVERY TX-ALL	ALL	AUG 16 - SEP 30	\$0.28280	249,200	10
SEP DELIVERY NON-TX	ALL	AUG 16 - SEP 30	-	-	-
SEP DELIVERY TX & NON-TX	ALL	AUG 16 - SEP 30	\$0.28280	249,200	10
AUG DELIVERY MTB-EPC	PIPE	AUG 1 - AUG 31	\$0.18833	150,000	4
AUG DELIVERY TX-ALL	ALL	AUG 1 - AUG 31	\$0.25695	216,675	7
AUG DELIVERY NON-TX	ALL	AUG 1 - AUG 31	-	-	-
AUG DELIVERY TX & NON-TX	ALL	AUG 1 - AUG 31	\$0.25695	216,675	7
AUG DELIVERY MTB-EPC	PIPE	JUL 16 - AUG 31	\$0.18833	150,000	4
AUG DELIVERY TX-ALL	ALL	JUL 16 - AUG 31	\$0.28525	273,175	10
AUG DELIVERY NON-TX	ALL	JUL 16 - AUG 31	-	-	-
AUG DELIVERY TX & NON-TX	ALL	JUL 16 - AUG 31	\$0.28525	273,175	10
JUL DELIVERY MTB-EPC	PIPE	JUL 1 - JUL 31	\$0.19100	125,000	5
JUL DELIVERY TX-ALL	ALL	JUL 1 - JUL 31	\$0.25074	191,525	8
JUL DELIVERY NON-TX	ALL	JUL 1 - JUL 31	-	-	-
JUL DELIVERY TX & NON-TX	ALL	JUL 1 - JUL 31	\$0.25074	191,525	8
JUL DELIVERY MTB-EPC	PIPE	JUN 16 - JUL 31	\$0.19100	125,000	5
JUL DELIVERY TX-ALL	ALL	JUN 16 - JUL 31	\$0.25954	205,525	9
JUL DELIVERY NON-TX	ALL	JUN 16 - JUL 31	-	-	-
JUL DELIVERY TX & NON-TX	ALL	JUN 16 - JUL 31	\$0.25954	205,525	9

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PETROCHEM WIRE

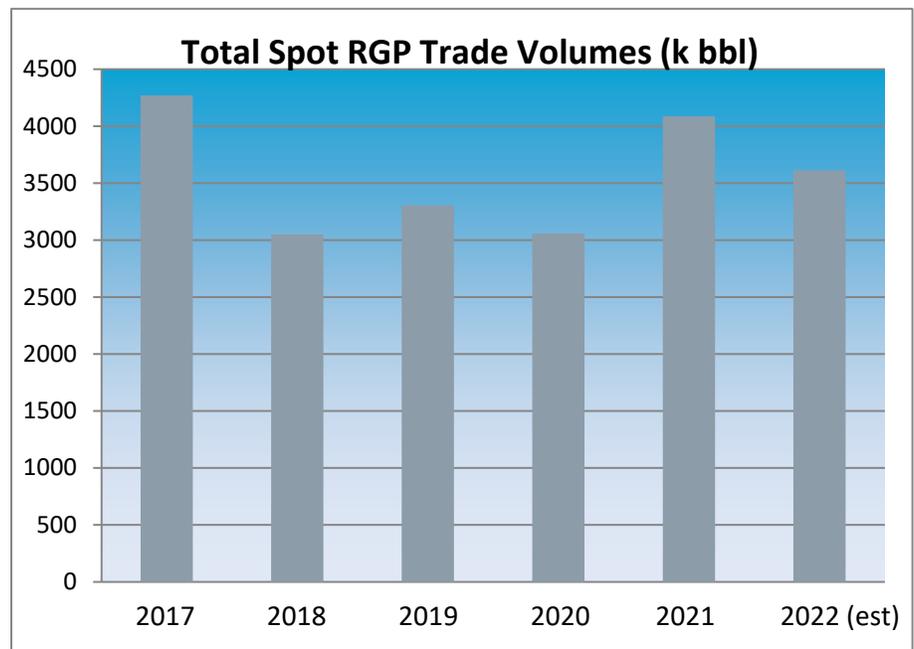
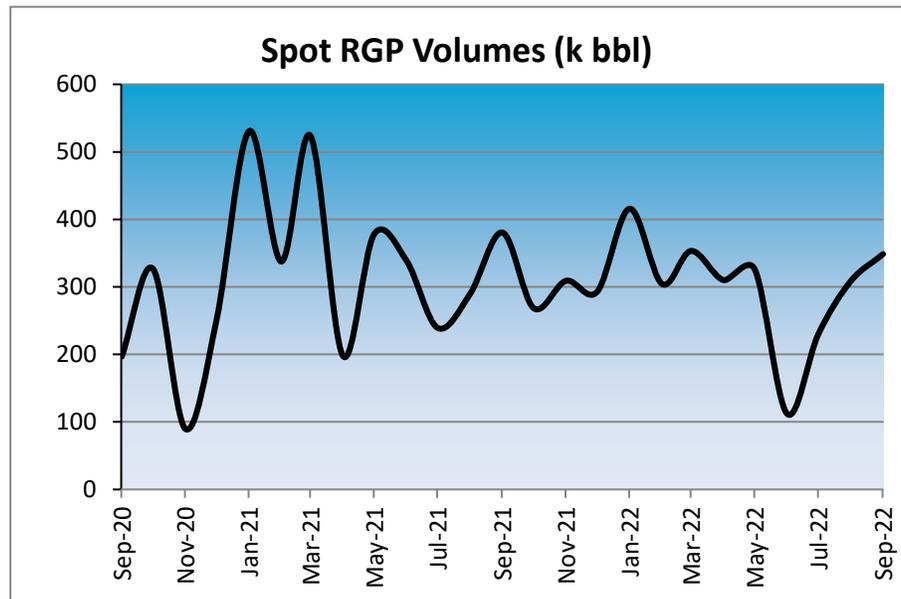
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AVG PER MONTH	
2017	355.98
2018	254.25
2019	275.38
2020	255.00
2021	340.52
2022	300.95

TOTAL VOLUMES	
2017	4271.80
2018	3051.05
2019	3304.50
2020	3060.00
2021	4086.20
2022	3611.39

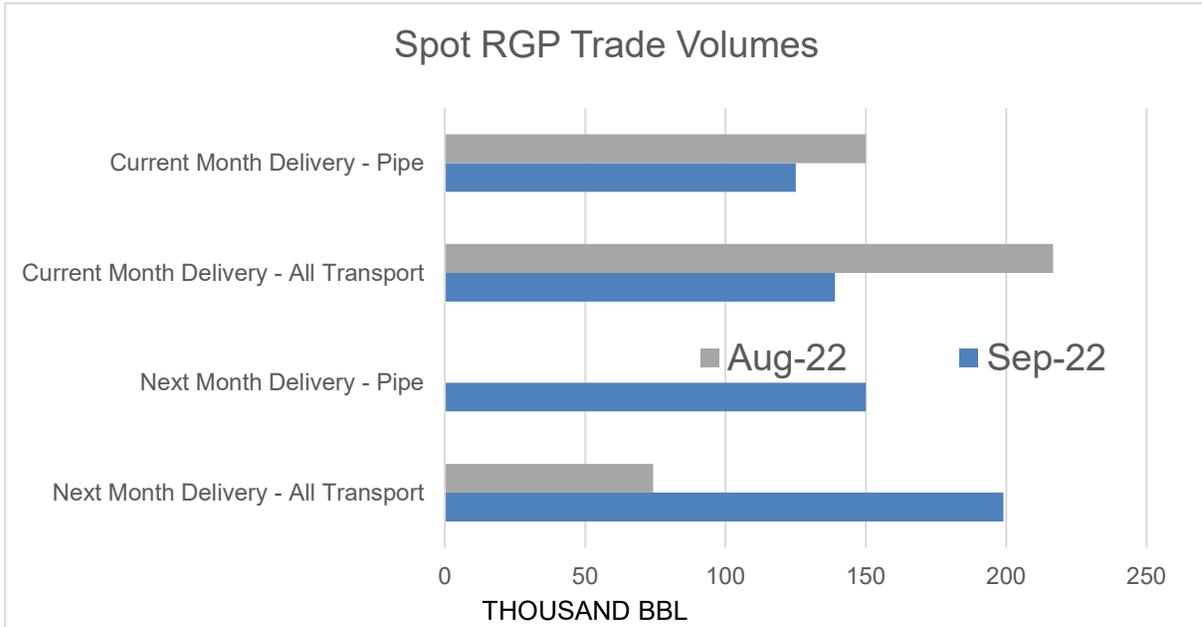
MONTH	000 BBL
Sep-20	196.80
Oct-20	326.70
Nov-20	89.70
Dec-20	251.65
Jan-21	530.50
Feb-21	337.50
Mar-21	523.50
Apr-21	198.00
May-21	378.00
Jun-21	339.00
Jul-21	239.20
Aug-21	289.50
Sep-21	380.50
Oct-21	268.50
Nov-21	309.00
Dec-21	293.00
Jan-22	415.80
Feb-22	304.40
Mar-22	353.30
Apr-22	310.00
May-22	326.04
Jun-22	112.10
Jul-22	230.03
Aug-22	308.38
Sep-22	348.50

SPOT RGP VOLUME SUMMARY

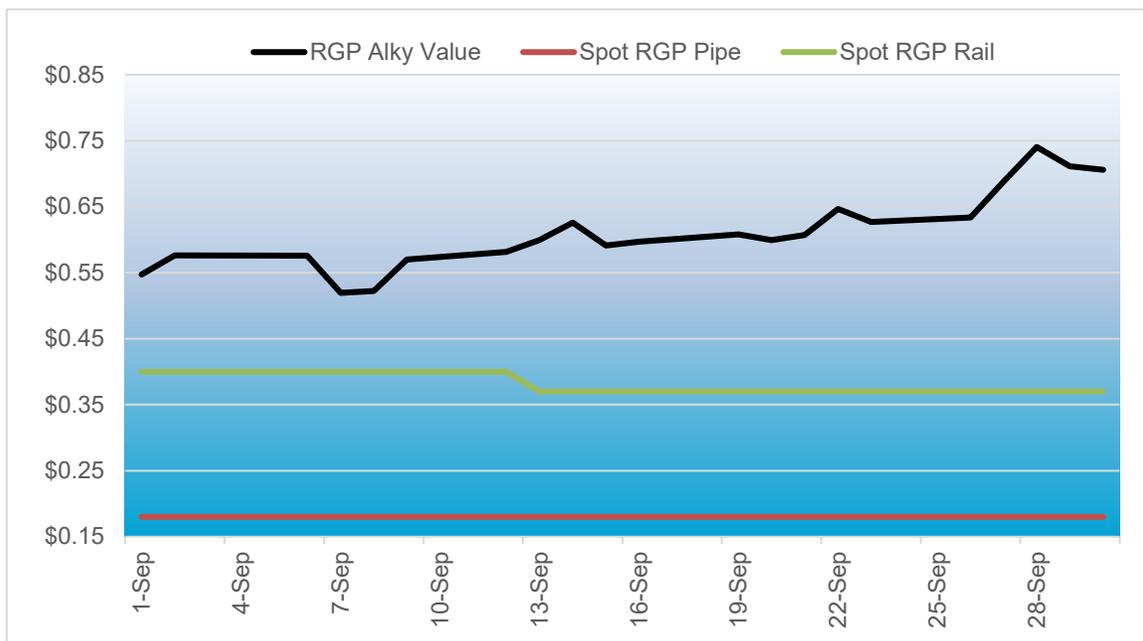


PETROCHEM WIRE

BY OPIS, A DOW JONES COMPANY



	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22
Next Month Delivery - All Transport	31.5	71.2	14.0	38.5	74.2	199.0
Next Month Delivery - Pipe	0.0	25.0	0.0	0.0	0.0	150.0
Current Month Delivery - All Transport	278.5	219.8	98.1	191.5	216.7	139.0
Current Month Delivery - Pipe	150.0	150.0	75.0	125.0	150.0	125.0



PETROCHEM WIRE

BY OPIS, A DOW JONES COMPANY

MONTHLY CALENDAR AVERAGE PRICE HISTORY

	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22
HDPE BM FOB Houston	0.77476	0.75095	0.70750	0.58952	0.56000	0.55105	0.59565	0.63950	0.65071	0.56571	0.50350	0.40304	0.38048
LLDPE FOB Houston	0.69286	0.67000	0.63550	0.59810	0.59700	0.63684	0.67739	0.70100	0.71667	0.66381	0.58400	0.43609	0.39095
HoPP Inj FOB Houston	1.16476	0.99571	0.95700	0.77810	0.71200	0.77474	0.85826	0.92775	0.88190	0.82095	0.70950	0.67565	0.60095
HoPP Raff FOB Houston	1.16476	0.99571	0.95700	0.77810	0.71200	0.77474	0.85826	0.92775	0.88190	0.82143	0.70950	0.67609	0.60095
HDPE BM FOB Chicago	0.99000	0.94727	0.83200	0.72333	0.69150	0.69211	0.71087	0.73350	0.73571	0.70048	0.63350	0.53739	0.49667
LLDPE FOB Chicago	0.89381	0.85364	0.79250	0.71095	0.71050	0.72684	0.72174	0.74450	0.75476	0.74190	0.67300	0.57870	0.52762
HoPP FOB Chicago	1.27524	1.05955	0.99000	0.87048	0.85200	0.89684	0.98391	1.03450	1.00000	0.89476	0.75950	0.72478	0.65667
HDPE BM Delivered	1.04333	0.98381	0.88175	0.76524	0.73350	0.72632	0.74217	0.77950	0.77714	0.74214	0.67500	0.58370	0.53000
HDPE Inj Delivered	1.04524	0.91119	0.86450	0.77333	0.74650	0.74421	0.74522	0.78050	0.77714	0.73833	0.68100	0.59630	0.54262
HMWPE Film Delivered	0.90857	0.88000	0.83300	0.76857	0.74650	0.73947	0.73043	0.74750	0.78476	0.75524	0.69675	0.62043	0.55619
LLDPE Delivered	0.92143	0.87690	0.82900	0.74810	0.74200	0.76579	0.76652	0.79050	0.79119	0.77405	0.69925	0.63087	0.56429
LDPE Film Delivered	1.07714	1.03381	0.93650	0.84262	0.83000	0.84316	0.84696	0.86950	0.86048	0.85190	0.82650	0.76913	0.69571
HoPP Delivered	1.35810	1.10071	1.05675	0.94429	0.88700	0.94053	1.04913	1.07600	1.06524	0.95333	0.80450	0.77348	0.70751
CoPP Delivered	1.37810	1.20190	1.12000	0.98238	0.92250	0.98474	1.08565	1.12450	1.11952	1.00524	0.85750	0.81522	0.73762
GPPS Delivered	0.98000	0.99571	0.99900	0.96667	0.95250	0.98000	1.01652	1.09000	1.14000	1.19000	1.25600	1.17348	0.97905
HIPS Delivered	1.12857	1.10000	1.10000	1.05952	1.00550	1.07421	1.16522	1.27650	1.25238	1.27857	1.33600	1.25304	1.04952
Ethylene FOB Mt B	0.38554	0.35381	0.35206	0.32143	0.41050	0.38118	0.30946	0.28044	0.28917	0.27810	0.23925	0.26130	0.22899
PGP FOB Mt B	0.82256	0.67077	0.61625	0.48863	0.54669	0.63059	0.68283	0.65656	0.56333	0.47649	0.45269	0.45848	0.38161
Styrene FOB USG	0.59690	0.61695	0.63185	0.57724	0.62870	0.67982	0.77688	0.91851	1.01290	0.93843	0.80083	0.54790	0.51128

Prices are Calendar Averages, reflecting the arithmetic average of PCW's daily closing prices for the calendar month.

FOB polymer prices are for bulk railcar volumes and do not include freight costs.

Delivered polymer prices are domestic resale prices (distributor selling prices) delivered East of the Rocky Mountains.

Monomer pricing is basis FOB Mont Belvieu for Ethylene and Propylene and FOB US Gulf for Styrene.