

## NYMEX/COMEX Exchange ADV Report - Monthly

July 2018

Page 1 of 21

Commodity		ADV JUL 2018	ADV JUL 2017	% CHG	ADV JUN 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
<b>Metals Futures</b>									
COMEX GOLD	GC	344,341	297,851.9	15.6%	273,283.33	26.0%	353,276	264,371.26	33.6%
NYMEX HOT ROLLED STEEL	HR	517	331.95	55.8%	248.86	107.8%	458	215.05	112.8%
NYMEX PLATINUM	PL	18,739	16,053.1	16.7%	31,088.71	-39.7%	22,025	18,162.53	21.3%
PALLADIUM	PA	4,696	4,136.25	13.5%	4,460.05	5.3%	5,680	5,824.77	-2.5%
URANIUM	UX	25	14.3	73.5%	20.52	20.9%	13	29.14	-53.8%
COMEX SILVER	SI	75,353	91,485.9	-17.6%	118,397.19	-36.4%	99,872	89,281.87	11.9%
COMEX E-Mini GOLD	QO	548	360.75	52.0%	246.43	122.5%	358	407.5	-12.3%
COMEX E-Mini SILVER	QI	53	45.75	16.9%	75.52	-29.2%	59	44.13	32.9%
COMEX COPPER	HG	134,914	87,025.05	55.0%	172,371.81	-21.7%	139,584	96,832.63	44.1%
COMEX MINY COPPER	QC	17	18.5	-7.3%	19.9	-13.9%	24	37.79	-35.8%
ALUMINUM	A38	0	0	-	0	-	0	0.21	-100.0%
ALUMINUM	AEP	34	36	-6.1%	45.71	-26.0%	79	122.68	-35.7%
ALUMINUM	ALA	46	12.5	267.6%	14.29	221.7%	34	3.1	995.8%
ALUMINUM	ALI	0	16.6	-100.0%	0	-	0	37.95	-100.0%
ALUMINUM	AUP	248	236.6	4.7%	341.67	-27.5%	488	356.36	37.1%
ALUMINUM	CUP	0	0	-	0	-	1	0	-
ALUMINUM	EDP	76	24	215.5%	8.57	783.3%	70	31.24	124.7%
ALUMINUM	MJP	25	132.7	-81.3%	18.1	36.8%	57	57.51	-0.3%
COPPER	HGS	0	1.1	-100.0%	24.57	-100.0%	73	6.79	972.7%
E-MICRO GOLD	MGC	6,031	4,072.8	48.1%	5,341.67	12.9%	6,210	4,179.81	48.6%
FERROUS PRODUCTS	BUS	35	1.5	2261.9%	7.38	380.0%	77	3.66	1998.5%
GOLD	GPS	0	0.05	-100.0%	0	-	0	0.01	-100.0%
Gold Kilo	GCK	0	12.9	-100.0%	0	-	1	17.48	-94.7%
IRON ORE 62 CHINA PLATTS FUTURES	PIO	0	203.5	-100.0%	0	-	0	42.84	-100.0%
IRON ORE 62 CHINA TSI FUTURES	TIO	231	224.15	2.9%	131.71	75.1%	187	489.03	-61.7%
LNDN ZINC	ZNC	73	0	-	53.14	37.8%	19	0.59	3207.8%
SILVER	SIL	316	271.55	16.5%	463.24	-31.7%	351	253.91	38.1%
<b>Metals Options</b>									
COMEX COPPER	HX	1,673	299.45	458.8%	1,581.95	5.8%	1,177	197.17	497.1%
COMEX GOLD	OG	44,139	39,470.6	11.8%	45,701.57	-3.4%	45,904	38,423.74	19.5%
COMEX SILVER	SO	6,856	6,569.35	4.4%	9,134.86	-24.9%	7,316	5,596.59	30.7%
COPPER	H1E	0	0	-	0	-	0	0	-
COPPER	H2E	2	0	-	0.33	571.5%	0	0	-

## NYMEX/COMEX Exchange ADV Report - Monthly

July 2018

Page 2 of 21

Commodity		ADV JUL 2018	ADV JUL 2017	% CHG	ADV JUN 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
<b>Metals Options</b>									
COPPER	H3E	0	0	-	0.24	-100.0%	0	0	-
COPPER	H4E	4	0	-	1.19	220.0%	1	0	-
GOLD	OG1	733	149.6	390.1%	294.9	148.6%	512	132.37	287.1%
GOLD	OG2	618	148.8	315.2%	352.67	75.2%	434	138.25	213.6%
GOLD	OG3	673	84.5	696.1%	586.1	14.8%	514	173.03	197.1%
GOLD	OG4	341	128.4	165.5%	377.48	-9.7%	292	77.48	277.2%
GOLD	OG5	0	0	-	406.67	-100.0%	105	39.94	163.7%
HOT ROLLED COIL STEEL CALL OPTION	HRO	0	0	-	0	-	0	0	-
IRON ORE 62 CHINA TSI CALL OPTION	ICT	0	15	-100.0%	0	-	1	58.29	-97.6%
IRON ORE 62 CHINA TSI PUT OPTION	ICT	0	129	-100.0%	9.52	-100.0%	9	118.59	-92.6%
NIKKEI 225 (YEN) STOCK	H1E	1	0	-	0	-	0	0	-
NYMEX PLATINUM	PO	322	161.95	98.7%	278.05	15.7%	194	123.81	56.9%
PALLADIUM	PAO	98	336.55	-70.9%	123.48	-20.7%	145	220.16	-34.0%
SILVER	SO1	54	0.7	7648.3%	22.19	144.4%	16	3.61	345.3%
SILVER	SO2	28	1.2	2205.6%	25.95	6.6%	12	1.3	847.2%
SILVER	SO3	72	0	-	38.19	87.9%	22	3.91	473.5%
SILVER	SO4	13	0.85	1435.0%	23.9	-45.4%	9	0.79	989.0%
SILVER	SO5	0	0	-	49.9	-100.0%	8	0.02	38977.8%
<b>Energy Futures</b>									
CRUDE OIL PHY	CL	1,097,916	1,380,905.05	-20.5%	1,360,838.24	-19.3%	1,307,210	1,206,106.13	8.4%
CRUDE OIL	WS	229	285.2	-19.9%	95.24	140.0%	104	268.85	-61.4%
MINY WTI CRUDE OIL	QM	19,198	12,711.15	51.0%	18,134.81	5.9%	16,301	12,518.52	30.2%
BRENT OIL LAST DAY	BZ	78,620	71,749.8	9.6%	104,385.86	-24.7%	88,015	95,031.3	-7.4%
HEATING OIL PHY	HO	158,391	180,054.35	-12.0%	178,002.1	-11.0%	188,697	167,966.46	12.3%
HTG OIL	BH	2	1.8	-4.8%	0	-	1	1.16	-50.3%
MINY HTG OIL	QH	0	0.2	-4.8%	0.14	33.3%	0	0.12	21.4%
RBOB PHY	RB	188,543	203,288.4	-7.3%	198,808.24	-5.2%	197,735	201,018.94	-1.6%
MINY RBOB GAS	QU	0	0.15	27.0%	0.19	0.0%	0	0.21	-26.3%
NATURAL GAS	HP	3,564	5,973.3	-40.3%	2,646.67	34.7%	5,607	7,378.52	-24.0%
LTD NAT GAS	HH	12,573	12,742	-1.3%	14,038.14	-10.4%	16,363	14,302.73	14.4%
MINY NATURAL GAS	QG	879	828.3	6.1%	887.43	-0.9%	1,274	1,273.03	0.1%
PJM MONTHLY	JM	0	0	-	0	-	0	0.83	-100.0%

## NYMEX/COMEX Exchange ADV Report - Monthly

July 2018

Page 3 of 21

Commodity		ADV JUL 2018	ADV JUL 2017	% CHG	ADV JUN 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
<b>Energy Futures</b>									
NATURAL GAS PHY	NG	337,696	375,764.15	-10.1%	381,448.33	-11.5%	422,486	418,229.45	1.0%
RBOB GAS	RT	2	259.1	-99.3%	0	-	98	110.01	-10.5%
3.5% FUEL OIL CID MED SWA	7D	0	0.25	-100.0%	0	-	3	6.05	-48.8%
3.5% FUEL OIL CIF BALMO S	8D	0	0	-	0	-	1	1.17	-44.5%
AEP-DAYTON HUB DAILY	VD	0	0	-	0	-	0	0	-
AEP-DAYTON HUB MTHLY	VM	0	0	-	0	-	0	0	-
AEP-DAYTON HUB OFF-PEAK M	VP	0	0	-	0	-	0	0	-
ALGON CITY GATES NAT GAS	N7	0	0	-	0	-	0	0	-
ALGONQUIN CITYGATES BASIS	B4	0	0	-	0	-	0	0	-
ANR LOUISIANA BASIS SWAP	ND	0	0	-	0	-	0	0	-
ANR OKLAHOMA	NE	0	0	-	0	-	0	0	-
ARGUS LLS VS. WTI (ARG) T	E5	570	307.75	85.2%	1,188.52	-52.0%	1,179	294.9	299.7%
ARGUS PROPAN FAR EST INDE	7E	187	177.05	5.4%	165.33	12.8%	276	90.31	205.7%
ARGUS PROPAN(SAUDI ARAMCO	9N	96	41.85	130.3%	63.57	51.6%	117	45.48	158.3%
AUSTRIALIAN COKE COAL	ACT	0	0	-	0	-	0	0	-
AUSTRIALIAN COKE COAL	ALW	0	0	-	0	-	0	6.85	-100.0%
BRENT BALMO SWAP	J9	6	9.5	-32.3%	0	-	1	3.3	-61.6%
BRENT CALENDAR SWAP	CY	79	197.95	-59.9%	129.86	-38.8%	171	116.69	46.7%
BRENT CFD SWAP	6W	0	0	-	0	-	2	0	-
BRENT FINANCIAL FUTURES	BB	0	41.75	-100.0%	108.95	-100.0%	91	282.83	-67.9%
BRENT FINANCIAL FUTURES	MBC	6	0	-	0	-	1	0	-
BRENT FINANCIAL FUTURES	MDB	0	4	-100.0%	0	-	2	1.38	11.2%
BRENT OIL LAST DAY	BZL	0	0	-	0	-	0	0	-
BRENT OIL LAST DAY	BZS	0	0	-	0	-	0	0	-
CAISO SP15 EZGNHUB5 MW P	9X	0	0	-	0	-	0	54.76	-100.0%
CAISO SP15 EZGNHUB5 PEAK	9Z	0	0	-	0	-	0	0	-
CANADIAN LIGHT SWEET OIL	CIL	0	0.75	-100.0%	0	-	0	48.27	-100.0%
CENTERPOINT BASIS SWAP	PW	0	0	-	0	-	0	3.68	-93.3%
CEU ENERGY	DEB	0	0	-	0	-	14	0	-
CEU ENERGY	TTF	23	0	-	52.48	-56.3%	49	0	-
CEU ENERGY	UKG	302	0	-	439.95	-31.4%	270	0	-
CHICAGO ETHANOL SWAP	CU	3,188	3,629.7	-12.2%	3,938.19	-19.0%	4,741	5,484.83	-13.6%
CHICAGO ULSD (PLATTS) SWA	4C	0	0	-	0	-	0	0	-
CHICAGO ULSD PL VS HO SPR	5C	26	4.95	429.1%	31.52	-16.9%	17	6.77	156.5%
CHICAGO UNL GAS PL VS RBO	3C	6	0	-	4.76	25.0%	5	0	-
CIG BASIS	CI	0	27	-100.0%	0	-	1	5.01	-73.2%

## NYMEX/COMEX Exchange ADV Report - Monthly

July 2018

Page 4 of 21

Commodity		ADV JUL 2018	ADV JUL 2017	% CHG	ADV JUN 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
<b>Energy Futures</b>									
CIG ROCKIES NG INDEX SWA	Z8	0	0	-	0	-	0	4.97	-100.0%
CINERGY HUB OFF-PEAK MONT	EJ	0	0	-	0	-	0	0	-
CINERGY HUB PEAK MONTH	EM	0	0	-	0	-	0	0	-
CIN HUB 5MW D AH O PK	K2	0	4,000	-100.0%	0	-	0	1,811.59	-100.0%
CIN HUB 5MW D AH PK	H5	58	42.75	35.4%	76.38	-24.2%	60	94.26	-36.1%
CIN HUB 5MW REAL TIME O P	H4	0	5,212	-100.0%	0	-	0	2,627.59	-100.0%
CIN HUB 5MW REAL TIME PK	H3	11	110.25	-90.1%	0	-	2	172.24	-99.1%
COAL SWAP	ACM	1	1.25	14.3%	5.71	-75.0%	3	8.14	-62.1%
COAL SWAP	SSI	0	0	-	0	-	0	0	-
COLUMB GULF MAINLINE NG B	5Z	0	49.95	-100.0%	0	-	0	6.89	-100.0%
COLUMBIA GULF ONSHORE	GL	0	66.6	-100.0%	0	-	0	9.19	-100.0%
CONWAY NATURAL GASOLINE (OPIS) SWA	8L	4	12.1	-65.0%	4.86	-12.7%	9	12.34	-27.1%
CONWAY NORMAL BUTANE (OPIS) SWAP	8M	10	16.95	-41.3%	77.71	-87.2%	17	36.3	-54.2%
CONWAY PROPANE 5 DECIMALS SWAP	8K	636	543.25	17.1%	800.38	-20.5%	760	422.68	79.8%
CRUDE OIL	LPS	245	293.5	-16.4%	214.29	14.4%	233	188.97	23.1%
CRUDE OIL OUTRIGHTS	42	12	4.3	169.1%	19.62	-41.0%	12	26.49	-53.5%
CRUDE OIL OUTRIGHTS	CC5	0	0	-	0	-	0	4.14	-100.0%
CRUDE OIL OUTRIGHTS	CPD	0	0	-	0	-	20	0	-
CRUDE OIL OUTRIGHTS	CSN	0	0	-	0	-	0	0.21	-100.0%
CRUDE OIL OUTRIGHTS	CSW	0	21	-100.0%	0	-	0	13.1	-99.7%
CRUDE OIL OUTRIGHTS	DBL	0	5	-100.0%	0	-	1	7.24	-90.6%
CRUDE OIL OUTRIGHTS	FE	0	11.5	-100.0%	0	-	0	2.28	-100.0%
CRUDE OIL OUTRIGHTS	GSW	0	0	-	0	-	1	0.76	-5.2%
CRUDE OIL OUTRIGHTS	HTT	1,915	287	567.4%	2,645.14	-27.6%	2,551	435.69	485.5%
CRUDE OIL OUTRIGHTS	LSW	0	0	-	0	-	2	1.66	20.0%
CRUDE OIL OUTRIGHTS	SSW	0	18	-100.0%	0	-	0	4.86	-100.0%
CRUDE OIL OUTRIGHTS	UMD	0	0	-	0	-	33	0	-
CRUDE OIL OUTRIGHTS	UNS	0	0	-	0	-	52	0	-
CRUDE OIL OUTRIGHTS	WCC	0	30.75	-100.0%	0	-	0	170.6	-100.0%
CRUDE OIL OUTRIGHTS	WCW	131	534.75	-75.4%	109.1	20.4%	370	204.9	80.3%
CRUDE OIL PHY	CLL	0	0	-	0	-	0	0	-
CRUDE OIL SPRDS	38	0	0	-	0	-	14	0	-
CRUDE OIL SPRDS	WTT	1,416	65	2077.7%	1,812.05	-21.9%	2,353	235.44	899.3%
CRUDE OIL TRADE AT MARKER SINGAPOR	CLS	0	0	-	0	-	0	0	-
DAILY PJM	AOR	0	0	-	0	-	0	0	-
DAILY PJM	IDO	0	0	-	0	-	0	0	-

## NYMEX/COMEX Exchange ADV Report - Monthly

July 2018

Page 5 of 21

Commodity		ADV JUL 2018	ADV JUL 2017	% CHG	ADV JUN 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
<b>Energy Futures</b>									
DAILY PJM	NOC	0	0	-	0	-	0	0	-
DAILY PJM	PAP	0	0	-	0	-	0	0	-
DAILY PJM	PEO	0	0	-	0	-	0	0	-
DAILY PJM	PNO	0	0	-	0	-	0	0	-
DAILY PJM	PNP	0	0	-	0	-	0	0	-
DAILY PJM	PWO	0	0	-	0	-	0	0	-
DAILY PJM	PWP	0	0	-	0	-	0	0	-
DAILY PJM	WOR	0	0	-	0	-	0	0	-
DAILY PJM	ZAO	0	0	-	0	-	0	0	-
DAILY PJM	ZGO	0	0	-	0	-	0	0	-
DAILY PJM	ZJO	0	0	-	0	-	0	0	-
DATED BRENT (PLATTS) DAILY SWAP	7G	0	0	-	0	-	0	9.66	-100.0%
DATED TO FRONTLINE BRENT	FY	4	129	-96.9%	18.57	-78.2%	21	66.21	-67.6%
DIESEL 10P BRG FOB RDM VS	7X	0	0	-	0	-	0	0	-
DIESEL 10PPM BARGES FOB B	U7	0	0.15	-100.0%	0	-	0	0.02	-100.0%
DOMINION TRAN INC - APP I	IH	0	0	-	0	-	0	0	-
DOMINION TRANSMISSION INC	PG	0	304.05	-100.0%	0	-	1	334.59	-99.7%
DUBAI CRUDE OIL BALMO	BI	0	0	-	0	-	1	0	-
DUBAI CRUDE OIL CALENDAR	DC	99	273	-63.8%	12.9	665.7%	96	460.68	-79.1%
DY EURO 3.5% FUEL OI RDA	FOR	0	0	-	0	-	0	10.34	-100.0%
EASTERN RAIL DELIVERY CSX	QX	1	0	-	2.14	-66.7%	2	29.07	-94.2%
EAST/WEST FUEL OIL SPREAD	EW	1	0.5	185.7%	0	-	1	8.66	-85.2%
EIA FLAT TAX ONHWAY DIESE	A5	1	33.7	-95.6%	27.24	-94.6%	10	42.19	-76.0%
ELEC ERCOT DLY OFF PK	I4	0	0	-	0	-	0	0	-
ELEC ERCOT DLY PEAK	I3	0	0	-	0	-	0	0	-
ELEC ERCOT DLY PEAK	I7	0	0	-	0	-	0	0	-
ELEC ERCOT OFF PEAK	I2	0	0	-	0	-	134	0	-
ELEC FINSETTLED	47	0	0	-	0	-	0	0	-
ELEC FINSETTLED	49	0	0	-	0	-	0	0	-
ELEC MISO PEAK	4L	0	0	-	0	-	0	26.38	-100.0%
ELEC MISO PEAK	55	0	0	-	0	-	0	0	-
ELEC NYISO OFF-PEAK	4M	0	0	-	0	-	0	484.14	-100.0%
ELEC NYISO OFF-PEAK	58	0	0	-	0	-	0	0	-
ELECTRICITY ERCOT PEAK	ERE	0	34.5	-100.0%	0	-	0	4.76	-100.0%
ELECTRICITY OFF PEAK	46	0	0	-	0	-	0	0	-
ELECTRICITY OFF PEAK	50	0	0	-	0	-	0	0	-

## NYMEX/COMEX Exchange ADV Report - Monthly

July 2018

Page 6 of 21

Commodity		ADV JUL 2018	ADV JUL 2017	% CHG	ADV JUN 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
<b>Energy Futures</b>									
ELEC WEST POWER OFF-PEAK	MDA	0	0	-	0	-	0	0	-
ELEC WEST POWER PEAK	MDC	0	0	-	0	-	0	10.62	-100.0%
ERCOT DAILY 5MW PEAK	ERW	0	0	-	0	-	0	0	-
ERCOT HOUSTON Z MCPE 5MW PEAK SWA	I1	0	0	-	20.95	-100.0%	13	11.59	15.3%
ERCOT NORTH ZMCPE 5MW OFFPEAK	I8	0	0	-	0	-	0	0	-
ERCOT NORTH ZMCPE 5MW OFFPEAK SWA	I6	0	0	-	0	-	134	101.52	32.2%
ERCOT NORTH ZMCPE 5MW PEAK	I5	0	0	-	20.95	-100.0%	35	17.31	99.8%
ETHANOL SWAP	MT2	6	0	-	4.29	33.3%	2	0	-
ETHANOL T2 FOB ROTT INCL DUTY SWAP	Z1	111	168.6	-33.9%	123.19	-9.6%	141	189.83	-25.6%
EURO 1% FUEL OIL NEW BALM	KX	0	0	-	0.14	-100.0%	0	0.12	26.9%
EURO 3.5% FUEL OIL RDAM B	KR	33	7.05	373.5%	33.05	1.0%	32	23.39	37.9%
EURO 3.5% FUEL OIL SPREAD	FK	1	34	-97.6%	6.19	-86.9%	5	27.33	-82.2%
EURO-DENOMINATED PETRO PROD	NCP	0	0	-	0	-	0	9.24	-100.0%
EURO GASOIL 10PPM VS ICE	ET	0	0	-	0.24	-100.0%	3	1.92	32.2%
EUROPE 1% FUEL OIL NWE CA	UF	2	0	-	0	-	3	4.57	-45.2%
EUROPE 1% FUEL OIL RDAM C	UH	0	0.5	-100.0%	0	-	0	0.25	-91.7%
EUROPE 3.5% FUEL OIL MED	UI	0	0.25	-61.9%	0	-	5	8.03	-42.6%
EUROPE 3.5% FUEL OIL RDAM	UV	367	168.95	116.9%	449.33	-18.4%	441	396.68	11.1%
EUROPEAN GASOIL (ICE)	7F	15	170.05	-91.1%	26.24	-42.3%	23	162.9	-86.1%
EUROPEAN NAPHTHA BALMO	KZ	20	13	50.2%	13.76	41.9%	14	18.89	-27.0%
EUROPEAN NAPHTHA CRACK SPR	EN	377	350.65	7.6%	447.48	-15.7%	436	350.55	24.2%
EUROPE DATED BRENT SWAP	UB	0	70	-100.0%	0	-	0	12.52	-100.0%
EUROPE JET KERO NWE CALSW	UJ	0	0	-	0	-	0	0.41	-65.2%
EUROPE NAPHTHA CALSWAP	UN	194	169	15.0%	155.57	24.9%	161	137.64	17.1%
EURO PROPANE CIF ARA SWA	PS	57	40.5	39.8%	66	-14.2%	86	54.92	56.1%
FLORIDA GAS ZONE3 BASIS S	FP	0	0	-	0	-	0	0	-
FREIGHT MARKETS	FLP	8	9	-6.3%	2	321.4%	5	6.08	-11.5%
FREIGHT MARKETS	FRC	0	0	-	0.24	-100.0%	4	0	-
FREIGHT MARKETS	FRS	0	0	-	0	-	0	0	-
FREIGHT MARKETS	T2D	16	0	-	13.33	17.9%	13	0	-
FREIGHT MARKETS	TC6	0	0	-	0	-	2	0	-
FREIGHT MARKETS	TD3	1	0	-	0	-	0	0	-
FUEL OIL CRACK VS ICE	FO	110	76.35	44.2%	210.05	-47.6%	209	217.83	-4.3%
FUEL OIL NWE CRACK VS ICE	FI	0	0	-	0	-	1	0	-
FUEL OIL (PLATS) CAR CM	1W	0	0	-	0	-	1	0	-
FUEL OIL (PLATS) CAR CN	1X	2	0	-	0	-	1	0	-

## NYMEX/COMEX Exchange ADV Report - Monthly

July 2018

Page 7 of 21

Commodity		ADV JUL 2018	ADV JUL 2017	% CHG	ADV JUN 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
<b>Energy Futures</b>									
FUELOIL SWAP:CARGOES VS.B	FS	10	14.75	-34.5%	4.24	128.1%	12	16.46	-28.7%
GAS EURO-BOB OXY NWE BARGES	7H	343	272.3	26.1%	414.67	-17.2%	381	345.77	10.3%
GAS EURO-BOB OXY NWE BARGES CRK	7K	626	707.95	-11.5%	769.24	-18.6%	956	913.32	4.7%
GASOIL 0.1 CIF MED SWAP	Z4	0	0	-	0	-	0	0	-
GASOIL 0.1CIF MED VS ICE	Z5	0	0	-	0	-	0	0.34	-80.1%
GASOIL 0.1 CIF NWE VS ISE	TU	0	0	-	0	-	0	0	-
GASOIL 0.1 CIF VS ICE GAS	8W	0	0	-	0	-	0	0.14	-100.0%
GASOIL 0.1 RDAM BRGS VS I	WQ	0	0	-	0	-	0	1.03	-96.7%
GASOIL 0.1 ROTTERDAM BARG	VL	5	0	-	8.81	-48.6%	9	0.55	1458.1%
GASOIL 10P CRG CIF NW VS	3V	0	1.25	-100.0%	0	-	0	0.17	-100.0%
GASOIL 10PPM VS ICE SWAP	TP	0	3.6	-100.0%	0	-	0	3.67	-97.8%
GASOIL BULLET SWAP	BG	0	0	-	0	-	0	0.21	-100.0%
GASOIL CALENDAR SWAP	GX	0	0	-	0.57	-100.0%	0	1.66	-80.2%
GASOIL CRACK SPREAD CALEN	GZ	73	265.4	-72.7%	144.67	-49.8%	224	385.4	-41.9%
GASOIL MINI CALENDAR SWAP	QA	18	1.15	1490.1%	10.43	75.3%	9	6.92	25.8%
GROUP THREE ULSD (PLATTS)	A7	0	6.25	-100.0%	1.43	-100.0%	1	0.86	47.0%
GROUP THREE UNLEAD GAS (P	A9	0	0	-	0	-	3	0	-
GRP THREE ULSD(PLT)VS HEA	A6	98	273.05	-64.1%	173.29	-43.4%	170	146.28	16.3%
GRP THREE UNL GS (PLT) VS	A8	103	21.25	384.0%	46.19	122.7%	94	25.2	274.9%
GULF COAST 3% FUEL OIL BA	VZ	88	45.75	92.1%	46.14	90.5%	72	62.83	14.3%
GULF COAST JET FUEL CLNDR	GE	3	17.75	-83.9%	8.29	-65.5%	6	6.21	0.9%
GULF COAST JET VS NYM 2 H	ME	1,316	1,736.05	-24.2%	1,312.76	0.2%	1,861	2,088.4	-10.9%
GULF COAST NO.6 FUEL OIL	MF	2,270	2,019.25	12.4%	2,984.9	-24.0%	2,918	2,586.94	12.8%
GULF COAST NO.6 FUEL OIL	MG	40	24.75	60.7%	119.29	-66.7%	98	68.38	43.7%
GULF COAST ULSD CALENDAR	LY	5	26.6	-82.5%	34.24	-86.4%	12	27.59	-55.1%
GULF COAST ULSD CRACK SPR	GY	0	85	-100.0%	0	-	9	26.69	-66.8%
HEATING OIL BALMO CLNDR S	1G	0	5	-100.0%	7.95	-100.0%	2	5.72	-73.3%
HEATING OIL PHY	HOL	0	0	-	0	-	0	0	-
HENRY HUB BASIS SWAP	HB	0	136	-100.0%	59.05	-100.0%	51	351.86	-85.5%
HENRY HUB FINANCIAL LAST	NBP	189	2.95	6316.5%	209.71	-9.7%	124	0.41	30276.7%
HENRY HUB FINANCIAL LAST	TTE	3	4.6	-28.6%	0.86	283.4%	5	0.63	738.8%
HENRY HUB INDEX SWAP FUTU	IN	0	105.4	-100.0%	59.05	-100.0%	51	336.76	-84.9%
HENRY HUB SWAP	NN	9,641	12,305.75	-21.7%	7,152.52	34.8%	8,302	8,275.7	0.3%
HOUSTON SHIP CHANNEL BASI	NH	0	85.65	-100.0%	0	-	0	26.05	-100.0%
HUSTN SHIP CHNL PIPE SWP	XJ	0	35.95	-100.0%	0	-	0	4.96	-100.0%
ICE BRENT DUBAI SWAP	DB	374	20	1769.0%	252.86	47.8%	490	479.06	2.2%

## NYMEX/COMEX Exchange ADV Report - Monthly

July 2018

Page 8 of 21

Commodity		ADV JUL 2018	ADV JUL 2017	% CHG	ADV JUN 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
<b>Energy Futures</b>									
ICE GASOIL BALMO SWAP	U9	0	0.45	-100.0%	0	-	0	0.06	-100.0%
IN DELIVERY MONTH EUA	6T	0	0	-	0	-	0	19.66	-100.0%
INDIANA MISO	FAD	0	0	-	0	-	0	0	-
INDIANA MISO	FTD	0	0	-	0	-	0	0	-
INDIANA MISO	FTM	0	0	-	0	-	0	0	-
INDIANA MISO	PDD	0	0	-	0	-	0	0	-
INDIANA MISO	PTD	0	0	-	0	-	0	0	-
INDONESIAN COAL	MCC	0	0	-	0	-	0	0.03	-100.0%
INDONESIAN COAL ICI4	ICI	11	0	-	5.95	92.0%	5	0	-
ISO NEW ENGLAND OFF-PEAK	KI	0	0	-	0	-	0	0	-
ISO NEW ENGLAND PK LMP	NI	0	0	-	0	-	0	0.07	-100.0%
JAPAN C&F NAPHTHA CRACK S	JB	0	3.6	-100.0%	0	-	12	26.79	-56.8%
JAPAN C&F NAPHTHA SWAP	JA	97	44.7	117.0%	110.86	-12.5%	103	79.34	29.4%
JAPAN NAPHTHA BALMO SWAP	E6	9	4.5	95.8%	1.1	704.4%	3	9.06	-69.7%
JET AV FUEL (P) CAR FM ICE GAS SWAP	1V	0	0	-	0	-	0	0.08	-58.7%
JET CIF NWE VS ICE	JC	7	6.45	1.9%	0	-	4	5.68	-24.1%
JET FUEL BRG FOB RDM VS I	9Q	0	0	-	0	-	0	0.03	-100.0%
JET FUEL CRG CIF NEW VS I	6X	0	2.1	-100.0%	0	-	0	0.43	-100.0%
JET FUEL UP-DOWN BALMO CL	1M	163	252.8	-35.6%	226.81	-28.2%	289	352.91	-18.0%
LA CARB DIESEL (OPIS)	LX	0	0	-	0	-	0	0	-
LA CARB DIESEL (OPIS) SWA	KL	37	7.5	392.1%	14.29	158.3%	17	8.41	105.5%
LA CARBOB GASOLINE(OPIS)S	JL	7	0	-	0	-	28	10.69	161.1%
LA JET FUEL VS NYM NO 2 H	MQ	0	0	-	0	-	0	0.17	-100.0%
LA JET (OPIS) SWAP	JS	53	51.75	2.6%	155.24	-65.8%	111	83.59	33.2%
LLS (ARGUS) VS WTI SWAP	WJ	120	121.9	-1.2%	256.9	-53.1%	304	172.43	76.4%
MARS (ARGUS) VS WTI SWAP	YX	7	291.5	-97.5%	71.67	-90.0%	128	150.7	-15.0%
MARS (ARGUS) VS WTI TRD M	YV	294	627.25	-53.2%	1,107.57	-73.5%	1,176	925.03	27.1%
MARS BLEND CRUDE OIL	MB	10	0	-	0	-	16	77.43	-79.5%
MCCLOSKEY ARA ARGS COAL	MTF	1,015	1,817.2	-44.1%	1,157.9	-12.3%	1,192	2,436.57	-51.1%
MCCLOSKEY RCH BAY COAL	MFF	143	157.55	-8.9%	163.33	-12.2%	164	274.59	-40.4%
MGF FUT	MGF	0	0	-	0	-	1	1.36	-34.5%
MGN1 SWAP FUT	MGN	1	9	-84.1%	1.9	-25.0%	4	6.44	-43.3%
MICHIGAN BASIS	NF	0	0	-	0	-	0	17.88	-100.0%
MICHIGAN MISO	HMO	0	0	-	0	-	0	407.17	-100.0%
MICHIGAN MISO	HMW	0	0	-	0	-	0	22.03	-100.0%
MINI GAS EUROBOB OXY NWE ARGS BALM	MEB	26	31.2	-15.8%	20.52	28.1%	18	26.18	-29.7%

## NYMEX/COMEX Exchange ADV Report - Monthly

July 2018

Page 9 of 21

Commodity		ADV JUL 2018	ADV JUL 2017	% CHG	ADV JUN 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
<b>Energy Futures</b>									
MINI RBOB V. EBOBARG NWE BRGS BALMO	MXR	41	20.1	101.6%	21.24	90.8%	18	20.32	-10.4%
MINI RBOB V. EBOB(ARGUS) NWE BRGS	MXB	77	168.6	-54.4%	96.67	-20.5%	78	125.18	-37.3%
MJC FUT	MJC	2	1.75	36.1%	5	-52.4%	9	4.86	75.4%
MNC FUT	MNC	181	192.85	-6.4%	171.52	5.3%	180	214.61	-16.3%
MONT BELVIEU ETHANE 5 DECIMAL	C0	548	614.65	-10.8%	730.57	-25.0%	723	1,200.7	-39.8%
MONT BELVIEU ETHANE OPIS BALMO	8C	14	0	-	3.81	275.0%	8	15.67	-49.3%
MONT BELVIEU LDH PROPANE 5 DECIMAL	B0	4,476	3,609.4	24.0%	4,443.86	0.7%	5,837	4,244.18	37.5%
MONT BELVIEU LDH PROPANE OPIS BALM	8O	118	74.75	57.5%	97.76	20.4%	141	88.31	60.0%
MONT BELVIEU NATURAL GASOLINE 5 DEC	7Q	216	170.4	26.5%	344.38	-37.4%	403	206.66	94.9%
MONT BELVIEU NATURAL GASOLINE BALM	R0	10	7.25	41.2%	23.81	-57.0%	19	12.3	58.4%
MONT BELVIEU NORMAL BUTANE 5 DECIM	D0	1,882	1,177.6	59.8%	1,544.05	21.9%	1,547	1,349.21	14.6%
MONT BELVIEU NORMAL BUTANE BALMO	8J	109	14.7	639.9%	33.9	220.8%	51	36.42	41.0%
NAT GAS BASIS SWAP	TZ6	0	0	-	0	-	0	11.98	-100.0%
NATURAL GAS	XIC	0	0	-	0	-	0	0.3	-100.0%
NATURAL GAS FIXED PRICE SWAP FUTURE	DSF	0	18	-100.0%	0	-	0	2.48	-100.0%
NATURAL GAS INDEX	TZI	0	0	-	0	-	0	4.52	-100.0%
NATURAL GAS PEN SWP	NP	1,017	3,153.75	-67.7%	701.76	44.9%	1,710	4,365.91	-60.8%
NEPOOL CNCTCT 5MW D AH O	P3	0	0	-	0	-	0	0	-
NEPOOL CONECTIC 5MW D AH	P2	0	0	-	0	-	0	0	-
NEPOOL INTR HUB 5MW D AH	H2	0	0	-	444.95	-100.0%	545	1,524.83	-64.3%
NEPOOL INTR HUB 5MW D AH	U6	0	34.5	-100.0%	24.48	-100.0%	30	108.07	-72.3%
NEPOOL NE MASS 5MW D AH O	P8	0	0	-	0	-	0	0	-
NEPOOL NE MASS 5MW D AH P	P7	0	0	-	0	-	0	0	-
NEPOOL RHD ISLD 5MW D AH	U4	0	0	-	0	-	0	0	-
NEPOOL RHODE IL 5MW D AH	U5	0	0	-	0	-	0	0	-
NEPOOL W CNT MASS 5MW D A	L9	0	0	-	0	-	0	0	-
NEPOOL W CNTR M 5MW D AH	R6	0	0	-	0	-	0	0	-
NEW ENGLAND HUB PEAK DAIL	CE	0	0	-	0	-	0	0	-
NEW YORK ETHANOL SWAP	EZ	21	45	-52.4%	24.05	-10.9%	66	31.79	107.6%
NEW YORK HUB ZONE G PEAK	GN	0	0	-	0	-	0	0	-
NEW YORK HUB ZONE J PEAK	JN	0	0	-	0	-	0	0	-
NGPL MID-CONTINENT	NL	0	60	-100.0%	0	-	3	16.17	-83.1%
NGPL TEX/OK	PD	0	154.4	-100.0%	0	-	156	40.39	287.3%
N ILLINOIS HUB DAILY	UD	0	0	-	0	-	0	0	-
N ILLINOIS HUB MTHLY	UM	0	0	-	0	-	0	0	-
NO 2 UP-DOWN SPREAD CALEN	UT	5	0	-	6.9	-34.5%	15	24.55	-39.8%

## NYMEX/COMEX Exchange ADV Report - Monthly

July 2018

Page 10 of 21

Commodity		ADV JUL 2018	ADV JUL 2017	% CHG	ADV JUN 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
<b>Energy Futures</b>									
NORTHERN NATURAL GAS DEMAR	PE	0	0	-	0	-	0	0	-
NORTHERN NATURAL GAS VENTU	PF	0	0	-	0	-	1	0.58	18.2%
NORTHERN ILLINOIS OFF-PEA	UO	0	0	-	0	-	0	0	-
NORTHWEST ROCKIES BASIS S	NR	0	86.9	-100.0%	0	-	0	21.3	-100.0%
N ROCKIES PIPE SWAP	XR	0	16.7	-100.0%	0	-	0	2.3	-100.0%
NY1% VS GC SPREAD SWAP	VR	91	137.7	-33.7%	145.9	-37.4%	86	118.21	-27.2%
NY 2.2% FUEL OIL (PLATTS	Y3	0	0	-	0	-	0	0	-
NY 3.0% FUEL OIL (PLATTS	H1	10	1.25	661.9%	0	-	8	21.45	-61.7%
NY HARBOR 1% FUEL OIL BAL	VK	0	0	-	0	-	0	0.17	-100.0%
NY HARBOR HEAT OIL SWP	MP	95	222.8	-57.3%	40.95	132.4%	71	129.59	-45.0%
NY HARBOR LOW SULPUR GAS 1000MBBL	NLS	0	0	-	2.14	-100.0%	18	27.92	-33.9%
NY HARBOR RESIDUAL FUEL 1	MM	42	67.05	-37.0%	50.71	-16.7%	56	123.35	-54.6%
NYH NO 2 CRACK SPREAD CAL	HK	17	83.5	-79.5%	29.29	-41.5%	50	76.41	-34.5%
NYISO A	KA	0	0	-	0	-	0	0	-
NYISO A OFF-PEAK	KB	0	0	-	0	-	0	0	-
NYISO CAPACITY	LHV	4	3	23.8%	0.19	1849.8%	2	1.84	-8.5%
NYISO CAPACITY	NNC	3	2.2	25.5%	0	-	3	10.44	-69.5%
NYISO CAPACITY	NRS	1	9	-90.5%	0	-	1	9.96	-85.2%
NYISO G	KG	0	0	-	0	-	0	0	-
NYISO G OFF-PEAK	KH	0	0	-	0	-	0	0	-
NYISO J	KJ	0	0	-	0	-	0	0	-
NYISO J OFF-PEAK	KK	0	0	-	0	-	0	0	-
NYISO ZONE A 5MW D AH O P	K4	0	1,170	-100.0%	0	-	0	225.93	-100.0%
NYISO ZONE A 5MW D AH PK	K3	0	0	-	0	-	0	47	-100.0%
NYISO ZONE C 5MW D AH O P	A3	0	0	-	0	-	0	0	-
NYISO ZONE C 5MW D AH PK	Q5	0	0	-	0	-	0	0.76	-100.0%
NYISO ZONE G 5MW D AH O P	D2	0	0	-	1,295.24	-100.0%	3,963	4,472.28	-11.4%
NYISO ZONE G 5MW D AH PK	T3	0	162	-100.0%	71.9	-100.0%	125	330.72	-62.1%
NYISO ZONE J 5MW D AH O P	D4	0	0	-	0	-	0	1,562.76	-100.0%
NYISO ZONE J 5MW D AH PK	D3	0	127.5	-100.0%	0	-	0	153.76	-100.0%
NYMEX ALUMINUM FUTURES	AN	0	0	-	0	-	0	0	-
NYMEX ULSD VS NYMEX HO	UY	0	0	-	0	-	0	0	-
NY ULSD (ARGUS) VS HEATING OIL	7Y	4	1.45	159.4%	0	-	1	53.24	-97.3%
ONEOK OKLAHOMA NG BASIS	8X	0	0	-	0	-	0	0	-
ONTARIO POWER SWAPS	OFD	0	0	-	0	-	0	0	-
ONTARIO POWER SWAPS	OFM	0	0	-	0	-	0	0	-

## NYMEX/COMEX Exchange ADV Report - Monthly

July 2018

Page 11 of 21

Commodity		ADV JUL 2018	ADV JUL 2017	% CHG	ADV JUN 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
<b>Energy Futures</b>									
ONTARIO POWER SWAPS	OPD	0	3	-100.0%	0	-	0	3.34	-98.0%
ONTARIO POWER SWAPS	OPM	0	0	-	0	-	0	4.48	-100.0%
PANHANDLE BASIS SWAP FUTU	PH	0	150.6	-100.0%	0	-	2	21.1	-91.1%
PANHANDLE PIPE SWAP	XH	0	0	-	0	-	0	5.96	-100.0%
PERMIAN BASIS SWAP	PM	0	39.75	-100.0%	0	-	0	6.96	-100.0%
PETROCHEMICALS	22	8	2.5	235.2%	3.76	122.8%	8	3.45	121.7%
PETROCHEMICALS	32	3	3.35	-9.0%	3.71	-17.9%	8	5.37	50.0%
PETROCHEMICALS	51	0	0	-	0	-	0	0	-
PETROCHEMICALS	8I	29	20.3	41.2%	6.81	321.0%	39	29.48	31.0%
PETROCHEMICALS	91	11	10.15	4.2%	8.67	22.0%	20	10.27	96.4%
PETROCHEMICALS	HPE	0	0	-	0	-	0	0	-
PETROCHEMICALS	JKM	98	0	-	46.43	111.8%	48	0	-
PETROCHEMICALS	MAA	0	0	-	0	-	0	0	-
PETROCHEMICALS	MAC	0	0	-	0	-	0	0.34	-100.0%
PETROCHEMICALS	MAE	14	2	609.5%	4.76	198.0%	9	0.48	1854.9%
PETROCHEMICALS	MAS	5	1.5	249.2%	5.52	-5.2%	5	1.28	308.5%
PETROCHEMICALS	MBE	22	95	-76.4%	44.29	-49.5%	39	60.17	-35.1%
PETROCHEMICALS	MNB	69	113.95	-39.2%	111.67	-38.0%	105	75.65	38.3%
PETROCHEMICALS	MPS	4	0	-	10.48	-59.1%	5	0.07	7543.5%
PETRO CRCKS & SPRDS ASIA	JNC	0	0	-	0	-	0	0	-
PETRO CRCKS & SPRDS ASIA	STI	0	0	-	0	-	0	0.98	-100.0%
PETRO CRCKS & SPRDS ASIA	STR	0	0	-	0	-	1	1.82	-62.4%
PETRO CRCKS & SPRDS ASIA	STS	0	21	-97.7%	4.29	-88.9%	3	9.03	-61.4%
PETRO CRCKS & SPRDS NA	CRB	100	13	665.6%	263.1	-62.2%	63	7.28	767.9%
PETRO CRCKS & SPRDS NA	EXR	107	96.85	10.5%	167.1	-36.0%	142	125.38	13.2%
PETRO CRCKS & SPRDS NA	FOC	0	0	-	40.48	-100.0%	37	39.33	-6.4%
PETRO CRCKS & SPRDS NA	GBB	75	49.25	51.8%	64.05	16.7%	60	39.1	53.0%
PETRO CRCKS & SPRDS NA	GCC	7	0	-	14.29	-50.0%	12	5.52	116.0%
PETRO CRCKS & SPRDS NA	GCI	73	37.6	93.0%	67.52	7.5%	71	61.98	14.5%
PETRO CRCKS & SPRDS NA	GCM	0	0	-	0	-	1	0.29	235.7%
PETRO CRCKS & SPRDS NA	GCU	396	145.95	171.4%	892.52	-55.6%	642	305.54	110.2%
PETRO CRCKS & SPRDS NA	GFC	1	0	-	0	-	0	3.69	-92.6%
PETRO CRCKS & SPRDS NA	HOB	3	388.5	-99.3%	33.57	-91.5%	48	170.68	-72.1%
PETRO CRCKS & SPRDS NA	KSD	0	0	-	0	-	0	0.52	-100.0%
PETRO CRCKS & SPRDS NA	NFG	0	0	-	0	-	0	0.75	-54.4%
PETRO CRCKS & SPRDS NA	NYF	0	15	-100.0%	0	-	0	7.76	-100.0%

## NYMEX/COMEX Exchange ADV Report - Monthly

July 2018

Page 12 of 21

Commodity	ADV JUL 2018	ADV JUL 2017	% CHG	ADV JUN 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
<b>Energy Futures</b>								
PETRO CRCKS & SPRDS NA	0	0	-	0	-	0	0	-
PETRO CRCKS & SPRDS NA	172	343	-49.8%	309.43	-44.4%	263	421.6	-37.6%
PETRO CRCKS & SPRDS NA	574	782.25	-26.6%	922.86	-37.8%	849	752.6	12.8%
PETRO CRCKS & SPRDS NA	2	0	-	1	57.1%	2	0.1	2026.3%
PETRO CRK&SPRD EURO	102	64.85	56.7%	66.9	51.9%	92	64.41	43.5%
PETRO CRK&SPRD EURO	0	0	-	0	-	1	0	-
PETRO CRK&SPRD EURO	43	11.2	84.9%	16.86	22.9%	19	12.02	57.7%
PETRO CRK&SPRD EURO	0	0	-	0	-	0	0	-
PETRO CRK&SPRD EURO	58	55.65	4.1%	83.76	-30.8%	91	103.99	-12.3%
PETRO CRK&SPRD EURO	0	0	-	0	-	0	0	-
PETRO CRK&SPRD EURO	0	0.9	-100.0%	0	-	0	0.12	-100.0%
PETRO CRK&SPRD EURO	0	0.55	-22.1%	0.24	80.0%	1	0.62	107.5%
PETRO CRK&SPRD EURO	34	17.4	93.8%	36.48	-7.6%	46	18.99	140.8%
PETRO CRK&SPRD EURO	107	68.4	56.6%	130.48	-17.9%	113	129.48	-12.9%
PETRO CRK&SPRD EURO	0	0	-	0	-	0	0	-
PETRO CRK&SPRD EURO	0	0	-	7.14	-100.0%	5	5.1	-8.6%
PETRO CRK&SPRD EURO	0	1.25	-100.0%	0	-	1	0.62	-7.3%
PETRO CRK&SPRD EURO	0	0	-	0	-	1	0.48	13.5%
PETRO CRK&SPRD EURO	0	0	-	1.43	-100.0%	1	4.96	-77.5%
PETRO CRK&SPRD EURO	0	0.25	90.5%	0.95	-50.0%	1	0.79	15.0%
PETRO CRK&SPRD EURO	71	40.2	76.3%	56.43	25.6%	79	49.17	60.8%
PETRO CRK&SPRD EURO	1	0	-	3.81	-81.2%	1	1.07	-19.9%
PETROLEUM PRODUCTS	0	0	-	0	-	0	0	-
PETROLEUM PRODUCTS	188	46.7	303.0%	127.67	47.4%	215	121.78	76.1%
PETROLEUM PRODUCTS	0	0	-	0	-	0	0.55	-100.0%
PETROLEUM PRODUCTS	0	0	-	0	-	0	0.14	-100.0%
PETROLEUM PRODUCTS	0	0	-	0	-	0	0.14	49.0%
PETROLEUM PRODUCTS	0	0	-	0	-	0	0.69	-100.0%
PETROLEUM PRODUCTS	6	11.65	-52.6%	3.57	54.7%	7	11.34	-36.9%
PETROLEUM PRODUCTS ASIA	7	1.5	376.2%	0.95	650.0%	4	1.05	268.5%
PETROLEUM PRODUCTS ASIA	62	126.2	-50.6%	63.57	-2.0%	95	101.43	-6.2%
PETROLEUM PRODUCTS ASIA	0	0	-	0	-	0	0.17	-100.0%
PETRO OUTRIGHT EURO	1	1	-4.8%	0.67	42.9%	1	0.57	0.5%
PETRO OUTRIGHT EURO	0	0	-	0	-	0	0	-
PETRO OUTRIGHT EURO	57	117.85	-52.0%	88.71	-36.3%	67	121.72	-45.2%
PETRO OUTRIGHT EURO	1	19.75	-92.8%	0.76	87.5%	1	26.38	-94.9%

## NYMEX/COMEX Exchange ADV Report - Monthly

July 2018

Page 13 of 21

Commodity		ADV JUL 2018	ADV JUL 2017	% CHG	ADV JUN 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
<b>Energy Futures</b>									
PETRO OUTFRIGHT EURO	0F	17	47.45	-64.6%	27.29	-38.4%	28	61.1	-54.2%
PETRO OUTFRIGHT EURO	1T	0	0	-	0	-	0	0.41	-65.2%
PETRO OUTFRIGHT EURO	33	0	0	-	0	-	0	0.55	-100.0%
PETRO OUTFRIGHT EURO	5L	0	0	-	3.33	-85.7%	1	3.39	-56.7%
PETRO OUTFRIGHT EURO	63	1	1.75	-32.0%	1.67	-28.6%	1	3.43	-66.6%
PETRO OUTFRIGHT EURO	6L	0	0	-	0	-	0	0.01	-100.0%
PETRO OUTFRIGHT EURO	7I	6	12.25	-53.4%	0	-	4	6.03	-33.9%
PETRO OUTFRIGHT EURO	7R	11	15.55	-27.7%	14.1	-20.3%	15	12.77	14.9%
PETRO OUTFRIGHT EURO	88	0	0.25	-100.0%	0.48	-100.0%	1	0.03	1984.6%
PETRO OUTFRIGHT EURO	CBB	0	0	-	0	-	0	0.29	30.0%
PETRO OUTFRIGHT EURO	CGB	0	0	-	0	-	0	0	-
PETRO OUTFRIGHT EURO	CPB	0	2.2	-78.4%	0.76	-37.5%	21	14.06	46.6%
PETRO OUTFRIGHT EURO	EFF	0	0	-	0	-	1	1.93	-64.2%
PETRO OUTFRIGHT EURO	EFM	0	5.1	-100.0%	0	-	0	2.95	-100.0%
PETRO OUTFRIGHT EURO	ENS	0	2	-100.0%	0	-	0	0.9	-50.3%
PETRO OUTFRIGHT EURO	ESB	0	3.15	-100.0%	0	-	0	0.48	-100.0%
PETRO OUTFRIGHT EURO	EWN	32	30.2	4.9%	35.29	-10.3%	33	35.12	-5.5%
PETRO OUTFRIGHT EURO	FBD	0	0	-	0	-	0	0.14	-100.0%
PETRO OUTFRIGHT EURO	MBB	0	5	-90.5%	0	-	1	3.31	-64.6%
PETRO OUTFRIGHT EURO	MBN	12	86.5	-86.2%	53.71	-77.8%	55	50.19	8.8%
PETRO OUTFRIGHT EURO	SMU	0	0	-	0	-	2	0.28	714.3%
PETRO OUTFRIGHT EURO	T0	0	2.7	-100.0%	0	-	0	1.13	-94.6%
PETRO OUTFRIGHT EURO	ULB	0	0	-	0	-	0	2.59	-100.0%
PETRO OUTFRIGHT EURO	V0	0	0	-	0	-	7	1.03	548.8%
PETRO OUTFRIGHT NA	FCB	3	24.8	-89.1%	0	-	4	9.31	-58.8%
PETRO OUTFRIGHT NA	FOM	0	0	-	0	-	0	0.34	-100.0%
PETRO OUTFRIGHT NA	JE	0	0	-	0	-	0	2.9	-83.7%
PETRO OUTFRIGHT NA	JET	79	122	-35.6%	83.33	-5.7%	102	179.58	-43.2%
PETRO OUTFRIGHT NA	JTB	30	32.5	-8.4%	29.76	0.0%	25	6.55	287.9%
PETRO OUTFRIGHT NA	MBL	0	0	-	0	-	0	1.11	-75.3%
PETRO OUTFRIGHT NA	MEN	25	15.25	61.4%	43.9	-43.9%	20	30.13	-33.3%
PETRO OUTFRIGHT NA	MEO	172	367.65	-53.1%	181.9	-5.3%	189	492.03	-61.6%
PETRO OUTFRIGHT NA	MFD	0	0.65	-100.0%	0	-	1	1.4	-51.1%
PETRO OUTFRIGHT NA	MMF	0	0	-	0	-	0	2.94	-87.2%
PETRO OUTFRIGHT NA	NYT	0	0	-	0	-	0	4.31	-100.0%
PJM AD HUB 5MW REAL TIME	V3	0	467.2	-100.0%	0	-	192	1,885.99	-89.8%

## NYMEX/COMEX Exchange ADV Report - Monthly

July 2018

Page 14 of 21

Commodity		ADV JUL 2018	ADV JUL 2017	% CHG	ADV JUN 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
<b>Energy Futures</b>									
PJM AD HUB 5MW REAL TIME	Z9	245	25.55	858.0%	0	-	87	134.08	-35.4%
PJM AECO DA OFF-PEAK	X1	0	0	-	0	-	0	0	-
PJM AECO DA PEAK	Y1	0	0	-	0	-	0	0	-
PJM APS ZONE DA OFF-PEAK	W4	0	0	-	0	-	0	0	-
PJM APS ZONE DA PEAK	S4	0	0	-	0	-	0	0	-
PJM ATSI ELEC	MOD	0	0	-	0	-	0	322.76	-100.0%
PJM ATSI ELEC	MPD	0	0	-	0	-	0	17.59	-100.0%
PJM BGE DA OFF-PEAK	R3	0	0	-	0	-	0	0	-
PJM BGE DA PEAK	E3	0	0	-	0	-	0	0	-
PJM COMED 5MW D AH O PK	D9	0	0	-	0	-	0	588.9	-100.0%
PJM COMED 5MW D AH PK	D8	0	0	-	0	-	0	32.24	-100.0%
PJM DAILY	JD	0	0	-	0	-	0	0	-
PJM DAYTON DA OFF-PEAK	R7	0	0	-	0	-	0	1,462.03	-100.0%
PJM DAYTON DA PEAK	D7	0	0	-	0	-	0	36.21	-100.0%
PJM JCPL DA OFF-PEAK	F2	0	0	-	0	-	0	0	-
PJM JCPL DA PEAK	J2	0	0	-	0	-	0	0	-
PJM NI HUB 5MW REAL TIME	B3	0	95.25	-100.0%	0	-	35	536.83	-93.5%
PJM NI HUB 5MW REAL TIME	B6	0	1,638	-100.0%	0	-	0	11,479.31	-100.0%
PJM NILL DA OFF-PEAK	L3	0	1,170	-100.0%	0	-	0	4,726.67	-100.0%
PJM NILL DA PEAK	N3	0	63.75	-100.0%	0	-	0	269.14	-99.9%
PJM OFF-PEAK LMP SWAP FUT	JP	0	0	-	0	-	0	0	-
PJM PPL DA OFF-PEAK	F5	0	0	-	0	-	0	0	-
PJM PPL DA PEAK	L5	0	0	-	0	-	0	0	-
PJM PSEG DA OFF-PEAK	W6	0	0	-	0	-	0	0	-
PJM PSEG DA PEAK	L6	0	0	-	0	-	0	0	-
PJM WESTH DA OFF-PEAK	E4	0	0	-	0	-	537	51.72	938.3%
PJM WESTHDA PEAK	J4	0	0	-	0	-	29	41.86	-30.5%
PJM WESTH RT OFF-PEAK	N9	0	2,842	-100.0%	1,104.76	-100.0%	2,014	12,732.59	-84.2%
PJM WESTH RT PEAK	L1	182	797.35	-77.1%	151.43	20.4%	296	1,230.18	-76.0%
PLASTICS	PGP	4	21.85	-80.4%	24.86	-82.8%	17	26.31	-33.8%
PREMIUM UNLND 10P FOB MED	3G	16	1.6	870.2%	4.52	243.2%	13	2.81	352.5%
PREMIUM UNLEAD 10PPM FOB	8G	1	1.6	-7.7%	3.57	-58.7%	2	1.05	131.9%
PREM UNL GAS 10PPM RDAM FOB BALMO	7N	0	0	-	0	-	1	0.05	1034.4%
PREM UNL GAS 10PPM RDAM FOB SWAP	7L	0	0	-	0	-	0	0.26	87.9%
PROPANE NON-LDH MB (OPIS) BALMO SWP	1S	24	5	385.7%	25	-2.9%	25	26.94	-6.2%
PROPANE NON-LDH MT. BEL (OPIS) SWP	1R	410	118.15	246.6%	551.86	-25.8%	556	343.54	61.8%

## NYMEX/COMEX Exchange ADV Report - Monthly

July 2018

Page 15 of 21

Commodity		ADV JUL 2018	ADV JUL 2017	% CHG	ADV JUN 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
<b>Energy Futures</b>									
RBOB CALENDAR SWAP	RL	482	366.25	31.7%	362.43	33.1%	274	335.93	-18.5%
RBOB CRACK SPREAD	RM	46	24.25	88.5%	48.33	-5.4%	63	17.68	254.5%
RBOB CRACK SPREAD BALMO S	1E	0	0	-	0	-	0	0	-
RBOB GASOLINE BALMO CLNDR	1D	18	39.25	-54.6%	47.86	-62.8%	56	38.08	46.9%
RBOB PHY	RBL	0	0	-	0	-	0	0	-
RBOB SPREAD (PLATTS) SWAP	RI	0	0	-	0	-	0	0	-
RBOB VS HEATING OIL SWAP	RH	0	119	-100.0%	39.29	-100.0%	14	102.41	-86.8%
SAN JUAN BASIS SWAP	NJ	1	102	-98.7%	0	-	0	15.54	-97.4%
SAN JUAN PIPE SWAP	XX	0	0	-	0	-	2	0	-
SINGAPORE 180CST BALMO	BS	3	2.5	4.8%	1.9	37.5%	3	2.91	-8.2%
SINGAPORE 380CST BALMO	BT	15	7.3	110.7%	10.24	50.2%	10	9.59	9.0%
SINGAPORE 380CST FUEL OIL	SE	381	315.85	20.6%	640.62	-40.6%	423	523.88	-19.3%
SINGAPORE FUEL 180CST CAL	UA	39	48.15	-19.7%	32.38	19.4%	46	54.86	-16.9%
SINGAPORE FUEL OIL SPREAD	SD	7	38.15	-82.5%	19.67	-66.1%	37	38.68	-3.5%
SINGAPORE GASOIL	MTB	2	13.5	-83.8%	1	119.1%	3	7.4	-60.7%
SINGAPORE GASOIL	MTS	224	214.7	4.2%	214.62	4.2%	233	227.84	2.2%
SINGAPORE GASOIL	STZ	0	0	-	0	-	29	5.52	433.8%
SINGAPORE GASOIL CALENDAR	GDH	0	0	-	0	-	0	0	-
SINGAPORE GASOIL CALENDAR	GDL	0	0	-	0	-	2	0	-
SINGAPORE GASOIL CALENDAR	GHS	0	0	-	0	-	0	0	-
SINGAPORE GASOIL CALENDAR	MGO	0	0	-	0	-	1	0	-
SINGAPORE GASOIL CALENDAR	MSG	0	8.15	-100.0%	4.76	-100.0%	29	14.56	97.5%
SINGAPORE GASOIL CALENDAR	SGG	0	0	-	0	-	2	0	-
SINGAPORE GASOIL SWAP	SG	114	483.45	-76.4%	200.95	-43.1%	199	493.81	-59.6%
SINGAPORE GASOIL VS ICE	GA	399	172.75	131.0%	301.19	32.5%	695	423.23	64.2%
SINGAPORE JET KERO BALMO	BX	0	5	-100.0%	2.38	-100.0%	1	3.7	-60.2%
SINGAPORE JET KERO GASOIL	RK	190	78.25	143.4%	110.71	72.0%	198	104.1	89.8%
SINGAPORE JET KEROSENE SW	KS	4	164.75	-97.8%	75.95	-95.3%	48	70.65	-31.5%
SINGAPORE JET KERO VS. GASOIL BALMO	Z0	0	0	-	0	-	0	0	-
SINGAPORE MOGAS 92 UNLEADED BALMO	1P	30	2.85	935.9%	11.9	148.0%	22	8.55	154.9%
SINGAPORE MOGAS 92 UNLEADED SWP	1N	538	318.9	68.7%	855.05	-37.1%	695	384.83	80.7%
SINGAPORE NAPHTHA SWAP	SP	0	0	-	0	-	1	0	-
SING FUEL	MSD	1	0	-	0.71	0.0%	1	0.28	135.8%
SOCAL PIPE SWAP	XN	0	0	-	0	-	0	0	-
SONAT BASIS SWAP FUTURE	SZ	0	0	-	0	-	0	0	-
SOUTH STAR TEX OKLHM KNS	8Z	0	0	-	0	-	0	0	-

## NYMEX/COMEX Exchange ADV Report - Monthly

July 2018

Page 16 of 21

Commodity		ADV JUL 2018	ADV JUL 2017	% CHG	ADV JUN 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
<b>Energy Futures</b>									
Sumas Basis Swap	NK	0	27.5	-100.0%	0	-	1	43.02	-98.6%
SUMAS NAT GAS PLATTS FIXED PRICE	DVS	0	15.3	-100.0%	0	-	0	2.11	-100.0%
TC2 ROTTERDAM TO USAC 37K	TM	0	0	-	0	-	4	0	-
TC5 RAS TANURA TO YOKOHAM	TH	0	0	-	0	-	2	0	-
TCO BASIS SWAP	TC	0	41.2	-100.0%	0	-	0	56.73	-100.0%
TCO NG INDEX SWAP	Q1	0	0	-	0	-	0	0	-
TD3 MEG TO JAPAN 250K MT	TL	79	0	-	98.1	-19.9%	45	0	-
TENNESSEE 500 LEG BASIS S	NM	0	0	-	0	-	0	2.95	-100.0%
TENNESSEE 800 LEG NG BASI	6Z	0	0	-	0	-	0	0	-
TENNESSEE ZONE 0 BASIS SW	NQ	0	0	-	0	-	0	0	-
TETCO M-3 INDEX	IX	0	0	-	0	-	0	0	-
Tetco STX Basis	TX	0	0	-	0	-	0	0	-
TEXAS EASTERN ZONE M-3 BA	NX	0	22.65	-100.0%	0	-	0	55.17	-100.0%
TEXAS GAS ZONE1 NG BASIS	9F	0	0	-	0	-	0	0	-
Transco Zone 3 Basis	CZ	0	0	-	0	-	0	2.08	-100.0%
TRANSCO ZONE 3 NG INDEX S	Y6	0	0	-	0	-	0	43.14	-100.0%
TRANSCO ZONE4 BASIS SWAP	TR	0	276	-100.0%	0	-	0	87.03	-100.0%
TRANSCO ZONE 4 NAT GAS IN	B2	0	0	-	0	-	0	3.21	-100.0%
TRANSCO ZONE 6 BASIS SWAP	NZ	0	0	-	0	-	0	19.79	-100.0%
TRANSCO ZONE 6 INDEX	IT	0	0	-	0	-	0	5.9	-100.0%
UCM FUT	UCM	0	2.35	-79.7%	0	-	0	1.69	-75.7%
ULSD 10PPM CIF MED SWAP	Z6	0	0	-	0	-	0	0.21	-100.0%
ULSD 10PPM CIF MED VS ICE	Z7	0	0	-	0	-	0	0.46	-78.9%
ULSD 10PPM CIF NW BALMO S	B1	0	0.3	-100.0%	0	-	0	0.04	-100.0%
ULSD UP-DOWN BALMO SWP	1L	194	128.75	50.9%	209.76	-7.4%	243	172.07	41.4%
UP DOWN GC ULSD VS NMX HO	LT	1,187	2,030.9	-41.6%	1,171.14	1.3%	1,511	2,101.52	-28.1%
WAHA BASIS	NW	0	61	-100.0%	0	-	22	21.05	4.2%
WAHA INDEX SWAP FUTURE	IY	0	0	-	0	-	0	0	-
WESTERN RAIL DELIVERY PRB	QP	0	0	-	0	-	0	15.31	-98.9%
WTI-BRENT BULLET SWAP	BY	0	0	-	16.67	-100.0%	46	2.79	1534.8%
WTI-BRENT CALENDAR SWAP	BK	1,176	907	29.6%	982.38	19.7%	1,620	443.81	265.0%
WTI CALENDAR	CS	1,124	1,548.95	-27.4%	1,070.48	5.0%	1,566	1,628.7	-3.9%
WTS (ARGUS) VS WTI SWAP	FF	317	174	82.3%	380.81	-16.7%	376	174.99	115.0%
WTS (ARGUS) VS WTI TRD MT	FH	77	51.2	50.7%	28	175.5%	24	27.2	-10.1%

## NYMEX/COMEX Exchange ADV Report - Monthly

July 2018

Page 17 of 21

Commodity	ADV JUL 2018	ADV JUL 2017	% CHG	ADV JUN 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG	
<b>Energy Options</b>									
12 MO GASOIL CAL SWAP SPR	GXZ	0	0	-	0	-	0	1.59	-100.0%
BRENT 1 MONTH CAL	AA	0	0	-	0	-	21	0	-
BRENT CALENDAR SWAP	BA	21	93.75	-77.7%	131.67	-84.1%	33	36.53	-11.0%
BRENT CRUDE OIL 12 M CSO	9Y	0	0	-	0	-	14	0	-
BRENT CRUDE OIL 1 M CSO	9C	133	0	-	2,626.86	-94.9%	2,564	0	-
BRENT CRUDE OIL 6 M CSO	9L	0	0	-	0	-	7	0	-
BRENT OIL LAST DAY	BE	3,493	417.25	737.1%	1,572.33	122.1%	1,701	167.55	915.5%
BRENT OIL LAST DAY	BZO	8,415	1,865.25	351.2%	7,218.86	16.6%	6,308	1,236.37	410.2%
BRENT OIL LAST DAY	OS	0	0	-	2.38	-100.0%	7	21.68	-65.6%
COAL API2 INDEX	CLA	32	47.75	-32.2%	17.62	83.8%	34	55.32	-39.3%
COAL API2 INDEX	CQA	20	0	-	41.67	-51.4%	23	4.21	438.1%
COAL API2 INDEX	MTC	0	0	-	0	-	0	0.34	-100.0%
COAL API4 INDEX	RLA	0	0	-	0	-	0	0	-
COAL API4 INDEX	RQA	0	0	-	0	-	0	0	-
COAL SWAP	CPF	0	0	-	0	-	0	0.97	-100.0%
COAL SWAP	RPF	0	0	-	0	-	0	0.59	-100.0%
CRUDE OIL 1MO	WA	11,471	9,113.75	25.9%	14,876.19	-22.9%	10,980	8,536.88	28.6%
CRUDE OIL APO	AO	654	2,825.85	-76.8%	1,457.71	-55.1%	2,327	1,776.16	31.0%
CRUDE OIL CALNDR STRIP	6F	0	0	-	0	-	1	0	-
CRUDE OIL OUTRIGHTS	AH	0	0	-	0	-	0	0	-
CRUDE OIL OUTRIGHTS	DBP	0	0	-	0	-	0	0	-
CRUDE OIL OUTRIGHTS	WCI	0	0	-	0	-	0	0	-
CRUDE OIL PHY	CD	8	120.25	-93.1%	15.48	-46.2%	122	101.14	20.5%
CRUDE OIL PHY	LC	86	528.5	-83.8%	107.62	-20.4%	460	1,417.39	-67.5%
CRUDE OIL PHY	LO	144,816	171,145.4	-15.4%	159,106.14	-9.0%	172,846	190,675.2	-9.4%
CRUDE OIL PHY	LO1	792	860.6	-8.0%	355	123.0%	665	613.89	8.4%
CRUDE OIL PHY	LO2	737	675.1	9.2%	614.9	19.9%	735	549.66	33.8%
CRUDE OIL PHY	LO3	646	566.8	14.0%	13.38	4728.5%	484	413.41	17.0%
CRUDE OIL PHY	LO4	582	1,108.5	-47.5%	670.24	-13.2%	731	788.43	-7.2%
CRUDE OIL PHY	LO5	0	0	-	1,027.38	-100.0%	239	239.92	-0.3%
ELEC MISO PEAK	9T	0	0	-	0	-	0	5.66	-100.0%
ETHANOL	CE1	0	0	-	0	-	2	0.52	264.2%
ETHANOL	CE3	0	0	-	0	-	1	2.07	-50.3%
ETHANOL SWAP	CVR	165	218.25	-24.3%	423	-60.9%	373	246.91	51.2%
ETHANOL SWAP	GVR	6	23.25	-75.4%	14.29	-60.0%	15	9.55	57.3%
EUROPEAN JET KEROSENE NWE (PLATTS)	30	0	0	-	0	-	0	0	-

## NYMEX/COMEX Exchange ADV Report - Monthly

July 2018

Page 18 of 21

Commodity		ADV JUL 2018	ADV JUL 2017	% CHG	ADV JUN 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
<b>Energy Options</b>									
GASOLINE	GCE	0	0	-	0	-	0	0	-
HEATING OIL CRACK OPTIONS	CH	0	0	-	0	-	0	0.69	-100.0%
HEATING OIL CRK SPD AVG PRICE OPTION	3W	0	0	-	0	-	0	0	-
HEATING OIL PHY	LB	0	2.6	-81.7%	5.71	-91.7%	5	10.81	-52.5%
HEATING OIL PHY	OH	1,342	1,173.35	14.4%	1,290.29	4.0%	1,477	1,545.14	-4.4%
HENRY HUB FINANCIAL LAST	E7	308	156.8	96.7%	138.67	122.4%	187	174.9	6.7%
HO 1 MONTH CLNDR OPTIONS	FA	0	0	-	0	-	0	8.97	-100.0%
LLS CRUDE OIL	WJO	0	0	-	0	-	1	35.17	-98.1%
LLS CRUDE OIL	YVO	0	0	-	0	-	0	0	-
MCCLOSKEY ARA ARGS COAL	MTO	0	0	-	1.43	-100.0%	2	8.9	-80.4%
MCCLOSKEY RCH BAY COAL	MFO	1	0	-	0	-	13	0	-
NATURAL GAS	G10	0	0	-	0	-	0	3.1	-100.0%
NATURAL GAS 1 M CSO FIN	G4	859	484.75	77.2%	700.14	22.7%	1,751	1,957.38	-10.5%
NATURAL GAS 2 M CSO FIN	G2	10	0	-	47.62	-80.0%	8	24.48	-66.4%
NATURAL GAS 3 M CSO FIN	G3	150	381.25	-60.7%	259.52	-42.2%	261	554.66	-53.0%
NATURAL GAS 5 M CSO FIN	G5	0	0	-	0	-	17	27.93	-37.5%
NATURAL GAS 6 M CSO FIN	G6	76	112.5	-32.3%	95.24	-20.0%	474	253.93	86.8%
NATURAL GAS OPTION ON CALENDAR STR	6J	86	72	19.0%	9.52	800.0%	146	47.85	205.0%
NATURAL GAS PHY	KD	512	1,802.85	-71.6%	1,126.67	-54.6%	1,025	1,635.64	-37.4%
NATURAL GAS PHY	LN	56,217	88,861.95	-36.7%	52,425.67	7.2%	83,157	109,302.19	-23.9%
NATURAL GAS PHY	ON	6,500	8,873.75	-26.7%	7,886.38	-17.6%	8,269	9,802.52	-15.6%
N ROCKIES PIPE SWAP	ZR	5	18	-70.4%	10.67	-50.0%	7	19.7	-62.7%
NY HARBOR HEAT OIL SWP	AT	48	215.4	-77.9%	73.76	-35.4%	125	173.43	-28.2%
NYISO ZONE G 5MW PEAK OPTIONS	9U	0	0	-	0	-	0	136.76	-100.0%
NYMEX EUROPEAN GASOIL APO	F7	0	0	-	0	-	0	0	-
PANHANDLE PIPE SWAP	PU	0	0	-	0	-	0	19.86	-100.0%
PETROCHEMICALS	4H	23	27.75	-18.5%	15.48	46.2%	25	23.27	7.2%
PETROCHEMICALS	4J	0	0	-	0	-	9	16.9	-45.3%
PETROCHEMICALS	4K	90	10	804.8%	9.52	850.0%	14	1.38	942.8%
PETROCHEMICALS	CPR	0	0	-	0	-	0	0.12	-100.0%
PETRO OUTRIGHT EURO	8H	0	0	-	0	-	0	2.07	-100.0%
PETRO OUTRIGHT NA	DAP	0	0	-	0	-	0	0	-
PJM WES HUB PEAK CAL MTH	6OA	0	26.5	-100.0%	2.86	-100.0%	2	24.48	-91.3%
PJM WES HUB PEAK CAL MTH	JOA	0	0	-	0	-	6	0	-
PJM WES HUB PEAK LMP 50MW	PMA	4	24.6	-82.2%	46.81	-90.6%	44	83.34	-47.3%
RBOB 1MO CAL SPD OPTIONS	ZA	0	72.9	-100.0%	9.52	-100.0%	5	13.85	-65.4%

## NYMEX/COMEX Exchange ADV Report - Monthly

July 2018

Page 19 of 21

Commodity	ADV JUL 2018	ADV JUL 2017	% CHG	ADV JUN 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
<b>Energy Options</b>								
RBOB CALENDAR SWAP	0	0	-	0	-	7	14.72	-55.1%
RBOB PHY	421	1,220.2	-65.5%	685.62	-38.5%	572	1,233.43	-53.6%
RBOB PHY	0	0	-	0	-	1	0.59	46.1%
ROTTERDAM 3.5%FUEL OIL CL	0	0	-	0	-	0	0	-
SAN JUAN PIPE SWAP	16	9	77.8%	8.86	80.6%	12	13.66	-11.8%
SHORT TERM	10	42	-76.2%	3.57	180.0%	8	22.69	-62.7%
SHORT TERM	12	4.5	164.6%	2.38	400.0%	6	25.37	-77.5%
SHORT TERM	0	21	-100.0%	0	-	1	14.38	-95.2%
SHORT TERM	0	20.75	-100.0%	3.57	-100.0%	6	11.76	-52.6%
SHORT TERM	0	0	-	23.81	-100.0%	5	24.72	-78.5%
SHORT TERM	0	0	-	6.19	-100.0%	8	10.88	-25.0%
SHORT TERM	1	0	-	0	-	4	7.05	-42.2%
SHORT TERM	0	12.5	-100.0%	0	-	3	13.59	-78.5%
SHORT TERM	0	10	-100.0%	4.86	-100.0%	1	2.07	-66.2%
SHORT TERM	0	0	-	0	-	2	2.01	2.0%
SHORT TERM NATURAL GAS	0	12.5	-100.0%	0	-	2	15.79	-84.8%
SHORT TERM NATURAL GAS	0	0	-	12.86	-100.0%	10	16.72	-40.8%
SHORT TERM NATURAL GAS	27	0	-	0	-	9	14.62	-37.9%
SHORT TERM NATURAL GAS	0	0	-	27.38	-100.0%	7	5.03	29.2%
SHORT TERM NATURAL GAS	0	30	-100.0%	5	-100.0%	6	22.24	-75.1%
SHORT TERM NATURAL GAS	11	23	-53.4%	9.52	12.5%	6	38.79	-84.6%
SHORT TERM NATURAL GAS	0	33.5	-100.0%	50.05	-100.0%	11	20.24	-45.8%
SHORT TERM NATURAL GAS	0	0	-	0	-	9	23.34	-59.7%
SHORT TERM NATURAL GAS	38	0	-	0	-	11	18.62	-43.6%
SHORT TERM NATURAL GAS	12	56.5	-78.9%	0	-	7	33.7	-80.7%
SHORT TERM NATURAL GAS	5	0	-	0	-	5	14.62	-67.2%
SHORT TERM NATURAL GAS	1	51	-98.8%	0	-	16	20.2	-22.3%
SHORT TERM NATURAL GAS	0	3.5	-100.0%	40.48	-100.0%	9	3.36	179.8%
SHORT TERM NATURAL GAS	2	19	-90.5%	0	-	2	25.41	-94.0%
SHORT TERM NATURAL GAS	10	14.5	-31.0%	14.29	-30.0%	3	19.34	-81.9%
SHORT TERM NATURAL GAS	0	9.7	-100.0%	7.14	-100.0%	2	12.41	-80.5%
SHORT TERM NATURAL GAS	0	0	-	0	-	3	12.9	-78.8%
SHORT TERM NATURAL GAS	0	10	-100.0%	0	-	1	11.07	-93.8%
SHORT TERM NATURAL GAS	0	0	-	2.86	-100.0%	3	1.79	75.7%
SHORT TERM NATURAL GAS	0	0	-	0	-	1	21.07	-96.7%
SHORT TERM NATURAL GAS	0	20	-100.0%	0	-	0	38.97	-99.6%

## NYMEX/COMEX Exchange ADV Report - Monthly

July 2018

Page 20 of 21

Commodity		ADV JUL 2018	ADV JUL 2017	% CHG	ADV JUN 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
<b>Energy Options</b>									
SINGAPORE GASOIL CALENDAR	M2	0	0	-	0	-	0	0	-
SINGAPORE JET FUEL CALEND	N2	0	0	-	0	-	0	0	-
SOCAL PIPE SWAP	ZN	0	0	-	0	-	0	0	-
WTI-BRENT BULLET SWAP	BV	1,670	367.6	354.2%	2,963	-43.6%	4,930	1,637.75	201.0%
WTI CRUDE OIL 1 M CSO FI	7A	2,550	1,437.5	77.4%	4,347.62	-41.3%	3,758	2,641.03	42.3%
<b>Ag Products Futures</b>									
COCOA TAS	CJ	0	0	-	0	-	0	0.56	-93.9%
COFFEE	KT	0	0	-	0	-	0	0.28	-100.0%
COTTON	TT	0	0	-	0	-	0	0.1	-86.8%
SUGAR 11	YO	0	0.25	-100.0%	0	-	0	0.26	55.7%
<b>TOTAL FUTURES GROUP</b>									
Ag Products Futures		0	0.25	-100.0%	0	-	0	1.19	-62.7%
Energy Futures		1,944,565	2,314,401.9	-16.0%	2,313,295.33	-15.9%	2,310,908	2,230,389.2	3.6%
Metals Futures		586,318	502,569.4	16.7%	606,662.38	-3.4%	628,997	480,809.83	30.8%
<b>TOTAL FUTURES</b>		<b>2,530,883</b>	<b>2,816,971.55</b>	<b>-10.2%</b>	<b>2,919,957.72</b>	<b>-13.3%</b>	<b>2,939,905.68</b>	<b>2,711,200.23</b>	<b>8.4%</b>
<b>TOTAL OPTIONS GROUP</b>									
Energy Options		243,096	295,355.45	-17.7%	262,667.24	-7.5%	307,168	338,877.31	-9.4%
Metals Options		55,626	47,495.95	17.1%	59,009.14	-5.7%	56,674	45,309.02	25.1%
<b>TOTAL OPTIONS</b>		<b>298,722</b>	<b>342,851.4</b>	<b>-12.9%</b>	<b>321,676.38</b>	<b>-7.1%</b>	<b>363,841.53</b>	<b>384,186.33</b>	<b>-5.3%</b>

## NYMEX/COMEX Exchange ADV Report - Monthly

July 2018

Page 21 of 21

Commodity	ADV JUL 2018	ADV JUL 2017	% CHG	ADV JUN 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
<b>TOTAL COMBINED</b>								
Metals	641,944	550,065.35	16.7%	665,671.52	-3.6%	685,671	526,118.86	30.3%
Energy	2,187,660	2,609,757.35	-16.2%	2,575,962.57	-15.1%	2,618,076	2,569,266.51	1.9%
Ag Products	0	0.25	-100.0%	0	-	0	1.19	-62.7%
<b>GRAND TOTAL</b>	<b>2,829,605</b>	<b>3,159,822.95</b>	<b>-10.5%</b>	<b>3,241,634.1</b>	<b>-12.7%</b>	<b>3,303,747.2</b>	<b>3,095,386.56</b>	<b>6.7%</b>