

## NYMEX/COMEX Exchange Open Interest Report - Monthly

	Commodity	Open Interest APR 2022	Open Interest APR 2021	% CHG	Open Interest MAR 2022	% CHG
<b>Ag Products Futures</b>						
COFFEE	KT	0	0	-	0	-
COTTON	TT	0	0	-	0	-
SUGAR 11	YO	0	0	-	0	-
<b>Energy Futures</b>						
CRUDE OIL PHY	CL	1,752,306	2,381,401	-26.4%	1,805,276	-2.9%
CRUDE OIL	WS	0	8	-100.0%	0	-
MINY WTI CRUDE OIL	QM	3,965	3,255	21.8%	8,478	-53.2%
BRENT OIL LAST DAY	BZ	191,039	205,900	-7.2%	193,830	-1.4%
HEATING OIL PHY	HO	228,673	395,429	-42.2%	206,781	10.6%
HTG OIL	BH	100	123	-18.7%	74	35.1%
MINY HTG OIL	QH	2	0	-	0	-
RBOB PHY	RB	303,635	360,676	-15.8%	284,059	6.9%
MINY RBOB GAS	QU	2	2	0.0%	1	100.0%
NATURAL GAS	HP	230,841	126,183	82.9%	182,473	26.5%
LTD NAT GAS	HH	438,940	364,875	20.3%	443,871	-1.1%
MINY NATURAL GAS	QG	5,531	4,093	35.1%	4,062	36.2%
PJM MONTHLY	JM	0	0	-	0	-
NATURAL GAS PHY	NG	1,138,495	1,173,202	-3.0%	1,124,511	1.2%
RBOB GAS	RT	73	109	-33.0%	56	30.4%
3.5% FUEL OIL CID MED SWA	7D	0	0	-	0	-
AEP-DAYTON HUB DAILY	VD	10	10	0.0%	10	0.0%
ARGUS LLS VS. WTI (ARG) T	E5	9,879	19,430	-49.2%	6,775	45.8%
ARGUS PROPAN FAR EST INDE	7E	4,942	5,536	-10.7%	4,659	6.1%
ARGUS PROPAN(SAUDI ARAMCO	9N	1,904	1,768	7.7%	1,739	9.5%
AUSTRIALIAN COKE COAL	ALW	0	0	-	0	-
BRENT BALMO SWAP	J9	0	0	-	740	-100.0%
BRENT CALENDAR SWAP	CY	41,114	13,234	210.7%	43,938	-6.4%
BRENT FINANCIAL FUTURES	BB	0	1,000	-100.0%	0	-
BRENT FINANCIAL FUTURES	MBC	0	0	-	0	-
BRENT FINANCIAL FUTURES	MDB	0	54	-100.0%	0	-
BRENT OIL LAST DAY	BZL	0	0	0.0%	0	0.0%
BRENT OIL LAST DAY	BZS	0	0	0.0%	0	0.0%
CAR VINTAGE	GEO	3,154	130	2,326.2%	2,875	9.7%
CAR VINTAGE	NGO	17,672	0	-	16,884	4.7%
CHICAGO ETHANOL SWAP	CU	33,208	40,093	-17.2%	29,784	11.5%
CHICAGO ULSD PL VS HO SPR	5C	1,838	1,488	23.5%	1,933	-4.9%
CHICAGO UNL GAS PL VS RBO	3C	75	1,060	-92.9%	75	0.0%
CIG BASIS	CI	0	0	-	0	-
CIN HUB 5MW D AH PK	H5	0	0	-	0	-
CIN HUB 5MW REAL TIME O P	H4	0	0	-	0	-
CIN HUB 5MW REAL TIME PK	H3	0	0	-	0	-
COLUMB GULF MAINLINE NG B	5Z	0	0	-	0	-
CONWAY NATURAL GASOLINE (OPIS) SWAP	8L	1,854	557	232.9%	1,685	10.0%
CONWAY NORMAL BUTANE (OPIS) SWAP	8M	839	511	64.2%	538	55.9%
CONWAY PROPANE 5 DECIMALS SWAP	8K	18,810	17,632	6.7%	19,229	-2.2%
CRUDE OIL	LPS	0	50	-100.0%	0	-
CRUDE OIL LAST DAY	26	0	0	-	0	-
CRUDE OIL OUTRIGHTS	42	709	381	86.1%	2,423	-70.7%
CRUDE OIL OUTRIGHTS	CC5	1,950	3,491	-44.1%	2,172	-10.2%
CRUDE OIL OUTRIGHTS	CSW	420	2,754	-84.7%	570	-26.3%

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Energy Futures						
CRUDE OIL OUTRIGHTS	DAB	0	0	-	0	-
CRUDE OIL OUTRIGHTS	DBL	0	0	-	0	-
CRUDE OIL OUTRIGHTS	GSW	945	3,315	-71.5%	1,080	-12.5%
CRUDE OIL OUTRIGHTS	HTT	138,658	136,593	1.5%	124,868	11.0%
CRUDE OIL OUTRIGHTS	LSW	2,377	4,781	-50.3%	3,012	-21.1%
CRUDE OIL OUTRIGHTS	WCW	7,055	13,917	-49.3%	9,915	-28.8%
CRUDE OIL PHY	CLL	0	0	0.0%	0	0.0%
CRUDE OIL PHY	HCL	0	251	-100.0%	0	-
CRUDE OIL PHY	MCL	6,390	0	-	26,174	-75.6%
CRUDE OIL SPRDS	38	0	0	-	0	-
CRUDE OIL SPRDS	ANT	2,055	868	136.8%	2,000	2.8%
CRUDE OIL SPRDS	HIL	5,780	17,775	-67.5%	6,150	-6.0%
CRUDE OIL SPRDS	WTT	115,924	86,308	34.3%	100,636	15.2%
CRUDE OIL TRADE AT MARKER SINGAPORE	CLS	0	0	0.0%	0	0.0%
DAILY PJM	AOR	600	480	25.0%	480	25.0%
DAILY PJM	IDO	1,560	19,456	-92.0%	1,152	35.4%
DAILY PJM	NOC	0	960	-100.0%	0	-
DAILY PJM	PAP	0	0	-	0	-
DAILY PJM	PEO	0	0	-	0	-
DAILY PJM	PNO	0	0	-	0	-
DAILY PJM	PNP	0	0	-	0	-
DAILY PJM	PWO	0	0	-	0	-
DAILY PJM	PWP	0	0	-	0	-
DAILY PJM	WOR	5,400	1,920	181.3%	4,320	25.0%
DAILY PJM	ZAO	0	0	-	0	-
DAILY PJM	ZGO	0	10,240	-100.0%	0	-
DAILY PJM	ZJO	0	0	-	0	-
DATED BRENT (PLATTS) DAILY SWAP	7G	0	0	-	0	-
DATED TO FRONTLINE BRENT	FY	2,445	550	344.5%	2,470	-1.0%
DIESEL 10P BRG FOB RDM VS	7X	5	0	-	0	-
DOMINION TRANSMISSION INC	PG	0	108	-100.0%	0	-
DUBAI CRUDE OIL BALMO	BI	0	0	-	0	-
DUBAI CRUDE OIL CALENDAR	DC	1,500	0	-	1,500	0.0%
DUTCH TTF NATURAL GAS CAL MONTH FUT	TTF	5,011	29,513	-83.0%	6,092	-17.7%
EAST/WEST FUEL OIL SPREAD	EW	0	0	-	0	-
EIA FLAT TAX ONHWAY DIESE	A5	1,158	4,242	-72.7%	1,269	-8.7%
ELEC FINSETTLED	47	0	0	-	0	-
ELECTRICITY OFF PEAK	46	0	0	-	0	-
ELECTRICITY OFF PEAK	4P	0	0	-	0	-
EMMISSIONS	CGO	56	0	-	9	522.2%
ETHANOL	MTH	0	10	-100.0%	0	-
ETHANOL SWAP	MT2	730	715	2.1%	580	25.9%
ETHANOL T2 FOB ROTT INCL DUTY SWAP	Z1	6,429	8,651	-25.7%	7,012	-8.3%
EURO 3.5% FUEL OIL RDAM B	KR	0	0	-	0	-
EURO 3.5% FUEL OIL SPREAD	FK	0	0	-	0	-
EURO GASOIL 10PPM VS ICE	ET	893	748	19.4%	947	-5.7%
EUROPE 1% FUEL OIL NWE CA	UF	45	12	275.0%	50	-10.0%
EUROPE 1% FUEL OIL RDAM C	UH	0	0	-	0	-
EUROPE 3.5% FUEL OIL MED	UI	0	0	-	0	-
EUROPE 3.5% FUEL OIL RDAM	UV	209	163	28.2%	221	-5.4%
EUROPEAN GASOIL (ICE)	7F	4,183	3,408	22.7%	4,435	-5.7%
EUROPEAN NAPHTHA BALMO	KZ	30	8	275.0%	5	500.0%

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EUROPEAN NAPHTHA CRACK SPR	EN	7,672	2,799	174.1%	8,413	-8.8%
EUROPE DATED BRENT SWAP	UB	10	731	-98.6%	11	-9.1%
EUROPE JET KERO NWE CALSW	UJ	0	0	-	0	-
EUROPE NAPHTHA CALSWAP	UN	982	873	12.5%	1,217	-19.3%
EURO PROPANE CIF ARA SWA	PS	2,849	2,509	13.6%	2,877	-1.0%
FREIGHT MARKETS	ACB	0	0	-	0	-
FREIGHT MARKETS	BF1	0	0	-	0	-
FREIGHT MARKETS	BF2	0	396	-100.0%	0	-
FREIGHT MARKETS	BF3	0	0	-	0	-
FREIGHT MARKETS	BL2	130	0	-	150	-13.3%
FREIGHT MARKETS	CS4	120	0	-	120	0.0%
FREIGHT MARKETS	FLJ	0	10	-100.0%	0	-
FREIGHT MARKETS	FLP	147	519	-71.7%	142	3.5%
FREIGHT MARKETS	FRC	45	60	-25.0%	50	-10.0%
FREIGHT MARKETS	T2D	360	300	20.0%	410	-12.2%
FREIGHT MARKETS	T7C	0	0	-	0	-
FREIGHT MARKETS	T8C	0	0	-	0	-
FREIGHT MARKETS	TC6	0	0	-	25	-100.0%
FREIGHT MARKETS	TD3	0	0	-	0	-
FREIGHT MARKETS	USC	0	0	-	0	-
FREIGHT MARKETS	USE	0	90	-100.0%	0	-
FUEL OIL CRACK VS ICE	FO	782	1,990	-60.7%	1,168	-33.0%
FUEL OIL NWE CRACK VS ICE	FI	81	0	-	87	-6.9%
FUEL OIL (PLATS) CAR CM	1W	0	0	-	0	-
FUELOIL SWAP:CARGOES VS.B	FS	0	81	-100.0%	0	-
GAS EURO-BOB OXY NWE BARGES	7H	605	1,933	-68.7%	790	-23.4%
GAS EURO-BOB OXY NWE BARGES CRK	7K	10,227	15,467	-33.9%	10,968	-6.8%
GASOIL 0.1CIF MED VS ICE	Z5	45	0	-	50	-10.0%
GASOIL 0.1 RDAM BRGS VS I	WQ	5	39	-87.2%	5	0.0%
GASOIL 0.1 ROTTERDAM BARG	VL	76	40	90.0%	95	-20.0%
GASOIL 10PPM VS ICE SWAP	TP	0	0	-	0	-
GASOIL CALENDAR SWAP	GX	416	190	118.9%	516	-19.4%
GASOIL CRACK SPREAD CALEN	GZ	3,998	4,460	-10.4%	4,717	-15.2%
GASOIL MINI CALENDAR SWAP	QA	1,222	1,431	-14.6%	1,249	-2.2%
GERMAN POWER BASELOAD CAL MONTH FUT	DEB	162	843	-80.8%	180	-10.0%
GROUP THREE UNLEAD GAS (P	A9	0	0	-	0	-
GRP THREE ULSD(PLT)VS HEA	A6	8,990	10,369	-13.3%	7,880	14.1%
GRP THREE UNL GS (PLT) VS	A8	6,835	5,775	18.4%	6,455	5.9%
GULF COAST 3% FUEL OIL BA	VZ	0	0	-	400	-100.0%
GULF COAST JET FUEL CLNDR	GE	0	750	-100.0%	0	-
GULF COAST JET VS NYM 2 H	ME	11,792	28,276	-58.3%	11,774	0.2%
GULF COAST NO.6 FUEL OIL	MF	4,957	4,739	4.6%	4,908	1.0%
GULF COAST NO.6 FUEL OIL	MG	7,650	0	-	7,910	-3.3%
GULF COAST ULSD CALENDAR	LY	1,026	4,663	-78.0%	1,164	-11.9%
GULF COAST ULSD CRACK SPR	GY	0	90	-100.0%	0	-
HEATING OIL BALMO CLNDR S	1G	15	0	-	0	-
HEATING OIL CRCK SPRD BAL	1H	0	0	-	0	-
HEATING OIL PHY	HOL	0	0	0.0%	0	0.0%
HENRY HUB BASIS SWAP	HB	0	0	-	0	-
HENRY HUB FINANCIAL LAST	NBP	0	0	-	0	-
HENRY HUB INDEX SWAP FUTU	IN	0	0	-	0	-
HENRY HUB SWAP	NN	559,042	599,073	-6.7%	575,683	-2.9%

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<b>Energy Futures</b>						
HOUSTON SHIP CHANNEL BASI	NH	0	1,225	-100.0%	0	-
ICE BRENT DUBAI SWAP	DB	1,735	5,321	-67.4%	1,996	-13.1%
ICE GASOIL BALMO SWAP	U9	0	20	-100.0%	0	-
INDIANA MISO	FTD	0	0	-	0	-
INDIANA MISO	PDD	0	0	-	0	-
INDIANA MISO	PTD	0	0	-	0	-
INDONESIAN COAL ICI4	ICI	0	645	-100.0%	0	-
JAPAN C&F NAPHTHA CRACK S	JB	6	0	-	6	0.0%
JAPAN C&F NAPHTHA SWAP	JA	338	196	72.4%	369	-8.4%
JAPAN NAPHTHA BALMO SWAP	E6	0	0	-	6	-100.0%
JET CIF NWE VS ICE	JC	1,024	499	105.2%	1,076	-4.8%
JET FUEL UP-DOWN BALMO CL	1M	910	1,100	-17.3%	3,760	-75.8%
JKM LNG Futures	JKM	1,508	4,751	-68.3%	1,609	-6.3%
LA CARB DIESEL (OPIS) SWA	KL	1,258	575	118.8%	1,242	1.3%
LA CARBOB GASOLINE(OPIS)S	JL	0	100	-100.0%	0	-
LA JET (OPIS) SWAP	JS	875	771	13.5%	795	10.1%
LLS (ARGUS) CALENDAR SWAP	XA	0	50	-100.0%	0	-
LLS (ARGUS) VS WTI SWAP	WJ	2,487	3,247	-23.4%	2,704	-8.0%
LOS ANGELES CARB GASOLINE	MH	0	0	-	0	-
MARS (ARGUS) VS WTI SWAP	YX	1,100	890	23.6%	1,400	-21.4%
MARS (ARGUS) VS WTI TRD M	YV	24,926	28,559	-12.7%	23,570	5.8%
MARS BLEND CRUDE OIL	MB	0	0	-	0	-
MCCLOSKEY ARA ARGS COAL	MTF	11,752	16,451	-28.6%	10,596	10.9%
MCCLOSKEY RCH BAY COAL	MFF	910	1,339	-32.0%	962	-5.4%
MGN1 SWAP FUT	MGN	0	20	-100.0%	0	-
MICHIGAN BASIS	NF	0	0	-	0	-
MINI GAS EUROBOB OXY NWE ARGS BALMO	MEB	5	45	-88.9%	155	-96.8%
MINI RBOB V. EBOBARG NWE BRGS BALMO	MXR	0	0	-	0	-
MINI RBOB V. EBOB(ARGUS) NWE BRGS	MXB	894	1,223	-26.9%	447	100.0%
MJC FUT	MJC	0	20	-100.0%	0	-
MNC FUT	MNC	2,362	791	198.6%	2,651	-10.9%
MONT BELVIEU ETHANE 5 DECIMAL	C0	49,554	46,182	7.3%	50,307	-1.5%
MONT BELVIEU ETHANE OPIS BALMO	8C	415	145	186.2%	446	-7.0%
MONT BELVIEU LDH PROPANE 5 DECIMAL	B0	121,993	137,497	-11.3%	127,514	-4.3%
MONT BELVIEU LDH PROPANE OPIS BALMO	8O	3,263	4,830	-32.4%	2,378	37.2%
MONT BELVIEU NATURAL GASOLINE 5 DEC	7Q	36,542	32,155	13.6%	34,908	4.7%
MONT BELVIEU NATURAL GASOLINE BALMO	R0	1,653	410	303.2%	1,240	33.3%
MONT BELVIEU NORMAL BUTANE 5 DECIMAL	D0	49,465	59,805	-17.3%	48,194	2.6%
MONT BELVIEU NORMAL BUTANE BALMO	8J	1,049	703	49.2%	1,591	-34.1%
NATURAL GAS PEN SWP	NP	211,300	252,104	-16.2%	200,910	5.2%
NEPOOL INTR HUB 5MW D AH	H2	5,880	104,044	-94.3%	7,104	-17.2%
NEPOOL INTR HUB 5MW D AH	U6	321	4,675	-93.1%	384	-16.4%
NEPOOL NE MASS 5MW D AH O	P8	0	0	-	0	-
NEPOOL NE MASS 5MW D AH P	P7	0	0	-	0	-
NEW ENGLAND HUB PEAK DAIL	CE	96	868	-88.9%	63	52.4%
NEW YORK ETHANOL SWAP	EZ	1,441	535	169.3%	1,790	-19.5%
NEW YORK HUB ZONE G PEAK	GN	800	310	158.1%	800	0.0%
NEW YORK HUB ZONE J PEAK	JN	0	0	-	0	-
NGPL MID-CONTINENT	NL	0	0	-	0	-
NGPL TEX/OK	PD	0	0	-	0	-
N ILLINOIS HUB DAILY	UD	0	20	-100.0%	0	-
NO 2 UP-DOWN SPREAD CALEN	UT	0	0	-	0	-

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<b>Energy Futures</b>						
NORTHWEST ROCKIES BASIS S	NR	0	0	-	0	-
NY1% VS GC SPREAD SWAP	VR	0	380	-100.0%	0	-
NY HARBOR 1% FUEL OIL BAL	VK	0	0	-	0	-
NY HARBOR HEAT OIL SWP	MP	7,633	10,006	-23.7%	7,191	6.1%
NY HARBOR LOW SULPUR GAS 1000MBBL	NLS	450	1,880	-76.1%	500	-10.0%
NY HARBOR RESIDUAL FUEL 1	MM	400	550	-27.3%	450	-11.1%
NYH NO 2 CRACK SPREAD CAL	HK	15,600	7,818	99.5%	13,376	16.6%
NYISO CAPACITY	LHV	0	0	-	0	-
NYISO CAPACITY	NRS	0	0	-	0	-
NYISO ZONE A 5MW D AH O P	K4	0	0	-	0	-
NYISO ZONE G 5MW D AH O P	D2	0	39,200	-100.0%	0	-
NYISO ZONE G 5MW D AH PK	T3	3,725	7,885	-52.8%	4,250	-12.4%
NYISO ZONE J 5MW D AH O P	D4	0	0	-	0	-
NYISO ZONE J 5MW D AH PK	D3	0	0	-	0	-
NYMEX ALUMINUM FUTURES	AN	0	0	-	0	-
NYMEX ULSD VS NYMEX HO	UY	0	0	-	0	-
NY ULSD (ARGUS) VS HEATING OIL	7Y	109	141	-22.7%	409	-73.3%
PANHANDLE BASIS SWAP FUTU	PH	0	232	-100.0%	0	-
PERMIAN BASIS SWAP	PM	0	0	-	0	-
PETROCHEMICALS	22	92	134	-31.3%	156	-41.0%
PETROCHEMICALS	32	53	26	103.8%	69	-23.2%
PETROCHEMICALS	3NA	62	37	67.6%	70	-11.4%
PETROCHEMICALS	51	0	0	-	0	-
PETROCHEMICALS	81	364	0	-	364	0.0%
PETROCHEMICALS	8I	7,381	8,022	-8.0%	7,258	1.7%
PETROCHEMICALS	91	1,011	928	8.9%	1,092	-7.4%
PETROCHEMICALS	MAA	130	0	-	110	18.2%
PETROCHEMICALS	MAE	2,113	1,488	42.0%	2,456	-14.0%
PETROCHEMICALS	MAS	965	385	150.6%	1,220	-20.9%
PETROCHEMICALS	MBE	50	80	-37.5%	90	-44.4%
PETROCHEMICALS	MNB	0	468	-100.0%	40	-100.0%
PETROCHEMICALS	MPS	1,254	1,258	-0.3%	1,323	-5.2%
PETROCHEMICALS	PMF	12	0	-	12	0.0%
PETRO CRCKS & SPRDS ASIA	STR	0	0	-	0	-
PETRO CRCKS & SPRDS ASIA	STS	0	225	-100.0%	0	-
PETRO CRCKS & SPRDS NA	CRB	21,396	20,505	4.3%	22,585	-5.3%
PETRO CRCKS & SPRDS NA	EXR	1,211	1,899	-36.2%	1,225	-1.1%
PETRO CRCKS & SPRDS NA	FOC	0	0	-	0	-
PETRO CRCKS & SPRDS NA	GBB	0	100	-100.0%	0	-
PETRO CRCKS & SPRDS NA	GCC	0	0	-	0	-
PETRO CRCKS & SPRDS NA	GCI	0	285	-100.0%	0	-
PETRO CRCKS & SPRDS NA	GCM	0	0	-	0	-
PETRO CRCKS & SPRDS NA	GCU	275	1,010	-72.8%	275	0.0%
PETRO CRCKS & SPRDS NA	GFC	0	0	-	720	-100.0%
PETRO CRCKS & SPRDS NA	HOB	1,873	5,040	-62.8%	2,377	-21.2%
PETRO CRCKS & SPRDS NA	MFR	0	12	-100.0%	0	-
PETRO CRCKS & SPRDS NA	NYF	0	0	-	0	-
PETRO CRCKS & SPRDS NA	RBB	3,169	4,708	-32.7%	3,164	0.2%
PETRO CRCKS & SPRDS NA	RVG	10,326	5,123	101.6%	11,027	-6.4%
PETRO CRCKS & SPRDS NA	SF3	0	0	-	0	-
PETRO CRK&SPRD EURO	1NB	1,155	48	2,306.3%	1,305	-11.5%
PETRO CRK&SPRD EURO	43	25	0	-	0	-

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PETRO CRK&SPRD EURO	BOB	566	524	8.0%	611	-7.4%
PETRO CRK&SPRD EURO	EOB	15	5	200.0%	15	0.0%
PETRO CRK&SPRD EURO	EPN	846	1,019	-17.0%	1,036	-18.3%
PETRO CRK&SPRD EURO	EVC	270	180	50.0%	325	-16.9%
PETRO CRK&SPRD EURO	FVB	0	0	-	0	-
PETRO CRK&SPRD EURO	GCB	0	0	-	0	-
PETRO CRK&SPRD EURO	GOC	9	0	-	9	0.0%
PETRO CRK&SPRD EURO	MGB	0	0	-	0	-
PETRO CRK&SPRD EURO	MUD	0	0	-	0	-
PETRO CRK&SPRD EURO	NBB	0	0	-	0	-
PETRO CRK&SPRD EURO	NOB	376	317	18.6%	414	-9.2%
PETROLEUM PRODUCTS	1NM	0	300	-100.0%	0	-
PETROLEUM PRODUCTS	BEB	0	3	-100.0%	0	-
PETROLEUM PRODUCTS	BEF	0	1	-100.0%	2	-100.0%
PETROLEUM PRODUCTS	CMS	290	30	866.7%	290	0.0%
PETROLEUM PRODUCTS	EWG	2,451	0	-	2,651	-7.5%
PETROLEUM PRODUCTS	H5F	50	30	66.7%	25	100.0%
PETROLEUM PRODUCTS	JCC	5,096	496	927.4%	4,059	25.5%
PETROLEUM PRODUCTS	MME	0	0	-	0	-
PETROLEUM PRODUCTS	MPE	0	0	-	0	-
PETROLEUM PRODUCTS	NCC	0	0	-	0	-
PETROLEUM PRODUCTS	R5E	0	0	-	0	-
PETROLEUM PRODUCTS	R5F	176	112	57.1%	182	-3.3%
PETROLEUM PRODUCTS	S53	12	18	-33.3%	12	0.0%
PETROLEUM PRODUCTS	UCS	0	0	-	0	-
PETROLEUM PRODUCTS	UP5	0	0	-	0	-
PETROLEUM PRODUCTS	VU	500	20	2,400.0%	225	122.2%
PETROLEUM PRODUCTS ASIA	E6M	0	0	-	0	-
PETROLEUM PRODUCTS ASIA	MJN	1,201	402	198.8%	1,318	-8.9%
PETRO OUTRIGHT EURO	OB	126	18	600.0%	140	-10.0%
PETRO OUTRIGHT EURO	OC	0	0	-	0	-
PETRO OUTRIGHT EURO	OD	134	308	-56.5%	136	-1.5%
PETRO OUTRIGHT EURO	OE	0	0	-	0	-
PETRO OUTRIGHT EURO	OF	9	12	-25.0%	0	-
PETRO OUTRIGHT EURO	1T	0	0	-	0	-
PETRO OUTRIGHT EURO	5L	0	0	-	0	-
PETRO OUTRIGHT EURO	63	0	0	-	0	-
PETRO OUTRIGHT EURO	7I	50	0	-	100	-50.0%
PETRO OUTRIGHT EURO	7R	0	0	-	21	-100.0%
PETRO OUTRIGHT EURO	CBB	0	0	-	0	-
PETRO OUTRIGHT EURO	CGB	0	0	-	0	-
PETRO OUTRIGHT EURO	CPB	70	415	-83.1%	317	-77.9%
PETRO OUTRIGHT EURO	EFF	0	0	-	0	-
PETRO OUTRIGHT EURO	EFM	0	12	-100.0%	0	-
PETRO OUTRIGHT EURO	ENS	0	0	-	0	-
PETRO OUTRIGHT EURO	EWN	417	153	172.5%	494	-15.6%
PETRO OUTRIGHT EURO	FLB	0	0	-	0	-
PETRO OUTRIGHT EURO	GNO	0	0	-	0	-
PETRO OUTRIGHT EURO	H5G	0	0	-	0	-
PETRO OUTRIGHT EURO	JFB	0	0	-	0	-
PETRO OUTRIGHT EURO	M1B	3,698	5,342	-30.8%	3,691	0.2%
PETRO OUTRIGHT EURO	MBB	0	20	-100.0%	0	-

## NYMEX/COMEX Exchange Open Interest Report - Monthly

Commodity		Open Interest APR 2022	Open Interest APR 2021	% CHG	Open Interest MAR 2022	% CHG
<b>Energy Futures</b>						
PETRO OUTRIGHT EURO	MBN	2,498	1,632	53.1%	2,438	2.5%
PETRO OUTRIGHT EURO	MEF	235	665	-64.7%	255	-7.8%
PETRO OUTRIGHT EURO	MQA	71	0	-	71	0.0%
PETRO OUTRIGHT EURO	R53	27	60	-55.0%	30	-10.0%
PETRO OUTRIGHT EURO	R5B	0	20	-100.0%	0	-
PETRO OUTRIGHT EURO	R5M	4,177	1,630	156.3%	5,028	-16.9%
PETRO OUTRIGHT EURO	R5O	3,703	2,789	32.8%	4,424	-16.3%
PETRO OUTRIGHT EURO	RBM	10	0	-	16	-37.5%
PETRO OUTRIGHT EURO	S5B	0	0	-	0	-
PETRO OUTRIGHT EURO	S5F	235	312	-24.7%	266	-11.7%
PETRO OUTRIGHT EURO	S5M	3,329	3,602	-7.6%	3,659	-9.0%
PETRO OUTRIGHT EURO	S5O	4,863	2,034	139.1%	6,336	-23.2%
PETRO OUTRIGHT EURO	SMU	0	0	-	0	-
PETRO OUTRIGHT EURO	T0	0	0	-	0	-
PETRO OUTRIGHT EURO	T2B	0	0	-	0	-
PETRO OUTRIGHT EURO	TLB	0	0	-	0	-
PETRO OUTRIGHT EURO	ULB	0	0	-	0	-
PETRO OUTRIGHT EURO	UNB	0	0	-	0	-
PETRO OUTRIGHT EURO	V0	0	0	-	0	-
PETRO OUTRIGHT NA	A8B	505	50	910.0%	30	1,583.3%
PETRO OUTRIGHT NA	AB6	100	0	-	955	-89.5%
PETRO OUTRIGHT NA	BCR	530	2,175	-75.6%	750	-29.3%
PETRO OUTRIGHT NA	DBB	0	0	-	0	-
PETRO OUTRIGHT NA	FCB	0	0	-	0	-
PETRO OUTRIGHT NA	H5B	0	0	-	0	-
PETRO OUTRIGHT NA	JE	90	425	-78.8%	40	125.0%
PETRO OUTRIGHT NA	JET	525	50	950.0%	925	-43.2%
PETRO OUTRIGHT NA	JTB	475	0	-	540	-12.0%
PETRO OUTRIGHT NA	MBL	375	328	14.3%	375	0.0%
PETRO OUTRIGHT NA	MEN	65	35	85.7%	55	18.2%
PETRO OUTRIGHT NA	MEO	352	569	-38.1%	348	1.1%
PETRO OUTRIGHT NA	MFD	0	0	-	0	-
PETRO OUTRIGHT NA	MMF	0	0	-	0	-
PJM AD HUB 5MW REAL TIME	V3	15,805	39,125	-59.6%	17,725	-10.8%
PJM AD HUB 5MW REAL TIME	Z9	850	2,130	-60.1%	955	-11.0%
PJM DAILY	JD	284	296	-4.1%	284	0.0%
PJM DAYTON DA OFF-PEAK	R7	0	0	-	0	-
PJM DAYTON DA PEAK	D7	0	0	-	0	-
PJM NI HUB 5MW REAL TIME	B3	0	1,710	-100.0%	0	-
PJM NI HUB 5MW REAL TIME	B6	0	31,450	-100.0%	0	-
PJM PECO ZONE5MW PEAK CAL MO DAY AH	4N	0	0	-	0	-
PJM PSEG DA OFF-PEAK	W6	0	0	-	0	-
PJM PSEG DA PEAK	L6	0	0	-	0	-
PJM WESTH DA OFF-PEAK	E4	0	0	-	0	-
PJM WESTHDA PEAK	J4	0	0	-	0	-
PJM WESTH RT OFF-PEAK	N9	142,245	273,500	-48.0%	159,525	-10.8%
PJM WESTH RT PEAK	L1	29,982	41,975	-28.6%	32,964	-9.0%
PLASTICS	PGP	3,758	2,313	62.5%	3,717	1.1%
PREMIUM UNLD 10P FOB MED	3G	135	0	-	150	-10.0%
PROPANE NON-LDH MB (OPIS) BALMO SWP	1S	1,217	1,977	-38.4%	1,152	5.6%
PROPANE NON-LDH MT. BEL (OPIS) SWP	1R	43,549	63,270	-31.2%	46,419	-6.2%
RBOB CALENDAR SWAP	RL	12,497	15,794	-20.9%	12,226	2.2%



## NYMEX/COMEX Exchange Open Interest Report - Monthly

Commodity		Open Interest APR 2022	Open Interest APR 2021	% CHG	Open Interest MAR 2022	% CHG
<b>Energy Futures</b>						
RBOB CRACK SPREAD	RM	18,139	10,352	75.2%	17,779	2.0%
RBOB GASOLINE BALMO CLNDR	1D	469	372	26.1%	2,032	-76.9%
RBOB PHY	RBL	0	0	0.0%	0	0.0%
RBOB VS HEATING OIL SWAP	RH	375	630	-40.5%	375	0.0%
SAN JUAN BASIS SWAP	NJ	0	0	-	0	-
SINGAPORE 180CST BALMO	BS	0	0	-	0	-
SINGAPORE 380CST BALMO	BT	1	0	-	0	-
SINGAPORE 380CST FUEL OIL	SE	509	501	1.6%	422	20.6%
SINGAPORE FUEL 180CST CAL	UA	0	0	-	0	-
SINGAPORE FUEL OIL 180 CS	GMS	0	0	-	0	-
SINGAPORE FUEL OIL SPREAD	SD	0	0	-	0	-
SINGAPORE GASOIL	MAF	1,209	413	192.7%	703	72.0%
SINGAPORE GASOIL	MTB	85	0	-	41	107.3%
SINGAPORE GASOIL	MTS	712	748	-4.8%	688	3.5%
SINGAPORE GASOIL	SBM	70	7	900.0%	65	7.7%
SINGAPORE GASOIL CALENDAR	MSG	367	1,902	-80.7%	432	-15.0%
SINGAPORE GASOIL SWAP	SG	1,556	5,577	-72.1%	898	73.3%
SINGAPORE GASOIL VS ICE	GA	5,070	2,126	138.5%	5,335	-5.0%
SINGAPORE JET KERO BALMO	BX	0	0	-	0	-
SINGAPORE JET KERO GASOIL	RK	3,745	600	524.2%	4,095	-8.5%
SINGAPORE JET KEROSENE SW	KS	175	1,125	-84.4%	375	-53.3%
SINGAPORE MOGAS 92 UNLEADED BALMO	1P	0	0	-	210	-100.0%
SINGAPORE MOGAS 92 UNLEADED SWP	1N	300	1,440	-79.2%	500	-40.0%
Sumas Basis Swap	NK	0	0	-	0	-
TC2 ROTTERDAM TO USAC 37K	TM	129	105	22.9%	193	-33.2%
TC5 RAS TANURA TO YOKOHAM	TH	150	135	11.1%	175	-14.3%
TCO BASIS SWAP	TC	0	0	-	0	-
TD3 MEG TO JAPAN 250K MT	TL	4,265	6,549	-34.9%	4,580	-6.9%
TEXAS EASTERN ZONE M-3 BA	NX	0	0	-	0	-
TRANSCO ZONE4 BASIS SWAP	TR	0	0	-	0	-
UK NBP NAT GAS CAL MTH FUT	UKG	0	60	-100.0%	0	-
ULSD UP-DOWN BALMO SWP	1L	5,174	2,995	72.8%	5,598	-7.6%
UP DOWN GC ULSD VS NMX HO	LT	33,398	52,025	-35.8%	36,202	-7.7%
WAHA BASIS	NW	0	0	-	0	-
WTI-BRENT BULLET SWAP	BY	0	0	-	0	-
WTI-BRENT CALENDAR SWAP	BK	109,473	89,455	22.4%	112,204	-2.4%
WTI CALENDAR	CS	172,484	158,863	8.6%	174,791	-1.3%
WTI MIDLAND CRUDE OIL	WTL	0	1,365	-100.0%	0	-
WTS (ARGUS) VS WTI SWAP	FF	29,515	55,935	-47.2%	31,087	-5.1%
WTS (ARGUS) VS WTI TRD MT	FH	8,455	9,798	-13.7%	8,105	4.3%
<b>Energy Options</b>						
BRENT CALENDAR SWAP	BA	2,858	1,124	154.3%	3,092	-7.6%
BRENT CRUDE OIL 1 M CSO	9C	5,650	71,200	-92.1%	5,300	6.6%
BRENT OIL LAST DAY	BE	58,024	117,045	-50.4%	59,966	-3.2%
BRENT OIL LAST DAY	BZO	64,473	68,376	-5.7%	92,071	-30.0%
BRENT OIL LAST DAY	OS	0	0	-	0	-
COAL API2 INDEX	F2C	305	360	-15.3%	245	24.5%
COAL API2 INDEX	F2Q	0	610	-100.0%	0	-
CRUDE OIL	6Y	0	50	-100.0%	0	-
CRUDE OIL 1MO	WA	183,421	408,630	-55.1%	197,933	-7.3%
CRUDE OIL APO	AO	254,834	251,756	1.2%	270,849	-5.9%
CRUDE OIL CALNDR STRIP	6F	0	0	-	0	-



## NYMEX/COMEX Exchange Open Interest Report - Monthly

Commodity		Open Interest APR 2022	Open Interest APR 2021	% CHG	Open Interest MAR 2022	% CHG
<b>Energy Options</b>						
CRUDE OIL PHY	CD	0	0	-	0	-
CRUDE OIL PHY	LC	136,063	24,998	444.3%	109,647	24.1%
CRUDE OIL PHY	LO	2,377,165	2,089,660	13.8%	2,369,265	0.3%
CRUDE OIL PHY	LO1	5,875	3,811	54.2%	13,018	-54.9%
CRUDE OIL PHY	LO2	624	572	9.1%	2,466	-74.7%
CRUDE OIL PHY	LO3	50	201	-75.1%	0	-
CRUDE OIL PHY	LO4	0	0	-	195	-100.0%
CRUDE OIL PHY	LO5	0	0	0.0%	1	-100.0%
ELEC FINSETTLED	PJN	43	43	0.0%	43	0.0%
ETHANOL SWAP	CVR	7,782	5,407	43.9%	10,528	-26.1%
ETHANOL SWAP	GVR	0	0	-	0	-
FREIGHT MARKETS	FLO	30	0	-	30	0.0%
HEATING OIL CRK SPD AVG PRICE OPTIONS	3W	2,250	3,330	-32.4%	2,250	0.0%
HEATING OIL PHY	FZ	0	0	-	0	-
HEATING OIL PHY	LB	780	432	80.6%	975	-20.0%
HEATING OIL PHY	OH	11,435	11,824	-3.3%	12,144	-5.8%
HENRY HUB FINANCIAL LAST	E7	32,766	39,252	-16.5%	31,481	4.1%
HO 1 MONTH CLNDR OPTIONS	FA	0	0	-	0	0.0%
LLS CRUDE OIL	HTO	1,200	0	-	1,200	0.0%
LLS CRUDE OIL	WTO	1,050	700	50.0%	1,200	-12.5%
MCCLOSKEY ARA ARGS COAL	MTO	180	1,080	-83.3%	180	0.0%
MCCLOSKEY RCH BAY COAL	MFO	0	0	-	0	-
NATURAL GAS	LN1	0	0	-	2	-100.0%
NATURAL GAS	LN2	0	0	-	0	-
NATURAL GAS	LN3	0	0	-	1	-100.0%
NATURAL GAS	LN4	0	0	-	0	-
NATURAL GAS	LN5	0	0	-	0	-
NATURAL GAS 1 M CSO FIN	G4	78,200	28,475	174.6%	27,775	181.5%
NATURAL GAS 2 M CSO FIN	G2	0	5,800	-100.0%	0	-
NATURAL GAS 3 M CSO FIN	G3	67,850	30,526	122.3%	47,800	41.9%
NATURAL GAS 5 M CSO FIN	G5	0	0	-	20,381	-100.0%
NATURAL GAS 6 M CSO FIN	G6	0	0	-	0	-
NATURAL GAS OPT	JFO	0	0	-	0	-
NATURAL GAS OPT	JKO	5,200	5,800	-10.3%	6,675	-22.1%
NATURAL GAS OPT	TFO	1,900	68,010	-97.2%	2,900	-34.5%
NATURAL GAS OPTION ON CALENDAR STRP	6J	7,784	21,928	-64.5%	7,784	0.0%
NATURAL GAS PHY	KD	0	0	0.0%	0	-
NATURAL GAS PHY	LN	3,035,813	2,147,749	41.3%	2,616,460	16.0%
NATURAL GAS PHY	ON	51,828	43,006	20.5%	43,631	18.8%
NATURAL GAS SUMMER STRIP	4D	0	0	-	0	-
NATURAL GAS WINTER STRIP	6I	0	0	-	0	-
N ROCKIES PIPE SWAP	ZR	0	0	-	0	-
NY HARBOR HEAT OIL SWP	AT	6,580	4,806	36.9%	6,838	-3.8%
PETROCHEMICALS	4H	4,407	1,467	200.4%	5,514	-20.1%
PETROCHEMICALS	4J	0	850	-100.0%	200	-100.0%
PETROCHEMICALS	4K	0	0	-	0	-
PETROCHEMICALS	CPR	0	0	-	0	-
PETRO OUTRIGHT EURO	BCO	0	0	-	0	-
PETRO OUTRIGHT NA	1N5	0	0	-	0	-
PETRO OUTRIGHT NA	DAP	1,185	885	33.9%	1,310	-9.5%
PJM WES HUB PEAK CAL MTH	6OA	180	850	-78.8%	180	0.0%
PJM WES HUB PEAK LMP 50MW	PMA	0	302	-100.0%	0	-

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Commodity		Open Interest APR 2022	Open Interest APR 2021	% CHG	Open Interest MAR 2022	% CHG
<b>Energy Options</b>						
RBOB CALENDAR SWAP	RA	219	1,644	-86.7%	174	25.9%
RBOB PHY	OB	1,831	17,169	-89.3%	2,708	-32.4%
RBOB PHY	RF	570	66	763.6%	180	216.7%
SAN JUAN PIPE SWAP	PJ	0	0	-	0	-
SHORT TERM	U11	0	0	-	0	-
SHORT TERM	U12	0	0	-	0	-
SHORT TERM	U13	0	0	-	0	-
SHORT TERM	U14	0	0	-	0	-
SHORT TERM	U15	0	0	-	0	-
SHORT TERM	U22	0	0	-	0	-
SHORT TERM	U23	0	0	-	0	-
SHORT TERM	U24	0	0	-	0	-
SHORT TERM	U25	0	0	-	0	-
SHORT TERM	U26	0	0	-	0	-
SHORT TERM NATURAL GAS	U01	0	0	-	200	-100.0%
SHORT TERM NATURAL GAS	U02	0	0	-	0	-
SHORT TERM NATURAL GAS	U03	0	0	-	0	-
SHORT TERM NATURAL GAS	U04	0	0	-	0	-
SHORT TERM NATURAL GAS	U05	0	0	-	0	-
SHORT TERM NATURAL GAS	U06	0	0	-	0	-
SHORT TERM NATURAL GAS	U07	0	0	-	0	-
SHORT TERM NATURAL GAS	U08	0	0	-	0	-
SHORT TERM NATURAL GAS	U09	0	0	-	0	-
SHORT TERM NATURAL GAS	U10	0	0	-	0	-
SHORT TERM NATURAL GAS	U16	0	0	-	0	-
SHORT TERM NATURAL GAS	U17	0	0	-	0	-
SHORT TERM NATURAL GAS	U18	0	0	-	0	-
SHORT TERM NATURAL GAS	U19	0	0	-	0	-
SHORT TERM NATURAL GAS	U20	0	0	-	0	-
SHORT TERM NATURAL GAS	U21	0	0	-	0	-
SHORT TERM NATURAL GAS	U27	0	0	-	0	-
SHORT TERM NATURAL GAS	U28	0	0	-	0	-
SHORT TERM NATURAL GAS	U29	0	0	-	0	-
SHORT TERM NATURAL GAS	U30	0	0	0.0%	0	-
SHORT TERM NATURAL GAS	U31	0	0	-	0	-
WTI-BRENT BULLET SWAP	BV	163,650	194,870	-16.0%	170,625	-4.1%
WTI CRUDE OIL 1 M CSO FI	7A	62,555	239,300	-73.9%	23,105	170.7%
<b>Metals Futures</b>						
COMEX GOLD	GC	561,272	464,460	20.8%	569,969	-1.5%
NYMEX HOT ROLLED STEEL	HR	26,179	30,080	-13.0%	32,618	-19.7%
NYMEX PLATINUM	PL	68,911	63,377	8.7%	60,843	13.3%
PALLADIUM	PA	7,486	11,671	-35.9%	6,619	13.1%
URANIUM	UX	800	700	14.3%	800	0.0%
COMEX SILVER	SI	135,949	161,569	-15.9%	148,844	-8.7%
COMEX E-Mini GOLD	QO	1,771	2,049	-13.6%	1,522	16.4%
COMEX E-Mini SILVER	QI	441	566	-22.1%	542	-18.6%
COMEX COPPER	HG	185,003	255,020	-27.5%	209,743	-11.8%
COMEX MINY COPPER	QC	424	391	8.4%	420	1.0%
ALUMINUM	A38	0	162	-100.0%	0	-
ALUMINUM	AEP	8,123	9,765	-16.8%	9,005	-9.8%

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Commodity	Open Interest APR 2022	Open Interest APR 2021	% CHG	Open Interest MAR 2022	% CHG
<b>Metals Futures</b>					
ALUMINUM ALA	1,755	1,650	6.4%	1,835	-4.4%
ALUMINUM ALI	299	249	20.1%	388	-22.9%
ALUMINUM AUP	25,028	24,748	1.1%	24,932	0.4%
ALUMINUM CUP	0	0	-	0	-
ALUMINUM EDP	17,277	11,521	50.0%	18,351	-5.9%
ALUMINUM MJP	4,368	2,280	91.6%	4,810	-9.2%
COBALT METAL FUTURES COB	2,047	725	182.3%	1,767	15.8%
COPPER HGS	14,509	20,934	-30.7%	13,720	5.8%
FERROUS PRODUCTS BUS	5,919	5,406	9.5%	7,333	-19.3%
GOLD 4GC	0	0	-	0	-
GOLD SGC	523	105	398.1%	487	7.4%
GOLD SGU	1,216	199	511.1%	920	32.2%
HOT ROLLED COIL STEEL FUTURES EHR	2,007	1,006	99.5%	2,228	-9.9%
IRON ORE 62 CHINA TSI FUTURES TIO	0	0	-	0	-
IRON ORE CHINA TIO	1,695	1,563	8.4%	1,444	17.4%
METALS HDG	175	75	133.3%	47	272.3%
METALS LTH	3	0	-	3	0.0%
METALS PAC	0	0	-	0	-
MICRO GOLD MGC	29,821	31,250	-4.6%	26,205	13.8%
SILVER SIL	7,223	7,341	-1.6%	6,156	17.3%
<b>Metals Options</b>					
ALUMINUM ALO	0	1,200	-100.0%	350	-100.0%
COMEX COPPER HX	57,892	52,346	10.6%	42,275	36.9%
COMEX GOLD OG	826,039	930,705	-11.2%	791,011	4.4%
COMEX SILVER SO	72,442	88,191	-17.9%	86,461	-16.2%
COPPER H1E	45	1	4,400.0%	26	73.1%
COPPER H2E	42	2	2,000.0%	73	-42.5%
COPPER H3E	0	0	-	11	-100.0%
COPPER H4E	0	0	-	2	-100.0%
COPPER H5E	0	0	-	0	-
GOLD OG1	17,496	13,478	29.8%	22,968	-23.8%
GOLD OG2	4,490	4,321	3.9%	11,384	-60.6%
GOLD OG3	1,937	448	332.4%	7,305	-73.5%
GOLD OG4	0	0	-	424	-100.0%
GOLD OG5	0	0	0.0%	0	-
HOT ROLLED COIL STEEL CALL OPTION HRO	0	0	-	0	-
HOT ROLLED COIL STEEL PUT OPTION HRO	0	0	-	0	-
IRON ORE 62 CHINA TSI CALL OPTION ICT	0	0	-	0	-
IRON ORE 62 CHINA TSI PUT OPTION ICT	0	0	-	0	-
IRON ORE CHINA ICT	0	1,210	-100.0%	50	-100.0%
NYMEX HOT ROLLED STEEL HRO	3,880	1,425	172.3%	4,180	-7.2%
NYMEX PLATINUM PO	13,021	11,776	10.6%	9,267	40.5%
PALLADIUM PAO	37	1,641	-97.7%	35	5.7%
SILVER SO1	766	1,058	-27.6%	2,022	-62.1%
SILVER SO2	1,092	401	172.3%	1,074	1.7%
SILVER SO3	334	33	912.1%	454	-26.4%
SILVER SO4	0	0	-	51	-100.0%
SILVER SO5	0	0	0.0%	0	-



## NYMEX/COMEX Exchange Open Interest Report - Monthly

Commodity	Open Interest APR 2022	Open Interest APR 2021	% CHG	Open Interest MAR 2022	% CHG
<b>TOTAL FUTURES GROUP</b>					
Ag Products Futures	0	0	-	0	-
Energy Futures	6,673,029	7,892,648	-15.5%	6,681,995	-0.1%
Metals Futures	1,110,224	1,108,862	0.1%	1,151,551	-3.6%
<b>TOTAL FUTURES</b>	<b>7,783,253</b>	<b>9,001,510</b>	<b>-13.5%</b>	<b>7,833,546</b>	<b>-0.6%</b>
<b>TOTAL OPTIONS GROUP</b>					
Energy Options	6,636,610	5,913,964	12.2%	6,168,522	7.6%
Metals Options	999,513	1,108,236	-9.8%	979,423	2.1%
<b>TOTAL OPTIONS</b>	<b>7,636,123</b>	<b>7,022,200</b>	<b>8.7%</b>	<b>7,147,945</b>	<b>6.8%</b>
<b>TOTAL COMBINED</b>					
Ag Products	0	0	-	0	-
Energy	13,309,639	13,806,612	-3.6%	12,850,517	3.6%
Metals	2,109,737	2,217,098	-4.8%	2,130,974	-1.0%
<b>GRAND TOTAL</b>	<b>15,419,376</b>	<b>16,023,710</b>	<b>-3.8%</b>	<b>14,981,491</b>	<b>2.9%</b>

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