

## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry MAY 2017	Open Outcry MAY 2016	% CHG	ELEC MAY 2017	ELEC MAY 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG
<b>Interest Rate Futures</b>												
30-YR BOND	18,710	14,695	27.3%	7,523,064	6,205,270	0.21	101,391	100,071	1.3%	29,849,248	28,909,210	3.3%
10-YR NOTE	142,679	139,020	2.6%	38,646,380	31,825,322	0.21	706,103	664,491	6.3%	157,428,275	143,955,991	9.4%
5-YR NOTE	21,128	40,275	-47.5%	25,474,675	21,356,853	0.19	133,187	132,436	0.6%	95,151,672	80,723,941	17.9%
2-YR NOTE	858	2,258	-62.0%	11,162,825	8,560,810	0.3	7,253	4,666	55.4%	36,781,430	32,388,176	13.6%
FED FUND	0	0	0.0%	5,348,340	2,876,165	0.86	0	0	0.0%	24,567,824	12,372,748	98.6%
EURODOLLARS	653,791	445,579	46.7%	51,750,830	45,126,807	0.15	3,480,381	3,025,457	15.0%	289,807,720	254,644,225	13.8%
5-YR SWAP RATE	0	0	0.0%	29,790	46,481	-0.36	0	0	0.0%	241,779	281,697	-14.2%
2-YR SWAP RATE	0	0	0.0%	0	15	-1	0	0	0.0%	0	4,396	-100.0%
10-YR SWAP RATE	0	0	0.0%	34,042	33,060	0.03	0	0	0.0%	208,832	208,893	0.0%
7-YR SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	3,052	-100.0%
1-MONTH EURODOLLAR	0	0	0.0%	10,247	3,620	1.83	0	0	0.0%	23,640	6,280	276.4%
ULTRA T-BOND	0	1	-100.0%	3,740,453	2,889,078	0.29	0	1	-100.0%	12,772,234	11,282,330	13.2%
Ultra 10-Year Note	0	0	0.0%	2,664,358	1,423,623	0.87	8	0	0.0%	10,225,658	4,320,139	136.7%
30-YR SWAP RATE	0	0	0.0%	592	1,364	-0.57	0	0	0.0%	6,556	8,647	-24.2%
2YR BUNDLE	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
3YR BUNDLE	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
EURO 5YR BUNDLE	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
<b>Interest Rate Options</b>												
30-YR BOND	168,850	192,444	-12.3%	1,946,639	1,062,771	0.83	1,157,601	1,338,401	-13.5%	8,761,943	6,925,533	26.5%
10-YR NOTE	2,071,438	2,207,787	-6.2%	7,702,941	4,746,649	0.62	11,598,832	11,408,863	1.7%	40,133,018	24,372,638	64.7%
5-YR NOTE	644,732	632,067	2.0%	1,837,974	1,135,412	0.62	3,214,517	3,360,235	-4.3%	10,409,205	6,451,636	61.3%
2-YR NOTE	17,714	49,657	-64.3%	66,010	143,752	-0.54	134,208	224,517	-40.2%	321,197	458,268	-29.9%
FED FUND	600	5,400	-88.9%	301	3,094	-0.9	7,998	37,030	-78.4%	1,407	4,660	-69.8%
EURODOLLARS	8,769,008	9,562,926	-8.3%	5,215,888	2,615,411	0.99	50,243,957	54,474,975	-7.8%	22,164,906	14,646,214	51.3%
EURO MIDCURVE	7,869,882	5,975,057	31.7%	4,951,936	2,402,012	1.06	49,921,437	37,837,742	31.9%	25,742,825	16,419,518	56.8%
ULTRA T-BOND	139	1,556	-91.1%	766	3,694	-0.79	1,142	6,447	-82.3%	8,735	17,593	-50.3%
Ultra 10-Year Note	0	775	-100.0%	0	348	-1	952	1,175	-19.0%	6,499	511	1,171.8%

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<b>Equity Index Futures</b>												
DJIA	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
MINI \$5 DOW	0	0	0.0%	2,550,442	3,081,883	-0.17	0	0	0.0%	13,988,533	18,965,454	-26.2%
E-MINI S&P500	0	0	0.0%	28,033,904	32,952,730	-0.15	0	0	0.0%	153,766,816	202,374,589	-24.0%
S&P 500	28,289	50,859	-44.4%	4,046	6,497	-0.38	329,197	507,105	-35.1%	24,410	61,077	-60.0%
S&P 600 SMALLCAP EMINI	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
E-MINI MIDCAP	0	0	0.0%	303,940	338,590	-0.1	0	0	0.0%	1,790,956	2,179,281	-17.8%
S&P 400 MIDCAP	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
S&P 500 GROWTH	0	0	0.0%	4	10	-0.6	0	0	0.0%	59	106	-44.3%
S&P 500/VALUE	0	0	0.0%	8,057	5,269	0.53	0	0	0.0%	28,698	20,935	37.1%
E-MINI RUSSELL 1000	0	0	0.0%	999	293	2.41	0	0	0.0%	5,236	3,245	61.4%
E-MINI NASDAQ 100	0	0	0.0%	5,075,595	4,720,935	0.08	0	0	0.0%	22,067,658	30,278,754	-27.1%
NASDAQ	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
NIKKEI 225 (\$) STOCK	0	0	0.0%	225,304	272,051	-0.17	0	0	0.0%	1,368,567	2,106,502	-35.0%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	859,605	948,256	-0.09	0	0	0.0%	4,647,578	6,995,081	-33.6%
DJ US REAL ESTATE	0	0	0.0%	13,387	7,739	0.73	0	0	0.0%	68,400	49,782	37.4%
NASDAQ BIOTECH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
E-MICRO NIFTY	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
S&P CONSUMER STAPLES SE	0	0	0.0%	2,484	4,164	-0.4	0	0	0.0%	31,465	33,122	-5.0%
S&P HEALTH CARE SECTOR	0	0	0.0%	4,074	4,651	-0.12	0	0	0.0%	42,900	36,389	17.9%
S&P TECHNOLOGY SECTOR	0	0	0.0%	3,521	4,202	-0.16	0	0	0.0%	23,104	17,668	30.8%
S&P INDUSTRIAL SECTOR	0	0	0.0%	2,660	1,908	0.39	0	0	0.0%	17,532	11,759	49.1%
S&P CONSUMER DSCRTNRY S	0	0	0.0%	3,602	3,496	0.03	0	0	0.0%	21,847	23,520	-7.1%
S&P UTILITIES SECTOR	0	0	0.0%	5,299	8,639	-0.39	0	0	0.0%	60,717	56,115	8.2%
S&P FINANCIAL SECTOR	0	0	0.0%	11,800	4,499	1.62	0	0	0.0%	65,380	33,651	94.3%
S&P ENERGY SECTOR	0	0	0.0%	7,583	5,448	0.39	0	0	0.0%	52,720	38,254	37.8%
S&P MATERIALS SECTOR	0	0	0.0%	4,636	3,603	0.29	0	0	0.0%	25,303	17,777	42.3%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	930	98	8.49	0	0	0.0%	3,646	1,998	82.5%
FT-SE 100	0	0	0.0%	1,705	986	0.73	0	0	0.0%	7,992	8,085	-1.2%
IBOVESPA INDEX	0	0	0.0%	665	938	-0.29	0	0	0.0%	3,487	3,256	7.1%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	1,780	98	17.16	0	0	0.0%	9,153	3,044	200.7%
NIFTY 50	0	0	0.0%	15,535	8,429	0.84	0	0	0.0%	43,646	40,311	8.3%
E-MINI S&P REAL ESTATE SEL	0	-	-	1,456	-		0	-	-	10,407	-	-

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<b>Equity Index Options</b>												
DJIA	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
MINI \$5 DOW	0	0	0.0%	3,565	12,676	-0.72	0	0	0.0%	24,940	76,895	-67.6%
E-MINI S&P500	1,935	20,890	-90.7%	4,595,594	5,237,998	-0.12	1,935	110,315	-98.2%	20,444,091	32,819,227	-37.7%
S&P 500	362,717	604,598	-40.0%	0	0	0	1,515,159	3,976,459	-61.9%	0	0	0.0%
E-MINI MIDCAP	0	0	0.0%	0	4	-1	0	0	0.0%	0	9	-100.0%
E-MINI NASDAQ 100	0	0	0.0%	208,528	221,648	-0.06	0	0	0.0%	884,205	1,214,591	-27.2%
NASDAQ	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
EOM S&P 500	111,153	131,636	-15.6%	0	0	0	849,489	760,274	11.7%	0	0	0.0%
EOM EMINI S&P	0	0	0.0%	1,629,279	1,316,704	0.24	0	0	0.0%	10,030,089	6,773,377	48.1%
EOW1 S&P 500	91,992	67,506	36.3%	0	0	0	399,162	253,813	57.3%	0	0	0.0%
EOW1 EMINI S&P 500	0	0	0.0%	1,112,547	905,918	0.23	0	0	0.0%	5,917,086	4,358,272	35.8%
EOW2 S&P 500	170,810	148,687	14.9%	0	0	0	782,634	544,061	43.9%	0	0	0.0%
EOW2 EMINI S&P 500	0	0	0.0%	1,146,388	978,756	0.17	0	0	0.0%	5,730,398	4,853,488	18.1%
EOW4 EMINI S&P 500	0	0	0.0%	1,094,760	906,855	0.21	0	0	0.0%	4,609,553	4,783,634	-3.6%
EOW3 S&P 500	282,669	124,932	126.3%	0	0	0	1,794,063	242,969	638.4%	0	0	0.0%
EOW3 EMINI S&P 500	0	0	0.0%	3,248,834	1,202,601	1.7	0	0	0.0%	18,915,679	1,620,298	1,067.4%

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<b>Metals Futures</b>												
COMEX GOLD	0	11,915	-100.0%	6,124,763	5,588,614	0.1	0	59,389	-100.0%	26,508,675	22,758,266	16.5%
COMEX MINY COPPER	0	0	0.0%	499	392	0.27	0	0	0.0%	4,113	3,222	27.7%
COMEX SILVER	0	1,355	-100.0%	1,854,612	1,154,245	0.61	0	6,705	-100.0%	8,526,442	6,806,677	25.3%
COMEX COPPER	0	0	0.0%	1,853,135	1,506,795	0.23	0	454	-100.0%	9,861,305	8,119,031	21.5%
NYMEX HOT ROLLED STEEL	0	0	0.0%	198	520	-0.62	0	0	0.0%	926	2,534	-63.5%
NYMEX PLATINUM	0	0	0.0%	339,987	240,158	0.42	0	38	-100.0%	1,726,742	1,397,192	23.6%
URANIUM	0	0	0.0%	15	254	-0.94	0	0	0.0%	427	993	-57.0%
PALLADIUM	0	0	0.0%	181,870	134,368	0.35	0	63	-100.0%	609,204	540,588	12.7%
E-MICRO GOLD	0	0	0.0%	92,165	103,808	-0.11	0	0	0.0%	437,386	454,193	-3.7%
GOLD	0	-	-	0	-		0	-	-	0	-	-
ALUMINUM	0	0	0.0%	288	673	-0.57	0	0	0.0%	3,774	5,899	-36.0%
COPPER	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SILVER	0	0	0.0%	5,780	6,961	-0.17	0	0	0.0%	25,470	37,561	-32.2%
Gold Kilo	0	0	0.0%	290	3,712	-0.92	0	0	0.0%	1,921	28,028	-93.1%
COMEX E-Mini SILVER	0	0	0.0%	1,092	1,229	-0.11	0	0	0.0%	4,498	4,808	-6.4%
COMEX E-Mini GOLD	0	0	0.0%	7,638	11,527	-0.34	0	0	0.0%	46,015	52,888	-13.0%
Aluminium MW Trans Prem Platts	0	0	0.0%	151	577	-0.74	0	0	0.0%	1,090	2,412	-54.8%
LNDN ZINC	0	0	0.0%	15	36	-0.58	0	0	0.0%	50	115	-56.5%
METALS	0	-	-	0	-		0	-	-	0	-	-
FERROUS PRODUCTS	0	0	0.0%	0	0	0	0	0	0.0%	35	0	0.0%
IRON ORE 62 CHINA PLATTS F	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
IRON ORE 62 CHINA TSI FUTU	0	0	0.0%	186	94	0.98	0	0	0.0%	1,715	3,199	-46.4%
IRON ORE 58 CHINA TSI FUTU	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%

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<b>Metals Options</b>												
COMEX GOLD	0	69,069	-100.0%	592,385	622,635	-0.05	0	399,691	-100.0%	3,042,568	3,173,374	-4.1%
COMEX SILVER	0	6,822	-100.0%	134,750	82,854	0.63	0	42,193	-100.0%	502,534	472,010	6.5%
COMEX COPPER	0	23	-100.0%	4,340	2,732	0.59	0	973	-100.0%	17,593	9,311	88.9%
NYMEX PLATINUM	0	412	-100.0%	1,480	703	1.11	0	1,978	-100.0%	3,994	2,960	34.9%
PALLADIUM	0	0	0.0%	1,281	292	3.39	0	272	-100.0%	4,699	805	483.7%
GOLD	0	0	0.0%	14,760	3,854	2.83	0	556	-100.0%	53,019	17,303	206.4%
COPPER	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
SILVER	0	0	0.0%	674	0	0	0	0	0.0%	1,260	33	3,718.2%
IRON ORE 62 CHINA TSI CALL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
IRON ORE 62 CHINA TSI PUT O	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
<b>Energy Futures</b>												
ETHANOL	0	0	0.0%	17,824	13,477	0.32	0	0	0.0%	86,742	67,391	28.7%
ETHANOL FWD	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
HOUSTON SHIP CHANNEL BAS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NORTHWEST ROCKIES BASIS	0	0	0.0%	0	0	0	0	0	0.0%	0	60	-100.0%
HEATING OIL VS ICE GASOIL	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
FUEL OIL CRACK VS ICE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
FUEL OIL NWE CRACK VS ICE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NGPL MIDCONTINENT INDEX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NGPL TEXOK INDEX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CENTERPOINT BASIS SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NATURAL GAS	0	0	0.0%	52,920	10,681	3.95	0	800	-100.0%	169,330	45,221	274.4%
HTG OIL	0	0	0.0%	36	0	0	0	0	0.0%	36	0	0.0%
LTD NAT GAS	0	0	0.0%	125,949	62,313	1.02	0	0	0.0%	542,469	360,194	50.6%
GASOIL MINI CALENDAR SWA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL 0.1 ROTTERDAM BAR	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
N ROCKIES PIPE SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
HUSTN SHIP CHNL PIPE SWP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SAN JUAN PIPE SWAP	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
SOCAL PIPE SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%

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<b>Energy Futures</b>												
PANHANDLE PIPE SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
BRENT OIL LAST DAY	0	0	0.0%	2,364,058	1,761,018	0.34	0	0	0.0%	10,067,943	10,768,550	-6.5%
BRENT CALENDAR SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL 0.1 CARGOES CIF NE	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
GASOIL 0.1 RDAM BRGS VS I	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL 0.1 CIF NWE VS ISE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NY H OIL PLATTS VS NYMEX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MARS (ARGUS) VS WTI SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MARS (ARGUS) VS WTI TRD M	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
WTS (ARGUS) VS WTI TRD MT	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE 180CST BALMO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE 380CST BALMO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE JET KERO BALMO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE NAPHTHA BALMO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
DUBAI CRUDE OIL BALMO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EURO 3.5% FUEL OIL RDAM B	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EURO 1% FUEL OIL NEW BALM	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NY HARBOR 1% FUEL OIL BAL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GULF COAST 3% FUEL OIL BA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PREMIUM UNLD 10P FOB MED	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL 10P CRG CIF NW VS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL 0.1 CRG CIF NW VS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
BRENT CFD SWAP	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
JET FUEL CRG CIF NEW VS I	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
3.5% FUEL OIL CID MED SWA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ARGUS PROPAN FAR EST IND	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ULSD 10PPM CIF VS ICE GAS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL 0.1 CIF VS ICE GAS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
JET FUEL BRG FOB RDM VS I	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM NILL DA OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM AECO DA OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM DAYTON DA PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM BGE DA PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM BGE DA OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry MAY 2017	Open Outcry MAY 2016	% CHG	ELEC MAY 2017	ELEC MAY 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG
<b>Energy Futures</b>												
PJM JCPL DA PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM JCPL DA OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM PEPCO DA OFF-PEAK	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
PJM PPL DA PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM PPL DA OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM PSEG DA PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM PSEG DA OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM WESTHDA PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM WESTH DA OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM WESTH RT PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM WESTH RT OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ALGONQUIN CITYGATES BASI	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TCO NG INDEX SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TRANSCO ZONE 3 NG INDEX S	0	-	-	0	-		0	-	-	0	-	-
MICHCON NG INDEX SWAP	0	-	-	0	-		0	-	-	0	-	-
CIG ROCKIES NG INDEX SWA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL 0.1 CIF MED SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL 0.1CIF MED VS ICE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ULSD 10PPM CIF MED SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ULSD 10PPM CIF MED VS ICE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
BRENT BALMO SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ULSD 10PPM CIF MED BALMO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PERMIAN BASIS SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
Tetco ELA Basis	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
PANHANDLE INDEX SWAP FUT	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GULF COAST JET FUEL CLNDR	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EUROPE 1% FUEL OIL NWE CA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE FUEL 180CST CAL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO G	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GULF COAST NO.6 FUEL OIL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NEW YORK HUB ZONE G PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NORTHERN ILLINOIS OFF-PEA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
AEP-DAYTON HUB DAILY	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE FUEL OIL SPREA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry MAY 2017	Open Outcry MAY 2016	% CHG	ELEC MAY 2017	ELEC MAY 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG
<b>Energy Futures</b>												
SINGAPORE JET KERO GASOI	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TETCO M-3 INDEX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
DOMINION TRAN INC - APP I	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CINERGY HUB PEAK MONTH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
HEATING OIL PHY	0	61	-100.0%	3,604,751	3,150,682	0.14	0	628	-100.0%	15,849,131	14,724,768	7.6%
GASOIL 10PPM CARGOES CIF	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL 10PPM VS ICE SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NY1% VS GC SPREAD SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EUROPEAN NAPHTHA BALMO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL 0.1 BRGS FOB VS IC	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
DIESEL 10P BRG FOB RDM VS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ARGUS PROPAN(SAUDI ARAM	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM AECO DA PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
N ILLINOIS HUB MTHLY	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MINY HTG OIL	0	0	0.0%	2	7	-0.71	0	0	0.0%	13	40	-67.5%
WAHA BASIS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MINY NATURAL GAS	0	0	0.0%	22,023	22,730	-0.03	0	0	0.0%	147,261	123,863	18.9%
SINGAPORE GASOIL SWAP	0	0	0.0%	17	0	0	0	0	0.0%	30	0	0.0%
UP DOWN GC ULSD VS NMX H	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM NILL DA PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM DAYTON DA OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
LA JET (OPIS) SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ULSD UP-DOWN BALMO SWP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
JET FUEL UP-DOWN BALMO C	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EIA FLAT TAX ONHWAY DIESE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ARGUS LLS VS. WTI (ARG) T	0	0	0.0%	60	0	0	0	0	0.0%	60	0	0.0%
JAPAN NAPHTHA BALMO SWA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NY 3.0% FUEL OIL (PLATTS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NY 2.2% FUEL OIL (PLATTS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CAISO SP15 EZGNHUB5 MW P	0	-	-	0	-		0	-	-	0	-	-
RBOB GASOLINE BALMO CLNC	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOLINE UP-DOWN BALMO S	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TRANSCO ZONE 4 NAT GAS IN	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
COLUMBIA GULF MAIN NAT G	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry MAY 2017	Open Outcry MAY 2016	% CHG	ELEC MAY 2017	ELEC MAY 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG
<b>Energy Futures</b>												
SOUTHERN NAT LA NAT GAS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
FL GAS ZONE 3 NAT GAS IND	0	-	-	0	-		0	-	-	0	-	-
COLUMB GULF MAINLINE NG B	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TENNESSEE 800 LEG NG BASI	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TRANSCO ZONE 1 NG BASIS	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
ONEOK OKLAHOMA NG BASIS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SOUTH STAR TEX OKLHM KNS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TEXAS GAS ZONE1 NG BASIS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO ZONE C 5MW D AH O P	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM NI HUB 5MW REAL TIME	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO ZONE G 5MW D AH O P	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO ZONE J 5MW D AH PK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO ZONE J 5MW D AH O P	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM COMED 5MW D AH PK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM COMED 5MW D AH O PK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NEPOOL INTR HUB 5MW D AH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CIN HUB 5MW REAL TIME PK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CIN HUB 5MW D AH PK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO ZONE A 5MW D AH PK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO ZONE A 5MW D AH O P	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NEPOOL W CNT MASS 5MW D	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NEPOOL CONECTIC 5MW D AH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NEPOOL CNCTCT 5MW D AH O	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NEPOOL SE MASS 5MW D AH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NEPOOL SE MASS 5MW D AH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NEPOOL NE MASS 5MW D AH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NEPOOL NE MASS 5MW D AH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO ZONE C 5MW D AH PK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NEPOOL W CNTR M 5MW D AH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO ZONE G 5MW D AH PK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM AD HUB 5MW REAL TIME	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CIN HUB 5MW D AH O PK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CIN HUB 5MW REAL TIME O P	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
RBOB PHY	0	51	-100.0%	4,029,069	3,594,816	0.12	0	324	-100.0%	19,178,385	17,123,392	12.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry MAY 2017	Open Outcry MAY 2016	% CHG	ELEC MAY 2017	ELEC MAY 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG
<b>Energy Futures</b>												
SING FUEL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
LLS (ARGUS) CALENDAR SWA	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
RBOB VS HEATING OIL SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NORTHEN NATURAL GAS DEM	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
HOUSTON SHIP CHANNEL IND	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EUROPE JET KERO NWE CALS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MINY WTI CRUDE OIL	0	0	0.0%	337,645	313,784	0.08	0	0	0.0%	1,252,992	1,572,379	-20.3%
NEW ENGLAND HUB PEAK DAI	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ROCKIES KERN OPAL - NW IN	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NATURAL GAS PHY	0	345	-100.0%	9,064,621	6,886,881	0.32	0	1,430	-100.0%	42,380,286	35,489,071	19.4%
APPALACHIAN COAL (PHY)	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
WTI CALENDAR	0	471	-100.0%	0	0	0	0	1,043	-100.0%	0	0	0.0%
HENRY HUB BASIS SWAP	0	0	0.0%	0	0	0	0	0	0.0%	2,996	0	0.0%
DEMARC INDEX FUTURE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
WTS (ARGUS) VS WTI SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PREMIUM UNLEAD 10PPM FOB	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CHICAGO UNL GAS PL VS RBO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CRUDE OIL PHY	0	1,798	-100.0%	26,861,596	20,914,705	0.28	0	14,435	-100.0%	115,265,999	111,822,133	3.1%
RBOB CALENDAR SWAP	0	0	0.0%	5	0	0	0	0	0.0%	5	0	0.0%
ISO NEW ENGLAND PK LMP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
LA CARB DIESEL (OPIS)	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CHICAGO ETHANOL SWAP	0	0	0.0%	165	1,181	-0.86	0	0	0.0%	1,247	5,328	-76.6%
NEW YORK ETHANOL SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL BULLET SWAP	0	-	-	0	-		0	-	-	0	-	-
EURO PROPANE CIF ARA SW	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
JAPAN C&F NAPHTHA SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYMEX ULSD VS NYMEX HO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
LA CARBOB GASOLINE(OPIS)	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
LA CARB DIESEL (OPIS) SWA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
JAPAN C&F NAPHTHA CRACK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
LLS (ARGUS) VS WTI SWAP	0	0	0.0%	15	0	0	0	0	0.0%	15	0	0.0%
MINY RBOB GAS	0	0	0.0%	4	3	0.33	0	0	0.0%	24	20	20.0%
RBOB GAS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
RBOB CRACK SPREAD	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry MAY 2017	Open Outcry MAY 2016	% CHG	ELEC MAY 2017	ELEC MAY 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG
<b>Energy Futures</b>												
RBOB UP-DOWN CALENDAR S	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NY HARBOR RESIDUAL FUEL 1	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NY HARBOR HEAT OIL SWP	0	0	0.0%	0	0	0	0	24	-100.0%	3	3	0.0%
LA JET FUEL VS NYM NO 2 H	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ANR OKLAHOMA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MICHIGAN BASIS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
Sumas Basis Swap	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NGPL MID-CONTINENT	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TEXAS EASTERN ZONE M-3 BA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM MONTHLY	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NORTHEN NATURAL GAS VEN	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
DOMINION TRANSMISSION INC	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TCO BASIS SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CIG BASIS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM DAILY	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
COLUMBIA GULF ONSHORE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
Tetco STX Basis	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
Transco Zone 3 Basis	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
HENRY HUB SWING FUTURE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EL PASO PERMIAN INDEX SWA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
HENRY HUB INDEX SWAP FUT	0	0	0.0%	0	0	0	0	0	0.0%	2,996	0	0.0%
WAHA INDEX SWAP FUTURE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GULF COAST GASOLINE CLND	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EUROPE NAPHTHA CALSWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EUROPE 1% FUEL OIL RDAM C	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EUROPE 3.5% FUEL OIL RDAM	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EUROPE 3.5% FUEL OIL MED	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PANHANDLE BASIS SWAP FUT	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SAN JUAN BASIS SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SOCAL BASIS SWAP	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
TRANSCO ZONE 6 BASIS SWA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO A	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO J	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GULF COAST JET VS NYM 2 H	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>Energy Futures</b>												
NY HARBOR RESIDUAL FUEL	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
EURO 3.5% FUEL OIL SPREAD	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL CALENDAR SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EURO GASOIL 10 CAL SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NGPL MIDCONTINENT SWING	0	-	-	0	-		0	-	-	0	-	-
DEMARCO SWING SWAP	0	-	-	0	-		0	-	-	0	-	-
CENTERPOINT EAST INDEX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CRUDE OIL	0	0	0.0%	4	0	0	0	0	0.0%	204	0	0.0%
BRENT FINANCIAL FUTURES	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
WTI-BRENT BULLET SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
WTI-BRENT CALENDAR SWAP	0	0	0.0%	0	0	0	0	0	0.0%	120	0	0.0%
DATED TO FRONTLINE BRENT	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ICE BRENT DUBAI SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL CRACK SPREAD CALE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EUROPEAN NAPHTHA CRACK S	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EURO GASOIL 10PPM VS ICE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
JET CIF NWE VS ICE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
JET BARGES VS ICE GASOIL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE GASOIL VS ICE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NATURAL GAS PEN SWP	0	0	0.0%	0	0	0	0	92	-100.0%	51	0	0.0%
WESTERN RAIL DELIVERY PR	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EASTERN RAIL DELIVERY CSX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EUROPE DATED BRENT SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TC5 RAS TANURA TO YOKOHA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TC2 ROTTERDAM TO USAC 37	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
PJM OFF-PEAK LMP SWAP FU	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO A OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO G OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO J OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ISO NEW ENGLAND OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
AEP-DAYTON HUB OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
N ILLINOIS HUB DAILY	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
AEP-DAYTON HUB MTHLY	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
FUELOIL SWAP:CARGOES VS.	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry MAY 2017	Open Outcry MAY 2016	% CHG	ELEC MAY 2017	ELEC MAY 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG
<b>Energy Futures</b>												
EAST/WEST FUEL OIL SPREAD	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE 380CST FUEL OIL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE JET KEROSENE S	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE NAPHTHA SWAP	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
SONAT BASIS SWAP FUTURE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
FLORIDA GAS ZONE3 BASIS S	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TRANSCO ZONE4 BASIS SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ANR LOUISIANA BASIS SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TENNESSEE 500 LEG BASIS S	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TENNESSEE ZONE 0 BASIS S	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TRANSCO ZONE 6 INDEX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CINERGY HUB OFF-PEAK MON	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GULF COAST ULSD CALEND	0	0	0.0%	0	0	0	0	0	0.0%	0	3	-100.0%
GULF COAST ULSD CRACK SP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
HENRY HUB SWAP	0	736	-100.0%	8,473	152,325	-0.94	0	1,472	-100.0%	52,677	1,012,944	-94.8%
DUBAI CRUDE OIL CALENDAR	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
USGC UNL 87 CRACK SPREAD	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYH NO 2 CRACK SPREAD CA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NO 2 UP-DOWN SPREAD CALE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE MOGAS 92 UNLEA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ETHANOL T2 FOB ROTT INCL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE MOGAS 92 UNLEA	0	0	0.0%	4	0	0	0	0	0.0%	5	0	0.0%
PROPANE NON-LDH MT. BEL (	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PROPANE NON-LDH MB (OPIS)	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NY JET FUEL (PLATTS) HEAT C	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
JET AV FUEL (P) CAR FM ICE G	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
FUEL OIL (PLATS) CAR CM	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
FUEL OIL (PLATS) CAR CN	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NY ULSD (ARGUS) VS HEATIN	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM PECO ZONE5MW PEAK C	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
IN DELIVERY MONTH EUA	0	0	0.0%	0	175	-1	0	0	0.0%	0	225	-100.0%
DATED BRENT (PLATTS) DAILY	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PETRO OUTRIGHT EURO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GAS EURO-BOB OXY NWE BA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry MAY 2017	Open Outcry MAY 2016	% CHG	ELEC MAY 2017	ELEC MAY 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG
<b>Energy Futures</b>												
GAS EURO-BOB OXY NWE BA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PREM UNL GAS 10PPM RDAM	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PREM UNL GAS 10PPM RDAM	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MONT BELVIEU NORMAL BUTA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MONT BELVIEU ETHANE 5 DEC	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MONT BELVIEU LDH PROPANE	0	0	0.0%	30	4	6.5	0	0	0.0%	130	40	225.0%
EUROPEAN GASOIL (ICE)	0	0	0.0%	4,195	97,722	-0.96	0	0	0.0%	15,294	1,288,382	-98.8%
ERCOT NORTH ZMCPE 5MW O	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ERCOT NORTH ZMCPE 5MW O	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ERCOT NORTH ZMCPE 5MW P	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ERCOT HOUSTON Z MCPE 5M	0	-	-	0	-		0	-	-	0	-	-
SINGAPORE JET KERO VS. GA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MONT BELVIEU NORMAL BUTA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MONT BELVIEU ETHANE OPIS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MONT BELVIEU NATURAL GAS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MONT BELVIEU LDH PROPANE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CONWAY NORMAL BUTANE (O	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CONWAY NATURAL GASOLINE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CONWAY PROPANE 5 DECIMA	0	0	0.0%	20	0	0	0	0	0.0%	39	0	0.0%
PETROCHEMICALS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MONT BELVIEU NATURAL GAS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ELEC NYISO OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ELEC MISO PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MARS BLEND CRUDE OIL	0	0	0.0%	200	0	0	0	0	0.0%	200	0	0.0%
NYMEX ALUMINUM FUTURES	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL 0.1 CIF MED BALMO	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
RBOB CRACK SPREAD BALMO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
RBOB (PLATTS) CAL SWAP	0	-	-	0	-		0	-	-	0	-	-
PJM DUQUESNE 5MW D AH PK	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
PJM DUQUS 5MW D AH O PK	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
PETRO CRK&SPRD EURO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GRP THREE ULSD(PLT)VS HEA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
HEATING OIL CRCK SPRD BAL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CHICAGO ULSD PL VS HO SPR	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry MAY 2017	Open Outcry MAY 2016	% CHG	ELEC MAY 2017	ELEC MAY 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG
<b>Energy Futures</b>												
GRP THREE UNL GS (PLT) VS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CRUDE OIL OUTRIGHTS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM WES HUB PEAK LMP 50 M	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
FREIGHT MARKETS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NEPOOL NEW HAMP 5MW D A	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ELEC ERCOT OFF PEAK	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
ELECTRICITY OFF PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
HEATING OIL BALMO CLNDR S	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CRUDE OIL SPRDS	0	0	0.0%	50	0	0	0	0	0.0%	50	0	0.0%
PJM APS ZONE DA PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ELEC FINSETTLED	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM APS ZONE DA OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NAT GAS BASIS SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PLASTICS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PETRO OUTRIGHT NA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MNC FUT	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MCCLOSKEY ARA ARGS COAL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MCCLOSKEY RCH BAY COAL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TRANSCO ZONE 6 PIPE SWAP	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
ELEC ERCOT DLY PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GC ULSD VS GC JET SPREAD	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
PETRO CRCKS & SPRDS NA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ALGON CITY GATES NAT GAS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE GASOIL CALEND A	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MJC FUT	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NGPL TEX/OK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
RBOB SPREAD (PLATTS) SWA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NEPOOL RHD ISLD 5MW D AH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE GASOIL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NEPOOL RHODE IL 5MW D AH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TENN 800 LEG NAT GAS INDE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ONTARIO POWER SWAPS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PETROLEUM PRODUCTS ASIA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
INDONESIAN COAL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%

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<b>Energy Futures</b>												
DAILY PJM	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
INDIANA MISO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PETRO CRCKS & SPRDS ASIA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
AUSTRIALIAN COKE COAL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
COAL SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO CAPACITY	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
VENTURA NAT GAS PLATTS FI	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
EMMISSIONS	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
DIESEL10PPM BARG VS ICE LS	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
NATURAL GAS FIXED PRICE S	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SUMAS NAT GAS PLATTS FIXE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EURO-DENOMINATED PETRO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PETROLEUM PRODUCTS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
3.5% FUEL OIL CIF BALMO S	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CANADIAN LIGHT SWEET OIL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MICHIGAN MISO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
DLY GAS EURO-BOB OXY	0	-	-	0	-		0	-	-	0	-	-
MINI RBOB V. EBOBARG NWE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MINI RBOB V. EBOB(ARGUS) N	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CRUDE OIL TRADE AT MARKE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MGF FUT	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NATURAL GAS INDEX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MJB FUT	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
NEW YORK HUB ZONE J PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM ATSI ELEC	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EU LOW SULPHUR GASOIL CR	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
CENTER POINT NAT GAS FIXE	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
ELEC ERCOT DLY OFF PK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CHICAGO ULSD (PLATTS) SWA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NY HARBOR LOW SULPUR GA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MINI GAS EUROBOB OXY NWE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
COLUMBIA GULF NAT GAS FIX	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
MGN1 SWAP FUT	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GROUP THREE ULSD (PLATTS)	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry MAY 2017	Open Outcry MAY 2016	% CHG	ELEC MAY 2017	ELEC MAY 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG
<b>Energy Futures</b>												
UCM FUT	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
DY EURO 3.5% FUEL OI RDA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ELEC WEST POWER OFF-PEA	0	-	-	0	-		0	-	-	0	-	-
ELEC WEST POWER PEAK	0	-	-	0	-		0	-	-	0	-	-
CAISO SP15 EZGNHUB5 PEAK	0	-	-	0	-		0	-	-	0	-	-
<b>Energy Options</b>												
ETHANOL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NATURAL GAS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PGE CITYGATE PIPE SWAP	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
N ROCKIES PIPE SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
HUSTN SHIP CHNL PIPE SWP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SAN JUAN PIPE SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SOCAL PIPE SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PANHANDLE PIPE SWAP	0	-	-	0	-		0	-	-	0	-	-
BRENT OIL LAST DAY	0	404	-100.0%	7,538	1,793	3.2	0	1,816	-100.0%	22,591	2,711	733.3%
BRENT CALENDAR SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE JET FUEL CALEN	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ROTTERDAM 3.5%FUEL OIL CL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE FUEL OIL 180 CS	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
HEATING OIL PHY	0	665	-100.0%	6,057	5,660	0.07	0	4,444	-100.0%	24,448	37,236	-34.3%
HENRY HUB FINANCIAL LAST	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
RBOB PHY	0	486	-100.0%	8,618	8,493	0.01	0	6,970	-100.0%	29,865	43,869	-31.9%
NATURAL GAS PHY	0	818	-100.0%	1,371,466	550,801	1.49	0	13,859	-100.0%	5,527,633	2,668,535	107.1%
CRUDE OIL APO	0	1,431	-100.0%	0	0	0	0	6,471	-100.0%	40	0	0.0%
NATURAL GAS 3 M CSO FIN	0	0	0.0%	0	0	0	0	250	-100.0%	0	0	0.0%
NATURAL GAS 1 M CSO FIN	0	0	0.0%	0	0	0	0	200	-100.0%	0	0	0.0%
WTI CRUDE OIL 1 M CSO FI	0	0	0.0%	0	2,600	-1	0	0	0.0%	0	13,526	-100.0%
CRUDE OIL PHY	0	25,073	-100.0%	4,116,677	2,405,860	0.71	0	172,458	-100.0%	16,192,570	14,188,805	14.1%
RBOB CALENDAR SWAP	0	2	-100.0%	10	0	0	0	50	-100.0%	10	0	0.0%
RBOB 1MO CAL SPD OPTIONS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NY HARBOR HEAT OIL SWP	0	105	-100.0%	104	0	0	0	871	-100.0%	319	0	0.0%

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<b>Energy Options</b>												
PJM MONTHLY	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
WTI-BRENT BULLET SWAP	0	0	0.0%	880	0	0	0	0	0.0%	4,720	0	0.0%
HO 1 MONTH CLNDR OPTIONS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NG HH 3 MONTH CAL	0	250	-100.0%	0	0	0	0	500	-100.0%	0	0	0.0%
CRUDE OIL 1MO	0	0	0.0%	3,905	51,766	-0.92	0	0	0.0%	85,958	196,750	-56.3%
WTI 12 MONTH CALENDAR OP	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
NYMEX EUROPEAN GASOIL A	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYMEX EUROPEAN GASOIL O	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PETRO OUTRIGHT EURO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO ZONE G 5MW PEAK OP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PETROCHEMICALS	0	0	0.0%	0	8	-1	0	0	0.0%	0	8	-100.0%
NATURAL GAS OPTION ON CA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ELEC MISO PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EUROPEAN JET KEROSENE N	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM CALENDAR STRIP	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
CRUDE OIL OUTRIGHTS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
APPALACHIAN COAL	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
HEATING OIL CRK SPD AVG P	0	-	-	0	-		0	-	-	0	-	-
ELECTRICITY OFF PEAK	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
ELEC FINSETTLED	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CRUDE OIL CALNDR STRIP	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
NATURAL GAS 5 M CSO FIN	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MCCLOSKEY ARA ARGS COAL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MCCLOSKEY RCH BAY COAL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NATURAL GAS 2 M CSO FIN	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NATURAL GAS 6 M CSO FIN	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL CRACK SPREAD AVG	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
SINGAPORE GASOIL CALEND	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ETHANOL SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SHORT TERM NATURAL GAS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SHORT TERM	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NATURAL GAS 12 M CSO FIN	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
SHORT TERM CRUDE OIL	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
COAL SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%

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<b>Energy Options</b>												
DAILY CRUDE OIL	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
PJM ELECTRIC	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
PJM WES HUB PEAK CAL MTH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM WES HUB PEAK LMP 50M	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
LLS CRUDE OIL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EURO-DENOMINATED PETRO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
COAL API2 INDEX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOLINE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
COAL API4 INDEX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
1 MO GASOIL CAL SWAP SPR	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
<b>FX Futures</b>												
AUSTRALIAN DOLLAR	220	83	165.1%	1,981,138	2,158,448	-0.08	967	167	479.0%	9,115,201	10,598,400	-14.0%
BRITISH POUND	0	65	-100.0%	2,297,599	1,949,727	0.18	248	346	-28.3%	11,847,307	10,369,709	14.2%
BRAZIL REAL	0	0	0.0%	75,189	37,529	1	0	0	0.0%	249,021	268,449	-7.2%
CANADIAN DOLLAR	1,268	288	340.3%	1,545,905	1,473,876	0.05	2,034	538	278.1%	7,019,878	7,972,482	-11.9%
E-MINI EURO FX	0	0	0.0%	90,684	53,755	0.69	0	0	0.0%	423,932	421,440	0.6%
EURO FX	123	697	-82.4%	4,114,166	3,182,159	0.29	1,731	5,238	-67.0%	21,141,682	20,877,179	1.3%
E-MINI JAPANESE YEN	0	0	0.0%	44,708	24,704	0.81	0	0	0.0%	168,810	177,856	-5.1%
JAPANESE YEN	0	179	-100.0%	3,347,622	2,129,579	0.57	7,362	2,301	219.9%	16,895,587	15,472,606	9.2%
MEXICAN PESO	0	0	0.0%	1,042,936	1,073,128	-0.03	5	0	0.0%	4,934,006	5,533,461	-10.8%
NEW ZEALND DOLLAR	0	0	0.0%	468,858	455,791	0.03	0	0	0.0%	2,348,030	2,130,509	10.2%
NKR/USD CROSS RATE	0	0	0.0%	1,193	1,353	-0.12	0	0	0.0%	8,227	6,179	33.1%
RUSSIAN RUBLE	0	0	0.0%	42,069	19,063	1.21	0	0	0.0%	167,422	138,379	21.0%
S.AFRICAN RAND	0	0	0.0%	27,599	13,956	0.98	0	0	0.0%	194,064	65,767	195.1%
SWISS FRANC	0	0	0.0%	641,523	391,626	0.64	0	0	0.0%	2,468,438	2,281,882	8.2%
AD/CD CROSS RATES	0	0	0.0%	2	0	0	0	0	0.0%	23	36	-36.1%
AD/JY CROSS RATES	0	0	0.0%	1,472	4,055	-0.64	0	0	0.0%	9,169	24,087	-61.9%
AD/NE CROSS RATES	0	0	0.0%	259	100	1.59	0	0	0.0%	369	422	-12.6%
BP/JY CROSS RATES	0	0	0.0%	2,374	745	2.19	0	0	0.0%	11,377	6,833	66.5%
BP/SF CROSS RATES	0	0	0.0%	164	4	40	0	0	0.0%	472	51	825.5%

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>FX Futures</b>												
CD/JY CROSS RATES	0	0	0.0%	2	0	0	0	0	0.0%	434	9	4,722.2%
EC/AD CROSS RATES	0	0	0.0%	1,489	1,370	0.09	0	0	0.0%	10,994	8,218	33.8%
EC/CD CROSS RATES	0	0	0.0%	2,991	1,373	1.18	0	0	0.0%	14,863	11,559	28.6%
EC/NOK CROSS RATES	0	0	0.0%	80	0	0	0	0	0.0%	206	5	4,020.0%
EC/SEK CROSS RATES	0	0	0.0%	43	131	-0.67	0	0	0.0%	647	322	100.9%
EFX/BP CROSS RATES	0	0	0.0%	49,058	38,465	0.28	0	0	0.0%	268,366	343,309	-21.8%
EFX/JY CROSS RATES	0	0	0.0%	51,678	17,447	1.96	0	0	0.0%	242,668	190,817	27.2%
EFX/SF CROSS RATES	0	0	0.0%	27,012	15,072	0.79	0	0	0.0%	137,365	138,056	-0.5%
SF/JY CROSS RATES	0	-	-	0	-		0	-	-	0	-	-
SKR/USD CROSS RATES	0	0	0.0%	2,121	959	1.21	0	0	0.0%	9,431	5,934	58.9%
HUNGARIAN FORINT (US)	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
POLISH ZLOTY (US)	0	0	0.0%	61	138	-0.56	0	0	0.0%	569	1,782	-68.1%
POLISH ZLOTY (EC)	0	0	0.0%	130	520	-0.75	0	0	0.0%	265	4,589	-94.2%
SHEKEL	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
RMB USD	0	0	0.0%	21	74	-0.72	0	6	-100.0%	142	1,539	-90.8%
KOREAN WON	0	0	0.0%	12	1	11	0	0	0.0%	67	73	-8.2%
TURKISH LIRA	0	0	0.0%	0	0	0	0	0	0.0%	12	0	0.0%
TURKISH LIRA (EU)	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
E-MICRO EUR/USD	0	0	0.0%	264,980	188,608	0.4	0	0	0.0%	1,329,520	1,575,992	-15.6%
E-MICRO GBP/USD	0	0	0.0%	59,474	49,240	0.21	0	0	0.0%	314,092	266,898	17.7%
E-MICRO USD/CAD	0	0	0.0%	0	0	0	0	0	0.0%	0	22	-100.0%
E-MICRO USD/CHF	0	0	0.0%	0	0	0	0	0	0.0%	0	1	-100.0%
E-MICRO USD/JPY	0	0	0.0%	0	0	0	0	0	0.0%	0	4	-100.0%
E-MICRO AUD/USD	0	0	0.0%	71,670	84,955	-0.16	0	0	0.0%	393,622	433,104	-9.1%
MICRO CHF/USD	0	0	0.0%	1,176	1,404	-0.16	0	0	0.0%	4,769	11,162	-57.3%
E-MICRO JPY/USD	0	0	0.0%	35,703	20,938	0.71	0	0	0.0%	239,185	135,043	77.1%
E-MICRO INR/USD	0	0	0.0%	3,135	1,825	0.72	0	0	0.0%	12,572	4,422	184.3%
FCXRX	0	0	0.0%	549	52	9.56	0	0	0.0%	5,952	56	10,528.6%
E-MICRO USD/CNH	0	0	0.0%	0	0	0	0	0	0.0%	0	60	-100.0%
CHINESE RENMINBI (CNH)	0	0	0.0%	1,888	826	1.29	0	0	0.0%	7,691	7,587	1.4%
E-MICRO CAD/USD	0	0	0.0%	18,572	23,911	-0.22	0	0	0.0%	78,939	99,749	-20.9%
INDIAN RUPEE	0	0	0.0%	45,789	13,568	2.37	0	0	0.0%	156,646	55,729	181.1%
USDZAR	0	0	0.0%	0	0	0	0	0	0.0%	0	4	-100.0%

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>FX Options</b>												
AUSTRALIAN DOLLAR	251	661	-62.0%	43,725	169,264	-0.74	2,674	3,139	-14.8%	188,781	718,819	-73.7%
BRITISH POUND	40	1,383	-97.1%	99,618	211,980	-0.53	691	22,234	-96.9%	371,255	1,041,979	-64.4%
CANADIAN DOLLAR	2,910	2,169	34.2%	44,116	133,199	-0.67	4,592	20,394	-77.5%	172,213	810,585	-78.8%
EURO FX	630	6,809	-90.7%	328,083	618,589	-0.47	8,387	74,958	-88.8%	1,219,914	3,836,113	-68.2%
JAPANESE YEN	816	9,618	-91.5%	83,733	275,623	-0.7	8,318	41,828	-80.1%	498,882	1,505,527	-66.9%
MEXICAN PESO	500	0	0.0%	557	1,527	-0.64	749	720	4.0%	18,063	10,528	71.6%
NEW ZEALND DOLLAR	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
RUSSIAN RUBLE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SWISS FRANC	0	30	-100.0%	1,182	7,207	-0.84	0	237	-100.0%	5,327	37,749	-85.9%
JAPANESE YEN (EU)	0	0	0.0%	4	969	-1	0	0	0.0%	137	3,675	-96.3%
EURO FX (EU)	0	0	0.0%	61	2,637	-0.98	0	0	0.0%	290	18,269	-98.4%
SWISS FRANC (EU)	0	-	-	6	-	-	0	-	-	11	-	-
CANADIAN DOLLAR (EU)	0	0	0.0%	32	78	-0.59	0	0	0.0%	78	1,606	-95.1%
BRITISH POUND (EU)	0	0	0.0%	127	651	-0.8	0	0	0.0%	948	6,931	-86.3%
AUSTRALIAN DLR (EU)	0	0	0.0%	0	74	-1	0	0	0.0%	2	1,044	-99.8%
EUR/USD PQO 2pm Fix	1,710	-	-	470,549	-	-	12,725	-	-	2,000,179	-	-
CAD/USD PQO 2pm Fix	367	-	-	101,021	-	-	2,132	-	-	392,651	-	-
JPY/USD PQO 2pm Fix	40	-	-	186,926	-	-	24,850	-	-	1,003,548	-	-
AUD/USD PQO 2pm Fix	600	-	-	84,185	-	-	1,975	-	-	358,823	-	-
GBP/USD PQO 2pm Fix	16	-	-	136,906	-	-	525	-	-	637,693	-	-
CHF/USD PQO 2pm Fix	0	-	-	2,503	-	-	0	-	-	10,537	-	-
<b>Commodities and Alternative Investments</b>												
<b>Futures</b>												
CORN	28,230	39,669	-28.8%	5,997,991	6,734,525	-0.11	155,177	179,038	-13.3%	33,863,762	36,913,715	-8.3%
SOYBEAN	12,852	27,391	-53.1%	3,614,401	6,003,902	-0.4	69,998	154,115	-54.6%	20,155,153	26,958,898	-25.2%
SOYBEAN MEAL	1,142	5,773	-80.2%	1,745,891	2,474,983	-0.29	10,695	22,311	-52.1%	9,692,604	10,729,578	-9.7%
SOYBEAN OIL	4,104	3,127	31.2%	1,828,235	2,427,782	-0.25	20,247	19,270	5.1%	11,377,870	11,477,010	-0.9%
OATS	3	0	0.0%	10,342	13,266	-0.22	80	0	0.0%	65,883	90,235	-27.0%
ROUGH RICE	0	0	0.0%	18,447	18,819	-0.02	0	0	0.0%	110,698	123,233	-10.2%
MINI CORN	0	0	0.0%	8,693	12,389	-0.3	0	0	0.0%	44,218	50,437	-12.3%
MINI SOYBEAN	0	0	0.0%	11,214	32,729	-0.66	0	0	0.0%	79,711	121,674	-34.5%

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>Commodities and Alternative Investments</b>												
<b>Futures</b>												
MINI WHEAT	0	0	0.0%	5,747	5,477	0.05	0	0	0.0%	27,464	27,688	-0.8%
LIVE CATTLE	10,328	3,779	173.3%	2,147,698	1,227,867	0.75	23,470	20,879	12.4%	7,194,858	5,489,505	31.1%
FEEDER CATTLE	106	105	1.0%	337,245	182,394	0.85	403	167	141.3%	1,428,080	1,051,341	35.8%
LEAN HOGS	1,864	1,246	49.6%	1,008,152	725,232	0.39	11,480	9,636	19.1%	4,229,232	3,410,671	24.0%
LUMBER	0	0	0.0%	16,614	12,800	0.3	0	0	0.0%	84,376	73,050	15.5%
MILK	21	22	-4.5%	30,332	27,278	0.11	605	167	262.3%	139,052	110,515	25.8%
MLK MID	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NFD MILK	0	0	0.0%	3,977	4,351	-0.09	0	0	0.0%	25,455	27,465	-7.3%
BUTTER CS	0	0	0.0%	3,282	2,101	0.56	0	0	0.0%	15,155	15,769	-3.9%
CLASS IV MILK	0	0	0.0%	898	1,153	-0.22	60	0	0.0%	6,229	4,067	53.2%
DRY WHEY	0	0	0.0%	1,404	1,269	0.11	0	0	0.0%	11,553	5,739	101.3%
GSCI EXCESS RETURN FUT	0	0	0.0%	29	11	1.64	0	0	0.0%	356	420	-15.2%
GOLDMAN SACHS	0	0	0.0%	33,896	26,606	0.27	0	0	0.0%	172,016	136,406	26.1%
HDD WEATHER	0	0	0.0%	0	0	0	0	0	0.0%	50	78	-35.9%
CDD WEATHER	0	0	0.0%	0	200	-1	0	0	0.0%	0	200	-100.0%
HDD SEASONAL STRIP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CDD SEASONAL STRIP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
HDD WEATHER EUROPEAN	0	0	0.0%	0	0	0	0	0	0.0%	50	100	-50.0%
CAT WEATHER EUROPEAN	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
HDD EURO SEASONAL STRIP	0	0	0.0%	0	0	0	0	0	0.0%	0	50	-100.0%
CAT EURO SEASONAL STRIP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
HOUSING INDEX	0	0	0.0%	12	16	-0.25	0	0	0.0%	63	51	23.5%
DOW-UBS COMMOD INDEX	0	0	0.0%	118,508	17,889	5.62	0	0	0.0%	332,027	147,899	124.5%
COTTON	0	0	0.0%	10	14	-0.29	0	0	0.0%	14	308	-95.5%
COCOA TAS	0	0	0.0%	21	213	-0.9	0	0	0.0%	74	1,083	-93.2%
COFFEE	0	0	0.0%	20	7	1.86	0	0	0.0%	40	79	-49.4%
SUGAR 11	0	0	0.0%	7	40	-0.83	0	0	0.0%	25	282	-91.1%
USD CRUDE PALM OIL	0	-	-	0	-		0	-	-	0	-	-
CASH-SETTLED CHEESE	0	0	0.0%	7,429	12,282	-0.4	0	0	0.0%	52,428	54,492	-3.8%
FERTILIZER PRODUCS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CHI WHEAT	12,487	12,791	-2.4%	2,490,989	2,333,118	0.07	89,093	85,068	4.7%	13,507,287	12,919,959	4.5%
DJ_UBS ROLL SELECT INDEX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
KC WHEAT	1,565	400	291.3%	967,854	630,999	0.53	5,733	6,789	-15.6%	4,736,880	3,540,081	33.8%
Intercommodity Spread	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%

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<b>Commodities and Alternative Investments</b>												
<b>Futures</b>												
PALM OIL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MALAYSIAN PALM SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
S&P GSCI ENHANCED ER SWA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
<b>Commodities and Alternative Investments Options</b>												
CORN	563,130	687,231	-18.1%	1,392,842	1,343,484	0.04	2,661,421	3,056,031	-12.9%	6,397,753	5,748,762	11.3%
SOYBEAN	234,839	438,265	-46.4%	1,138,358	1,858,105	-0.39	1,529,308	2,276,910	-32.8%	4,842,910	7,148,192	-32.2%
SOYBEAN MEAL	55,885	87,636	-36.2%	136,544	232,930	-0.41	282,798	347,762	-18.7%	610,437	775,662	-21.3%
SOYBEAN OIL	131,016	107,815	21.5%	121,216	105,649	0.15	471,286	481,830	-2.2%	480,669	525,989	-8.6%
SOYBEAN CRUSH	130	708	-81.6%	0	0	0	425	3,730	-88.6%	0	0	0.0%
OATS	144	356	-59.6%	864	642	0.35	2,766	2,810	-1.6%	2,979	3,064	-2.8%
ROUGH RICE	2,968	162	1,732.1%	1,904	2,164	-0.12	5,358	2,068	159.1%	5,157	8,711	-40.8%
WHEAT	236	0	0.0%	270	0	0	783	0	0.0%	397	0	0.0%
LIVE CATTLE	74,453	166,947	-55.4%	228,020	294,294	-0.23	305,604	776,692	-60.7%	1,054,275	1,292,252	-18.4%
FEEDER CATTLE	3,555	2,760	28.8%	36,930	30,610	0.21	16,891	20,047	-15.7%	165,792	154,681	7.2%
LEAN HOGS	26,493	27,879	-5.0%	182,757	152,786	0.2	120,051	160,923	-25.4%	792,751	583,797	35.8%
LUMBER	0	14	-100.0%	1,175	870	0.35	30	65	-53.8%	6,199	4,748	30.6%
MILK	12,907	16,196	-20.3%	27,920	14,479	0.93	63,809	54,621	16.8%	123,291	62,937	95.9%
MLK MID	126	4	3,050.0%	0	0	0	455	133	242.1%	0	0	0.0%
NFD MILK	1,465	2,400	-39.0%	2,450	2,272	0.08	9,242	14,501	-36.3%	13,807	6,275	120.0%
BUTTER CS	1,024	759	34.9%	356	143	1.49	4,785	5,950	-19.6%	1,345	1,012	32.9%
CLASS IV MILK	110	120	-8.3%	2,403	170	13.14	1,860	573	224.6%	6,817	1,066	539.5%
DRY WHEY	266	192	38.5%	130	0	0	1,650	607	171.8%	637	19	3,252.6%
HDD WEATHER	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CDD WEATHER	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
HDD SEASONAL STRIP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CDD SEASONAL STRIP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
HDD WEATHER EUROPEAN	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CAT WEATHER EUROPEAN	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
HDD EURO SEASONAL STRIP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
HOUSING INDEX	0	0	0.0%	0	0	0	0	0	0.0%	24	18	33.3%
CORN NEARBY+2 CAL SPRD	597	9,362	-93.6%	21	10	1.1	3,122	16,921	-81.5%	32	66	-51.5%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry MAY 2017	Open Outcry MAY 2016	% CHG	ELEC MAY 2017	ELEC MAY 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG
<b>Commodities and Alternative Investments</b>												
<b>Options</b>												
SOYBN NEARBY+2 CAL SPRD	100	0	0.0%	0	0	0	460	350	31.4%	600	0	0.0%
WHEAT NEARBY+2 CAL SPRD	160	1,797	-91.1%	331	156	1.12	3,380	21,734	-84.4%	2,261	921	145.5%
JULY-DEC CORN CAL SPRD	7,820	7,219	8.3%	0	18	-1	15,332	30,984	-50.5%	0	171	-100.0%
DEC-JULY WHEAT CAL SPRD	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
JULY-NOV SOYBEAN CAL SPR	13,604	10,036	35.6%	133	20	5.65	64,617	39,729	62.6%	1,317	258	410.5%
JULY-DEC WHEAT CAL SPRD	100	9,534	-99.0%	0	10	-1	1,250	28,564	-95.6%	0	110	-100.0%
JULY-JULY WHEAT CAL SPRD	0	230	-100.0%	0	0	0	0	460	-100.0%	0	0	0.0%
NOV-NOV SOYBEAN CAL SPR	0	161	-100.0%	0	0	0	76	369	-79.4%	0	0	0.0%
SOYMEAL NEARBY+2 CAL SPR	0	800	-100.0%	0	0	0	0	3,375	-100.0%	0	0	0.0%
LV CATL CSO	102	218	-53.2%	0	0	0	1,157	243	376.1%	0	0	0.0%
JULY-DEC SOY OIL CAL SPRD	210	0	0.0%	0	0	0	630	0	0.0%	10	0	0.0%
NOV-JULY SOYBEAN CAL SPR	0	0	0.0%	0	0	0	25	0	0.0%	0	0	0.0%
SOY OIL NEARBY+2 CAL SPRD	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
CASH-SETTLED CHEESE	5,796	7,031	-17.6%	3,785	2,185	0.73	22,075	19,092	15.6%	17,786	13,601	30.8%
DEC-JULY CORN CAL SPRD	2,300	0	0.0%	0	0	0	6,200	0	0.0%	0	0	0.0%
WHEAT-CORN ICSO	0	200	-100.0%	0	0	0	3,205	5,557	-42.3%	6	0	0.0%
DEC-DEC CORN CAL SPRD	2,473	2,156	14.7%	0	0	0	3,920	4,962	-21.0%	0	5	-100.0%
AUG-NOV SOYBEAN CAL SPR	50	-	-	0	-	-	50	-	-	0	-	-
MAR-DEC CORN CAL SPRD	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
CHI WHEAT	152,267	149,988	1.5%	588,138	443,382	0.33	782,876	952,102	-17.8%	2,399,670	2,368,093	1.3%
MAR-JULY CORN CAL SPRD	0	0	0.0%	0	0	0	0	2,416	-100.0%	0	4	-100.0%
KC WHEAT	23,176	10,800	114.6%	60,185	16,497	2.65	73,518	83,376	-11.8%	150,971	74,403	102.9%
MAR-JULY WHEAT CAL SPRD	0	0	0.0%	0	0	0	1,293	1,650	-21.6%	76	0	0.0%
AUG-DEC SOYBEAN MEAL CS	0	-	-	0	-	-	0	-	-	0	-	-
Intercommodity Spread	300	150	100.0%	0	0	0	501	2,000	-75.0%	0	0	0.0%
SEP-DEC SOYBEAN MEAL CSC	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
<b>Ags Futures</b>												
WHEAT	0	-	-	22,132	-	-	0	-	-	64,680	-	-

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>Ags Options</b>												
WHEAT	0	-	-	0	-		0	-	-	10	-	-
<b>Foreign Exchange Futures</b>												
CHILEAN PESO	0	0	0.0%	199	0	0	0	6	-100.0%	1,108	4	27,600.0%
<b>TOTAL FUTURES GROUP</b>												
Interest Rate Futures	837,166	641,828	30.4%	146,385,596	120,348,468	21.6%	4,428,323	3,927,122	12.8%	657,064,868	569,109,725	15.5%
Equity Index Futures	28,289	50,859	-44.4%	37,143,013	42,385,412	-12.4%	329,197	507,105	-35.1%	198,176,210	263,359,755	-24.8%
Metals Futures	0	13,270	-100.0%	10,462,684	8,753,963	19.5%	0	66,649	-100.0%	47,759,788	40,217,606	18.8%
Energy Futures	0	3,462	-100.0%	46,493,736	36,982,504	25.7%	0	20,248	-100.0%	205,016,733	194,404,007	5.5%
FX Futures	1,611	1,312	22.8%	16,363,094	13,430,475	21.8%	12,347	8,596	43.6%	80,232,032	79,641,772	0.7%
Commodities and Alternative Inve	72,702	94,303	-22.9%	20,409,338	22,929,712	-11.0%	387,041	497,440	-22.2%	107,352,663	113,482,078	-5.4%
Ags Futures	0	-	-	22,132	-		0	-	-	64,680	-	-
Foreign Exchange Futures	0	0	0.0%	199	0	0.0%	0	6	-100.0%	1,108	4	27,600.0%
<b>TOTAL FUTURES</b>	<b>939,768</b>	<b>805,034</b>	<b>16.7%</b>	<b>277,279,792</b>	<b>244,830,534</b>	<b>13.3%</b>	<b>5,156,908</b>	<b>5,027,166</b>	<b>2.6%</b>	<b>1,295,668,082</b>	<b>1,260,214,947</b>	<b>2.8%</b>
<b>TOTAL OPTIONS GROUP</b>												
Equity Index Options	1,021,276	1,098,249	-7.0%	13,039,495	10,783,160	20.9%	5,342,442	5,887,891	-9.3%	66,556,041	56,499,791	17.8%
Interest Rate Options	19,542,363	18,627,669	4.9%	21,722,455	12,113,143	79.3%	116,280,644	108,689,385	7.0%	107,549,735	69,296,571	55.2%
Metals Options	0	76,326	-100.0%	749,670	713,070	5.1%	0	445,663	-100.0%	3,625,667	3,675,796	-1.4%
Energy Options	0	29,234	-100.0%	5,515,255	3,026,981	82.2%	0	207,889	-100.0%	21,888,154	17,151,440	27.6%
FX Options	7,880	20,670	-61.9%	1,583,334	1,421,798	11.4%	67,618	163,510	-58.6%	6,879,332	7,992,825	-13.9%
Commodities and Alternative Inve	1,317,802	1,749,126	-24.7%	3,926,732	4,500,876	-12.8%	6,462,209	8,419,137	-23.2%	17,077,969	18,774,817	-9.0%
Ags Options	0	-	-	0	-		0	-	-	10	-	-
<b>TOTAL OPTIONS</b>	<b>21,889,321</b>	<b>21,601,274</b>	<b>1.3%</b>	<b>46,536,941</b>	<b>32,559,028</b>	<b>42.9%</b>	<b>128,152,913</b>	<b>123,813,475</b>	<b>3.5%</b>	<b>223,576,908</b>	<b>173,391,240</b>	<b>28.9%</b>

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<b>TOTAL COMBINED</b>												
Interest Rate	20,379,529	19,269,497	5.8%	168,108,051	132,461,611	26.9%	120,708,967	112,616,507	7.2%	764,614,603	638,406,296	19.8%
Equity Index	1,049,565	1,149,108	-8.7%	50,182,508	53,168,572	-5.6%	5,671,639	6,394,996	-11.3%	264,732,251	319,859,546	-17.2%
Metals	0	89,596	-100.0%	11,212,354	9,467,033	18.4%	0	512,312	-100.0%	51,385,455	43,893,402	17.1%
Energy	0	32,696	-100.0%	52,008,991	40,009,485	30.0%	0	228,137	-100.0%	226,904,887	211,555,447	7.3%
FX	9,491	21,982	-56.8%	17,946,428	14,852,273	20.8%	79,965	172,106	-53.5%	87,111,364	87,634,597	-0.6%
Commodities and Alternative Inve	1,390,504	1,843,429	-24.6%	24,336,070	27,430,588	-11.3%	6,849,250	8,916,577	-23.2%	124,430,632	132,256,895	-5.9%
Ags	0	-	-	22,132	-	-	0	-	-	64,690	-	-
Foreign Exchange	0	0	0.0%	199	0	0.0%	0	6	-100.0%	1,108	4	27,600.0%
<b>GRAND TOTAL</b>	<b>22,829,089</b>	<b>22,406,308</b>	<b>1.9%</b>	<b>323,816,733</b>	<b>277,389,562</b>	<b>16.7%</b>	<b>133,309,821</b>	<b>128,840,641</b>	<b>3.5%</b>	<b>1,519,244,990</b>	<b>1,433,606,187</b>	<b>6.0%</b>

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