

## CME Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 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>												
EURODOLLARS	660,232	918,116	-28.1%	48,059,358	82,265,871	-41.6%	7,007,421	6,234,448	12.4%	578,041,719	579,549,134	-0.3%
1-MONTH EURODOLLAR	0	0	0.0%	4,420	2,171	103.6%	0	0	0.0%	51,775	12,883	301.9%
2YR BUNDLE	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
EURO 5YR BUNDLE	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
3YR BUNDLE	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
<b>Interest Rate Options</b>												
EURODOLLARS	6,113,057	9,676,460	-36.8%	3,646,239	5,076,847	-28.2%	89,052,373	110,543,177	-19.4%	43,024,159	34,237,463	25.7%
EURO MIDCURVE	10,240,172	12,137,615	-15.6%	6,742,140	4,774,237	41.2%	98,467,733	75,624,393	30.2%	63,835,544	33,239,085	92.0%

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<b>Equity Index Futures</b>												
E-MINI S&P500	0	0	0.0%	27,554,129	38,107,532	-27.7%	0	0	0.0%	333,755,902	435,379,174	-23.3%
S&P 500	22,303	61,717	-63.9%	4,209	9,162	-54.1%	698,482	1,175,560	-40.6%	48,090	108,496	-55.7%
S&P 600 SMALLCAP EMINI	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
E-MINI MIDCAP	0	0	0.0%	278,129	342,132	-18.7%	0	0	0.0%	3,760,657	4,669,093	-19.5%
S&P 400 MIDCAP	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
S&P 500 GROWTH	0	0	0.0%	1	11	-90.9%	0	0	0.0%	251	231	8.7%
S&P 500/VALUE	0	0	0.0%	1,162	3,042	-61.8%	0	0	0.0%	73,738	30,544	141.4%
E-MINI RUSSELL 2000	0	-	-	2,164,088	-	-	0	-	-	7,210,280	-	-
E-MINI RUSSELL 1000	0	0	0.0%	6,643	75	8,757.3%	0	0	0.0%	28,345	4,229	570.3%
E-MINI NASDAQ 100	0	0	0.0%	6,421,192	5,328,024	20.5%	0	0	0.0%	62,479,988	60,610,735	3.1%
NASDAQ	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
NIKKEI 225 (\$) STOCK	0	0	0.0%	425,097	292,242	45.5%	0	0	0.0%	3,023,295	3,978,936	-24.0%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	1,148,523	1,322,841	-13.2%	0	0	0.0%	10,066,944	13,725,302	-26.7%
NASDAQ BIOTECH	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	18	-100.0%
E-MICRO NIFTY	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
S&P ENERGY SECTOR	0	0	0.0%	6,470	16,589	-61.0%	0	0	0.0%	107,447	110,418	-2.7%
S&P FINANCIAL SECTOR	0	0	0.0%	12,079	13,642	-11.5%	0	0	0.0%	164,382	83,014	98.0%
S&P TECHNOLOGY SECTOR	0	0	0.0%	4,825	4,886	-1.2%	0	0	0.0%	58,683	52,821	11.1%
S&P CONSUMER DSCRTNRY S	0	0	0.0%	3,269	8,101	-59.6%	0	0	0.0%	45,434	58,127	-21.8%
S&P HEALTH CARE SECTOR	0	0	0.0%	4,238	14,794	-71.4%	0	0	0.0%	92,740	89,449	3.7%
S&P MATERIALS SECTOR	0	0	0.0%	4,179	8,053	-48.1%	0	0	0.0%	62,743	52,934	18.5%
S&P INDUSTRIAL SECTOR	0	0	0.0%	5,457	7,036	-22.4%	0	0	0.0%	51,882	34,543	50.2%
S&P CONSUMER STAPLES SE	0	0	0.0%	3,197	8,527	-62.5%	0	0	0.0%	87,234	83,540	4.4%
S&P UTILITIES SECTOR	0	0	0.0%	6,482	17,540	-63.0%	0	0	0.0%	151,121	136,825	10.4%
IBOVESPA INDEX	0	0	0.0%	590	729	-19.1%	0	0	0.0%	6,988	7,931	-11.9%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	3,731	90	4,045.6%	0	0	0.0%	26,218	4,444	490.0%
FT-SE 100	0	0	0.0%	1,173	607	93.2%	0	0	0.0%	6,703	7,042	-4.8%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	3,032	120	2,426.7%	0	0	0.0%	17,685	2,746	544.0%
E-MINI S&P REAL ESTATE SEL	0	0	0.0%	1,264	3,250	-61.1%	0	0	0.0%	26,695	4,817	454.2%
NIFTY 50	0	0	0.0%	14,369	11,098	29.5%	0	0	0.0%	131,490	115,169	14.2%
E-mini FTSE China 50	0	0	0.0%	4,404	1,581	178.6%	0	0	0.0%	19,291	10,164	89.8%
E-mini FTSE 100 (USD)	0	0	0.0%	1,093	2	54,550.0%	0	0	0.0%	2,072	375	452.5%
FTSE Emerging	0	0	0.0%	266	63	322.2%	0	0	0.0%	722	1,487	-51.4%



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<b>Equity Index Options</b>												
E-MINI S&P500	3,200	0	0.0%	5,429,562	5,434,665	-0.1%	5,135	110,315	-95.3%	46,788,678	53,975,060	-13.3%
S&P 500	435,685	375,320	16.1%	0	0	0.0%	3,573,737	5,403,463	-33.9%	0	0	0.0%
E-MINI MIDCAP	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	17	-100.0%
E-MINI RUSSELL 2000	0	-	-	19,153	-	-	0	-	-	41,359	-	-
E-MINI NASDAQ 100	0	0	0.0%	351,587	200,488	75.4%	0	0	0.0%	2,691,520	2,405,403	11.9%
NASDAQ	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
EOM S&P 500	278,004	160,586	73.1%	0	0	0.0%	2,110,848	1,897,310	11.3%	0	0	0.0%
EOM EMINI S&P	0	0	0.0%	2,316,604	2,216,164	4.5%	0	0	0.0%	22,235,291	18,614,562	19.5%
EOW1 S&P 500	108,008	44,233	144.2%	0	0	0.0%	982,064	669,450	46.7%	0	0	0.0%
EOW1 EMINI S&P 500	0	0	0.0%	1,246,815	1,038,385	20.1%	0	0	0.0%	11,805,588	10,996,213	7.4%
EOW2 S&P 500	243,522	134,589	80.9%	0	0	0.0%	1,911,618	1,425,200	34.1%	0	0	0.0%
EOW2 EMINI S&P 500	0	0	0.0%	1,214,931	1,907,664	-36.3%	0	0	0.0%	11,746,518	12,106,035	-3.0%
EOW4 EMINI S&P 500	0	0	0.0%	892,935	746,612	19.6%	0	0	0.0%	10,536,427	11,943,035	-11.8%
EOW3 EMINI S&P 500	0	0	0.0%	2,992,790	4,197,884	-28.7%	3,000	27,000	-88.9%	37,054,376	24,263,975	52.7%
EOW3 S&P 500	340,297	396,502	-14.2%	0	0	0.0%	3,984,497	2,869,345	38.9%	0	0	0.0%
EOW2 E-MINI RUSSELL 2000 W	0	-	-	4,977	-	-	0	-	-	11,645	-	-
EOW1 E-MINI RUSSELL 2000 W	0	-	-	1,641	-	-	0	-	-	6,576	-	-
EOM E-MINI RUSSELL 2000 EN	0	-	-	3,493	-	-	0	-	-	15,018	-	-
EOW3 E-MINI RUSSELL 2000 W	0	-	-	12,044	-	-	0	-	-	55,382	-	-
EOW1 E-MINI RUSSELL 2000 W	0	-	-	1,764	-	-	0	-	-	6,625	-	-
EOW4 E-MINI RUSSELL 2000 W	0	-	-	3,109	-	-	0	-	-	11,558	-	-
<b>FX Futures</b>												
AUSTRALIAN DOLLAR	0	108	-100.0%	1,966,988	2,303,056	-14.6%	1,537	1,841	-16.5%	21,951,546	23,489,308	-6.5%
BRITISH POUND	0	67	-100.0%	2,937,040	2,677,083	9.7%	249	1,480	-83.2%	27,979,757	26,469,227	5.7%
BRAZIL REAL	0	0	0.0%	87,786	58,624	49.7%	0	0	0.0%	650,829	534,524	21.8%
CANADIAN DOLLAR	0	85	-100.0%	1,413,742	1,611,566	-12.3%	2,684	1,062	152.7%	17,345,207	17,244,874	0.6%
E-MINI EURO FX	0	0	0.0%	89,708	91,063	-1.5%	0	0	0.0%	1,033,894	840,483	23.0%
EURO FX	152	322	-52.8%	4,571,246	4,571,421	0.0%	2,825	8,124	-65.2%	50,607,396	44,109,337	14.7%
E-MINI JAPANESE YEN	0	0	0.0%	10,882	35,894	-69.7%	0	0	0.0%	308,393	361,925	-14.8%
JAPANESE YEN	46	393	-88.3%	3,486,863	3,878,864	-10.1%	8,981	4,349	106.5%	38,320,545	33,320,955	15.0%
MEXICAN PESO	0	0	0.0%	1,025,069	1,440,561	-28.8%	5	0	0.0%	11,505,936	12,935,728	-11.1%
NEW ZEALND DOLLAR	0	0	0.0%	511,002	567,708	-10.0%	0	0	0.0%	5,683,002	5,317,752	6.9%

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<b>FX Futures</b>												
NKR/USD CROSS RATE	0	0	0.0%	1,576	1,413	11.5%	0	0	0.0%	19,572	17,810	9.9%
RUSSIAN RUBLE	0	0	0.0%	52,886	27,231	94.2%	0	0	0.0%	396,654	287,750	37.8%
S.AFRICAN RAND	0	0	0.0%	34,974	28,531	22.6%	0	0	0.0%	490,296	204,041	140.3%
SWISS FRANC	0	0	0.0%	517,290	601,140	-13.9%	0	0	0.0%	6,207,772	5,299,008	17.1%
AD/CD CROSS RATES	0	0	0.0%	0	5	-100.0%	0	0	0.0%	38	59	-35.6%
AD/JY CROSS RATES	0	0	0.0%	1,567	3,499	-55.2%	0	0	0.0%	26,109	40,952	-36.2%
AD/NE CROSS RATES	0	0	0.0%	51	11	363.6%	0	0	0.0%	940	690	36.2%
BP/JY CROSS RATES	0	0	0.0%	3,643	1,711	112.9%	0	0	0.0%	32,137	20,162	59.4%
BP/SF CROSS RATES	0	0	0.0%	175	46	280.4%	0	0	0.0%	912	477	91.2%
CD/JY CROSS RATES	0	0	0.0%	0	4	-100.0%	0	0	0.0%	554	15	3,593.3%
EC/AD CROSS RATES	0	0	0.0%	1,533	925	65.7%	0	0	0.0%	25,047	17,760	41.0%
EC/CD CROSS RATES	0	0	0.0%	2,342	2,407	-2.7%	0	0	0.0%	45,774	27,181	68.4%
EC/NOK CROSS RATES	0	0	0.0%	766	0	0.0%	0	0	0.0%	2,776	9	30,744.4%
EC/SEK CROSS RATES	0	0	0.0%	1,225	162	656.2%	0	0	0.0%	7,502	870	762.3%
EFX/BP CROSS RATES	0	0	0.0%	66,882	53,570	24.8%	0	0	0.0%	771,836	762,247	1.3%
EFX/JY CROSS RATES	0	0	0.0%	54,669	37,254	46.7%	0	0	0.0%	698,424	423,588	64.9%
EFX/SF CROSS RATES	0	0	0.0%	17,156	25,644	-33.1%	0	0	0.0%	350,493	329,492	6.4%
SF/JY CROSS RATES	0	-	-	0	-	-	0	-	-	0	-	-
SKR/USD CROSS RATES	0	0	0.0%	1,471	999	47.2%	0	0	0.0%	21,799	15,974	36.5%
HUNGARIAN FORINT (US)	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
POLISH ZLOTY (US)	0	0	0.0%	313	1,790	-82.5%	0	0	0.0%	1,293	7,169	-82.0%
POLISH ZLOTY (EC)	0	0	0.0%	19	42	-54.8%	0	0	0.0%	407	4,678	-91.3%
SHEKEL	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
RMB USD	0	0	0.0%	1	81	-98.8%	0	6	-100.0%	281	1,863	-84.9%
KOREAN WON	0	0	0.0%	150	5	2,900.0%	0	0	0.0%	350	172	103.5%
TURKISH LIRA	0	0	0.0%	6	0	0.0%	0	0	0.0%	18	0	0.0%
TURKISH LIRA (EU)	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
E-MICRO EUR/USD	0	0	0.0%	227,772	323,163	-29.5%	0	0	0.0%	2,769,857	3,067,884	-9.7%
E-MICRO GBP/USD	0	0	0.0%	55,621	134,410	-58.6%	0	0	0.0%	632,229	975,460	-35.2%
E-MICRO USD/CAD	0	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%	0	1	-100.0%
E-MICRO USD/JPY	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	4	-100.0%
E-MICRO AUD/USD	0	0	0.0%	83,620	125,748	-33.5%	0	0	0.0%	946,499	1,148,407	-17.6%
MICRO CHF/USD	0	0	0.0%	1,346	1,707	-21.1%	0	0	0.0%	11,016	20,500	-46.3%
INDIAN RUPEE	0	0	0.0%	69,855	24,514	185.0%	0	0	0.0%	427,776	144,954	195.1%

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<b>FX Futures</b>												
USDZAR	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	6	-100.0%
E-MICRO INR/USD	0	0	0.0%	3,423	5,760	-40.6%	0	0	0.0%	29,104	26,663	9.2%
E-MICRO JPY/USD	0	0	0.0%	37,845	58,401	-35.2%	0	0	0.0%	427,547	345,773	23.6%
CHINESE RENMINBI (CNH)	0	0	0.0%	2,098	2,824	-25.7%	0	0	0.0%	17,522	16,279	7.6%
FCXRX	0	0	0.0%	0	8,186	-100.0%	0	0	0.0%	6,243	12,499	-50.1%
E-MICRO USD/CNH	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	61	-100.0%
E-MICRO CAD/USD	0	0	0.0%	17,650	20,779	-15.1%	0	0	0.0%	222,816	232,407	-4.1%

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<b>FX Options</b>												
AUSTRALIAN DOLLAR	0	936	-100.0%	0	89,905	-100.0%	2,674	13,722	-80.5%	200,250	1,393,354	-85.6%
BRITISH POUND	0	271	-100.0%	0	144,797	-100.0%	693	34,381	-98.0%	462,114	2,139,269	-78.4%
CANADIAN DOLLAR	0	674	-100.0%	0	51,216	-100.0%	4,597	25,484	-82.0%	183,080	1,373,371	-86.7%
EURO FX	0	3,456	-100.0%	0	593,784	-100.0%	8,535	105,880	-91.9%	1,287,538	7,046,340	-81.7%
JAPANESE YEN	0	3,016	-100.0%	0	268,149	-100.0%	8,468	65,684	-87.1%	544,469	3,124,964	-82.6%
MEXICAN PESO	180	3,017	-94.0%	1,906	9,074	-79.0%	1,770	7,750	-77.2%	25,346	42,176	-39.9%
NEW ZEALND DOLLAR	-	0	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	0.0%
SWISS FRANC	0	0	0.0%	0	6,761	-100.0%	0	272	-100.0%	5,710	68,534	-91.7%
JAPANESE YEN (EU)	0	0	0.0%	2	38	-94.7%	0	0	0.0%	182	5,937	-96.9%
EURO FX (EU)	0	0	0.0%	16	110	-85.5%	0	5	-100.0%	505	28,568	-98.2%
SWISS FRANC (EU)	0	-	-	0	-	-	0	-	-	15	-	-
CANADIAN DOLLAR (EU)	0	0	0.0%	25	7	257.1%	0	0	0.0%	136	1,811	-92.5%
BRITISH POUND (EU)	0	0	0.0%	178	13	1,269.2%	0	0	0.0%	4,429	9,164	-51.7%
AUSTRALIAN DLR (EU)	0	0	0.0%	0	0	0.0%	0	0	0.0%	2	1,146	-99.8%
CHF/USD PQO 2pm Fix	0	0	0.0%	2,504	5,420	-53.8%	0	0	0.0%	36,975	7,877	369.4%
GBP/USD PQO 2pm Fix	257	0	0.0%	376,068	59,550	531.5%	5,002	1,323	278.1%	2,417,695	135,426	1,685.3%
AUD/USD PQO 2pm Fix	0	60	-100.0%	96,025	64,920	47.9%	5,746	2,040	181.7%	1,181,001	101,357	1,065.2%
EUR/USD PQO 2pm Fix	1,818	968	87.8%	792,286	248,305	219.1%	29,946	2,670	1,021.6%	7,061,835	398,256	1,673.2%
JPY/USD PQO 2pm Fix	725	1,300	-44.2%	264,464	144,436	83.1%	34,603	1,319	2,523.4%	2,811,022	211,513	1,229.0%
CAD/USD PQO 2pm Fix	945	0	0.0%	134,316	49,668	170.4%	6,145	510	1,104.9%	1,519,970	101,657	1,395.2%
OTC GBPUSD SUB	0	-	-	8,127	-	-	0	-	-	8,357	-	-
CANADIAN DOLLAR VOL	0	-	-	4,344	-	-	0	-	-	4,643	-	-
OTC AUDUSD SUB	0	-	-	1,871	-	-	0	-	-	2,008	-	-
EURO FX VOL	0	-	-	29,881	-	-	0	-	-	30,767	-	-
JAPANESE YEN VOL	0	-	-	9,119	-	-	0	-	-	9,289	-	-
OTC CADUSD SUB	0	-	-	509	-	-	0	-	-	559	-	-

## CME Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 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>Futures</b>												
LIVE CATTLE	1,342	1,599	-16.1%	1,498,605	1,254,423	19.5%	37,877	35,810	5.8%	15,097,606	12,006,318	25.7%
FEEDER CATTLE	13	11	18.2%	248,088	191,036	29.9%	538	291	84.9%	3,264,471	2,336,306	39.7%
LEAN HOGS	3,438	2,273	51.3%	1,092,958	911,411	19.9%	34,177	25,199	35.6%	10,428,534	8,316,822	25.4%
LUMBER	0	0	0.0%	18,607	13,377	39.1%	0	0	0.0%	185,268	160,759	15.2%
MILK	1,829	318	475.2%	25,474	27,816	-8.4%	2,914	1,475	97.6%	290,709	281,704	3.2%
MLK MID	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
NFD MILK	15	0	0.0%	3,915	4,104	-4.6%	29	13	123.1%	54,958	51,460	6.8%
BUTTER CS	0	0	0.0%	3,548	2,763	28.4%	0	0	0.0%	35,369	35,409	-0.1%
CLASS IV MILK	0	0	0.0%	417	1,418	-70.6%	79	70	12.9%	10,013	12,652	-20.9%
DRY WHEY	0	0	0.0%	1,844	1,821	1.3%	0	0	0.0%	19,079	14,187	34.5%
GSCI EXCESS RETURN FUT	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,065	1,119	-4.8%
GOLDMAN SACHS	0	0	0.0%	33,561	38,412	-12.6%	0	0	0.0%	373,955	323,770	15.5%
HDD WEATHER	0	0	0.0%	0	251	-100.0%	0	0	0.0%	50	579	-91.4%
CDD WEATHER	0	0	0.0%	0	0	0.0%	0	0	0.0%	25	400	-93.8%
HDD SEASONAL STRIP	0	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	0.0%
HDD WEATHER EUROPEAN	0	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	0.0%
HDD EURO SEASONAL STRIP	0	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	0.0%
HOUSING INDEX	0	0	0.0%	2	46	-95.7%	0	0	0.0%	133	139	-4.3%
USD CRUDE PALM OIL	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
CASH-SETTLED CHEESE	0	0	0.0%	15,258	7,325	108.3%	0	6	-100.0%	113,436	108,406	4.6%
MALAYSIAN PALM SWAP	0	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	0.0%
PALM OIL	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%



## CME Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 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>												
LIVE CATTLE	30,719	49,258	-37.6%	215,294	208,829	3.1%	538,580	1,192,939	-54.9%	2,171,611	2,596,173	-16.4%
FEEDER CATTLE	3,012	4,147	-27.4%	25,316	27,088	-6.5%	48,334	50,004	-3.3%	329,777	333,066	-1.0%
LEAN HOGS	35,846	21,607	65.9%	181,941	133,110	36.7%	342,476	398,658	-14.1%	2,050,290	1,611,709	27.2%
LUMBER	1	2	-50.0%	2,714	1,116	143.2%	44	112	-60.7%	14,566	11,384	28.0%
MILK	16,315	13,659	19.4%	25,543	18,506	38.0%	133,144	139,403	-4.5%	259,504	190,147	36.5%
MLK MID	142	168	-15.5%	0	0	0.0%	756	750	0.8%	0	0	0.0%
NFD MILK	1,610	381	322.6%	3,087	956	222.9%	15,909	20,360	-21.9%	32,108	13,223	142.8%
BUTTER CS	926	510	81.6%	2,018	749	169.4%	11,566	10,062	14.9%	9,038	3,302	173.7%
CLASS IV MILK	336	130	158.5%	1,560	943	65.4%	3,291	2,968	10.9%	16,045	9,027	77.7%
DRY WHEY	686	39	1,659.0%	670	36	1,761.1%	3,810	941	304.9%	2,824	91	3,003.3%
HDD WEATHER	0	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	0.0%
HDD SEASONAL STRIP	0	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	0.0%
HDD WEATHER EUROPEAN	0	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	0.0%
HDD EURO SEASONAL STRIP	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
HOUSING INDEX	0	0	0.0%	4	0	0.0%	0	0	0.0%	46	18	155.6%
LV CATL CSO	0	5	-100.0%	0	0	0.0%	1,972	270	630.4%	0	0	0.0%
CASH-SETTLED CHEESE	3,897	5,009	-22.2%	9,474	1,407	573.3%	50,431	57,561	-12.4%	52,729	24,524	115.0%
<b>Foreign Exchange Futures</b>												
CHILEAN PESO	0	0	0.0%	516	0	0.0%	0	6	-100.0%	17,593	4	439,725.0%
<b>Foreign Exchange Options</b>												
OTC AUDUSD SUB	0	-	-	634	-	-	0	-	-	634	-	-

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.



## CME Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 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>TOTAL FUTURES GROUP</b>												
Interest Rate Futures	660,232	918,116	-28.1%	48,063,778	82,268,042	-41.6%	7,007,421	6,234,448	12.4%	578,093,494	579,562,017	-0.3%
Equity Index Futures	22,303	61,717	-63.9%	38,083,291	45,521,769	-16.3%	698,482	1,175,560	-40.6%	421,507,020	519,362,604	-18.8%
FX Futures	198	975	-79.7%	17,358,251	18,727,802	-7.3%	16,281	16,862	-3.4%	189,978,098	178,077,000	6.7%
Commodities and Alternative Inve	6,637	4,201	58.0%	2,942,277	2,454,203	19.9%	75,614	62,864	20.3%	29,874,721	23,650,180	26.3%
Foreign Exchange Futures	0	0	0.0%	516	0	0.0%	0	6	-100.0%	17,593	4	439,725.0%
<b>TOTAL FUTURES</b>	<b>689,370</b>	<b>985,009</b>	<b>-30.0%</b>	<b>106,448,113</b>	<b>148,971,816</b>	<b>-28.5%</b>	<b>7,797,798</b>	<b>7,489,740</b>	<b>4.1%</b>	<b>1,219,470,926</b>	<b>1,300,651,805</b>	<b>-6.2%</b>
<b>TOTAL OPTIONS GROUP</b>												
Equity Index Options	1,408,716	1,111,230	26.8%	14,491,405	15,741,862	-7.9%	12,570,899	12,402,083	1.4%	143,006,561	134,304,300	6.5%
Interest Rate Options	16,353,229	21,814,075	-25.0%	10,388,379	9,851,084	5.5%	187,520,106	186,167,570	0.7%	106,859,703	67,476,548	58.4%
FX Options	3,925	13,698	-71.3%	1,721,641	1,736,153	-0.8%	108,179	261,040	-58.6%	17,797,897	16,190,720	9.9%
Commodities and Alternative Inve	93,490	94,915	-1.5%	467,621	392,740	19.1%	1,150,313	1,874,028	-38.6%	4,938,538	4,792,664	3.0%
Foreign Exchange Options	0	-	-	634	-	-	0	-	-	634	-	-
<b>TOTAL OPTIONS</b>	<b>17,859,360</b>	<b>23,033,918</b>	<b>-22.5%</b>	<b>27,069,680</b>	<b>27,721,839</b>	<b>-2.4%</b>	<b>201,349,497</b>	<b>200,704,721</b>	<b>0.3%</b>	<b>272,603,333</b>	<b>222,764,232</b>	<b>22.4%</b>
<b>TOTAL COMBINED</b>												
Interest Rate	17,013,461	22,732,191	-25.2%	58,452,157	92,119,126	-36.5%	194,527,527	192,402,018	1.1%	684,953,197	647,038,565	5.9%
Equity Index	1,431,019	1,172,947	22.0%	52,574,696	61,263,631	-14.2%	13,269,381	13,577,643	-2.3%	564,513,581	653,666,904	-13.6%
FX	4,123	14,673	-71.9%	19,079,892	20,463,955	-6.8%	124,460	277,902	-55.2%	207,775,995	194,267,720	7.0%
Commodities and Alternative Inve	100,127	99,116	1.0%	3,409,898	2,846,943	19.8%	1,225,927	1,936,892	-36.7%	34,813,259	28,442,844	22.4%
Foreign Exchange	0	0	0.0%	1,150	0	0.0%	0	6	-100.0%	18,227	4	455,575.0%
<b>GRAND TOTAL</b>	<b>18,548,730</b>	<b>24,018,927</b>	<b>-22.8%</b>	<b>133,517,793</b>	<b>176,693,655</b>	<b>-24.4%</b>	<b>209,147,295</b>	<b>208,194,461</b>	<b>0.5%</b>	<b>1,492,074,259</b>	<b>1,523,416,037</b>	<b>-2.1%</b>