

Market Comment | EUR at its highest against the USD since 2014

Global Financial Markets Unit 28 Aug 2017

- The low trading volume environment remained after the Jackson Hole meeting, with financial markets
 little changed around the globe with one significant exception: during the weekend the EUR broke its
 highest level since 2014 against the US and this trend persisted today. Moreover, the lack of economic
 releases and important events also contributed to underpin the calm mood of investors.
- The EUR climbed to its highest level in two and a half years, following the recent upward trend in the exchange rate, after the speeches of major central bankers in the Jackson Hole symposium. Janet Yellen (see) did not mention financial stability in the US as a key issue that could influence the Fed's upcoming monetary policy normalization (as some analysts were expecting) while Mario Draghi (see) did not appear concerned about the recent upward trend in the EUR.
- Gasoline prices soared as Hurricane Harvey (the most powerful in Texas in 50 years) advanced and
 forced US refineries to shut down, and the US has lost 10-15% of its fuel-making capacity during the past
 few days (see). Meanwhile, in the US, the energy and insurance sectors were the worst performers.
- Equity and bond markets were little changed across the board. Sovereign bond yields edged down, while US stocks inched up despite Hurricane Harvey and share prices in the EZ inched down due to the pressure of a stronger EUR.
- The GBP slightly appreciated as the UK entered the third round of Brexit talks with the EU, while the Labour party called for the UK to remain in the single market for an extended period of time.
- EM currencies were little changed, with the exception of the MXN, which depreciated significantly against the USD, following critical comments from **Donald Trump** about NAFTA and his insistence on building a wall along the Mexican border (see).

Update 18 CET 28 August, 2017 Table 1



Debt markete	(10Y % d	ennes in t	n)		
Developed Markets US (2-yr)	level 1.34	Daily 0.6		Month	YTD
US	2.17	0.3	3.6 -1.2	-14	-27
GER (2-yr) Germany	-0.74 0.38	-1.4 -0.4	-2.7 -2.4	-7 -16	3 2
France Spain	0.69 1.60	-0.1 -0.8	-0.4 5.4	-41	-12 3
Italy Portugal	2.08	-1.9 -0.9	4.9	-1 -9	21
Greece	5.54	0.0	11.4 -7.9	22	-131 -134
Japan (2-yr) Japan	-0.15 0.01	-0.2 -2.0	-2.0 -6.2	-4 -5	-5
Emerging Markets Brazil	10.10	Daily -1.6	-10.0	Monthly 11	-131
Chile	4.40 6.72	6.1	2.1	10	-37
Colombia Mexico	6.85	0.0 2.7	5.1	-23 -1	-79
Peru Poland	5.17 3.29	-2.4 -0.6	-9.2 -2.1	-21 -2	-130 -43
Russia	7.88 10.29	6.1	7.1	-5	-56 -71
Turkey India	6.57	3.0	5.8	13	19
Indonesia Country ri	6.78 isk (bp. chang	-2.8 es in bp)	-11.8	-17	-106
Developed Markets	level	Daily	Weekly	Monthly	YTD
10-yr so vereign spread vs Germany France	32	0.3	2.0	5	-14
Italy Portugal	171	-1.5 -0.5	7.3 13.8	15	19 -106
Spain	123	-0.5	7.8	7	-106
2-yr sovereign spread vs Germany France	24	-0.1	-0.2	-2	13
Italy	60	1.3	6.4	12	-1
Portugal Spain	79 41	-2.3 0.3	2.0 5.1	2	-67 -7
Emerging Markets	level	Daily	Weekly	Monthly	YTD
5-yr sovereign CDS * Brazil	196	1.3	-5	-15	-76
Chile Colombia	61 126	-0.2 -1.4	-1 -4	-6 -4	-21 -37
Mexico	104	-1.0	-4	0	-53
Peru Venezuela	77 6,123	-0.3 -365.7	-41	-6 1100	-31 2217
Poland	56	-0.5	-2	-4	-19
Russia Turkey	145 170	0.3 -3.0	-5 -8	-17 -13	-31 -103
China India	59 82	-3.0 -2.0	-7 -4	-5 -1	-58 -45
Indonesia	104	-3.3	-7	-1 -8	-45 -52
Ri Volatilty indicators (%)	sk indicators level	Daily	Weekly	Monthly	YTD
VIX	12	3.2	-12	Monthly 15	0
VSTOXX EM EFT volatility Index	16 17	3.4	-15 -7	24 15	-1 -16
Dollar/euro volatility	8	2.0	-4	6	-24
EM FX volatility index Credit spread (BAA) (bps)	7 212	1.0 -0.5	-2 0	-4 4	-35 -15
US bonds volatility index	51	-3.7	-3	4	-34
US	level 57	Daily -0.3	Weekly -1	Monthly 5	YTD -15
EZ UK	59 49	-0.9 -0.4	1	6	-49 -41
Large Spanish	58	-0.7	2	9	-59
Medium Spanish Corporate 5y CDS (bps) *	92 level	-0.1 Daily	1 Weekly	-1 Monthly	-59 YTD
US Non-financial	144	-0.3	-1	5	-15
EZ Non-financial UK Non-financial	76 109	-0.9 -0.2	1 -2	6	-49 -16
Interbank ma		inges in bj			
EONIA Index	-0.36	Daily 0.00	Weekly 0.0	Monthly 0.0	9TD 0.0
Euribor 3m	-0.33	0.00	0.0	0.0	0.0
Euribor 12m Libor 3m	-0.16 1.32	0.00	0.0	0.0	-0.1 0.3
Libor 12m	1.73	0.00	0.0	0.0	0.0
	ck markets (
Main indices				Monthly	YTD
SCREOO	2.442	0.0	0.6	1	
S&P500 Dow Jones	2,443 21,809	0.0	0.6	-1 0	9
S&P500 Dow Jones Nikkei	21.809 19,450 7,401	0.0 0.0 0.0	0.6 0.5 0.3 1.1	-1	9
S&P500 Dow Jones Nikkel FTSE 100 EuroStoxx 50	21,809 19,450 7,401 3,421	0.0 0.0 0.0 0.0 -0.5	0.6 0.5 0.3 1.1 -0.1	-1 0 -3 -1 -2	9 -1 3
S&P500 Dow Jones Nikkei FTSE 100 EuroStoxx 50 IBSX DAX	21,809 19,450 7,401 3,421 10,286 12,123	0.0 0.0 0.0 0.0 -0.5 -0.6 -0.4	0.6 0.5 0.3 1.1 -0.1 -0.7 0.5	1 0 3 1 2 -3 1	9 -1 3 3 9
S&P500 Dow Jones Nilded FTSE 100 EuroStoxx 50 IBEX	21.809 19.450 7.401 3.421 10,286 12.123 5,080 21,726	0.0 0.0 0.0 0.0 -0.5 -0.6	0.6 0.5 0.3 1.1 -0.1 -0.7	-1 0 -3 -1 -2 -3	9 -1 3 3 9
S&P500 Dow Jones Nikked FTSE 100 EuroStoxx 50 IBEX DAX CAC MIB ASE Athens	21,809 19,450 7,401 3,421 10,286 12,123 5,080 21,726 838	0.0 0.0 0.0 0.0 -0.5 -0.6 -0.4 -0.5 -0.1	0.6 0.5 0.3 1.1 -0.1 -0.7 0.5 -0.2 -0.1 1.5	-1 0 -3 -1 -2 -3 -1 -2 0 2	9 -1 3 3 9 5 4 11 28
SAP500 Dow Jones Nikkel FTSE 100 EuroStoxx 50 IBEX DAX CAC MIB ASE Athens MSCI Latam* Ibovespel (Brazil)	21,809 19,450 7,401 3,421 10,286 12,123 5,080 21,726 838 83,000 71,264	0.0 0.0 0.0 0.0 -0.5 -0.6 -0.4 -0.5 -0.1 0.4 0.0	0.6 0.5 0.3 1.1 -0.1 -0.7 0.5 -0.2 -0.1 1.5 2.2 3.8	-1 0 -3 -1 -2 -3 -1 -2 0	9 -1 3 3 9 5 4 11 28 13
SAP500 Dow Jones Nākol FTSE 100 EuroStoxx 50 IBIX DAX GAR ANS Athens MSCI Latens* Ibovespa (Brazil) Mexbol	21,809 19,450 7,401 3,421 10,286 12,123 5,080 21,726 838 83,000 71,264 51,061	0.0 0.0 0.0 0.0 -0.5 -0.6 -0.4 -0.5 -0.1 0.4 0.0 0.3 -0.6	0.6 0.5 0.3 1.1 -0.1 -0.7 0.5 -0.2 -0.1 1.5 2.2 3.8 -0.4	-1 0 -3 -1 -2 -3 -1 -2 0 2 5 9	9 -1 3 3 9 5 4 11 28 13 16
SAP500 Dowl Jones Naket FFEE 100 EuroStatous 50 IIISX DAX CAK MIR	21,809 19,450 7,401 3,421 10,286 12,123 5,080 21,726 838 83,000 71,264 51,061 5,132 2,531	0.0 0.0 0.0 0.0 0.5 -0.6 -0.4 -0.5 -0.1 0.0 0.3 -0.6 0.4 2.4	0.6 0.5 0.3 1.1 -0.1 -0.7 0.5 -0.2 -0.1 1.5 2.2 3.8 -0.4 2.9 6.5	-1 0 -3 -1 -2 -3 -1 -2 0 2 5 9 0 3 8	9 -1 3 3 9 5 4 11 28 13 16 10 2
SAPPOO Dowl Jones Notes TEST 100 Eart Silver AN A	21,809 19,450 7,401 3,421 10,286 12,123 5,080 21,726 838 83,000 71,264 51,061 5,132 2,531 1,987	0.0 0.0 0.0 0.0 0.5 -0.6 -0.4 -0.5 -0.1 0.4 0.0 0.3 -0.6 0.4 2.4 0.5	0.6 0.5 0.3 1.1 -0.1 -0.7 0.5 -0.2 -0.1 1.5 2.2 3.8 -0.4 2.9 6.5 2.6 1.6	-1 0 -3 -1 -2 -3 -1 -2 0 2 5 9 0 3 8 2 2	9 -1 3 3 9 5 4 11 28 13 16 10 2 27 -12
SAPPOO Dowl Jones Notes TEST 100 Eard Store ST 100 Eard ST 100 Ear	21,809 19,450 7,401 3,421 10,286 12,123 5,080 21,726 838 83,000 71,264 51,061 5,132 2,531 1,987 110,340 867	0.0 0.0 0.0 0.0 0.0 0.5 -0.6 -0.4 -0.5 -0.1 0.0 0.3 -0.6 0.4 2.4 0.5	0.6 0.5 0.3 1.1 -0.1 -0.7 0.5 -0.2 -0.1 1.5 2.2 3.8 -0.4 2.9 6.5 2.6 1.6 1.8	-1 0 -3 -1 -2 -3 -1 -2 0 2 5 9 0 3 8 2 2	9 -1 3 3 9 5 4 11 28 13 16 10 2 27 -12 45 25
SAPPOO Dowl Jones Notes TEST 100 Eart Silver AN A	21,809 19,450 7,401 3,421 10,286 12,123 5,080 21,726 838 83,000 71,264 51,061 5,132 2,531 1,987	0.0 0.0 0.0 0.0 0.0 0.0 0.5 -0.6 -0.4 0.0 0.3 -0.6 0.4 2.4 0.4 0.5 0.1	0.6 0.5 0.3 1.1 -0.1 -0.7 0.5 -0.2 -0.1 1.5 2.2 3.8 -0.4 2.9 6.5 2.6 1.6	-1 0 -3 -1 -2 -3 -1 -2 0 2 5 9 0 3 8 2 2	9 -1 3 3 9 5 4 11 28 13 16 10 2 27 -12
SAPPOO Down Jones Noted To Down Jones Noted To Down Jones Noted To Down Jones BEX DAX CAC MASS Alberts Berry March March Mobil	21,809 19,450 7,401 3,421 10,286 12,123 5,080 21,726 83,000 71,264 51,061 5,132 2,531 1,987 110,340 867	0.0 0.0 0.0 0.0 0.0 0.5 -0.6 -0.4 0.5 -0.1 0.4 0.0 0.3 -0.6 0.4 2.4 0.4 0.5	0.6 0.5 0.3 1.1 -0.1 -0.7 0.5 -0.2 -0.1 1.5 2.2 3.8 -0.4 2.9 6.5 1.6 1.8 2.3 0.2 Weekly	-1 0 -3 -1 -2 -3 -1 -2 0 2 5 9 0 3 8 2 2	9 -1 3 3 9 5 4 11 28 13 16 10 2 27 -12 45 25 6
\$46900 Down Jones Noted FFSE TOO DOWN JONES NOTED DAY CAC CAC MIDEN ASE Affers MOSC Latan MOSC Lata	21.809 19.450 7.401 3.421 10.286 12.123 5.080 21.726 838 83.000 71.264 51.061 5.132 2.531 1.987 110.340 867 3.363 5.903 level 121.9	0.0 0.0 0.0 0.0 0.5 -0.4 -0.5 -0.1 0.0 0.3 -0.6 0.4 0.5 0.4 0.5 0.4 0.9 0.2 2.4 0.9 0.2 0.2 0.2 0.2 0.6 0.6	0.6 0.5 0.3 1.1 -0.1 -0.7 0.5 -0.2 -0.1 1.5 2.2 3.3 0.4 2.9 6.5 1.6 1.6 1.6 1.8 2.3 0.2 Weekly 1.2 0.8	-1 0 -3 -1 -2 -3 -1 -2 0 2 5 9 0 3 8 2 2 1 1 3 2 2 Monthly -2 0	9 -1 3 9 5 4 11 28 13 16 10 2 7 -12 45 25 6 12 YTD 2
SAEPBO Down Jones 1986 1986 1986 1986 1987 1987 1987 1987 1987 1987 1987 1987	21,809 19,450 7,401 3,421 10,286 12,286 12,726 83,000 71,264 51,061 51,132 2,531 10,987 110,340 867 3,363 5,903 level	0.0 0.0 0.0 0.0 0.5 0.4 0.5 0.1 0.0 0.3 0.6 0.4 2.4 0.5 0.1 0.9 0.2 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0.6 0.5 0.3 1.1 -0.1 -0.5 -0.2 -0.1 1.5 2.2 3.8 -0.4 2.9 6.5 2.6 1.6 1.8 2.3 0.2 -0.5 -0.5 -0.2 -0.1 -0.5 -0.2 -0.1 -0.5 -0.2 -0.1 -0.5 -0.2 -0.1 -0.5 -0	-1 0 -3 -1 -2 -3 -1 -2 0 2 5 9 0 3 8 2 2 1 1 3 2 2 Monthly -2	9 -1 3 3 9 5 4 11 28 13 16 10 2 27 -12 45 25 6 12 YTD 2
SAPPOO Down Jones Noted: Noted	21.809 19.450 7.401 3.421 10.286 12.123 5.080 21.726 838 83.000 71.264 51.061 5.132 2.531 1.987 110.340 86.7 3.363 5.903 1evel 121.9 91.4 46.6 23.6 45.6	0.0 0.0 0.0 0.0 0.5 0.6 0.4 0.5 0.1 0.4 0.5 0.4 0.5 0.1 0.9 0.2 Daily 0.8 0.6 0.4 0.7 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0.6 0.5 0.3 1.1 -0.7 0.5 -0.2 -0.1 1.5 2.2 3.8 -0.4 2.9 6.5 2.6 1.6 1.8 2.3 0.2 Weekly 1.2 0.8 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	-1 0 -3 -1 -2 -3 -1 -2 5 9 0 3 8 2 2 1 1 3 2 Monthly -2 0 0 -2 -3	9 -1 3 3 9 5 4 11 28 13 16 10 2 27 -12 45 25 6 12 YTD 2 5 10 3 4
SAPPOO Down Jones Noted To Down Jones Noted To Down Jones Noted To Down Jones BEX DAX CAC MERCAN ASK Affects Mercan Merca	21.809 19.450 7.401 3.421 10.286 12.123 5.080 21.726 83.8 83.000 71.264 51.061 5.132 2.531 1.987 110.340 867 3.363 5.903 1evel 121.9 94.67.6 23.6 45.5 219.6 45.5 219.6	0.0 0.0 0.0 0.0 0.0 0.5 0.6 0.4 0.5 0.1 0.4 0.0 0.3 0.6 0.4 0.5 0.6 0.4 0.5 0.6 0.4 0.5 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.6 0.5 0.3 1.1 -0.1 -0.7 0.5 -0.2 -0.1 1.5 2.2 3.8 -0.4 2.9 6.5 2.6 1.6 1.8 2.3 0.2 Weekly 1.2 0.8 2.1 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	-1	9 -1 3 3 9 5 4 11 28 13 16 10 2 27 -12 45 25 6 12 YTD 2 5 10 6 12 6 16 6
SAPPOO DOWN Jones Noted	21,809 19,450 7,401 3,421 10,286 12,123 5,261 838 83,000 71,264 51,132 2,531 1,987 3,363 1evel 121,9 91,4 67,6 23,6 45,5 112,3	0.0 0.0 0.0 0.0 0.5 -0.6 -0.4 -0.5 -0.1 0.4 0.0 0.3 -0.6 0.4 0.5 0.1 0.9 0.2 Daily -0.8 -0.4 -0.7 -0.9	0.6 0.5 0.3 1.1 -0.1 -0.7 0.5 -0.2 -0.1 1.5 1.5 2.2 3.8 -0.4 2.9 6.5 1.6 1.8 2.3 0.2 Weekly 1.2 0.8 2.5 1.0 1.9 -0.5 -0.9	-1 0 -3 -1 -2 -3 -1 -2 5 9 0 3 8 2 2 1 1 3 2 Monthly -2 0 0 -2 -3	9 -1 3 9 5 4 11 28 13 16 10 2 27 -12 25 6 12 YTD 2 5 10 3 4 -10
SAPPOO Down Jones Noted Noted Noted Down Jones Noted MSC Latam * Noted Noted Noted Model	21,809 19,450 7,401 3,421 10,286 12,123 50,000 21,726 838 83,000 71,264 51,32 2,531 1,987 110,340 867 3,363 5,903 level 121,9 91,4 67,6 23,6 45,5 219,6 112,3	0.0 0.0 0.0 0.0 0.0 0.5 0.5 0.1 0.4 0.4 0.4 0.5 0.1 0.9 0.2 0.8 0.6 0.4 0.4 0.4 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0.6 0.3 1.1 0.7 0.7 0.7 0.2 0.1 1.5 0.2 0.1 1.5 0.2 0.4 2.9 0.6 1.8 2.3 0.2 Weekly 1.2 0.8 2.5 1.0 0.9 1.1 1.0 0.9 0.9 1.1 1.0 0.9 0.9 1.1 1.0 0.9 0.9 1.1 1.0 0.9 0.9 1.1 1.0 0.9 0.9 1.1 1.0 0.9 0.9 1.1 1.0 0.9 0.9 1.1 1.0 0.9 0.9 1.1 1.0 0.9 0.9 1.1 1.0 0.9 0.9 1.1 1.0 0.9 0.9 1.1 1.0 0.9 0.9 1.1 1.0 0.9 0.9 1.1 1.0 0.9 0.9 1.1 1.0 0.9 0.9 1.1 1.0 0.9 0.9 1.1 1.0 0.9 0.9 1.1 1.0 0.9 0.9 1.1 0.9 0.9 1.1 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -	9 -1 3 3 9 5 4 111 28 8 13 16 10 2 27 -12 5 6 12 YTD 2 5 5 10 3 4 4 -10 6 6 2 2 2 2 -16 16
SAPPOO Down Jones Noted 100 Face Town So IBEX DAX CAC MRS JENES MR	21,809 19,450 7,401 3,421 10,286 12,123 5,080 21,726 838 83,000 71,264 51,061 5,132 2,531 1,987 110,340 867 3,363 5,903 Level 121,9 91,4 67,6 67,6 112,3 64,0 15,0 13,7 14,9	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.6 0.3 1.1 0.7 0.1 0.7 0.2 0.1 1.5 0.2 0.1 1.5 2.2 2.8 0.4 2.9 1.6 1.6 1.8 2.3 0.2 Westly 1.2 0.8 2.5 1.0 0.9 0.1 1.1 1.0 0.9 1.1 1.0 0.9 1.1 1.1 1.1 1.1	-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -	9 -1 3 3 3 9 5 4 111 28 13 16 10 2 27 -112 45 5 10 3 4 4 -10 6 6 2 2 2 -16 7 13
SAPPO Down Jones Noted N	21,809 19,450 7,401 3,421 10,286 12,122 5,080 21,726 838 83,080 71,264 51,061 15,132 2,531 119,87 110,340 12,19 91,4 67,6 23,36 45,50 121,9 91,4 67,6 23,6 45,5 21,6 21,6 21,6 21,6 21,6 21,6 21,6 21,6	0.0 0.0 0.0 0.0 0.0 0.0 0.5 0.5 0.4 0.5 0.1 0.3 0.6 0.4 0.5 0.1 0.5 0.1 0.5 0.4 0.5 0.4 0.5 0.5 0.4 0.5 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.6 0.3 1.1 0.1 0.7 0.7 0.5 0.2 0.1 1.5 0.2 0.1 1.5 2.2 0.1 1.5 2.2 0.8 0.4 2.9 0.8 1.2 0.8 2.1 0.0 0.9 0.1 1.1 0.0 0.0 0.1 0.1 0.1 0.0 0.1 0.1	-1	9 -1 3 3 3 9 5 4 111 28 13 16 10 2 27 12 45 25 10 3 3 4 -10 6 6 2 22 -16 7 13 -3 -3 -3 -3
SAPPOO DOWN Jones Noted	21,809 19,450 7,401 3,421 10,286 12,122 838 83,080 21,726 838 83,080 71,264 51,061 15,132 2,531 119,87 110,340 12,19 91,4 67,6 23,6 45,0 24,0 112,9 91,4 67,6 23,6 45,0 112,3 64,0 113,7 14,9 2,9 14,0 15,0 11,0 11,0 11,0 11,0 11,0 11,0 11	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.5 0.4 0.5 0.1 0.3 0.6 0.4 0.4 0.5 0.1 0.5 0.1 0.5 0.4 0.5 0.5 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.6 0.5 0.3 1.1 -0.1 -0.1 -0.7 -0.2 2.2 3.8 -0.4 2.9 6.5 1.6 1.8 2.3 0.2 Weekly 1.2 0.8 2.5 1.0 1.9 0.5 0.9 0.1 1.1 1.0 0.7 0.0 0.1 0.7	-1	9 -1 -3 -3 -3 -9 -5 -4 -11 -28 -13 -16 -10 -2 -2 -16 -7 -10 -6 -2 -2 -16 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7
SAPPOO Down Jones Noted To Down Jones Noted To Down Jones Noted To Down Jones I DEX CAC CAC SAE Alberts MASC Alb	21,809 19,450 7,401 3,421 10,286 12,123 5,080 21,726 838 83,000 71,264 51,132 2,531 1,987 110,340 867 3,363 5,903 level 121,9 91,4 67,6 67,6 67,6 112,3 112,	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.6 0.5 0.3 1.1 -0.1 -0.1 -0.7 -0.5 -0.2 -0.1 1.5 -0.2 -0.8 -0.9 -0.5 -0.9 -0.9 -0.1 -0.9 -0.9 -0.9 -0.9 -0.9 -0.9 -0.9 -0.9	-1	9 -1 -3 -3 -3 -9 -5 -4 -11 -28 -13 -16 -10 -2 -27 -12 -5 -6 -12 -27 -10 -6 -2 -22 -16 -7 -7 -13 -3 -27 -7 -0 -11 -9 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10
SAPPO Down Jones Noted N	21,809 19,450 7,401 10,266 838 838 83,000 71,264 83,000 71,264 83,000 86,7 86,7 87,264 86,7 87,264 87,264 88,100 88,100 88,100 88,1000	0.0 0.0 0.0 0.0 0.0 0.0 0.5 0.6 0.4 0.5 0.0 0.3 0.6 0.4 2.4 0.5 0.2 0.3 0.6 0.4 0.4 0.5 0.1 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.6 0.5 0.3 1.1 0.1 1.0 0.7 0.7 0.5 0.2 0.7 0.5 0.2 0.1 1.5 0.2 2.2 3.8 0.4 2.9 0.4 2.9 1.2 0.8 0.8 1.2 0.8 1.0 0.9 0.1 1.0 0.9 0.1 1.0 0.9 0.1 1.0 0.9 0.1 1.0 0.1 0.7 0.1 0.7 0.1 0.7 0.7 0.0 0.5 0.5 0.5 0.5 0.5 0.5 0.6 0.6 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	-1	9 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
SAPPOO DOWN Jones Noted Noted Noted Noted DOWN Jones Noted DOWN JONES NOTED DOWN JONES NOTED DOWN JONES NOTED NOTE	21,009 7,001 10,266 7,001 10,266 838 838 83,000 71,264 836 867 83,000 11,204 845 85,000 121,9 144,9 145,9 145,9 145,9 145,9 146,9 147,9 147,9 148,9 148,9 148,9 149,9 14	0.0 0.0 0.0 0.0 0.0 0.0 0.5 0.5 0.6 0.4 0.5 0.1 0.4 0.5 0.1 0.4 0.5 0.1 0.4 0.5 0.1 0.9 0.2 0.8 0.6 0.4 0.4 0.7 0.9 0.2 0.8 0.6 0.6 0.4 0.7 0.9 0.8 0.6 0.6 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.6 0.5 0.3 1.1 0.1 1.1 0.7 0.5 0.2 0.7 0.5 0.2 0.1 1.5 0.2 2.2 3.8 0.4 2.9 0.4 2.9 1.2 0.8 1.2 0.8 1.2 0.8 1.0 0.1 1.1 0.9 0.1 1.1 0.9 0.1 1.1 0.9 0.1 1.1 0.9 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	-1	9 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
SAPPOO DOWN Jones Nobel	21,009 7,401 10,266 838 83,000 7,1,261 83,000 7,1,264 83,000 7,1,264 83,000 7,1,264 83,000 867 110,340 867 121,99 121,99 121,99 121,90	0.0 0.0 0.0 0.0 0.5 -0.6 -0.4 -0.5 -0.1 0.4 0.5 0.6 0.4 2.4 0.5 0.2 0.9 0.8 0.6 0.4 0.5 0.6 0.4 0.5 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.6 0.5 0.3 1.1 -0.1 -0.1 -0.7 1.5 0.2 2.8 0.4 2.9 0.4 2.9 0.5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	-1	9 -1 -1 -3 -3 -3 -9 -5 -4 -1 -1 -2 -5 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
SAPPO Down Jones Noted N	21,009 7,001 10,266 3,421 10,266 8880 5,888 8880 8880 8880 8880 8880 888	0.0 0.0 0.0 0.0 0.0 0.0 0.5 0.4 0.5 0.1 0.4 0.5 0.1 0.6 0.4 0.4 0.5 0.1 0.9 0.2 0.8 0.6 0.4 0.4 0.5 0.1 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.6 0.5 0.3 1.1 0.1 1.1 0.7 0.5 0.2 0.1 1.5 2.2 3.8 2.5 2.6 1.6 1.8 2.3 0.2 2.1 1.0 1.0 1.0 1.1 1.0 0.7 1.2 0.5 0.0 0.7 1.2 0.5 0.0 0.7 1.2 0.5 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.7 0.7 0.7 0.7 0.7 0.8 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	-1	9 1 3 3 3 9 5 4 11 128 13 13 16 110 12 2 2 5 6 12 2 17 10 3 4 4 -10 6 6 2 2 2 -16 6 7 7 13 3 -2 7 0 0 11 1 8 14 10 10
SAPPO Down Jones Noted N	21,809 7,401 10,286 3,421 10,286 8,300 8,300 10,281	0.0 0.0 0.0 0.0 0.0 0.0 0.5 0.6 0.4 0.5 0.1 0.4 0.6 0.3 0.6 0.4 0.4 0.5 0.1 0.9 0.2 0.8 0.6 0.4 0.4 0.5 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.6 0.5 0.3 1.1 -0.1 -0.1 -0.7 0.5 -0.2 -0.1 1.5 -0.2 -0.1 1.5 -0.2 -0.6 -0.6 -0.6 -0.7 -0.7 -0.0 -0.7 -0.7 -0.7 -0.7 -0.7	-1	9 1 3 3 3 9 5 4 11 128 13 16 110 10 12 2 2 5 10 3 4 4 10 6 6 2 2 2 116 7 7 13 3 2 7 7 0 11 1 8 14 10 33 34 34
SAPPOO Down Jones Noted to	21,809 7,401 10,286 7,401 10,286 801 11,100	0.0 0.0 0.0 0.0 0.0 0.0 0.5 0.6 0.4 0.5 0.1 0.4 0.5 0.1 0.4 0.5 0.1 0.5 0.1 0.9 0.2 0.8 0.6 0.4 0.7 0.9 0.2 0.8 0.6 0.4 0.7 0.9 0.2 0.8 0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.6 0.5 0.3 1.1 0.1 1.1 0.7 0.5 0.2 0.1 1.5 2.2 0.1 1.5 2.2 0.1 1.5 2.2 0.1 1.5 2.2 0.1 1.5 0.2 0.1 1.5 0.2 0.1 1.5 0.2 0.1 1.5 0.2 0.1 1.5 0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	-1 -1 -2 -3 -1 -1 -2 -5 -6 -4 -4 -4 -0 -5 -4 -4 -4 -0 -5 -4 -4 -4 -0 -5 -4 -4 -4 -0 -5 -4 -4 -4 -0 -5 -4 -4 -4 -0 -5 -4 -4 -4 -0 -5 -4 -4 -4 -0 -5 -4 -4 -4 -0 -5 -4 -4 -4 -0 -5 -4 -4 -4 -0 -5 -4 -4 -4 -0 -5 -4 -4 -4 -0 -5 -4 -4 -4 -0 -5 -4 -4 -4 -0 -5 -4 -4 -4 -0 -5 -4 -4 -4 -4 -0 -5 -4 -4 -4 -4 -0 -5 -4 -4 -4 -4 -0 -5 -4 -4 -4 -4 -0 -5 -4 -4 -4 -4 -0 -5 -4 -4 -4 -4 -0 -5 -4 -4 -4 -4 -0 -5 -4 -4 -4 -4 -0 -5 -4 -4 -4 -4 -0 -5 -4 -4 -4 -4 -0 -5 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4	9 1 3 3 9 5 4 111 28 13 16 10 2 2 7 112 5 6 6 12 12 12 12 12 12 12 12 12 12 12 12 12
SAPPOO DOWN Jones Noted	21,809 7,401 10,286 3,421 10,286 83,000 83,000 11,0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.5 0.6 0.4 0.0 0.0 0.3 0.6 0.4 0.4 0.5 0.1 0.9 0.2 0.1 0.9 0.1 0.9 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.6 0.5 0.3 1.1 0.1 1.1 0.7 0.5 0.2 0.1 1.5 1.2 2.9 6.5 1.6 1.8 2.3 2.3 2.4 2.5 1.0 0.1 1.0 0.1 0.7 1.0 0.0 0.1 1.0 0.0 0.1 0.1 0.7 0.0 0.0 0.1 0.0 0.1 0.0 0.0 0.1 0.0 0.0	-1	9 -1 3 3 3 9 5 4 111 28 13 16 10 2 27 -12 5 6 6 12 27 12 5 5 10 3 4 4 12 12 12 12 12 12 12 12 12 12 12 12 12
SAPPOO DOWN Jones Noted	218,099 19,450 7,401 19,450 7,401 10,286 80,100 21,726 81,000 81,726 81,000 81,726 82,726 83,000 867 87 887 887 887 887 887 887 887 887	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.6 0.5 0.3 1.1 0.1 0.1 0.7 0.5 0.2 0.0 0.1 0.2 0.1 0.1 0.2 0.1 0.1 0.2 0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -	9 -1 3 3 9 9 5 4 11 28 13 16 10 2 7 7 12 5 6 6 12 2 7 5 10 3 3 4 4 10 7 10 11 11 11 11 11 11 11 11 11 11 11 11
SAPPO Down Jones Nobed N	221,809 7,401 19,450 7,401 19,450 7,401 19,450 19,4	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.6 0.5 0.3 1.1 0.1 0.1 0.7 0.5 0.2 0.0 0.1 0.2 0.1 0.1 0.2 0.2 0.1 0.1 0.2 0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -	9 -1 3 3 3 9 5 4 111 28 13 16 10 2 27 -12 5 6 6 12 27 12 5 5 10 3 4 4 12 12 12 12 12 12 12 12 12 12 12 12 12
SAPPBO DOWN Jones I Rosel I R	221,809 19,450 7,401 19,450 7,401 10,286 81,002 11,726 83,002 11,726 83,002 11,726 83,002 11,726 83,002 11,726 83,002 11,726 83,002 11,726 11,726 11,726 11,726 11,726 11,726 11,726 11,726 11,726 11,726 11,726 11,726 11,726 11,726 11,726 11,726 11,726 11,727 11,	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.6 0.3 0.3 1.1 0.1 0.1 0.1 0.7 0.5 0.2 0.5 0.2 0.1 0.1 0.1 0.1 0.2 0.2 0.3 0.2 0.3 0.2 0.3 0.2 0.3 0.2 0.3 0.3 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	-1 -1 -2 -3 -1 -1 -2 -5 -6 -4 -4 -6 -6 -4 -6 -6 -1 -2 -5 -4 -6 -6 -1 -5 -4 -6 -6 -6 -1 -5 -4 -6 -6 -6 -6 -6 -6 -6 -6 -6 -6 -6 -6 -6	9 -1 3 3 9 9 5 4 111 28 13 16 10 2 7 7 12 2 5 5 10 13 4 4 110 6 6 2 2 2 116 7 7 13 3 4 10 10 11 18 14 10 33 34 5 5 0
SAPPOO DOWN Jones Noted	218.09 (19.45)	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.6 0.5 0.3 1.1 0.1 0.1 1.1 0.7 0.2 0.8 0.8 0.8 0.9 0.1 1.5 0.2 0.9 0.1 1.5 0.0 0.1 1.5 0.0 0.1 1.5 0.0 0.1 1.5 0.0 0.1 1.0 0.1 1.0 0.1 0.1 0.1 0.1 0.1	-1	9 -1 3 3 9 9 5 4 111 28 13 16 10 2 7 7 12 2 4 5 5 2 5 5 10 13 3 4 4 110 6 6 2 2 2 116 7 7 13 3 3 4 10 10 11 11 11 11 11 11 11 11 11 11 11
SAPPBO Down Jones Noted	21,809 7,401 10,826 7,401 10,826 10,8	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.6 0.5 0.3 0.5 0.3 1.1 0.1 0.1 0.1 0.5 0.2 0.2 0.1 1.5 0.2 0.1 1.5 0.2 0.4 2.9 0.4 2.9 0.4 0.1 1.5 0.2 0.8 0.2 0.8 0.2 0.8 0.2 0.8 0.3 0.2 0.8 0.3 0.2 0.8 0.3 0.2 0.8 0.3 0.2 0.8 0.3 0.2 0.8 0.3 0.2 0.8 0.3 0.2 0.8 0.3 0.2 0.8 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -	9 -1 -3 -3 -3 -9 -5 -4 -1 -1 -5 -5 -5 -5 -1 -1 -1 -5 -5 -7 -1 -1 -5 -7 -7 -2 -2 -7 -2 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
SAPPOO DOWN Jones Noted	221,809 19,450 7,401 19,450 7,401 19,450 19,	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.6 0.5 0.3 0.1 0.7 0.7 0.7 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	-1	9 1 3 3 9 5 4 1 1 2 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1
SAPPBO DOWN Jones Noted	221,809 19,450 7,401 19,450 7,401 10,286 81,002 11,726 81,	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.6 0.3 0.3 0.5 0.3 0.5 0.1 0.7 0.7 0.5 0.2 0.6 0.1 1.5 0.7 0.6 0.8 0.8 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	-1 -1 -2 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3	9 1 3 3 4 11 128 136 16 10 2 7 7 7 10 17 1
SAPPOO DOWN Jones Nobed	221,809 7,401 19,450 7,401 19,450 7,401 19,450 10,123 10,123 11,125 11,1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.6 0.5 0.3 0.5 0.6 0.7 0.7 0.7 0.7 0.7 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	-1 -1 -2 -3 -3 -1 -2 -2 -3 -3 -1 -3 -2 -2 -3 -1 -3 -3 -3 -1 -1 -1 -2 -3 -3 -1 -1 -1 -2 -3 -3 -1 -1 -1 -1 -2 -3 -3 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	9 -1 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3
SAPPOO DOWN Jones I Noted I No	21,809 19,450 7,401 19,450 7,401 19,450 19,450 19,150 19,150 19,160 19,160 19,160 19,160 19,160 19,160 19,160 19,160 19,160 19,160 19,160 19,160 19,160 19,160 19,160 19,160 19,160 19,160 19,170 19,1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.6 0.3 0.5 0.5 0.5 0.5 0.6 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -	9 -1 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3
SAPPBO	221,809 7,401 19,450 7,401 19,450 7,401 19,450 19,4	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.6 0.3 0.3 0.5 0.3 0.5 0.1 0.7 0.7 0.6 0.2 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	-1 -1 -2 -3 -3 -1 -2 -2 -5 -9 -9 -9 -2 -2 -1 -1 -3 -1 -1 -2 -6 -1 -1 -7 -7 -7 -4 -5 -6 -4 -4 -6 -6 -4 -6 -1 -7 -5 -6 -4 -6 -1 -7 -7 -7 -7 -4 -5 -6 -4 -6 -1 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7	9 -1 3 3 9 5 4 41 128 416 100 27 7 112 45 5 6 6 12 7 7 10 7 10 7 10 7 10 7 10 7 10 7 10
SAPP00	221,809 7,401 19,450 7,401 19,450 7,401 19,450 1,102 19,450 11,102 11,10	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.6 0.5 0.3 0.5 0.5 0.6 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.8 0.8 0.8 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	-1 -1 -2 -3 -3 -1 -1 -2 -2 -2 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3	9 -1 3 3 9 9 1 1 2 8 1 3 1 6 1 1 2 8 2 5 5 6 1 1 2 2 7 7 1 1 2 9 1 1 2 8 1 3 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
SAPPO DOWN Jones I Novel I No	221,809 7,401 19,450 7,401 19,450 1,421 19,450 1,421 19,450 19,45	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	-11 -12 -2 -3 -1 -1 -2 -2 -3 -1 -1 -2 -2 -3 -3 -1 -1 -3 -3 -3 -1 -1 -3 -3 -3 -1 -1 -1 -3 -3 -3 -1 -1 -1 -3 -5 -3 -3 -1 -1 -1 -3 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5	9 -1 3 3 9 9 5 4 111 28 113 3 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
SAPPOO DOWN Jones Noted	221,809 7,401 19,450 7,401 19,450 7,401 19,450 19,450 19,450 11,212 19,450 19,4	0.00 0.00 0.00 0.00 0.00 0.00 0.05 0.66 0.60 0.05 0.60 0.00 0.0	0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
SAPPBO DOWN Jones Nobel	221,809 7,401 19,450 7,401 19,450 7,401 19,450 1,422 19,422 19,423 19,423 19,423 19,423 19,423 19,423 19,423 19,423 19,423 19,423 19,423 19,423 19,423 19,423 19,423 19,43	0.00 0.00 0.00 0.00 0.00 0.00 0.05 0.66 0.67 0.69 0.69 0.69 0.69 0.69 0.69 0.69 0.69	0.6	-1 -1 -2 -3 -3 -1 -1 -2 -2 -5 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3	9 1 3 3 9 9 5 4 111 9 9 7 127 12 2 2 116 7 7 7 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1
SAPPOO DOWN Jones Noted	21,809 10,450 7,401 10,450 7,401 10,205 10,2	0.00 0.00 0.00 0.00 0.00 0.00 0.05 0.66 0.67 0.69 0.69 0.69 0.69 0.69 0.69 0.69 0.69	0.6	-1 -1 -2 -3 -3 -1 -1 -2 -5 -9 -9 -9 -9 -9 -9 -9 -9 -9 -9 -9 -9 -9	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
SAPPOO DOWN Jones Noted	221,809 7,001 10,285 7,001 10,285 10,	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	-1 -1 -2 -3 -3 -1 -1 -2 -2 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
SAPPBO DOWN Jones Nobel	221.809 7.0401 7	0.00 0.00 0.00 0.00 0.00 0.00 0.05 0.66 0.67 0.69 0.69 0.69 0.69 0.69 0.69 0.69 0.69	0.6 0.5 0.5 0.6 0.6 0.6 0.7	-1 -1 -2 -3 -3 -1 -1 -2 -2 -2 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3	9 1 3 3 9 9 5 4 111 9 9 7 127 12 2 2 12 12 12 12 12 12 12 12 12 12 12
SAPPOO DOWN Jones Noted	221,809 7,001 10,450 7,001 10,205 10,	0.00 0.00 0.00 0.00 0.00 0.00 0.05 0.66 0.67 0.69 0.69 0.69 0.69 0.69 0.69 0.69 0.69	0.6	-1 -1 -2 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
SAPPBO DOWN Jones Nobel	221.809 7.0401 7	0.00 0.00 0.00 0.00 0.00 0.00 0.05 0.66 0.67 0.69 0.69 0.69 0.69 0.69 0.69 0.69 0.69	0.6 0.5 0.5 0.6 0.6 0.6 0.7	-1 -1 -2 -3 -3 -1 -1 -2 -2 -2 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3	9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1





Debt market	s (10Y.%, d	anges in b	op)		
Developed Markets US (2-yr) US	1.34 2.17	0.6 0.3	3.6 -1.2	-3 -14	12 -27
GER (2-yr) Germany	-0.74 0.38	-1.4 -0.4	-2.7	-7 -16	3
France Spain	0.69 1.60	-0.1 -0.8	-0.4 5.4	-11	-12 3
Italy Portugal	2.08	-1.9 -0.9	4.9	-1 -9	21 -131
Greece Japan (2-yr)	5.54 -0.15	0.0	11.4 -7.9 -2.0	22 -4	-134 4
Japan Emerging Markets	0.01 level	-0.2 -2.0 Daily	-6.2 Weekly	-5 Monthly	-5 YTD
Brazil Chile	10.10 4.40	-1.6 6.1	-10.0 2.1	11 10	-131 8
Colombia Mexico	6.72 6.85	0.0 2.7	-1.0 5.1	-23 -1	-37 -79
Peru Poland	5.17 3.29	-2.4 -0.6	-9.2 -2.1 7.1	-21 -2	-130 -43
Russia Turkey	7.88 10.29	6.1 -6.0	-7.0	-5	-56 -71
India Indonesia	6.57 6.78	3.0 -2.8	5.8 -11.8	13 -17	19 -106
Country r Developed Markets	isk (bp. chang	es in bp) Daily	Weekly	Monthly	YTD
10-yr sovereign spread vs Germany France	32	0.3	2.0	5	-14
Italy	171	-1.5 -0.5	7.3	15	19
Portugal Spain	249 123	-0.5	13.8 7.8	7 13	-106
2-yr sovereign spread vs Germany France	24	-0.1	-0.2	-2	13
Italy Portugal	60 79	1.3 -2.3	6.4 2.0	12	-1 -67
Spain Emerging Markets	41 level	0.3 Daily	5.1 Weekly	1 Monthly	-7 YT0
5-yr sovereign CDS * Brazil	196	1.3	-5	-15	-76
Chile Colombia	61 126	-0.2	-1	-6 -4	-21
Mexico Peru	104 77	-1.4 -1.0 -0.3	4	0	-57 -53
Venezuela	6,123	-365.7	-41	1100	221
Poland Russia	56 145	-0.5 0.3	-2 -5	-4 -17	-19 -31
Turkey China	170 59	-3.0 -3.0	-8 -7	-13 -5	-103 -58
India Indonesia	82 104	-2.0 -3.3	-4 -7	-1 -8	-45 -52
	isk indicators level	Daily	Weekly	Monthly	YTD
VIX VSTOXX	12 16	3.2	-12 -15	15 24	0
M EFT volatility Index	17	3.1	-15 -7 -4	15	-16
Oollar/euro volatility M FX volatility index	8 7	2.0 1.0	-2	-4	-24 -35
Credit spread (BAA) (bps) US bonds volatility index	212 51	-0.5 -3.7	0 -3	4	-15 -34
Banking 5 y CDS (bps) * US	level 57	Daily -0.3	Weekly -1	Monthly 5	YT0
EZ UK	59 49	-0.9 -0.4	1 4	6 4	-49 -41
arge Spanish Medium Spanish	58 92	-0.7 -0.1	2	9	-59 -59
Corporate 5y CDS (bps) *	level		Weekly	Monthly	YTD
JS Non-financial EZ Non-financial	144 76	-0.3 -0.9	-1	5 6	-15 -49
JK Non-financial Interbank m	109 arkets (%, ch	-0.2 anges in bp	-2 p)	2	-16
EONIA Index	level -0.36	Daily 0.00	Weekly 0.0	Monthly 0.0	0.0
Euribor 3m Euribor 12m	-0.33 -0.16	0.00	0.0	0.0	0.0
Libor 3m Libor 12m	1.32	0.00	0.0	0.0	0.3
	ck markets (0.0	0.0	0.0
Main indices	level	Daily		Monthly	YTE
				- 4	8
Dow Jones	2,443 21,809	0.0	0.6	0	9
Dow Jones Nikkei FTSE 100	21,809 19,450 7,401	0.0 0.0 0.0	0.5 0.3 1.1	0 -3 -1	9 -1 3
Dow Jones Nikkei FTSE 100 EuroStoxx 50	21,809 19,450 7,401 3,421	0.0 0.0 0.0 -0.5 -0.6	0.5 0.3 1.1 -0.1	0 -3 -1 -2	9 -1
Dow Jones Nikkei FTSE 100 EuroStoxx 50 IBEX DAX	21,809 19,450 7,401 3,421 10,286 12,123	0.0 0.0 0.0 -0.5 -0.6 -0.4	0.5 0.3 1.1 -0.1 -0.7 0.5	0 -3 -1	9 -1 3 3
Dow Jones Viktori Vitts 100 EuroStoxx 50 BBX DAX CAC	21,809 19,450 7,401 3,421 10,286 12,123 5,080 21,726	0.0 0.0 0.0 -0.5 -0.6 -0.4 -0.5 -0.1	0.5 0.3 1.1 -0.1 -0.7 0.5 -0.2 -0.1	0 -3 -1 -2 -3 -1 -2 0	9 -1 3 3 9 5 4 11
Dow Jones Vikker Viker Viker BER DAX DAX CAC MIB MSC Athens MSC Latam*	21,809 19,450 7,401 3,421 10,286 12,123 5,080 21,726 838 83,000	0.0 0.0 0.5 -0.6 -0.4 -0.5 -0.1 0.4 0.0	0.5 0.3 1.1 -0.1 -0.7 0.5 -0.2 -0.1 1.5 2.2	0 -3 -1 -2 -3 -1 -2 0 2 5	9 -1 3 3 9 5 4 11 28 13
Dow Jones FTSE 100 EEE/eEVStoxx 50 BEX DAX CAC CAC MM BB SQL Latan* bloovepag (Brazi) Medical	21,809 19,450 7,401 3,421 10,286 12,123 5,080 21,726 838 83,000 71,264 51,061	0.0 0.0 0.0 -0.5 -0.6 -0.4 -0.5 -0.1 0.4 0.0 0.3 -0.6	0.5 0.3 1.1 -0.1 -0.7 0.5 -0.2 -0.1 1.5 2.2 3.8 -0.4	0 -3 -1 -2 -3 -1 -2 0 2 5	9 -1 3 3 9 5 4 11 28 13 16
Dow Jones Wikke TTSE 100 EUEVSTONS 50 BEX DAX CACAC MISS MSG Latam * Bovepa Glazib MSG Latam * MSG Lat	21,809 19,450 7,401 3,421 10,286 12,123 5,080 21,726 838 83,000 71,264 51,061 5,132 2,531	0.0 0.0 0.0 0.5 -0.6 -0.4 -0.5 -0.1 0.4 0.0 0.3 -0.6 0.4 2.4	0.5 0.3 1.1 -0.1 -0.7 0.5 -0.2 -0.1 1.5 2.2 3.8 -0.4 2.9 6.5	0 -3 -1 -2 -3 -1 -2 0 2 5 9 0 3 8	9 -1 3 3 9 5 4 11 28 13 16 10 2
Dow Jones Nikke FTSE 100 LEWSTON 50 BEX DAX CACAC CACAC LEWSTON 50 BEST DAX CACAC LEWSTON 50 BES	21,809 19,450 7,401 3,421 10,286 12,123 5,080 21,726 838 83,000 71,264 51,061 5,132 2,531 1,987 110,340	0.0 0.0 0.0 0.5 -0.6 -0.4 -0.5 -0.1 0.4 0.0 0.3 -0.6 0.4 2.4 0.5	0.5 0.3 1.1 -0.1 -0.5 -0.2 -0.1 1.5 2.2 3.8 -0.4 2.9 6.5 2.6 1.6	0 -3 -1 -2 -3 -1 -2 0 2 5 9 0 3 8 2 2	9 -1 3 3 9 5 4 11 28 13 16 10 2 27 -12 45
Dow Jones Wikkel FTSE 100 FTSE 100 BEX DOWN BEX DOWN BEX DOWN BEX	21,809 19,450 7,401 3,421 10,286 12,123 5,080 21,726 83,8 83,000 71,264 51,061 5,132 2,531 1,987 110,340 867 3,363	0.0 0.0 0.0 0.5 -0.6 -0.4 -0.5 -0.1 0.4 0.3 -0.6 0.4 2.4 0.4 0.5	0.5 0.3 1.1 -0.1 -0.7 0.5 -0.2 -0.1 1.5 2.2 3.8 -0.4 2.9 6.5 2.6 1.6 1.8 2.3	0 -3 -1 -2 -3 -1 -2 0 2 5 9 0 3 8 2 2 1 3 3 -1 3 -1 3 -1 3 -1 3 -1 3 -1 3	9 -1 3 3 9 5 4 11 28 13 16 10 2 27 -12 45 25 6
Dow Jones Wilded TTSE 100 TTSE 100 BEX DAX CAC CAC GROUND SEE AND SEE AN	21,809 19,450 7,401 3,421 10,286 12,123 5,080 21,726 838 83,000 71,264 5,1061 5,132 2,531 1,987 110,340 867 3,363 5,903	0.0 0.0 0.0 0.0 0.5 0.6 0.4 0.0 0.3 0.6 0.4 0.0 0.3 0.4 0.0 0.5 0.4 0.0 0.9	0.5 0.3 1.1 -0.1 -0.7 0.5 -0.2 -0.1 1.5 2.2 3.8 -0.4 2.9 6.5 2.6 1.6	0 -3 -1 -2 -3 -1 -2 0 2 5 9 0 3 8 2 2	9
Down Jones Wikkel Historian State Historian St	21,809 19,450 7,401 3,421 10,286 12,123 5,080 21,726 838 83,000 71,264 51,061 5,132 2,531 1,987 110,340 867 3,363 5,903 level	0.0 0.0 0.0 0.0 0.5 -0.6 -0.4 0.0 0.1 0.4 0.0 0.3 -0.6 0.4 2.4 0.5 0.1 0.9 0.2 Daily	0.5 0.3 1.1 -0.1 -0.7 0.5 -0.2 -0.1 1.5 2.2 3.8 -0.4 2.9 6.5 2.6 1.6 1.8 2.3 0.2 Weekly	0 -3 -1 -2 -3 -1 -2 0 2 5 9 0 3 8 2 2 1 3 2 2 Monthly -2	9 -1 -3 -3 -3 -3 -9 -5 -4 -4 -11 -28 -13 -16 -10 -10 -2 -2 -7 -12 -4 -4 -5 -6 -6 -12 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7
Down Jonnes Wikkel TSE TOD TSE TOD TSE TOD TSE TOD TSE TOD TSE ADMIN TSE TOD TSE	21,809 19,450 7,401 3,421 10,286 12,123 5,080 21,726 838 83,000 71,264 51,061 5,132 2,531 1,987 110,340 867 3,363 5,903 level 121,9 91,4	0.0 0.0 0.0 0.0 0.5 -0.6 -0.4 -0.5 -0.1 0.4 0.0 0.3 -0.6 0.4 2.4 0.5 0.1 0.9 0.2 Daily -0.8 -0.8	0.5 0.3 1.1 -0.1 -0.7 0.5 -0.2 -0.1 1.5 2.2 3.8 -0.4 2.9 6.5 2.6 1.6 1.8 2.3 0.2 Weekly 1.2 0.8	0 -3 -1 -2 -3 -1 -2 0 0 2 5 9 0 3 8 2 2 1 3 2 2 Monthly -2 0 0	9 -1 -3 -3 -3 -3 -9 -5 -4 -11 -28 -13 -16 -10 -12 -12 -12 -15 -6 -12 -17 -17 -17 -17 -17 -17 -17 -17 -17 -17
Down Jonnes Wikled TTSE TOD TTSE TOD SEX	21,809 19,450 7,401 3,421 10,286 12,123 5,080 21,726 838 83,000 71,264 51,061 5,132 2,531 1,987 110,340 867 3,363 5,903 level 121,9 91,4 67,6 23,6 45,5	0.0 0.0 0.0 0.0 0.5 -0.4 -0.5 -0.1 0.0 0.3 -0.6 0.4 2.4 0.5 0.1 0.9 0.2 Daily -0.6 -0.4 -0.5	0.5 0.3 1.1 -0.1 -0.5 -0.2 -0.1 1.5 2.2 3.8 -0.4 2.9 6.5 2.6 1.6 1.8 2.3 0.2 Weekly 1.2 0.8	0 -3 -1 -2 -3 -1 -2 0 0 2 5 9 0 3 8 2 2 2 1 3 3 2 2 Monthly -2 0 0 0 -2 -3	9 -1 -3 -3 -3 -9 -5 -4 -4 -11 -28 -13 -16 -10 -2 -2 -7 -12 -4 -15 -2 -5 -10 -3 -3 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4
Down Jones Wikled TTSE 100 TTS	21,809 19,450 7,401 3,421 10,286 12,123 5,080 21,726 83,8 83,000 71,264 5,1061 5,132 2,531 1,987 110,340 867 3,363 5,903 1evel 121,9 91,4 67,6 23,6 45,5 219,6 45,5 219,6	0.0 0.0 0.0 0.5 0.6 0.4 0.5 0.1 0.0 0.3 0.6 0.4 2.4 0.5 0.1 0.9 0.2 Daily -0.6 0.4 -0.5	0.5 0.3 1.1 -0.1 -0.7 -0.5 -0.2 -0.1 1.5 2.2 3.8 -0.4 2.9 6.5 1.6 1.6 1.8 2.3 0.2 Weekly 1.2 0.8 2.5 1.0 1.9 -0.9	0 -3 -1 -2 -3 -1 -2 0 0 2 5 9 0 3 8 2 2 2 1 1 3 2 2 Monthly -2 0 0 0 -2 -3 -1 -4	9 -1 -3 -3 -3 -9 -5 -4 -111 -288 -13 -13 -16 -10 -2 -2 -7 -12 -12 -12 -10 -3 -3 -4 -10 -6 -6
Down Jones Wilded TTSE 100 GEX TSE 100 GEX AX	21,809 19,450 7,401 3,421 10,286 12,123 5,080 21,726 838 83,000 71,264 51,061 5,132 2,531 1,987 110,340 867 3,363 5,903 level 121,9 91,4 67,6 23,6 45,5 219,6 112,3 64,0 15,0	0.0 0.0 0.0 0.5 -0.6 -0.4 -0.5 -0.1 0.0 0.3 -0.6 0.4 0.5 0.1 0.9 0.2 0.1 0.9 0.2 0.1 0.9 0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	0.5 0.3 1.1 -0.1 -0.7 0.5 -0.2 -0.1 1.5 2.2 3.8 -0.4 2.9 6.5 2.6 1.6 1.8 2.3 0.2 Weekly 2.8 2.5 1.0 1.9 -0.5 -0.9 -1.1 -1.0	0 3 -1 -2 -3 -1 -2 -2 -5 -9 -9 -0 -3 -8 -2 -2 -2 -3 -1 -4 -3 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	9 -1 -3 -3 -3 -9 -5 -4 -11 -28 -13 -16 -10 -12 -12 -12 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10
Down Jones Wilded TTSE 100 GEX TSE 100 GEX DAY ANA ANA ANA ANA ANA ANA ANA	21,809 19,450 7,401 3,421 10,286 12,123 5,080 21,726 838 83,000 71,264 51,061 5,132 2,531 1,987 110,340 867 3,363 5,903 level 121,9 91,4 67,6 45,5 219,6 45,5 219,6 45,5 112,3 64,0 15,0 13,7 14,9	0.0 0.0 0.0 0.5 0.6 0.4 0.5 0.1 0.4 0.4 0.5 0.1 0.9 0.2 0.8 0.6 0.4 0.7 0.9 0.2 0.8 0.6 0.4 0.5 0.1 0.4 0.5 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.5 0.3 1.1 0.1 0.7 0.5 0.2 0.1 1.5 2.2 3.8 0.4 2.2 6.5 1.6 1.8 1.8 0.2 2.0 0.5 0.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0 3 -1 -2 -3 -1 -2 -2 -5 -9 -0 -3 -8 -8 -2 -2 -1 -3 -2 -2 -1 -4 -3 -1 -1 -1 -1 -6 -6 -6 -6 -1 -1 -1 -6 -6 -1 -1 -1 -6 -6 -1 -1 -1 -1 -1 -6 -6 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	9 -1 -3 -3 -3 -9 -5 -4 -11 -28 -13 -16 -10 -2 -2 -2 -16 -7 -7
Down Jones Wikkel Historian State Historian Histor	21,809 19,450 7,401 3,421 10,286 12,123 5,080 21,726 838 83,000 71,264 51,061 1,987 110,340 867 3,363 1evel 121,9 91,4 67,6 23,6 45,5 219,6 112,3 64,0 15,0 13,7 14,9 2,9 46,8	0.0 0.0 0.0 0.5 0.6 0.4 0.5 0.1 0.0 0.3 0.6 0.4 2.4 0.5 0.5 0.1 0.9 0.2 0.8 0.6 0.4 0.5 0.4 0.5 0.6 0.4 0.5 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.5 0.3 1.1 0.1 0.7 0.5 0.2 0.1 1.5 2.2 3.8 2.3 0.2 2.3 1.6 1.8 2.3 0.2 1.2 0.8 2.5 1.0 0.9 1.2 0.9 1.2 0.9 1.0 0.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 3 -1 -1 -2 -3 -1 -1 -2 -0 0 2 5 5 9 0 3 8 8 2 2 2 1 1 3 2 2 0 0 0 -2 -3 -1 -1 -4 -4 -3 -1 -1 -7 -7 -6 -1 -7 -7	9 -1 -3 -3 -3 -9 -5 -4 -11 -28 -13 -16 -10 -10 -16 -7 -7 -13 -3 -3
Down Jonnes Wikkel TSE TOD TSE TOD TSE TOD TSE TOD TSE TOD TSE APPRIS MID MSC APPRIS MS	21,809 19,450 7,401 3,421 10,286 12,123 5,080 21,726 838 83,000 71,264 51,061 1,987 3,363 1,987 110,340 867 2,361 45,56 121,3 64,0 15,0 13,7 14,9 2,9 46,8 17,8 88,1	0.0 0.0 0.0 0.5 0.5 0.1 0.0 0.3 0.6 0.4 0.6 0.6 0.4 0.5 0.1 0.9 0.2 0.2 0.2 0.2 0.3 0.3 0.5 0.4 0.5 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.5 0.9 0.1 1.1 1.0 1.1 1.1 1.0 1.1 1.1 1.0 1.1 1.1	0 3 -1 -1 -2 -3 -1 -1 -2 -5 -3 -1 -1 -7 -5 -3 -1 -1 -7 -7 -5 -3 -1 -1 -7 -7 -5 -3 -1 -1 -7 -7 -5 -3 -1 -1 -7 -7 -5 -3 -1 -1 -7 -7 -5 -3 -1 -1 -7 -7 -5 -3 -1 -1 -7 -7 -5 -3 -1 -1 -7 -7 -5 -3 -1 -1 -7 -7 -5 -3 -1 -1 -7 -7 -5 -3 -1 -1 -7 -7 -5 -3 -1 -1 -7 -7 -5 -3 -1 -1 -7 -7 -5 -3 -1 -1 -7 -7 -5 -3 -1 -1 -7 -7 -5 -3 -1 -1 -7 -7 -5 -3 -1 -1 -7 -7 -5 -3 -1 -1 -7 -7 -5 -3 -1 -1 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7	9 -11 -3 -3 -9 -5 -4 -11 -12 -12 -12 -15 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10
Down Jonnes Wikkel TSE TOD TSE	21,809 19,450 7,401 3,421 10,286 12,123 5,080 21,726 838 83,000 71,264 5,132 2,531 1,987 110,340 867 12,123 1,987 121,9 13,363 1,903 121,9 14,9 14,0 15,10 1	0.0 0.0 0.0 0.5 0.5 0.1 0.4 0.6 0.4 0.6 0.6 0.4 0.5 0.1 0.2 0.2 0.2 0.2 0.3 0.4 0.5 0.5 0.4 0.5 0.6 0.4 0.5 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.5 0.3 1.1 0.7 0.5 0.2 0.1 1.5 2.2 0.1 1.5 2.9 6.5 6.6 1.6 1.6 1.8 2.9 0.8 2.5 0.8 2.5 0.8 1.0 0.9 1.0 0.0 0	0 3 1 1 2 2 3 3 1 1 2 0 0 2 5 5 9 0 0 3 8 8 2 2 2 1 1 3 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 -11 -3 -3 -3 -9 -5 -4 -11 -12 -12 -14 -10 -10 -13 -13 -13 -13 -13 -13 -13 -13 -13 -13
Down Jonnes Wikkel Histories State Histories H	21,809 19,450 7,401 3,421 10,286 12,123 5,080 21,726 838 83,000 71,264 51,132 2,531 1,987 110,340 867 3,363 5,903 level 121,9 91,14 67,6 23,6 45,5 219,6 6 112,3 645,5 219,6 112,3 645,5 219,6 112,3 646,8 112,3 648,8 17,8 88,1 742,8	0.0 0.0 0.0 0.5 0.6 0.4 0.0 0.0 0.3 0.6 0.4 0.4 0.5 0.1 0.9 0.2 0.9 0.2 0.1 0.9 0.1 0.1 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0	0.5 0.3 1.1 0.1 0.7 0.5 0.2 0.1 1.5 2.2 2.8 0.4 2.6 5 1.6 1.8 2.3 0.2 1.2 0.9 1.1 1.0 0.9 1.0 0.9 1.0 0.9 1.0 0.9 1.0 0.9 1.0 0.9 1.0 0.9 1.0 0.9 1.0 0.9 1.0 0.9 1.0 0.9 1.0 0.9 1.0 0.9 1.0 0.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0 3 -1 -1 -2 -3 -1 -1 -1 -2 -6 -1 -7 -5 -3 -1 -1 -2 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7	9 -11 -3 -3 -3 -9 -11 -288-3 -13 -16 -10 -10 -10 -10 -10 -11 -10 -10 -10 -10
Dow Jones White FTSE TOO GRAND COMMISSION BOX BOX BOX BOX BOX BOX BOX B	218,09 7,001 10,266 3,421 10,266 838 838 10,21,726 838 847 110,340 121,93 121,9	0.0 0.0 0.0 0.5 0.6 0.4 0.0 0.3 0.6 0.4 2.4 0.4 0.5 0.1 0.9 0.2 0.5 0.1 0.9 0.2 0.6 0.4 0.7 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0.5 0.3 1.1 0.7 0.5 0.2 0.1 1.5 2.2 0.5 1.5 2.2 6.5 1.6 1.6 2.3 0.2 2.6 1.6 1.6 1.6 1.6 1.6 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0 3 4 1 1 2 2 0 2 5 9 0 0 3 8 8 2 2 2 1 3 3 2 2 0 0 0 2 2 3 4 1 4 4 3 1 1 1 2 7 7 4 5 5	9 -1 -3 -3 -3 -9 -5 -4 -111288 -13131-16 -100 -100 -100 -100 -100 -100 -100
Down Jones Wikled TSE TOD TSE TOD TSE TOD TSE TOD TSE TOD TSE AMENS TSE TOD TSE AMENS TSE TOD TSE AMENS TSE TOD TSE AMENS TSE TOD TSE	218,09 7,001 10,286 7,001 10,286 838 83,000 71,264 15,132 2,531 110,340 867 1110,340 867 121,9 121,9 132,2531 110,340	0.0 0.0 0.0 0.5 0.1 0.4 0.0 0.3 0.6 0.4 0.0 0.3 0.6 0.4 0.5 0.1 0.9 0.2 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0.5 0.3 1.1 0.7 0.5 0.2 0.1 1.5 2.2 0.4 1.5 2.9 6.5 1.6 1.6 2.3 0.8 2.9 0.8 2.5 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0 3 1 1 2 2 3 3 1 1 2 2 0 0 2 2 5 9 9 0 0 3 8 8 2 2 2 1 1 3 2 2 0 0 0 0 2 2 5 3 1 1 4 4 3 1 1 1 2 7 5 5 3 3 1 1 2 2 7 7 4	9 -11 -3 -3 -9 -5 -4 -11 -28 -12 -12 -12 -12 -12 -13 -13 -13 -13 -13 -13 -13 -13 -13 -13
Down Jones Wikled TSE TOD TSE TOD TSE TOD TSE TOD TSE TOD TSE AMENS TSE TOD TSE AMENS TSE TOD TSE AMENS TSE TOD TSE AMENS TSE TOD TSE TO	218,899 7,401 10,286 3,421 10,286 83,000 83,000 83,000 11,284 11,081 11,087 11,084 11,081 11,087 11,084 11,081 11,087 11,	0.0 0.0 0.0 0.0 0.5 0.5 0.1 0.0 0.5 0.1 0.0 0.3 0.6 0.4 0.0 0.3 0.6 0.4 0.5 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.5 0.3 1.1 0.1 0.7 0.2 0.2 0.2 0.2 0.1 1.0 0.7 0.2 0.2 0.2 0.2 0.1 1.0 0.5 0.0 0.2 0.2 0.2 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	0 3 4 1 2 2 3 1 1 3 2 2 5 9 9 0 3 3 8 2 2 2 1 1 3 2 2 2 0 0 0 2 3 4 1 4 3 1 1 1 1 2 6 6 1 7 7 7 4 5 5 6 6 4 4 4 0 0	9 9 -1 3 3 3 3 9 9 5 4 4 111 288 133 166 100 2 27 -12 25 5 100 3 3 4 4 -100 6 6 2 22 22 -166 3 -3 -3 -3 -3 -10 11 1 8 8 14 4 100 3 3 3 3 3 3 3 3 3 3 3 3 5 7 7 7 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Down Jones Wikled TSE TOD TSE	21,809 7,401 10,828 7,401 10,828 10,838 10,8	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.5 0.3 1.1 0.1 0.7 0.2 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0 3 4 1 2 2 3 1 1 2 2 0 2 2 5 9 9 0 3 3 8 2 2 2 1 1 3 2 2 1 1 4 4 1 1 2 6 6 1 1 7 5 5 3 1 1 2 7 7 4 5 5 6 6 4 4 4 0 0 5 5 4	9 9 -1 3 3 3 3 4 4 111 288 27 -12 25 6 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Down Jonnes Wikkel TTSE TOD TT	218,899 7,401 10,288 7,401 10,288 8,100 11,726 8,100 11,726 8,100 11,726 8,100 11,726 8,100 11,726 8,100 11,726 8,100 11,726 8,100 11,726 11,7	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.5 0.3 1.1 0.7 0.1 0.7 0.5 0.2 1.5 0.2 1.6 0.1 1.5 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	0	9 -1 3 3 3 9 5 4 111 28 133 16 10 2 27 -12 45 5 6 12 2 10 3 3 4 -10 6 6 2 2 2 2 2 7 7 13 -3 3 -3 11 9 -17 0 11 8 14 10 33 34
Down Jonnes Wikled TSE TOD TSE	218,899 7,401 10,2895 7,401 10,2895 10,241 10,2895 11,260	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.5 0.3 1.1 0.7 0.1 0.7 0.5 0.2 0.1 1.5 0.2 2.8 0.4 2.9 0.4 2.9 0.6 1.6 1.6 1.6 1.6 0.2 0.8 0.1 1.0 0.9 0.1 1.0 0.9 0.1 1.0 0.1 1.0 0.1 0.7 1.1 0.2 0.6 0.6 0.1 0.7 0.7 0.7 0.7 0.8 0.8 0.1 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0 3 1 1 2 3 1 1 2 2 0 0 2 5 9 9 0 3 3 8 2 2 2 1 1 3 2 2 0 0 0 2 2 3 1 1 4 4 3 1 1 2 6 6 1 7 5 5 3 1 1 2 7 7 4 5 6 6 4 4 4 6 6 Morthly 2.5	9 9 1 3 3 3 9 9 5 5 4 111 288 133 166 100 2 2 2 7 7 13 3 4 4 1 100 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Down Jonnes Wikkel ITSE TOO ITSE ARMON INCOME ITSE TOO ITSE ARMON INCOME ITSE TOO ITSE ARMON ITSE ARM	218,899 7,401 19,450 7,401 19,450 7,401 10,120 10,1	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.5 0.3 1.1 0.7 0.5 0.2 0.5 0.2 0.5 0.2 0.5 0.6 0.5 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0 3 4 1 2 3 4 1 2 2 0 0 2 5 5 9 0 0 3 3 8 2 2 2 1 1 3 3 2 2 Morethy 2 2 0 0 0 2 3 4 1 4 3 4 1 1 1 2 6 6 1 7 7 7 7 4 4 5 6 6 4 4 4 0 0 5 5 4 6 6 4 4 4 6 6 6 5 1 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	9 9 1 3 3 3 3 9 5 4 111 288 133 166 112 2 2 2 7 7 12 2 2 2 2 2 2 2 2 2 2 2
Down Jonnes Wikkel TSE TOO TSE TOO TSE TOO TSE TOO TSE TOO TSE AMENS TSE TOO TSE AMENS TSE TOO TSE AMENS TSE TOO TSE AMENS TSE TOO TSE AMENS TSE TOO TSE AMENS TSE TOO TSE AMENS	218,899 7,401 10,886 7,401 10,886 83,000 21,726 83,100 21,726 83,100 21,726 867 11,726 867 11,726 867 11,726 867 11,726 867 11,726 11,7	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.5 0.3 1.1 0.7 0.7 0.2 0.1 1.5 0.2 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	0 3 1 2 3 1 2 2 0 0 2 5 9 0 0 3 8 8 2 2 1 1 3 2 2 Monthly -2 0 0 0 2 5 5 9 1 1 1 4 4 5 5 3 1 1 4 5 6 6 4 4 0 0 5 5 4 6 6 Monthly 2.5 4 7 4 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1	9 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
Down Jones Wikled TSE TOD TSE	218,899 7,401 10,881 10,881 10,881 10,881 10,881 11	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.5 0.3 1.1 0.7 0.7 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.3 0.3 0.2 0.3 0.3 0.2 0.3 0.3 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	0 3 4 1 2 3 1 1 2 2 0 0 2 3 3 8 2 2 2 1 1 3 2 2 Morethy 2 2 3 1 1 1 2 2 0 0 0 2 3 3 1 1 1 2 1 2 7 4 5 5 3 1 1 2 7 4 4 5 5 4 4 4 4 4 4 1 1 2 7 7 4 5 5 4 6 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9
Down Jones Wikled TSE TOD TSE TOD TSE TOD TSE TOD TSE TOD TSE AMERICA ACA ACA ACA ACA ACA ACA ACA ACA ACA	218,89 7,401 10,885 7,401 10,885 10,801 21,726 83,000 21,726 83,000 21,726 84,000 11,726 867 11,726 867 11,726 867 11,726 867 12,726 12,	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.5 0.3 1.1 0.7 0.7 0.1 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0 3 1 1 2 2 3 1 1 2 2 2 5 9 9 0 3 3 8 2 2 2 1 1 3 2 2 3 1 1 1 3 2 2 9 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1	9 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
Down Jones Wikkel ITSE TOO ITSE TO	21,809 7,401 19,450 7,401 19,450 1,401 10,102 11,102 11,102 11,102 11,102 11,102 11,102 11,102 11,102 11,102 11,103 11,10	0.00 0.00 0.00 0.00 0.00 0.05 0.66 0.60 0.60	0.5 0.3 1.1 0.7 0.7 0.9 0.9 0.1 1.5 0.2 0.1 1.5 0.2 0.1 1.5 0.2 0.1 1.5 0.2 0.1 1.5 0.2 0.1 1.5 0.2 0.1 1.5 0.0 0.1 0.1 0.1 0.1 0.7 0.0 0.1 0.1 0.1 0.7 0.0 0.0 0.1 0.1 0.1 0.7 0.0 0.0 0.1 0.1 0.1 0.7 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.7 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1	0 3 4 1 2 2 3 1 1 2 2 2 2 2 2 3 3 8 2 2 2 2 3 3 1 4 3 2 2 2 3 3 1 4 4 4 9 5 5 3 3 4 5 6 6 4 4 4 9 6 6 6 6 7 1 8 2 5 6 6 6 7 1 1 8 2 5 7 1	9 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
Down Jones Wikkel Wikel HTSE TOO HTSE T	218,899 7,401 10,450 7,401 10,450 10,450 10,450 10,450 11,726 11,	0.00 0.00 0.00 0.00 0.00 0.05 0.66 0.61 0.01 0.03 0.66 0.67 0.69 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.7	0.5	0 3 3 1 1 2 2 3 1 1 2 2 2 5 9 9 0 3 3 8 8 2 2 1 1 3 2 2 Monthly 2 2 0 1 1 3 2 1 1 4 4 3 1 1 7 7 7 4 4 5 6 6 4 4 0 0 5 4 6 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
Down Jones Wikled TSE TOD TSE	218,899 7,401 10,886 7,401 10,886 83,000 21,726 83,100 84,11 10,876 86,11 10,876 10,8	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.5 0.3 1.1 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0 3 1 1 2 2 3 3 1 1 2 2 2 5 9 9 0 3 3 8 8 2 2 1 1 1 3 2 2 2 0 0 0 2 2 3 3 3 1 1 1 4 1 2 5 6 4 1 7 7 5 5 6 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4	9 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
Down Jones Wikkel Wikel HTSE TOO HTSE HTSE TOO H	218,899 7,941 110,340 121,726 121,726 131,726	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.5 0.3 1.1 0.5 0.2 0.1 0.5 0.2 0.1 1.5 0.2 0.1 1.5 0.2 0.6 0.1 1.5 0.6 0.8 0.8 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0	9 1 1 3 3 3 3 9 9 5 4 4 111 28 2 1 5 1 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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Down Jones Wikled TSE TOO TS	21,809 7,401 10,808 7,401 10,808 8,100 10,808 10,80	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.5 0.3 1.11 0.5 0.2 0.12 0.12 0.15 1.5 1.5 1.6 0.15 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	0 3 3 1 1 2 2 0 2 5 9 0 0 3 8 2 2 1 1 3 2 3 1 1 1 2 2 0 0 1 2 1 1 1 1 2 1 1 1 1 1 1	9 1 3 3 3 3 4 4 11 2888 27 12 27 12 25 6 6 12 27 12 25 5 6 12 27 12 25 5 10 10 11 11 18 8 15 12 2 2 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Down Jones Wikled TSE TOO TSE TOO TSE TOO TSE TOO TSE TOO TSE AMENS TSE TOO TSE AMENS TSE TOO TSE AMENS TSE TOO TSE AMENS TS	218,899 7,401 10,288 7,401 10,288 8,1000 21,726 8,1000 21,726 8,1000 21,726 8,1000 21,726 8,1000 21,726 8,1000 21,726 8,1000 21,726 8,1000 21,726 8,1000 21,726 8,1000 21,726 8,1000 21,726 8,1000 21,726 22,631 23,1000 23,1000 24,10	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.5 0.3 1.11 0.7 0.2 0.5 0.5 0.6 0.0 0.1 1.1 1.0 0.7 1.2 0.2 0.5 0.0 0.0 0.1 1.1 1.0 0.7 1.2 0.0 0.0 0.1 1.1 1.0 0.7 1.2 0.0 0.0 0.0 0.1 1.1 1.0 0.7 1.2 0.0 0.0 0.0 0.1 1.1 1.0 0.7 1.2 0.0 0.0 0.0 0.1 1.1 1.0 0.7 1.2 0.0 0.0 0.0 0.1 1.1 1.0 0.7 1.2 0.0 0.0 0.0 0.1 1.1 1.1 1.1 1.1 1.1 1.1	0 3 1 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	9 1 1 3 3 3 9 9 5 4 4 11 1 28 8 13 1 16 6 6 2 2 2 2 2 7 7 7 1 3 3 3 4 4 1 10 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Down Jones White FTSE 100 FTSE	21,809 7,401 10,801 7,401 10,802 10,802 11,726 83,100 11,726 83,100 11,726 84,100 11,726 86,100 11,726 86,100 11,726 86,100 11,726 86,100 11,726 86,100 11,726 11,7	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.5 0.3 1.1 0.7 0.7 0.1 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0 3 1 1 2 2 3 3 8 2 2 1 3 3 8 2 2 1 3 3 4 1 1 2 2 4 4 4 9 0 5 4 4 4 4 9 0 5 4 6 6 4 4 4 4 9 0 5 5 1 1 5 6 6 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 1 1 3 3 3 9 9 5 4 4 111 288 13 116 100 2 7 7 7 2 6 6 6 1 1 7 7 2 2 6 7 7 7 1 2 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Developed ERBUSD GBPUSD GBPUSD SSD JPY DXY Manual Colleged and SSD ARS (Algorithm) SSD ARS (Algorithm) SSD CLP (Chief) SSD MAN (Macco) SSD REN (Chief)	21,809 1,9450 7,401 1,9450 7,401 1,101 1,102 1,1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.5 0.3 1.1 0.3 1.2 0.5 0.2 0.1 0.1 0.5 0.2 0.1 1.5 1.5 0.6 0.6 0.7 0.7 1.6 0.7 1.1 1.0 0.7 1.1 1.0 0.7 1.1 1.0 0.7 1.1 1.0 0.7 1.1 1.0 0.7 1.1 1.0 0.7 1.1 1.0 0.7 1.1 1.0 0.7 1.1 1.0 0.7 1.1 1.0 0.7 1.1 1.0 0.7 1.1 1.0 0.7 1.1 1.0 0.7 1.1 1.0 0.7 1.1 1.0 0.7 1.1 1.0 0.7 1.1 1.0 0.7 1.1 1.0 0.7 1.0 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0	0 3 3 1 1 2 0 0 2 2 3 3 3 1 1 2 2 0 0 0 3 8 8 2 2 2 1 1 3 3 3 1 1 2 2 0 0 0 0 5 1 4 4 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	9 1 1 3 3 3 9 9 5 1 1 1 1 2 8 8 1 1 1 1 1 2 1 2 7 7 1 2 1 2 1 1 1 1 1 1



Source: Bloomberg, Datastream and Haver

* With one day delay

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