



Name	TIDM	ISIN	Traded Currency	Number Of Trades	Trades %	GBP Turnover	Turnover %	Average Trade Size	Time Weighted Spread (bps)
DBX MSCI EMERGING MARKET ETF	XMMD	LU0292107645	USD	37	0.10%	619,403	0.02%	16,741	14
DBX MSCI RUSSIA 25% CAP'D ETF	XMRC	LU0322252502	GBX	34	0.09%	519,372	0.02%	15,276	35
DBX MSCI RUSSIA 25% CAP'D ETF \$	XMRD	LU0322252502	USD	16	0.04%	489,354	0.02%	30,585	32
DBX MSCI TAIWAN ETF	XMTD	LU0292109187	USD	9	0.02%	739,568	0.03%	82,174	49
DBX MSCI TAIWAN ETF	XMTW	LU0292109187	GBX	11	0.03%	585,139	0.02%	53,194	43
DBX MSCI USA ETF	XMUD	LU0274210672	USD	119	0.33%	1,245,208	0.05%	10,464	10
DBXT MSCI JAPAN TRN USD 2C	XMUJ	LU0927735406	USD	10	0.03%	501,764	0.02%	50,176	37
DBX MSCI USA ETF	XMUS	LU0274210672	GBX	17	0.05%	262,205	0.01%	15,424	12
DBX MSCI WORLD ETF	XMWD	LU0274208692	USD	19	0.05%	949,559	0.04%	49,977	10
DBX MSCI WORLD ETF	XMWO	LU0274208692	GBX	11	0.03%	245,558	0.01%	22,323	11
DBX CNX NIFTY UCITS ETF	XNID	LU0292109690	USD	2	0.01%	28,818	0.00%	14,409	41
DBX CNX NIFTY UCITS ETF	XNIF	LU0292109690	GBX	25	0.07%	443,293	0.02%	17,732	39
DBX MSCI PHILIPPINES ETF £	XPHG	LU0592215403	GBX	8	0.02%	375,574	0.02%	46,947	100
DBX MSCI PHILIPPINES ETF \$	XPHI	LU0592215403	USD	45	0.12%	477,292	0.02%	10,606	99
DBX MSCI PACIFIC EX JAPAN ETF \$	XPXD	LU0322252338	USD	4	0.01%	21,765	0.00%	5,441	28
DBX MSCI PACIFIC EX JAPAN ETF £	XPXJ	LU0322252338	GBX	6	0.02%	670,898	0.03%	111,816	26
DBX RUSSELL MIDCAP INDEX ETF	XRMD	LU0592217953	GBX	13	0.04%	696,086	0.03%	53,545	38
DBX RUSSELL 2000 ETF	XRJ2	LU0322248658	GBX	22	0.06%	579,351	0.02%	26,334	23
DBX RUSSELL 2000 ETF \$	XRUD	LU0322248658	USD	42	0.12%	7,753,544	0.31%	184,608	21
DBX RUSSELL MIDCAP INDEX ETF	XRUM	LU0592217953	USD	12	0.03%	751,701	0.03%	62,642	32
DBX S&P 500 2X LEVERAGED ETF	XS2D	LU00411078552	USD	5	0.01%	434,895	0.02%	86,979	30
DBX STOXX EUROPE 600 FOOD & BEVERAGE ETF	XS3R	LU0292105359	GBX	9	0.02%	55,973	0.00%	6,219	26
DBX STOXX EUROPE 600 UTILITIES ETF	XS6R	LU0292104899	GBX	7	0.02%	42,471	0.00%	6,067	26
DBX STOXX EUROPE 600 BANKS ETF	XS7R	LU0292103651	GBX	25	0.07%	652,714	0.03%	26,109	18
DBX STOXX EU 600 BANKS SHORT DAILY ETF	XS7S	LU0322249037	GBX	12	0.03%	324,381	0.01%	27,032	20
DBX STOXX EUROPE 600 TECHNOLOGY ETF	XS8R	LU0292104469	GBX	2	0.01%	3,231	0.00%	1,616	25
DBX SHORTDAX X2 DAILY ETF	XSD2	LU0411075020	GBX	7	0.02%	35,133	0.00%	5,019	29
DBX STOXX EUROPE 600 HEALTHCARE ETF	XSDR	LU0292103222	GBX	29	0.08%	278,338	0.01%	9,598	26
DBX SHORTDAX DAILY ETF	XSDX	LU0292106241	GBX	5	0.01%	34,415	0.00%	6,883	18
DBX S&P 500 EQUAL WEIGHT ETF	XSEW	LU0659579493	GBX	11	0.03%	76,988	0.00%	6,999	36
DBX S&P SELECT FRONTIER ETF \$	XSFD	LU0328476410	USD	2	0.01%	37,314	0.00%	18,657	121
DBX S&P SELECT FRONTIER ETF	XSFR	LU0328476410	GBX	20	0.06%	78,545	0.00%	3,927	121
DBX S&P GLOBAL INFRASTRUCTURE ETF	XSGI	LU0322253229	GBX	8	0.02%	30,430	0.00%	3,804	41
DBX S&P JAPAN 500 SHARIAH ETF	XSHJ	LU0328475289	GBX	5	0.01%	163,118	0.01%	32,624	37
DBX S&P 500 SHARIAH ETF	XSHU	LU0328475362	GBX	4	0.01%	12,145	0.00%	3,036	34
DBX STOXX EUROPE 600 INSURANCE	XSIR	LU0292105193	GBX	2	0.01%	31,032	0.00%	15,516	28
DBX STOXX EUROPE 600 TELECOMMUNICATIONS	XSKR	LU0292104030	GBX	2	0.01%	6,229	0.00%	3,114	28
DBX S&P 500 2X LEVERAGED ETF	XSL2	LU0411078552	GBX	19	0.05%	184,797	0.01%	9,726	32
DBX STOXX EUROPE 600 INDUSTRIAL GOOD ETF	XSNR	LU0292106084	GBX	1	0.00%	3,113	0.00%	1,153	27
DBX S&P 500 INVERSE DAILY ETF	XSPD	LU0322251520	USD	63	0.17%	721,533	0.03%	11,453	71
DBX S&P 500 (E) ETF	XSPG	LU0490619276	GBX	18	0.05%	328,580	0.01%	18,254	21
DBX STOXX EUROPE 600 BASIC RESOURCES ETF	XSPR	LU0292100806	GBX	18	0.05%	1,475,395	0.06%	81,966	20
DBX S&P 500 INVERSE DAILY ETF	XSPS	LU0322251520	GBX	19	0.05%	531,304	0.02%	27,963	17
DBX S&P 500 ETF \$	XSPU	LU0490618542	USD	18	0.05%	836,229	0.03%	46,457	10
DBX S&P 500 ETF	XSPX	LU0490618542	GBX	15	0.04%	1,099,561	0.04%	73,304	12
DBX EURO STOXX 50 SHORT DAILY ETF	XSSX	LU0292106753	GBX	9	0.02%	126,001	0.01%	14,000	17
DBX STERLING CASH ETF	XSTR	LU0321464652	GBX	7	0.02%	35,418	0.00%	5,060	3
DBX STOXX EUROPE 600 UCITS ETF (DR)	XSX6	LU0328475792	GBX	41	0.11%	184,131	0.01%	4,491	23
DBX S&P 500 2X INVERSE DAILY ETF	XT21	LU0411078636	GBX	23	0.06%	139,537	0.01%	6,067	29
DBX S&P 500 2X INVERSE DAILY ETF	XT2D	LU0411078636	USD	3	0.01%	112,419	0.00%	37,473	28
DBX US TREASURIES 2X DAILY SHORT ETF	XUDS	LU0616016605	USD	2	0.01%	187,429	0.01%	93,714	64
DBX UK GILTS SHORT DAILY ETF	XUGS	LU0429459430	GBX	9	0.02%	168,599	0.01%	18,733	36
DBX USD IG INFLATION LNKD TREASURIES ETF	XUIT	LU0429459513	USD	8	0.02%	596,335	0.02%	74,542	41
DBX FTSE 100 SHORT DAILY ETF	XUKS	LU0328473581	GBX	154	0.42%	11,421,443	0.46%	74,165	9
DB X-TRACKERS FTSE 100 UCITS ETF (DR)	XUKX	LU0292097234	GBX	146	0.40%	5,806,225	0.23%	39,769	9
DBX US DOLLAR CASH ETF	XUSD	LU0356591882	USD	1	0.00%	12,470	0.00%	12,470	34
DBX GILTS 2X DAILY SHORT ETF	XUSS	LU0614583796	GBX	6	0.02%	53,506	0.00%	8,918	103
DBX IBOXX USD TREASURIES ETF	XUTD	LU0429459356	USD	3	0.01%	124,490	0.00%	41,497	14
DBX US TREASURIES SHORT DAILY ETF	XUTS	LU0429458622	USD	2	0.01%	614	0.00%	307	22
DBX FTSE VIETNAM ETF \$	XVTD	LU0322252924	USD	24	0.07%	434,168	0.02%	18,090	106
DBX MSCI WORLD ENERGY ETF	XWED	LU0540980736	USD	8	0.02%	163,224	0.01%	20,403	47
DBX MSCI WORLD HEALTHCARE ETF	XWHD	LU0540980223	USD	13	0.04%	810,987	0.03%	62,384	56
DBX MSCI WORLD INFO TECHNOLOGY ETF	XWND	LU0540980496	USD	30	0.08%	747,487	0.03%	24,916	58
DB X-TRACKERS MSCI WCONSTAPTRN ETF	XWSD	LU0540980066	USD	2	0.01%	14,502	0.00%	7,251	56
DBX MSCI WORLD ENERGY ETF	XWSE	LU0540980736	GBX	6	0.02%	17,169	0.00%	2,862	48
DBX MSCI WORLD HEALTHCARE ETF	XWSH	LU0540980223	GBX	6	0.02%	21,958	0.00%	3,660	56
DBX MSCI WORLD INDUSTRIALS ETF	XWSI	LU0540981387	GBX	2	0.01%	2,247	0.00%	1,124	45
DBX MSCI WORLD INFO TECHNOLOGY ETF	XWSN	LU0540980496	GBX	4	0.01%	27,306	0.00%	6,827	58
DB X-TRACKERS MSCI WCONSTAPTRN ETF	XWSS	LU0540980066	GBX	1	0.00%	1,985	0.00%	1,985	56
DB X-TRACKERS MSCI W UTILTRN ETF	XWSU	LU0540980652	GBX	3	0.01%	7,249	0.00%	2,416	55
DB X-TRACKERS MSCI W UTILTRN ETF	XWUT	LU0540980652	USD	4	0.01%	69,473	0.00%	17,368	54
DB X-TRACKERS FTSE ALL-WORLD EX UK ETF	XWXU	LU0322254383	GBX	54	0.15%	833,013	0.03%	15,426	44
DB X-TRACKERS FTSE CHINA 25 ETF	XX25	LU0292109856	GBX	11	0.03%	80,945	0.00%	7,359	31
DB X-TRACKERS FTSE CHINA 25 ETF \$	XX2D	LU0292109856	USD	8	0.02%	174,326	0.01%	21,791	35
MSCI EUROPE SMALL CAP TRN INDEX ETF	XXSC	LU0322253906	GBX	20	0.06%	213,773	0.01%	10,689	39
LYXOR ETF IBOXX EUR LIQUID HIGH YIELD 30	YIEL	FR0010975771	EUR	1	0.00%	2,471,577	0.10%	2,471,577	41

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BOOST GOLD 3X LEVERAGE DAILY ETP	3GOL	IE00B8HGT870	USD	3	0.06%	20,150	0.01%	6,717	86
BOOST GOLD 3X SHORT DAILY ETP	3GOS	IE00B6X4BP29	USD	4	0.08%	19,045	0.01%	4,761	89
BOOST LEVDAX 3X DAILY ETP (£)	3LDE	IE00B878KX55	GBX	15	0.30%	111,826	0.06%	7,455	56
BOOST GOLD 3X LEVERAGE DAILY ETP (£)	3LGO	IE00B8HGT870	GBX	4	0.08%	18,342	0.01%	4,585	87
BOOST SILVER 3X LEVERAGE DAILY ETP (£)	3LSI	IE00B7XD2195	GBX	8	0.16%	72,097	0.04%	9,012	87
BOOST NATURAL GAS 3X LEVERAGE DAILY ETP	3NGL	IE00B8VC8061	USD	44	0.87%	478,666	0.26%	10,879	684
BOOST NATURAL GAS 3X SHORT DAILY ETP	3NGS	IE00B94QLN63	USD	27	0.54%	454,870	0.24%	16,847	204
BOOST WTI OIL 3X SHORT DAILY ETP	3OIS	IE00B7SX5Y86	USD	2	0.04%	39,651	0.02%	19,825	57
BOOST SHORTDAX 3X DAILY ETP (£)	3SDE	IE00B8GKPP93	GBX	5	0.10%	90,753	0.05%	18,151	57
BOOST GOLD 3X SHORT DAILY ETP (£)	3SGO	IE00B6X4BP29	GBX	2	0.04%	7,416	0.00%	3,708	89
BOOST SILVER 3X LEVERAGE DAILY ETP	3SIL	IE00B7XD2195	USD	7	0.14%	92,067	0.05%	13,152	73
BOOST SILVER 3X SHORT DAILY ETP	3SIS	IE00B8JG1787	USD	3	0.06%	46,672	0.02%	15,557	86
BOOST WTI OIL 3X SHORT DAILY ETP (£)	3SOI	IE00B7SX5Y86	GBX	3	0.06%	49,578	0.03%	16,526	57
BOOST SILVER 3X SHORT DAILY ETP (£)	3SSI	IE00B8JG1787	GBX	4	0.08%	46,133	0.02%	11,533	86
ETFS AGRICULTURE £	AGAP	GB00B15KYH63	GBX	32	0.64%	896,068	0.48%	28,002	170
ETFS ALL COMMODITIES	AGCP	GB00B15KY989	GBX	45	0.89%	315,107	0.17%	7,002	24
ETFS GRAINS	AGGP	GB00B15KYL00	GBX	8	0.16%	174,074	0.09%	21,759	43
ETFS AGRICULTURE	AIGA	GB00B15KYH63	USD	109	2.17%	12,035,429	6.44%	110,417	51
ETFS ALL COMMODITIES £	AIGC	GB00B15KY989	USD	33	0.66%	4,163,742	2.23%	126,174	17
ETFS ENERGY	AIGE	GB00B15KYB02	USD	24	0.48%	1,930,843	1.03%	80,452	106
ETFS GRAINS £	AIGG	GB00B15KYL00	USD	8	0.16%	803,515	0.43%	100,439	52
ETFS INDUSTRIAL METALS	AIGI	GB00B15KYG56	USD	35	0.70%	11,872,432	6.35%	339,212	19
ETFS LIVESTOCK	AIGL	GB00B15KYL92	USD	1	0.02%	63,824	0.03%	63,824	64
ETFS PRECIOUS METALS	AIGP	GB00B15KYP40	USD	22	0.44%	1,033,107	0.55%	46,959	113
ETFS SOFT	AIGS	GB00B15KJ87	USD	1	0.02%	1,666	0.00%	1,666	73
ETFS EX-ENERGY	AIGX	GB00B15KYD26	USD	1	0.02%	2,598	0.00%	2,598	52
ETFS ALUMINIUM	ALUM	GB00B15KXN58	USD	10	0.20%	165,790	0.09%	16,579	35
ETFS GOLD	BULL	GB00B15KXX56	USD	9	0.18%	125,576	0.07%	13,953	24
ETFS GOLD £	BULP	GB00B15KXX56	GBX	24	0.48%	145,937	0.08%	6,081	34
ETFS LONG CAD SHORT USD £	CADP	JE00B68GR13	GBX	1	0.02%	433	0.00%	433	25
ETFS CARBON SECURITIES EUR	CARB	JE00B3CG6315	EUR	3	0.06%	23,086	0.01%	7,695	535
ETFS CARBON SECURITIES GBP	CARP	JE00B3CG6315	GBX	1	0.02%	90	0.00%	90	354
ETFS LIVE CATTLE	CATL	GB00B15KY096	USD	14	0.28%	870,178	0.47%	62,156	57
ETFS LONG CHF SHORT USD £	CHFP	JE00B68GVR52	GBX	1	0.02%	31	0.00%	31	23
ETFS SHORT CHF LONG GBP	CHGB	JE00B3NKM366	GBX	4	0.08%	68,480	0.04%	17,120	25
ETFS COCOA	COCO	JE00B2QXZK10	USD	7	0.14%	354,703	0.19%	50,672	87
ETFS COFFEE	COFF	GB00B15KXP72	USD	42	0.83%	2,678,141	1.43%	63,765	100
ETFS COPPER	COPA	GB00B15KXQ89	USD	27	0.54%	3,937,750	2.11%	145,843	18
ETFS CORN	CORN	GB00B15KXS04	USD	44	0.87%	355,393	0.19%	8,077	58
ETFS COTTON	COTN	GB00B15KXT11	USD	17	0.34%	4,330,136	2.32%	254,714	67
UBS ETC(UBS BBG CMCI CORN IDX)GBP	CRNG	CH0106346544	GBP	1	0.02%	5,323	0.00%	5,323	91
ETFS WTI CRUDE OIL	CRUD	GB00B15KXV33	USD	33	0.66%	1,544,356	0.83%	46,799	10
ETFS LONGER DATED ENERGY DJ-UBSCI-F3SM	ENEF	JE00B24DMD55	USD	1	0.02%	6,384,314	3.41%	6,384,314	19
GOLD BULLION SECURITIES	EUP3	JE00B3VJDN05	GBX	7	0.14%	88,157	0.05%	12,594	37
ETFS LONGER DATED AGRICULTURE	FAGR	JE00B24DMK23	USD	9	0.18%	2,661,060	1.42%	295,673	279
GOLD BULLION SECURITIES	FAIG	JE00B24DMC49	USD	1	0.02%	20,236	0.01%	20,236	21
ETFS LONGER DATED WTI CRUDE OIL	FCRU	JE00B24DLX86	USD	1	0.02%	2,716	0.00%	2,716	36
ETFS LONGER DATED IM DJ-UBSCI-F3SM	FIND	JE00B24DMJ18	USD	2	0.04%	34,315	0.02%	17,157	46
ETFS LONG CAD SHORT GBP	GBCA	JE00B3X07W84	GBX	2	0.04%	8,490	0.00%	4,245	27
ETFS LONG CHF SHORT GBP	GBCH	JE00B3SX3R93	GBX	4	0.08%	51,062	0.03%	12,766	26
GOLD BULLION SECURITIES	GBS	GB00B00FHZ82	USD	492	9.77%	10,570,559	5.65%	21,485	5
ETFS GBP DAILY HEDGED PHYSICAL GOLD	GBSP	JE00B7VGM216	GBX	14	0.28%	158,547	0.08%	11,325	32
GOLD BULLION SECURITIES	GBSS	GB00B00FHZ82	GBX	222	4.41%	3,068,743	1.64%	13,823	7
ETFS LONGER DATED GRAINS DJ-UBSCI-F3SM	GRAF	JE00B24DMN53	USD	1	0.02%	278,031	0.15%	278,031	186
ETFS HEATING OIL	HEAT	GB00B15KXY63	USD	2	0.04%	11,991	0.01%	5,996	27
ETFS LEAN HOGS	HOGS	GB00B15KXZ70	USD	11	0.22%	627,731	0.34%	57,066	56
ISHARES PHYSICAL GOLD ETC	IGLN	IE00B4ND3602	USD	98	1.95%	3,052,720	1.63%	31,150	12
ISHARES PHYSICAL PALLADIUM ETC	IPDM	IE00B4556L06	USD	3	0.06%	19,358	0.01%	6,453	24
ISHARES PHYSICAL PLATINUM ETC	IPLT	IE00B4LHWP62	USD	3	0.06%	28,790	0.02%	9,597	20
ISHARES PHYSICAL SILVER ETC	ISLN	IE00B4NCVW09	USD	7	0.14%	189,019	0.10%	27,003	22
ETFS SHORT JPY LONG GBP	JPGB	JE00B3QBQJ84	GBX	5	0.10%	18,544	0.01%	3,709	25
ETFS DAILY LVG AGRICULTURE	LAGR	JE00B2NFT427	USD	4	0.08%	65,280	0.03%	16,320	75
ETFS DAILY LVG ALL COMMO	LALL	JE00B2NFTV571	USD	3	0.06%	27,944	0.01%	9,315	51
ETFS DAILY LVG ALUMINIUM	LALU	JE00B2NFTC05	USD	10	0.20%	91,100	0.05%	9,110	83
ETFS DAILY LVG GOLD	LBUL	JE00B2NFTL95	USD	44	0.87%	1,700,972	0.91%	38,658	31
ETFS DAILY LVG COFFEE	LCFE	JE00B2NFTD12	USD	44	0.87%	880,757	0.47%	20,017	86
ETFS LONG CNY SHORT USD £	LCNP	JE00B6822V48	GBX	1	0.02%	30	0.00%	30	216
ETFS DAILY LVG COCOA	LCOC	JE00B2NFTV803	USD	14	0.28%	1,019,041	0.54%	72,789	94
ETFS DAILY LVG COPPER	LCOP	JE00B2NFTF36	USD	6	0.12%	51,548	0.03%	8,591	42
ETFS DAILY LVG CORN	LCOR	JE00B2NFTG43	USD	46	0.91%	452,815	0.24%	9,844	106
ETFS DAILY LVG COTTON	LCTO	JE00B2NFTH59	USD	9	0.18%	99,633	0.05%	11,070	173
ETFS 3X LONG EUR SHORT USD	LEU3	JE00B3Y5F176	USD	2	0.04%	19,991	0.01%	9,995	47
ETFS 3X LONG GBP SHORT USD	LGB3	JE00B3SFBZ51	USD	2	0.04%	30,410	0.02%	15,205	44
ETFS DAILY LVG GRAINS	LGRA	JE00B2NFT757	USD	5	0.10%	63,106	0.03%	12,621	79
ETFS DAILY LVG HEATING OIL	LHEA	JE00B2NFTM03	USD	2	0.04%	9,793	0.01%	4,896	83
ETFS DAILY LVG LIVE CATTLE	LLCT	JE00B2NFTP34	USD	1	0.02%	903	0.00%	903	145
ETFS DAILY LVG LEAD	LLEA	JE00B2NFTZ32	USD	8	0.16%	441,197	0.24%	55,150	155
ETFS DAILY LVG LEAN HOGS	LLHO	JE00B2NFTN10	USD	1	0.02%	8	0.00%	8	138
ETFS DAILY LVG LIVESTOCK	LLST	JE00B2NFT864	USD	2	0.04%	274,767	0.15%	137,384	90
ETFS DAILY LVG EX-ENERGY	LNEY	JE00B2NFTF641	USD	1	0.02%	13	0.00%	13	50
ETFS DAILY LVG NATURAL GAS	LNGA	JE00B2NFTQ41	USD	57	1.13%	603,307	0.32%	10,584	141
ETFS DAILY LVG NICKEL	LNKJ	JE00B2NFTF57	USD	7	0.14%	230,233	0.12%	32,890	82
ETFS DAILY LVG ENERGY	LNRG	JE00B2NFTF534	USD	1	0.02%	1,540	0.00%	1,540	211
ETFS DAILY LVG WTI CRUDE OIL	LOIL	JE00B2NFTJ73	USD	21	0.42%	170,258	0.09%	8,108	23
ETFS DAILY LVG PLATINUM	LPLA	JE00B2NFTV134	USD	7	0.14%	27,658	0.01%	3,951	141
ETFS DAILY LVG PRECIOUS METALS	LPMT	JE00B2NFTV795	USD	5	0.10%	21,792	0.01%	4,358	93
ETFS DAILY LVG SOFTS	LSFT	JE00B2NFTB97	USD	3	0.06%	72,634	0.04%	24,211	138
ETFS DAILY LVG SILVER	LSIL	JE00B2NFTS64	USD	168	3.34%	1,419,765	0.76%	8,451	34
ETFS DAILY LVG SOYBEANS	LSOB	JE00B2NFTV93	USD	24	0.48%	2,656,945	1.42%	110,706	72
ETFS DAILY LVG SUGAR	LSUG	JE00B2NFTW01	USD	20	0.40%	211,358	0.11%	10,568	83
ETFS DAILY LVG SOYBEAN OIL	LSYO	JE00B2NFTT71	USD	9	0.18%	117,458	0.06%	13,051	103
ETFS DAILY LVG TIN	LTIM	JE00B2NFTV241	USD	3	0.06%	32,437	0.02%	10,812	114
ETFS LEVERAGED WHEAT	LWEA	JE00B2NFTX18	USD	77	1.53%	782,569	0.42%	10,163	108
ETFS DAILY LVG ZINC	LZIC	JE00B2NFTY25	USD	4	0.08%	98,415	0.05%	24,604	115
ETFS NATURAL GAS	NGAS	GB00B15KY104	USD	29	0.58%	1,083,679	0.58%	37,368	85

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Name	TIDM	ISIN	Traded Currency	Number Of Trades	Trades %	GBP Turnover	Turnover %	Average Trade Size	Time Weighted Spread (bps)
ETFS NATURAL GAS £	NGSP	GB00B15KY104	GBX	12	0.24%	56,022	0.03%	4,668	31
ETFS NICKEL	NICK	GB00B15KY211	USD	274	5.44%	1,366,175	0.73%	4,986	41
ETFS LONG NOK SHORT USD £	NOKP	JE00B68GTQ08	GBX	1	0.02%	28	0.00%	28	27
ETFS LONG NZD SHORT USD £	NZDP	JE00B68GT711	GBX	1	0.02%	190	0.00%	190	25
ETFS BRENT OIL	OILB	GB00B0CTWC01	USD	100	1.99%	14,567,560	7.79%	145,676	12
ETFS BRENT 1MTH £	OLBP	GB00B0CTWC01	GBX	9	0.18%	96,556	0.05%	10,728	33
ETFS WTI 1YR	OSW1	JE00B1YPB605	USD	1	0.02%	13,498	0.01%	13,498	44
ETFS WTI 2YR	OSW2	JE00B1YPB712	USD	1	0.02%	9,003	0.00%	9,003	50
ETFS GBP DAILY HEDGED AGRI	PAGR	JE00B6RPM472	GBX	1	0.02%	64,101	0.03%	64,101	36
ETFS GBP DAILY HEDGED ALL COM	PALL	JE00B6S1W779	GBX	1	0.02%	2,537	0.00%	2,537	26
ETFS GBP DAILY HEDGED LONGER DATED AGRI	PFAG	JE00B6NPHY601	GBX	2	0.04%	37,373	0.02%	18,686	38
ETFS PHYSICAL SILVER	PHAG	JE00B1VS3333	USD	35	0.70%	1,340,531	0.72%	38,301	15
ETFS PHYSICAL ALUMINIUM	PHAL	JE00B4MG1D30	USD	1	0.02%	1,943	0.00%	1,943	397
ETFS PHYSICAL GOLD	PHAU	JE00B1VS3770	USD	773	15.36%	23,790,750	12.72%	30,777	5
ETFS PHYSICAL COPPER	PHCU	JE00B419CB89	USD	7	0.14%	49,558	0.03%	7,080	682
ETFS PHYSICAL GOLD £	PHGP	JE00B1VS3770	GBX	465	9.24%	8,258,201	4.42%	17,760	8
ETFS PHYSICAL NICKEL	PHNI	JE00B3W0N983	USD	4	0.08%	12,557	0.01%	3,139	415
ETFS PHYSICAL PALLADIUM	PHPD	JE00B1VS3002	USD	55	1.09%	2,762,282	1.48%	50,223	25
ETFS PHYSICAL PM BSKT	PHPM	JE00B1VS3W29	USD	31	0.62%	975,761	0.52%	31,476	73
ETFS PHYSICAL PM BASKET £	PHPP	JE00B1VS3W29	GBX	30	0.60%	505,988	0.27%	16,866	81
ETFS PHYSICAL PLATINIUM	PHPT	JE00B1VS2W53	USD	54	1.07%	3,244,329	1.74%	60,080	21
ETFS PHYSICAL SILVER £	PHSP	JE00B1VS3333	GBX	83	1.65%	880,964	0.47%	10,614	24
ETFS GBP DAILY HEDGED SILVER	PSVR	JE00B6SVPM32	GBX	1	0.02%	948	0.00%	948	28
ETFS 3X SHORT USD LONG GBP	PUS3	JE00B43NB445	GBX	1	0.02%	52	0.00%	52	32
ETFS SHORT AUD LONG USD	SAD	JE00B68GQZ83	USD	3	0.06%	111,228	0.06%	37,076	26
ETFS DAILY SHORT AGRICULTURE	SAGR	JE00B24DL056	USD	1	0.02%	73,581	0.04%	73,581	40
ETFS DAILY SHORT ALUMINIUM	SALU	JE00B24DK421	USD	2	0.04%	103,457	0.06%	51,728	37
ETFS 3X SHORT AUD LONG GBP	SAP3	JE00B3WTTNN91	GBX	3	0.06%	21,188	0.01%	7,063	35
ETFS SHORT AUD LONG USD £	SAUP	JE00B68GQZ83	GBX	2	0.04%	10,255	0.01%	5,128	28
ETFS DAILY SHORT GOLD	SBUL	JE00B24DKC09	USD	4	0.08%	184,312	0.10%	46,078	33
ETFS SHORT CAD LONG USD	SCAD	JE00B68GS291	USD	1	0.02%	4,314	0.00%	4,314	22
ETFS SHORT CAD LONG USD £	SCDP	JE00B68GS291	GBX	3	0.06%	26,887	0.01%	8,962	25
ETFS DAILY SHORT COFFEE	SCFE	JE00B24DK538	USD	17	0.34%	122,734	0.07%	7,220	195
ETFS SHORT CHF LONG USD	SCHF	JE00B68GVT76	USD	1	0.02%	16,519	0.01%	16,519	29
ETFS SHORT CHF LONG USD £	SCHP	JE00B68GVT76	GBX	1	0.02%	1,181	0.00%	1,181	26
ETFS DAILY SHORT COCOA	SCOC	JE00B2NFT310	USD	4	0.08%	10,302	0.01%	2,576	121
ETFS DAILY SHORT COPPER	SCOP	JE00B24DK645	USD	18	0.36%	4,308,751	2.30%	239,375	17
ETFS DAILY SHORT CORN	SCOR	JE00B24DK751	USD	9	0.18%	404,971	0.22%	44,997	65
ETFS DAILY SHORT COTTON	SCTO	JE00B24DK868	USD	3	0.06%	119,919	0.06%	39,973	82
ETFS 3X SHORT EUR LONG USD	SEU3	JE00B3N9C970	USD	11	0.22%	118,429	0.06%	10,766	129
ETFS SHORT EUR LONG USD £	SEUP	JE00B68GSM94	GBX	10	0.20%	41,750	0.02%	4,175	24
ETFS SHORT EUR LONG USD	SEUR	JE00B68GSM94	USD	8	0.16%	28,437	0.02%	3,555	121
ETFS 3X SHORT GBP LONG USD	SGB3	JE00B3XJ8K03	USD	12	0.24%	144,866	0.08%	12,072	36
ETFS PHYSICAL SWISS GOLD	SGBS	JE00B588CD74	USD	31	0.62%	1,936,212	1.04%	62,458	18
SOURCE PHYSICAL GOLD P-ETC CERTS	SGLD	IE00B579F325	USD	55	1.09%	11,175,102	5.98%	203,184	12
ISHARES PHYSICAL GOLD ETC	SGLN	IE00B4ND3602	GBX	169	3.36%	1,215,799	0.65%	7,194	22
SOURCE PHYSICAL GOLD P-ETC	SGLP	IE00B579F325	GBX	4	0.08%	167,312	0.09%	41,828	20
ETFS DAILY SHORT GRAINS	SGRA	JE00B24DL387	USD	3	0.06%	71,794	0.04%	23,931	46
UBS ETC(UBS BBG CMCI SILVER IDX)GBP	SILG	CH0106348060	GBP	1	0.02%	139,859	0.07%	139,859	79
ETFS DAILY SHORT IM	SIME	JE00B24DKZ36	USD	3	0.06%	1,058,437	0.57%	352,812	103
ETFS 3X SHORT JPY LONG USD	SJP3	JE00B3WFM884	USD	2	0.04%	11,079	0.01%	5,539	35
ETFS SHORT JPY LONG USD £	SJPP	JE00B68GT596	GBX	4	0.08%	26,408	0.01%	6,602	125
ETFS SHORT JPY LONG USD	SJPY	JE00B68GT596	USD	9	0.18%	383,061	0.20%	42,562	104
ETFS DAILY SHORT LIVE CATTLE	SLCT	JE00B24DKG47	USD	3	0.06%	91,721	0.05%	30,574	83
ETFS DAILY SHORT LIVESTOCK	SLST	JE00B24DL270	USD	1	0.02%	229	0.00%	229	48
ETFS SILVER	SLVR	GB00B15KY328	USD	27	0.54%	306,445	0.16%	11,350	20
ETFS DAILY SHORT NATURAL GAS	SNGA	JE00B24DKH53	USD	21	0.42%	590,132	0.32%	28,102	30
ETFS DAILY SHORT NICKEL	SNIK	JE00B24DKJ77	USD	2	0.04%	19,969	0.01%	9,985	154
ETFS LONGER DATED SOFTS DJ-UBSCI-F3SM	SOFF	JE00B24DML30	USD	1	0.02%	5,984	0.00%	5,984	140
ETFS DAILY SHORT WTI CRUDE OIL	SOIL	JE00B24DK975	USD	35	0.70%	1,322,344	0.71%	37,781	14
ETFS SOYBEANS	SOYB	GB00B15KY542	USD	12	0.24%	157,938	0.08%	13,162	47
ETFS SOYBEAN OIL	SOYO	GB00B15KY435	USD	5	0.10%	144,324	0.08%	28,865	75
SOURCE PHYSICAL PALLADIUM P-ETC	SPAL	IE00B4LJS984	USD	1	0.02%	106,834	0.06%	106,834	33
ISHARES PHYSICAL PALLADIUM ETC	SPDM	IE00B4556L06	GBX	8	0.16%	33,080	0.02%	4,135	28
ISHARES PHYSICAL PLATINIUM ETC	SPLT	IE00B4LHWP62	GBX	6	0.12%	85,051	0.05%	14,175	27
ETFS DAILY SHORT PRECIOUS METALS	SPMT	JE00B24DKY29	USD	1	0.02%	27	0.00%	27	67
SOURCE PHYSICAL PLATINIUM P-ETC	SPPT	IE00B40QP990	USD	2	0.04%	18,771	0.01%	9,386	32
ETFS DAILY SHORT SOFTS	SSFT	JE00B24DL163	USD	1	0.02%	5,437	0.00%	5,437	61
ETFS DAILY SHORT SILVER	SSLI	JE00B24DKK82	USD	11	0.22%	178,673	0.10%	16,243	35
ISHARES PHYSICAL SILVER ETC	SSLN	IE00B4NCWVG09	GBX	16	0.32%	101,879	0.05%	6,367	33
SOURCE PHYSICAL SILVER P-ETC	SSLV	IE00B43VD770	USD	5	0.10%	33,653	0.02%	6,731	43
ETFS DAILY SHORT SOYBEANS	SSOB	JE00B24DKP38	USD	6	0.12%	16,864	0.01%	2,811	71
ETFS DAILY SHORT SUGAR	SSUG	JE00B24DKQ45	USD	8	0.16%	379,050	0.20%	47,381	74
ETFS DAILY SHORT SOYBEAN OIL	SSYO	JE00B24DKL99	USD	2	0.04%	187,317	0.10%	93,659	60
ETFS SUGAR	SUGA	GB00B15KY658	USD	16	0.32%	559,083	0.30%	34,943	57
ETFS 3X SHORT EUR LONG GBP	SUP3	JE00B3W0MY68	GBX	9	0.18%	73,946	0.04%	8,216	152
ETFS DAILY SHORT WHEAT	SWEA	JE00B24DKR51	USD	5	0.10%	267,500	0.14%	53,500	61
ETFS 3X SHORT JPY LONG GBP	SYP3	JE00B3TG7R50	GBX	3	0.06%	89,182	0.05%	29,727	33
ETFS TIN	TINM	JE00B2QY0H68	USD	1	0.02%	5,856	0.00%	5,856	120
ETFS GASOLINE	UGAS	GB00B15KXW40	USD	4	0.08%	62,374	0.03%	15,594	22
ETFS SHORT EUR LONG GBP	URGB	JE00B45CYD99	GBX	3	0.06%	11,593	0.01%	3,864	80
ETFS SHORT GBP LONG USD £	USD2	JE00B68GRJ90	GBX	4	0.08%	5,877	0.00%	1,469	125
ETFS SHORT USD LONG GBP	USGB	JE00B438PT24	GBX	2	0.04%	79,896	0.04%	39,948	25
ETFS 3X LONG USD SHORT GBP	USP3	JE00B3WCLY57	GBX	2	0.04%	39,952	0.02%	19,976	37
ETFS WHEAT	WEAT	GB00B15KY765	USD	127	2.52%	1,979,020	1.06%	15,583	46
UBS ETC(UBS BBG CMCI WHEAT IDX)USD	WHTU	CH0106345488	USD	1	0.02%	11,106	0.01%	11,106	95
DB ENERGY BOOSTER ETC	XCT8	GB00B3QRNJ57	USD	1	0.02%	147,461	0.08%	147,461	23
DB WTI CRUDE OIL BOOSTER ETC	XCT9	GB00B3SCOP31	USD	28	0.56%	6,692,486	3.58%	239,017	895
DB S&P GSCI AGRICULTURE ETC	XET6	GB00B330JK55	USD	3	0.06%	15,399	0.01%	5,133	50
DB S&P GSCI ENERGY ETC	XET8	GB00B455N087	USD	1	0.02%	9,017	0.00%	9,017	30
DB PHYSICAL GOLD ETC	XGLD	GB00B5840F36	USD	37	0.74%	2,433,130	1.30%	65,760	15
DB PHYSICAL GOLD GBP HEDGED ETC	XGLS	GB00B68FL050	GBX	8	0.16%	32,823	0.02%	4,103	94
DB PHYSICAL PALLADIUM ETC	XPAL	GB00B5VYVZ75	USD	13	0.26%	302,716	0.16%	23,286	278
DB PHYSICAL PLATINIUM ETC	XPLA	GB00B57GJC05	USD	15	0.30%	64,239	0.03%	4,283	51
DB PHYSICAL RHODIUM ETC	XRHO	GB00B684MW17	USD	6	0.12%	166,269	0.09%	27,712	215

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Name	TIDM	ISIN	Traded Currency	Number Of Trades	Trades %	GBP Turnover	Turnover %	Average Trade Size	Time Weighted Spread (bps)
DB PHYSICAL SILVER GBP HEDGED ETC	XSIH	GB00B65S8K69	GBX	5	0.10%	56,713	0.03%	11,343	30
DB PHYSICAL SILVER ETC	XSIL	GB00B57Y9462	USD	3	0.06%	39,683	0.02%	13,228	836
ETFS ZINC	ZINC	GB00B15KY872	USD	13	0.26%	499,367	0.27%	38,413	87



Name	TIDM	ISIN	Traded Currency	Number Of Trades	Trades %	GBP Turnover	Turnover %	Average Trade Size	Time Weighted Spread (bps)
BOOST LEVDAX 3X DAILY ETP SECS 30/11/62	3DEL	IE00B878KX55	EUR	9	5.56%	108,069	6.28%	12,008	46.3985
BOOST SHORTDAX 3X DAILY ETP SECS30/11/62	3DES	IE00B8GKPP93	EUR	6	3.70%	92,200	5.36%	15,367	52.869
BOOST EURO STOXX50 3XLEV.DAY ETP30/11/62	3EUL	IE00B7SD4R47	EUR	12	7.41%	38,934	2.26%	3,244	121.7676
BOOST EURO STOXX50 3X SHTDAYETP 30/11/62	3EUS	IE00B8JF9153	EUR	2	1.23%	42,309	2.46%	21,155	47.7926
BOOST FTSE 100 3X LEVERAGE DAILY ETP	3UKL	IE00B88D2999	GBX	44	27.16%	794,443	46.16%	18,056	44.4067
BOOST FTSE 100 3X SHORT DAILY ETP	3UKS	IE00B7VB3908	GBX	39	24.07%	333,736	19.39%	8,557	45.1914
BOOST US LARGE CAP 3XLEV DAYETP 30/11/62	3USL	IE00B7Y34M31	USD	1	0.62%	2,538	0.15%	2,538	79.514
BOOST NASDAQ 100 3X LEV.DAY ETP 30/11/62	QQQ3	IE00B8W5C578	USD	7	4.32%	48,901	2.84%	6,986	60.0217
BOOST NASDAQ 100 3X SHT DAY ETP 30/11/62	QQQS	IE00B8VZVH32	USD	15	9.26%	169,669	9.86%	11,311	383.1419
IPATH VSTOXX SHORT TERM FUTURES ETN	V SXG	DE000BC2KTT9	GBX	5	3.09%	9,989	0.58%	1,998	375.6872
IPATH VSTOXX MID TERM FUT.ETN SRS IPVSM1	V SXY	DE000BC2KYE1	EUR	2	1.23%	8,937	0.52%	4,469	368.9093
IPATH S&P 500 VIX SHORT-TERM FUTURES ETN	VXIS	DE000BC1C7Q6	GBX	20	12.35%	71,483	4.15%	3,574	445.6889

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Source: UK Markets Analysis, London Stock Exchange

NB. The Time Weighted Spread (TWS) is applied to the BBO of each security, taking the spread and time weighted element for which that spread is applicable and then aggregating for the Continuous Trading Period (excluding call auctions at the beginning and end of the period). It is calculated using best price messages and omits OTC trading. Please note that where the Time Weighted Spread is 'n/a' this indicates that the security is only OTC tradable. All trade and turnover figures shown here are a sum of order book, off book and OTC business.