

Active List - 8 to 10 symbols

Includes current positions
 Determination is made on Sunday if orders will be placed for symbol, and if so, what orders will be
 Sizing and execution tactics are determined
 Symbols and active order list are reviewed daily
 Orders are modified each day after NY close

Short List - 10 to 15 symbols

Includes markets in which Factor has positions
 Charts are in late stages of a mature pattern
 The daily charts of these symbols are viewed each afternoon after NY close
 8 to 10 symbols from this list will be called to the Active List

Long List Symbols -- typically 20 to 25 symbols

Daily chart is looked at. Many of these many be patterns weeks away from completing a pattern. Unless moved to the short list or deleted from Long List they will be viewed weekly.

Factor Full Symbol Scroll

The Full Scroll is done once each week starting Thursday after NY close and concluding Friday AM mid morning
 The Full Scroll usually takes an hour to 90 minutes. If I have to "study" a chart I know it is time to move on. Something on a chart must reach out and bite me.
 Scroll of weekly charts of 900+ symbols, many for markets I do not trade, but to simply help me gain a global perspective. Some viewed for split second. Many charts are related (different delivery months of same market, different continuation chart type)
 Charts are flagged and moved to the Long List if there is something on the chart which caughtes my eye.
 I need to periodical modify this list, dropped expired futures contracts and adding new ones. Also I will add stocks that hit my radar screen.

Symbol Group: AA Current watch list

Description:

Symbol /	Description
\$AUD-CAD	Australian Dollar/Can Dollar @ FORXNY
\$AUD-CHF	Australian Dollar/Swiss Franc @ FORXNY
\$AUD-EUR	Australian Dollar/Euro @ FORXNY
\$AUD-JPY	Australian Dollar/Japanese Yen @ FORXNY
\$AUD-NZD	Australian Dollar/NZ Dollar @ FORXNY
\$AUD-USD	Australian Dollar/US Dollar @ FORXNY
\$BTC-USD@GDAX	BitCoin/US Dollar @ GDAX
\$BTC-UST@BINA	Bitcoin/US \$ Tether @ BINA
\$CAC	CAC Index @ PSE
\$CAD-CHF	Canadian Dollar/Swiss Franc @ FORXNY
\$CAD-JPY	Canadian Dollar/Japanese Yen @ FORXNY
\$CHF-JPY	Swiss Franc/Japanese Yen @ FORXNY
\$DAX	Dax Index @ FKFT
\$DJCA	Dow Jones Composite Index
\$DJIA	Dow Jones Industrials Index
\$DJTA	Dow Jones Transport Index
\$DJUA	Dow Jones Utilities Index
\$DX	Dollar Index (NYBOT) @ ICE-US
\$ETH-USD@GDAX	Ethereum/US Dollar @ GDAX
\$EUR-AUD	Euro/Australian Dollar @ FORXNY
\$EUR-CAD	Euro/Canadian Dollar @ FORXNY
\$EUR-CHF	Euro/Swiss Franc @ FORXNY
\$EUR-CZK	Euro/Czech Koruna @ FORXNY
\$EUR-GBP	Euro/British Pound @ FORXNY
\$EUR-JPY	Euro/Japanese Yen @ FORXNY
\$EUR-NOK	Euro/Norwegian Krone @ FORXNY
\$EUR-NZD	Euro/New Zealand Dollar @ FORXNY
\$EUR-PLN	Euro/Poland Zloty @ FORXNY
\$EUR-RUB	Euro / Russian Ruble @ FORXNY
\$EUR-SEK	Euro/Swedish Krona @ FORXNY
\$EUR-SGD	Euro/Singapore Dollar @ FORXNY
\$EUR-TRY	Euro/Turkish Lira @ FORXNY
\$EUR-USD	Euro/US Dollar @ FORXNY
\$FTSE	FTSE 100 Index @ LSE
\$GBP-AUD	Br Pound/Australian Dollar @ FORXNY
\$GBP-CAD	British Pound/Canadian Dollar @ FORXNY
\$GBP-CHF	British Pound/Swiss Franc @ FORXNY
\$GBP-CZK	British Pound/Czech Koruna @ FORXNY
\$GBP-DKK	British Pound/Danish Krone @ FORXNY
\$GBP-JPY	British Pound/Japanese Yen @ FORXNY
\$GBP-NOK	British Pound/Norwegian Krone @ FORXNY
\$GBP-NZD	British Pound/NZ Dollar @ FORXNY
\$GBP-PLN	British Pound/Poland Zloty @ FORXNY
\$GBP-USD	British Pound/US Dollar @ FORXNY

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Symbol /	Description
\$GBP-ZAR	Br Pound/South African Rand @ FORXNY
\$HSIX	Hang Seng Index @ HKSE
\$IRX	13-week T-bill Index @ CBOT
\$JPN	Japan Index
\$KOSPI	KOSPI Composite Index @ KRX
\$LTC-USD@GDAX	LiteCoin/US Dollar @ GDAX
\$MXV	Mexico Index
\$N225	Nikkei 225 Index @ TSE
\$NDX	Nasdaq 100 Index @ OPRA
\$NOK-SEK	Norwegian Krone/Swedish Krona @ FORXNY
\$NYA	Nyse Composite Index
\$NZD-CAD	NZ Dollar/Canadian Dollar @ FORXNY
\$NZD-CHF	New Zealand Dollar/Swiss Franc @ FORXNY
\$NZD-JPY	New Zealand Dollar/Japanese Yen @ FORXNY
\$NZD-SEK	NZ Dollar/Swedish Krona @ FORXNY
\$NZD-USD	New Zealand Dollar/US Dollar @ FORXNY
\$OEX	S&p 100 Index @ OPRA
\$PSEI	Philippines Composite Index
\$PSI20	Portugal PSI-20 Index @ PSI
\$RUT	Russell 2000 Index @ OPRA
\$SPX	S&P 500 Index @ OPRA
\$SSE	Shanghai Composite Index @ SHG
\$STXX50E	Euro STOXX 50 Index @ PRSE
\$SXXP	DJ STOXX Europe 600 @ PRSE
\$TSX300	Toronto TSX 300 @ TSX
\$US10	US 10 Year Bond Yield @ CBOT
\$US30	US 30 Year Bond Yield @ CBOT
\$USD-BRL	US Dollar / Brazilian Real @ FORXNY
\$USD-CAD	US Dollar/Canadian Dollar @ FORXNY
\$USD-CHF	US Dollar/Swiss Franc @ FORXNY
\$USD-CNH@OEC	OEC--US \$/China Offshore Spot @ OEC4X
\$USD-CNY	US Dollar/Chinese Yuan @ FORXNY
\$USD-DKK	US Dollar/Danish Krone @ FORXNY
\$USD-INR	US Dollar/Indian Rupee @ FORXNY
\$USD-ISK	US Dollar/Iceland Krona @ FORXNY
\$USD-JPY	US Dollar/Japanese Yen @ FORXNY
\$USD-KRW	US Dollar/Korean Won @ FORXNY
\$USD-MXN	US Dollar/Mexican Peso @ FORXNY
\$USD-NOK	US Dollar/Norwegian Krone @ FORXNY
\$USD-PLN	US Dollar/Poland Zloty @ FORXNY
\$USD-RUB	US Dollar / Russian Ruble @ FORXNY
\$USD-SEK	US Dollar/Swedish Krona @ FORXNY
\$USD-SGD	US Dollar/Singapore Dollar @ FORXNY
\$USD-TRY	US Dollar/Turkish Lira @ FORXNY
\$USD-ZAR	US Dollar/South African Rand @ FORXNY
\$XAO@ASX	ASX - All Ordinaries @ ASX
AAPL	Apple Inc. @ NASDAQ
AMZN	Amazon.com, Inc. @ NASDAQ
AP-056	SPI 200 Index (Elec) Cont Exp @ SFE
AP-201903	SPI 200 Index (Elec) Mar 2019 @ SFE

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Symbol /	Description
AX-056	Canada Bank Acc 3Mo Cont Exp @ MFE
BAP	Credicorp Ltd. @ NYSE
BRK_A	Berkshire Hathaway Inc. @ NYSE
BRK_B	Berkshire Hathaway Inc. @ NYSE
BTC-055	CME Bitcoin (USD) Cont 1st @ CME
BTC-056	CME Bitcoin (USD) Cont Exp @ CME
BTC-201901	CME Bitcoin (USD) Jan 2019 @ CME
BTC-201902	CME Bitcoin (USD) Feb 2019 @ CME
C-099	Corn CBT (Pit) Cash @ CBOT
CC-055	Cocoa NYBT (Elec) Cont 1st @ ICE-US
CC-057	Cocoa NYBT (Elec) Cont Liq @ ICE-US
CC-201903	Cocoa NYBT (Elec) Mar 2019 @ ICE-US
CG-055	Canada 10 Yr Govt Bd Cont 1st @ MFE
CG-056	Canada 10 Yr Govt Bd Cont Exp @ MFE
CG-057	Canada 10 Yr Govt Bd Cont Liq. @ MFE
CL-099	Crude Oil NY - Cash @ NYMEX
CL3-055	Crude Oil NY (Elec) Cont 1st @ NYMEX
CL3-056	Crude Oil NY (Elec) Cont Exp @ NYMEX
CL3-057	Crude Oil NY (Elec) Cont Liq @ NYMEX
CL3-066	Crude Oil NY (Elec) CAdj Exp @ NYMEX
CL3-067	Crude Oil NY (Elec) CAdj Liq @ NYMEX
CL3-201902	Crude Oil NY (Elec) Feb 2019 @ NYMEX
CL3-201903	Crude Oil NY (Elec) Mar 2019 @ NYMEX
CN-056	SGX FTSE China A50 Cont Exp @ SGX
CN-057	SGX FTSE China A50 Cont Liq @ SGX
CN-201901	SGX FTSE China A50 Jan 2019 @ SGX
CN-201903	SGX FTSE China A50 Mar 2019 @ SGX
CORN	Teucrium Corn Fund @ NYSE
CR-056	Crb Index Cont Exp @ ICE-US
CR-057	Crb Index Cont Liq. @ ICE-US
CT-055	Cotton #2 (Elec) Cont 1st @ ICE-US
CT-056	Cotton #2 (Elec) Cont Exp @ ICE-US
CT-057	Cotton #2 (Elec) Cont Liq @ ICE-US
CT-201903	Cotton #2 (Elec) Mar 2019 @ ICE-US
DIA	SPDR Dow Jones Industrial Aver @ NYSE
DM-056	Deutsche Mark Cont Exp @ CME
DM-057	Deutsche Mark Cont Liq. @ CME
DX-055	US Dollar Index (ETH) Cont 1st @ ICE-US
DX-056	US Dollar Index (ETH) Cont Exp @ ICE-US
DX-057	US Dollar Index (ETH) Cont Liq @ ICE-US
DX-067	US Dollar Index (ETH) Cont Liq @ ICE-US
DX-201903	US Dollar Index (ETH) Mar 2019 @ ICE-US
DX9-099	US Dollar Index Cash @ ICE-US
EBI-056	German Bund EURX Cont Exp @ EUR
EBI-057	German Bund EURX Cont Liq. @ EUR
EBM-056	German Bobl EURX Cont Exp @ EUR
EBM-057	German Bobl EURX Cont Liq. @ EUR
EBS-056	German Schatz EURX Cont Exp @ EUR
EBS-057	German Schatz EURX Cont Liq. @ EUR
EMD-056	E-Mini S&P Midcap 400 Cont Exp @ CME

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Symbol /	Description
EN3-056	Nikkei 225 SGX Elec Cont Exp @ SGX
EN3-057	Nikkei 225 SGX Elec Cont Liq @ SGX
ES-055	E-Mini S&P 500 Cont 1st @ CME
ES-056	E-Mini S&P 500 Cont Exp @ CME
ES-057	E-Mini S&P 500 Cont Liq. @ CME
ES-201903	E-Mini S&P 500 Mar 2019 @ CME
EWM	iShares MSCI Malaysia Index Fu @ NYSE
EWS	iShares MSCI Singapore Index F @ NYSE
EWU	iShares MSCI United Kingdom In @ NYSE
EWUS	iShr MSCI United Kingdom SmlCp @ NYSE
EWY	iShares MSCI South Korea Index @ NYSE
EX-055	DJ Euro STOXX 50 Cont 1st @ EUR
EX-056	DJ Euro STOXX 50 Cont Exp @ EUR
EX-057	DJ Euro STOXX 50 Cont Liq @ EUR
EX-067	DJ Euro STOXX 50 CAdj Liq @ EUR
EX-201903	DJ Euro STOXX 50 Mar 2019 @ EUR
FB	Facebook, Inc. @ NASDAQ
FCE-056	CAC 40 Index Cont Exp @ MATIF
FCE-057	CAC 40 Index Cont Liq. @ MATIF
FCE-201903	CAC 40 Index Mar 2019 @ MATIF
FCX	Freeport-McMoran Copper & Gold @ NYSE
FEI-056	Euribor 3Mo LIFFE Cont Exp @ LIFFE
FEI-201909	Euribor 3Mo LIFFE Sep 2019 @ LIFFE
FEI-201912	Euribor 3Mo LIFFE Dec 2019 @ LIFFE
FFA-056	Federal Funds (Comb) Cont Exp @ CBOT
FLI-056	Euro Libor (3 Month) Cont Exp @ LIFFE
FNG-056	FANG+ NYSE Index Cont Exp @ ICE-US
FWH-055	Milling Wheat (MATIF) Cont 1st @ MATIF
FWH-201903	Milling Wheat (MATIF) Mar 2019 @ MATIF
FXC	CurrencyShares Canadian Dollar @ NYSE
FXE	CurrencyShares Euro Trust @ NYSE
FXI	iShares FTSE China Index Fund @ NYSE
G6A-056	Australian \$ (Elec) Cont Exp @ CME
G6A-057	Australian \$ (Elec) Cont Liq @ CME
G6A-201903	Australian \$ (Elec) Mar 2019 @ CME
G6B-057	British Pound (Elec) Cont Liq @ CME
G6B-201903	British Pound (Elec) Mar 2019 @ CME
G6C-056	Canadian \$ (Elec) Cont Exp @ CME
G6C-057	Canadian \$ (Elec) Cont Liq @ CME
G6C-201903	Canadian \$ (Elec) Mar 2019 @ CME
G6E-056	Euro FX (Elec) Cont Exp @ CME
G6E-057	Euro FX (Elec) Cont Liq @ CME
G6E-201903	Euro FX (Elec) Mar 2019 @ CME
G6J-056	Japanese Yen (Elec) Cont Exp @ CME
G6J-057	Japanese Yen (Elec) Cont Liq @ CME
G6J-201903	Japanese Yen (Elec) Mar 2019 @ CME
G6M-056	Mexican Peso (Elec) Cont Exp @ CME
G6M-057	Mexican Peso (Elec) Cont Liq. @ CME
G6M-066	Mexican Peso (Elec) Cadj Exp @ CME
G6M-201903	Mexican Peso (Elec) Mar 2019 @ CME

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Symbol /	Description
G6N-056	New Zealand \$ (Elec) Cont Exp @ CME
G6N-057	New Zealand \$ (Elec) Cont Liq @ CME
G6N-201903	New Zealand \$ (Elec) Mar 2019 @ CME
G6S-056	Swiss Franc (Elec) Cont Exp @ CME
G6S-201903	Swiss Franc (Elec) Mar 2019 @ CME
GC3-055	Comex Gold (Elec) Cont 1st @ NYMEX
GC3-056	Comex Gold (Elec) Cont Exp @ NYMEX
GC3-057	Comex Gold (Elec) Cont Liq @ NYMEX
GC3-065	Comex Gold (Elec) CAdj 1st @ NYMEX
GC3-067	Comex Gold (Elec) CAdj Liq @ NYMEX
GC3-201902	Comex Gold (Elec) Feb 2019 @ NYMEX
GC3-201904	Comex Gold (Elec) Apr 2019 @ NYMEX
GDX	Market Vectors Gold Miners ETF @ NYSE
GDXJ	Market Vectors Junior Gold Min @ NYSE
GE-056	Eurodollar CME (Elec) Cont Exp @ CME
GE-057	Eurodollar CME (Elec) Cont Liq @ CME
GE-201903	Eurodollar CME (Elec) Mar 2019 @ CME
GE-201909	Eurodollar CME (Elec) Sep 2019 @ CME
GE-201912	Eurodollar CME (Elec) Dec 2019 @ CME
GE-202003	Eurodollar CME (Elec) Mar 2020 @ CME
GE-202012	Eurodollar CME (Elec) Dec 2020 @ CME
GE-202112	Eurodollar CME (Elec) Dec 2021 @ CME
GE-202212	Eurodollar CME (Elec) Dec 2022 @ CME
GF-055	Feeder Cattle (Elec) Cont 1st @ CME
GF-056	Feeder Cattle (Elec) Cont Exp @ CME
GF-057	Feeder Cattle (Elec) Cont Liq @ CME
GF-201904	Feeder Cattle (Elec) Apr 2019 @ CME
GG	Goldcorp Incorporated @ NYSE
GLD	SPDR Gold Trust @ NYSE
GOOG	Google, Class C @ NASDAQ
GX-056	DAX Index EUREX Cont Exp @ EUR
GX-057	DAX Index EUREX Cont Liq @ EUR
GX-201903	DAX Index EUREX Mar 2019 @ EUR
HBM	Hudbay Minerals Inc @ NYSE
HE-056	Lean Hogs (Elec) Cont Exp @ CME
HE-057	Lean Hogs (Elec) Cont Liq @ CME
HE-066	Lean Hogs (Elec) Cadj Exp @ CME
HE-067	Lean Hogs (Elec) Cadj Liq @ CME
HE-201904	Lean Hogs (Elec) Apr 2019 @ CME
HG3-055	Copper HG NYMX (Elec) Cont 1st @ NYMEX
HG3-056	Copper HG NYMX (Elec) Cont Exp @ NYMEX
HG3-057	Copper HG NYMX (Elec) Cont Liq @ NYMEX
HG3-067	Copper HG NYMX (Elec) Cadj Liq @ NYMEX
HG3-201903	Copper HG NYMX (Elec) Mar 2019 @ NYMEX
HO-099	Heating Oil NY (Pit) Cash @ NYMEX
HO3-056	Heating Oil NY (Elec) Cont Exp @ NYMEX
HO3-057	Heating Oil NY (Elec) Cont Liq @ NYMEX
HO3-067	Heating Oil NY (Elec) CAdj Liq @ NYMEX
HO3-201812	Heating Oil NY (Elec) Dec 2018 @ NYMEX
HO3-201903	Heating Oil NY (Elec) Mar 2019 @ NYMEX

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Symbol /	Description
HS-056	Hang Seng Index Cont Exp @ HKF
HS-057	Hang Seng Index Cont Liq. @ HKF
IBB	iShares Nasdaq Biotechnology I @ NASDAQ
IC-055	Brent Crude Oil IPE Cont 1st @ ICE
IC-056	Brent Crude Oil IPE Cont Exp @ ICE
IC-057	Brent Crude Oil IPE Cont Liq. @ ICE
IC-201903	Brent Crude Oil IPE Mar 2019 @ ICE
IEF	iShares 7-10 Year Treasury Bon @ NASDAQ
IJR	iShares S&P SmallCap 600 Index @ NYSE
INDA	iShares MSCI India Index Fund @ NYSE
IP-055	Gas Oil IPE Cont 1st @ ICE
IP-057	Gas Oil IPE Cont Liq. @ ICE
IP-201903	Gas Oil IPE Mar 2019 @ ICE
IWM	iShares Russell 2000 Index Fun @ NYSE
IWN	iShares Russell 2000 Value Ind @ NYSE
IYT	iShares Dow Jones Transportati @ NYSE
JI-056	Topix Index TSE Cont Exp @ TSE
JI-057	Topix Index TSE Cont Liq. @ TSE
JNE-056	Mini Nikkei Osaka Cont Exp @ OSA
JNE-201903	Mini Nikkei Osaka Mar 2019 @ OSA
JNI-056	Nikkei 225 Osaka Cont Exp @ OSA
JNI-057	Nikkei 225 Osaka Cont Liq @ OSA
JNI-201903	Nikkei 225 Osaka Mar 2019 @ OSA
JO-055	Orange Juice (Elec) Cont 1st @ ICE-US
JO-056	Orange Juice (Elec) Cont Exp @ ICE-US
JO-057	Orange Juice (Elec) Cont Liq @ ICE-US
KC-055	Coffee (Elec) Cont 1st @ ICE-US
KC-056	Coffee (Elec) Cont Exp @ ICE-US
KC-057	Coffee (Elec) Cont Liq @ ICE-US
KC-201903	Coffee (Elec) Mar 2019 @ ICE-US
KW3-055	Wheat KCBT (Elec) Cont 1st @ KBT
KW3-056	Wheat KCBT (Elec) Cont Exp @ KBT
KW3-057	Wheat KCBT (Elec) Cont Liq @ KBT
KW3-067	Wheat KCBT (Elec) CAdj Liq @ KBT
KW3-201903	Wheat KCBT (Elec) Mar 2019 @ KBT
LA3-023	LME Aluminium (Elec) 3mo @ LME
LA3-025	LME Aluminium (Elec) 15mo @ LME
LB3-056	Lumber (Elec) Cont Exp @ CME
LB3-057	Lumber (Elec) Cont Liq @ CME
LB3-201903	Lumber (Elec) Mar 2019 @ CME
LC-099	Live Cattle Cash @ CME
LCC-057	Cocoa LCE Cont Liq. @ LIFFE
LCC-201903	Cocoa LCE Mar 2019 @ LIFFE
LCF-055	Robusta Coffee LCE Cont 1st @ LIFFE
LCF-057	Robusta Coffee LCE Cont Liq. @ LIFFE
LCF-201903	Robusta Coffee LCE Mar 2019 @ LIFFE
LCU-023	LME Copper (Pit) 3mo @ LME
LE-056	Live Cattle (Elec) Cont Exp @ CME
LE-057	Live Cattle (Elec) Cont Liq @ CME
LE-066	Live Cattle (Elec) Cadj Exp @ CME

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Symbol /	Description
LE-067	Live Cattle (Elec) Cadj Liq @ CME
LE-201904	Live Cattle (Elec) Apr 2019 @ CME
LK3-023	LME Copper (Elec) 3mo @ LME
LL-057	Long Gilt LIFFE Cont Liq. @ LIFFE
LM3-023	LME N.Am. Alum (Elec) 3mo @ LME
LN3-023	LME Nickel (Elec) 3mo @ LME
LP3-023	LME Lead (Elec) 3mo @ LME
LS3-023	LME Tin (Elec) 3mo @ LME
LSU-056	White Sugar LCE Cont Exp @ LIFFE
LSU-057	White Sugar LCE Cont Liq. @ LIFFE
LSU-201903	White Sugar LCE Mar 2019 @ LIFFE
LU-056	EuroSwiss 3Mo LIFFE Cont Exp @ LIFFE
LU-057	EuroSwiss 3Mo LIFFE Cont Liq @ LIFFE
LU-201812	EuroSwiss 3Mo LIFFE Dec 2018 @ LIFFE
LU-201903	EuroSwiss 3Mo LIFFE Mar 2019 @ LIFFE
LU-201906	EuroSwiss 3Mo LIFFE Jun 2019 @ LIFFE
LU-201909	EuroSwiss 3Mo LIFFE Sep 2019 @ LIFFE
LU-201912	EuroSwiss 3Mo LIFFE Dec 2019 @ LIFFE
LU-202006	EuroSwiss 3Mo LIFFE Jun 2020 @ LIFFE
LU-202009	EuroSwiss 3Mo LIFFE Sep 2020 @ LIFFE
LULU	lululemon athletica inc. @ NASDAQ
LZ3-023	LME Zinc (Elec) 3mo @ LME
MME-056	Mini MSCI Emerg Mkts Cont Exp @ ICE-US
MME-057	Mini MSCI Emerg Mkts Cont Liq @ ICE-US
MME-201903	Mini MSCI Emerg Mkts Mar 2019 @ ICE-US
MMM	3M Company @ NYSE
MO	Altria Group @ NYSE
MP-057	Mexican Peso (Pit) Cont Liq. @ CME
MSFT	Microsoft Corporation @ NASDAQ
MWE-055	Wheat MGE (Elec) Cont 1st @ MGE
MWE-056	Wheat MGE (Elec) Cont Exp @ MGE
MWE-057	Wheat MGE (Elec) Cont Liq. @ MGE
MWE-201903	Wheat MGE (Elec) Mar 2019 @ MGE
NG3-055	Natural Gas NY (Elec) Cont 1st @ NYMEX
NG3-056	Natural Gas NY (Elec) Cont Exp @ NYMEX
NG3-057	Natural Gas NY (Elec) Cont Liq @ NYMEX
NG3-066	Natural Gas NY (Elec) CAAdj Exp @ NYMEX
NG3-067	Natural Gas NY (Elec) CAAdj Liq @ NYMEX
NG3-201903	Natural Gas NY (Elec) Mar 2019 @ NYMEX
NK3-057	Nikkei 225 CME (Elec) Cont Liq @ CME
NK3-201903	Nikkei 225 CME (Elec) Mar 2019 @ CME
NQ-056	E-Mini Nasdaq 100 Cont Exp @ CME
NQ-057	E-Mini Nasdaq 100 Cont Liq. @ CME
NQ-201903	E-Mini Nasdaq 100 Mar 2019 @ CME
NVDA	NVIDIA Corporation @ NASDAQ
PA-067	Palladium (Pit) Cadj Liq @ NYMEX
PA3-056	Palladium (Elec) Cont Exp @ NYMEX
PA3-057	Palladium (Elec) Cont Liq @ NYMEX
PA3-201903	Palladium (Elec) Mar 2019 @ NYMEX
PL3-055	Platinum (Elec) Cont 1st @ NYMEX

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Symbol /	Description
PL3-057	Platinum (Elec) Cont Liq. @ NYMEX
PL3-201904	Platinum (Elec) Apr 2019 @ NYMEX
PSQ	ProShares Short QQQ @ NYSE
QG-056	e-miNY Natural Gas Cont Exp @ NYMEX
QG-057	e-miNY Natural Gas Cont Liq @ NYMEX
QG-201902	e-miNY Natural Gas Feb 2019 @ NYMEX
QG-201903	e-miNY Natural Gas Mar 2019 @ NYMEX
QM-055	e-miNY Crude Oil Cont 1st @ NYMEX
QM-056	e-miNY Crude Oil Cont Exp @ NYMEX
QM-057	e-miNY Crude Oil Cont Liq @ NYMEX
QM-201903	e-miNY Crude Oil Mar 2019 @ NYMEX
QQQ	Invesco QQQ Trust, Series 1 @ NASDAQ
RB3-055	RBOB Gasoline (Elec) Cont 1st @ NYMEX
RB3-056	RBOB Gasoline (Elec) Cont Exp @ NYMEX
RB3-057	RBOB Gasoline (Elec) Cont Liq @ NYMEX
RB3-067	RBOB Gasoline (Elec) CAdj Liq @ NYMEX
RB3-201903	RBOB Gasoline (Elec) Mar 2019 @ NYMEX
RL-057	Russ 1000 Mini (ETH) Cont Liq @ ICE-US
RS-055	Vancouver Rapeseed Cont 1st @ WCE
RS-057	Vancouver Rapeseed Cont Liq. @ WCE
RS-201903	Vancouver Rapeseed Mar 2019 @ WCE
RTY-056	Russell 2000 mini CME Cont Exp @ CME
RTY-057	Russell 2000 mini CME Cont Liq @ CME
RTY-201903	Russell 2000 mini CME Mar 2019 @ CME
RWM	ProShares Short Russell2000 @ NYSE
S-099	Soybeans CBT (Pit) Cash @ CBOT
SB-055	Sugar #11 (Elec) Cont 1st @ ICE-US
SB-056	Sugar #11 (Elec) Cont Exp @ ICE-US
SB-057	Sugar #11 (Elec) Cont Liq @ ICE-US
SB-065	Sugar #11 (Elec) CAdj 1st @ ICE-US
SB-066	Sugar #11 (Elec) CAdj Exp @ ICE-US
SB-067	Sugar #11 (Elec) CAdj Liq @ ICE-US
SB-201903	Sugar #11 (Elec) Mar 2019 @ ICE-US
SB-201905	Sugar #11 (Elec) May 2019 @ ICE-US
SF-056	Swiss Franc (Pit) Cont Exp @ CME
SF-057	Swiss Franc (Pit) Cont Liq. @ CME
SGGFF	Ipath.B Sugar TR ETN
SH	ProShares Short S&P500 @ NYSE
SHY	iShares 1-3 Year Treasury Bond @ NASDAQ
SI-198005	Silver Comex (Pit) May 1980 @ NYMEX
SI-198007	Silver Comex (Pit) Jul 1980 @ NYMEX
SI3-055	Comex Silver (Elec) Cont 1st @ NYMEX
SI3-056	Comex Silver (Elec) Cont Exp @ NYMEX
SI3-057	Comex Silver (Elec) Cont Liq @ NYMEX
SI3-067	Comex Silver (Elec) CAdj Liq @ NYMEX
SI3-201903	Comex Silver (Elec) Mar 2019 @ NYMEX
SILJ	PureFunds ISE Junior Silver (S @ NYSE
SJB-057	Jap Gvt Bnd Mini SGX Cont Liq @ SGX
SLV	iShares Silver Trust @ NYSE
SM-057	Soybean Meal (Pit) Cont Liq. @ CBOT

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Symbol /	Description
SM-099	Soybean Meal (Pit) Cash @ CBOT
SMI-056	Swiss Market Index Cont Exp
SMI-057	Swiss Market Index Cont Liq @ EUR
SNF-056	CNX Nifty Index SGX Cont Exp @ SGX
SNF-057	CNX Nifty Index SGX Cont Liq @ SGX
SNF-201901	CNX Nifty Index SGX Jan 2019 @ SGX
SNF-201903	CNX Nifty Index SGX Mar 2019 @ SGX
SPY	SPDR S&P 500 ETF Trust @ NYSE
SR-057	Sterling 3Mo LIFFE Cont Liq @ LIFFE
SSG-055	MSCI Singapore SGX Cont 1st @ SGX
SSG-056	MSCI Singapore SGX Cont Exp @ SGX
SSG-057	MSCI Singapore SGX Cont Liq @ SGX
TBT	ProShares UltraShort 20+ Year @ NYSE
TF-056	Russell 2000 mini ETH Cont Exp @ ICE-US
TF-057	Russell 2000 mini ETH Cont Liq @ ICE-US
TLT	iShares 20+ Year Treasury Bond @ NASDAQ
TW2-056	MSCI Taiwan SGX Comb Cont Exp @ SGX
TW3-056	MSCI Taiwan SGX Elec Cont Exp @ SGX
TW3-057	MSCI Taiwan SGX Elec Cont Liq @ SGX
TWTR	Twitter, Inc. @ NYSE
UB-056	Ultra T-Bond (Elec) Cont Exp @ CBOT
UB-057	Ultra T-Bond (Elec) Cont Liq @ CBOT
UGA	United States Gasoline Fund LP @ NYSE
UNG	United States Natural Gas Fund @ NYSE
URA	Global X Uranium ETF @ NYSE
USO	United States Oil Fund LP @ NYSE
W-099	Wheat CBT (Pit) Cash @ CBOT
W20-056	WIG20 Index Future Cont Exp @ WSE
W20-057	WIG20 Index Future Cont Liq @ WSE
XK-055	Mini-Sized Gold Cont 1st @ CBOT
XK-057	Mini-Sized Gold Cont Liq. @ CBOT
XK-201902	Mini-Sized Gold Feb 2019 @ CBOT
XLF	Financial Select Sector SPDR F @ NYSE
XLV	Health Care Select Sector SPDR @ NYSE
XY-055	Mini-Sized Silver Cont 1st @ CBOT
XY-057	Mini-Sized Silver Cont Liq. @ CBOT
XY-201903	Mini-Sized Silver Mar 2019 @ CBOT
YM-056	Mini-Sized Dow (\$5) Cont Exp @ CBOT
YM-057	Mini-Sized Dow (\$5) Cont Liq @ CBOT
YM-201903	Mini-Sized Dow (\$5) Mar 2019 @ CBOT
YT3-056	T-Bonds 3Yr Elec Cont Exp @ SFE
YT3-057	T-Bonds 3Yr Elec Cont Liq @ SFE
YX-057	NYSE Composite Index Cont Liq. @ ICE-US
ZB-055	T-Bonds 30Yr CBT Elec Cont 1st @ CBOT
ZB-056	T-Bonds 30Yr CBT Elec Cont Exp @ CBOT
ZB-057	T-Bonds 30Yr CBT Elec Cont Liq @ CBOT
ZB-067	T-Bonds 30Yr CBT Elec Cadj Liq @ CBOT
ZB-201903	T-Bonds 30Yr CBT Elec Mar 2019 @ CBOT
ZC-055	Corn CBT (Elec) Cont 1st @ CBOT
ZC-056	Corn CBT (Elec) Cont Exp @ CBOT

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Symbol /	Description
ZC-057	Corn CBT (Elec) Cont Liq @ CBOT
ZC-067	Corn CBT (Elec) Cadj Liq @ CBOT
ZC-201903	Corn CBT (Elec) Mar 2019 @ CBOT
ZC-201907	Corn CBT (Elec) Jul 2019 @ CBOT
ZC-201912	Corn CBT (Elec) Dec 2019 @ CBOT
ZE-055	Ethanol CBOT (Elec) 1st Cont @ CBOT
ZE-201902	Ethanol CBOT (Elec) Feb 2019 @ CBOT
ZF-057	T-Notes 5Yr CBT Elec Cont Liq @ CBOT
ZF-201903	T-Notes 5Yr CBT Elec Mar 2019 @ CBOT
ZIV	Credit Suisse AG @ NASDAQ
ZL-055	Soybean Oil (Elec) Cont 1st @ CBOT
ZL-056	Soybean Oil (Elec) Cont Exp @ CBOT
ZL-057	Soybean Oil (Elec) Cont Liq @ CBOT
ZL-067	Soybean Oil (Elec) Cadj Liq @ CBOT
ZL-201903	Soybean Oil (Elec) Mar 2019 @ CBOT
ZL-201905	Soybean Oil (Elec) May 2019 @ CBOT
ZL-201912	Soybean Oil (Elec) Dec 2019 @ CBOT
ZM-055	Soybean Meal (Elec) Cont 1st @ CBOT
ZM-056	Soybean Meal (Elec) Cont Exp @ CBOT
ZM-057	Soybean Meal (Elec) Cont Liq @ CBOT
ZM-067	Soybean Meal (Elec) Cadj Liq @ CBOT
ZM-201903	Soybean Meal (Elec) Mar 2019 @ CBOT
ZM-201907	Soybean Meal (Elec) Jul 2019 @ CBOT
ZM-201912	Soybean Meal (Elec) Dec 2019 @ CBOT
ZN-056	T-Notes 10Yr CBT Elec Cont Exp @ CBOT
ZN-057	T-Notes 10Yr CBT Elec Cont Liq @ CBOT
ZN-201903	T-Notes 10Yr CBT Elec Mar 2019 @ CBOT
ZO-056	Oats CBT (Elec) Cont Exp @ CBOT
ZO-057	Oats CBT (Elec) Cont Liq @ CBOT
ZO-201903	Oats CBT (Elec) Mar 2019 @ CBOT
ZQ-056	Federal Funds (Elec) Cont Exp @ CBOT
ZR-055	Rough Rice (Elec) Cont 1st @ CBOT
ZR-057	Rough Rice (Elec) Cont Liq @ CBOT
ZR-201903	Rough Rice (Elec) Mar 2019 @ CBOT
ZS-055	Soybeans CBT (Elec) Cont 1st @ CBOT
ZS-056	Soybeans CBT (Elec) Cont Exp @ CBOT
ZS-057	Soybeans CBT (Elec) Cont Liq @ CBOT
ZS-065	Soybeans CBT (Elec) Cadj 1st @ CBOT
ZS-066	Soybeans CBT (Elec) Cadj Exp @ CBOT
ZS-067	Soybeans CBT (Elec) Cadj Liq @ CBOT
ZS-201903	Soybeans CBT (Elec) Mar 2019 @ CBOT
ZS-201905	Soybeans CBT (Elec) May 2019 @ CBOT
ZS-201907	Soybeans CBT (Elec) Jul 2019 @ CBOT
ZS-201911	Soybeans CBT (Elec) Nov 2019 @ CBOT
ZT-056	T-Notes 2Yr CBT Elec Cont Exp @ CBOT
ZT-057	T-Notes 2Yr CBT Elec Cont Liq @ CBOT
ZT-201903	T-Notes 2Yr CBT Elec Mar 2019 @ CBOT
ZU-057	Muni Note 10Yr (Elec) Cont Liq @ CBOT
ZW-055	Wheat CBT (Elec) Cont 1st @ CBOT
ZW-056	Wheat CBT (Elec) Cont Exp @ CBOT

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Symbol /	Description
ZW-057	Wheat CBT (Elec) Cont Liq @ CBOT
ZW-067	Wheat CBT (Elec) Cadj Liq @ CBOT
ZW-201903	Wheat CBT (Elec) Mar 2019 @ CBOT
ZX-056	FTSE-100 Index Cont Exp @ LIFFE
ZX-057	FTSE-100 Index Cont Liq. @ LIFFE