



GFF
BROKERS

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2022

Futures Calendar & Reference Guide

JANUARY 2022



MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1 NEW YEAR'S DAY
<p>ALL REPORT TIMES ARE CENTRAL FN: First Notice Day LT: Last Trading Day Futures LTO: Last Trading Day Options ^ Tentative Date Report and exchange dates can change without notice; please verify.</p>	<p>Holidays listed are not necessarily exchange holidays. <i>Currencies = Euro, Japanese Yen, Swiss Franc, British Pound & Australian Dollar</i></p>				
3 NEW YEAR'S DAY OFF	4	5	6	7	8
<p>Construction Spending 9:00 Export Inspections[^] 10:00 Cotton System 2:00 Fats & Oils 2:00 Grain Crushings 2:00 FN: Jan OJ</p>	<p>ISM Manufacturing PMI 9:00 API Energy Stocks[^] 3:30 FN: Jan NY RBOB & ULSD LT: Dec'21 Butter/Milk LTO: Dec'21 Butter/Milk</p>	<p>EIA Energy Stocks[^] 9:30 Dairy Products Sales 2:00 LTO: Jan ICE Gasoil</p>	<p>Export Sales[^] 7:30 Jobless Claims 7:30 US Trade Balance 7:30 Factory Orders 9:00 ISM Services PMI 9:00 EIA Gas Storage 9:30 Dairy Products 2:00</p>	<p>Unemployment 7:30 Consumer Credit 2:00 LTO: Jan Austral 90-Day Bills/ Can\$/Currencies/L Cattle/Mx Peso/ US Dollar Feb ICE Cocoa</p>	
10 COMING OF AGE DAY (JAPAN)	11	12	13	14	15
<p>Wholesale Trade 7:30 Export Inspections 10:00 LT: Jan OJ LTO: Mar Palm Oil</p>	<p>API Energy Stocks 3:30</p>	<p>CPI 7:30 Real Earnings 7:30 EIA Energy Stocks 9:30 Crop Production (& Ann.) 11:00 Grain Stocks 11:00 USDA Supply/Demand 11:00 Winter Wheat Seedings 11:00 Dairy Products Sales 2:00 FN: Jan ICE Gasoil LT: Jan ICE Gasoil</p>	<p>Export Sales 7:30 Jobless Claims 7:30 PPI 7:30 EIA Gas Storage 9:30 LT: Jan CME & SGX Nikkei LTO: Jan JPX & SGX Nikkei/ R Ruble/TOPIX</p>	<p>Business Inventories 7:30 Retail Sales 7:30 Capacity Utilization 8:15 Industrial Production 8:15 LT: Jan Canola/Lumber/Mx Peso/ Palm Oil/Rice/Soybeans/Soymeal/ Soyoil LTO: Jan CME Nikkei/Eurodollar/ Short Sterling Feb ICE Coffee/ICE WTI Crude/ NY Crude Lt/Rapeseed</p>	
17 MARTIN LUTHER KING, JR. DAY Full Moon	18	19	20	21	22
<p>LT: Jan BAX/Euribor/Eurodollar/ R Ruble LTO: Jan Austral Bonds/Euribor</p>	<p>Export Inspections 10:00 NOPA Crush 11:00 FN: Jan Lumber LTO: Feb Sugar-11</p>	<p>Housing Starts & Pmts 7:30 API Energy Stocks 3:30 FN: Feb ICE WTI Crude LT: Jan Short Sterling Feb ICE WTI Crude LTO: Feb NY Platinum & Palladium</p>	<p>Jobless Claims 7:30 Existing Home Sales 9:00 EIA Gas Storage 9:30 EIA Energy Stocks 10:00 Dairy Products Sales 2:00 LT: Jan SPI 200 Feb NY Crude Lt LTO: Jan S&P TSX 60/SMI</p>	<p>Export Sales 7:30 Cattle On Feed 2:00 LT: Jan CAC 40/IBEX LTO: Jan CAC 40/DAX/Euro STOXX/ FTSE 100/IBEX/STOXX Feb 2Yr,5Yr,10Yr Notes/Bonds/ Canola/CGB/Chi,KC,MN Wheat/ Corn/Euro Bobl/Euro Bund/ Euro Buxl/Euro Schatz/Long Gilt/ Oats/OJ/Rice/Soybeans/Soymeal/ Soyoil</p>	
24	25	26 AUSTRALIA DAY	27	28	29
<p>Export Inspections 10:00 Cold Storage 2:00 Milk Production 2:00 FN: Feb NY Crude Lt</p>	<p>Consumer Confidence 9:00 API Energy Stocks 3:30 FOMC Meeting LT: Jan JPX RSS3 Rubber/ Ldn Coffee Feb JPX Gasoline & Kerosene</p>		<p>Adv Durable Goods 7:30 Export Sales 7:30 GDP (Q4 '20) 7:30 Jobless Claims 7:30 EIA Gas Storage 9:30 LT: Jan Copper/Fdr Cattle/ NY Gold,Silver,Platinum & Palladium Feb NY Nat Gas LTO: Jan Fdr Cattle Feb UK Nat Gas</p>	<p>Employment Cost Index 7:30 Personal Income 7:30 FN: Feb NY Nat Gas/UK Nat Gas LT: Jan Bitcoin/Hang Seng Feb UK Nat Gas LTO: Jan Bitcoin/Hang Seng</p>	
31 SPRING FESTIVAL EVE (CHINA)	<p><i>Continued from the 31st:</i> LT: Jan Black Sea Wheat/Fed Funds/ JPX Crude Oil Feb Brazilian Real/SGX Rubber/ NY RBOB & ULSD/Rapeseed Mar ICE Brent Crude LTO: Jan Black Sea Wheat/ Fed Funds Feb Brazilian Real/JGB/Lumber/ SGX Rubber</p>		<p>New Home Sales 9:00 EIA Energy Stocks 9:30 Dairy Products Sales 2:00 FOMC Meeting LTO: Feb Copper/NY Gold & Silver/ NY Nat Gas/NY RBOB & ULSD Mar ICE Brent Crude</p>		

FEBRUARY 2022



MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1 CHINESE NEW YEAR Construction Spending 9:00 ISM Manufacturing PMI 9:00 Cotton System 2:00 Fats & Oils 2:00 Grain Crushings 2:00 API Energy Stocks 3:30 FN: Feb Rapeseed LT: Jan Butter/Milk LTO: Jan Butter/Milk Mar Ldn Wht Sugar	2 GOLDEN WEEK (CHINA) EIA Energy Stocks 9:30 Dairy Products Sales 2:00 FN: Feb NY RBOB & ULSD	3 GOLDEN WEEK (CHINA) Export Sales 7:30 Jobless Claims 7:30 Factory Orders 9:00 ISM Services PMI 9:00 EIA Gas Storage 9:30 LTO: Feb ICE Gasoil	4 GOLDEN WEEK (CHINA) Unemployment 7:30 Dairy Products 2:00 LTO: Feb Austral 90-Day Bills/ Can\$/Currencies/L Cattle/Mx Peso/ US Dollar Mar ICE Cocoa	5 GOLDEN WEEK (CHINA)
7 Export Inspections 10:00 Consumer Credit 2:00 FN: Feb L Cattle	8 US Trade Balance 7:30 API Energy Stocks 3:30 LT: Mar Sugar-16	9 Wholesale Trade 7:30 EIA Energy Stocks 9:30 Crop Production 11:00 USDA Supply/Demand 11:00 Dairy Products Sales 2:00 FN: Mar Sugar-16 LT: Feb CME & SGX Nikkei [^] LTO: Feb JPX & SGX Nikkei [^] /TOPIX	10 CPI 7:30 Export Sales 7:30 Jobless Claims 7:30 Real Earnings 7:30 EIA Gas Storage 9:30 FN: Feb ICE Gasoil LT: Feb ICE Gasoil LTO: Feb CME Nikkei [^] Mar ICE Coffee Apr Palm Oil	11 NATIONAL FOUNDATION DAY (JAPAN) LT: Mar Ldn Wht Sugar LTO: Feb Eurodollar/R Ruble/ Short Sterling Mar Cotton	12 LINCOLN'S BIRTHDAY
14 VALENTINE'S DAY Export Inspections 10:00 FN: Mar Ldn Wht Sugar LT: Feb BAX/Euribor/Eurodollar/ Hogs/Mx Peso LTO: Feb Euribor/Hogs	15 PPI 7:30 NOPA Crush 11:00 API Energy Stocks 3:30 LT: Feb Palm Oil/R Ruble LTO: Feb Austral Bonds Mar Milling Wheat/Rapeseed Meal/ Rapeseed Oil/Sugar-11	16 Full Moon Business Inventories 7:30 Retail Sales 7:30 Capacity Utilization 8:15 Industrial Production 8:15 EIA Energy Stocks 9:30 Dairy Products Sales 2:00 LT: Feb Short Sterling LTO: Mar ICE WTI Crude/ Ldn Coffee/NY Crude Lt/ NY Platinum & Palladium	17 Export Sales 7:30 Housing Starts & Pmts 7:30 Jobless Claims 7:30 EIA Gas Storage 9:30 FN: Mar ICE Coffee LT: Feb SPI 200 LTO: Feb S&P TSX 60/SMI	18 Existing Home Sales 9:00 FN: Mar ICE WTI Crude LT: Feb CAC 40/IBEX Mar ICE WTI Crude LTO: Feb CAC 40/DAX/Euro STOXX/ FTSE 100/IBEX/STOXX Mar 2Yr,5Yr,10Yr Notes/Bonds/ Canola/CGB/Chi,KC,MN Wheat/ Corn/Euro Bobl/Euro Bund/ Euro Buxl/Euro Schatz/Long Gilt/ Oats/OJ/Rice/Soybeans/Soymeal/ Soyoil	19
21 PRESIDENTS' DAY LT: Feb JPX RSS3 Rubber LTO: Feb JPX Gold	22 WASHINGTON'S BIRTHDAY Consumer Confidence 9:00 Export Inspections 10:00 Cold Storage 2:00 FN: Mar Cotton/ICE Cocoa LT: Feb JPX Gold, Palladium, Platinum, Silver Mar NY Crude Lt	23 EMPEROR'S BIRTHDAY (JAPAN) Milk Production 2:00 API Energy Stocks 3:30 FN: Mar Ldn Coffee LTO: Mar Copper/NY Gold & Silver/ NY Nat Gas/NY RBOB & ULSD Apr ICE Brent Crude	24 GDP (Q4 '20) 7:30 Jobless Claims 7:30 New Home Sales 9:00 EIA Gas Storage 9:30 EIA Energy Stocks 10:00 Dairy Products Sales 2:00 FN: Mar NY Crude Lt LT: Feb Copper/NY Gold & Silver/ NY Platinum & Palladium Mar NY Nat Gas LTO: Mar UK Nat Gas	25 Adv Durable Goods 7:30 Export Sales 7:30 Personal Income 7:30 Cattle On Feed 2:00 FN: Mar CGB/Long Gilt/NY Nat Gas/ UK Nat Gas LT: Feb Bitcoin/Hang Seng Mar Brazilian Real/ JPX Gasoline & Kerosene/ UK Nat Gas LTO: Feb Bitcoin/Hang Seng Mar Brazilian Real	26
28 Chicago PMI 8:45 Export Inspections 10:00 FN: Mar 2Yr,5Yr,10Yr Notes/Bonds/ Canola/Chi,KC,MN Wheat/Copper/ Corn/Oats/Rice/ NY Gold & Silver,Platinum,Palladium/ Soybeans/Soymeal/Soyoil Apr ICE Brent Crude LT: Feb Black Sea Wheat/L Cattle/ Fed Funds/JPX Crude Oil Mar NY RBOB & ULSD/ Rapeseed Meal & Oil/ SGX Rubber/Sugar-11 Apr ICE Brent Crude LTO: Feb Black Sea Wheat/ Fed Funds Mar JGB/Ldn Cocoa/Lumber/ SGX Rubber				Holidays listed are not necessarily exchange holidays. Currencies = Euro, Japanese Yen, Swiss Franc, British Pound & Aus- tralian Dollar	ALL REPORT TIMES ARE CENTRAL FN: First Notice Day LT: Last Trading Day Futures LTO: Last Trading Day Options ^ Tentative Date Report and exchange dates can change without notice; please verify.

MARCH 2022



MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1	2 ASH WEDNESDAY	3	4	5
<p>ALL REPORT TIMES ARE CENTRAL FN: First Notice Day LT: Last Trading Day Futures LTO: Last Trading Day Options ^ Tentative Date Report and exchange dates can change without notice; please verify.</p>	<p>Construction Spending 9:00 ISM Manufacturing PMI 9:00 Cotton System (& Ann.) 2:00 Fats & Oils (& Ann.) 2:00 Grain Crushings (& Ann.) 2:00 API Energy Stocks 3:30 FN: Mar OJ/Rapeseed Meal/ Rapeseed Oil/Sugar-11 LT: Feb Butter/Milk LTO: Feb Butter/Milk</p>	<p>EIA Energy Stocks 9:30 Dairy Products Sales 2:00 FN: Mar NY RBOB & ULSD</p>	<p>Export Sales 7:30 Jobless Claims 7:30 Factory Orders 9:00 ISM Services PMI 9:00 EIA Gas Storage 9:30 LTO: Mar ICE Gasoil</p>	<p>Unemployment 7:30 Dairy Products 2:00 LTO: Mar Austral 90-Day Bills/ Can\$/Currencies/L Cattle/Mx Peso/ US Dollar Apr ICE Cocoa</p>	
7	8	9	10	11	12 DAYLIGHT SAVINGS TIME BEGINS (13th)
<p>Export Inspections 10:00 Consumer Credit 2:00</p>	<p>US Trade Balance 7:30 Wholesale Trade 7:30 API Energy Stocks 3:30 LT: Mar BONO/Euro Bobl/Euro Bund/ Euro Buxl/Euro Schatz</p>	<p>EIA Energy Stocks 9:30 Crop Production 11:00 USDA Supply/Demand 11:00 Dairy Products Sales 2:00 LT: Mar Cotton</p>	<p>CPI 7:30 Export Sales 7:30 Jobless Claims 7:30 Real Earnings 7:30 EIA Gas Storage 9:30 FN: Mar ICE Gasoil LT: Mar Austral 90-Day Bills/ CME,JPX,SGX Nikkei/ICE Gasoil/ Milling Wheat/TOPIX LTO: Mar CME,JPX,SGX Nikkei/ TOPIX May Palm Oil</p>	<p>FN: Mar Milling Wheat LT: Mar OJ LTO: Mar R Ruble Apr ICE Coffee</p>	
14	15	16	17 ST. PATRICK'S DAY	18 Full Moon	19 SPRING BEGINS (20th)
<p>Export Inspections 10:00 LT: Mar BAX/Canola/Corn/ Chi,KC,MN Wheat/Currencies/ Euribor/Eurodollar/JGB/Mx Peso/ Oats/Rice/Soybeans/Soymeal/Soyoil/ US Dollar LTO: Mar Austral Bonds/BAX/ Euribor/Eurodollar</p>	<p>PPI 7:30 NOPA Crush 11:00 API Energy Stocks 3:30 FOMC Meeting FN: Mar Lumber LT: Mar ICE Cocoa/Ldn Cocoa/ NZ 90-Day Bills/Short Sterling LTO: Mar NZ 90-Day Bills/ Short Sterling LTO: Apr Sugar-11</p>	<p>Business Inventories 7:30 Retail Sales 7:30 EIA Energy Stocks 9:30 Dairy Products Sales 2:00 FOMC Meeting FN: Mar Lumber LT: Mar ICE Cocoa/Ldn Cocoa/ NZ 90-Day Bills/Short Sterling LTO: Mar NZ 90-Day Bills/ Short Sterling Apr NY Platinum & Palladium</p>	<p>Export Sales 7:30 Housing Starts & Pmts 7:30 Jobless Claims 7:30 Capacity Utilization 8:15 Industrial Production 8:15 EIA Gas Storage 9:30 FN: Mar Ldn Cocoa LT: Mar S&P TSX 60/SPI 200 LTO: Mar S&P TSX 60/SMI Apr ICE WTI Crude/NY Crude Lt</p>	<p>Existing Home Sales 9:00 LT: Mar CAC 40/DAX/E-mini Dow/ E-mini S&P 500, NASDAQ/ Euro STOXX/FTSE 100 & 250/IBEX/ Russell/SMI/STOXX LTO: Mar CAC 40/DAX/E-mini Dow/ E-mini S&P 500, NASDAQ/ Euro STOXX/FTSE 100 & 250/IBEX/ Russell/STOXX Apr CGB/OJ</p>	
21 SPRING EQUINOX DAY (JAPAN)	22	23	24	25	26
<p>Export Inspections 10:00 Milk Production 2:00 FN: Apr ICE WTI Crude LT: Mar ICE Coffee Apr ICE WTI Crude</p>	<p>API Energy Stocks 3:30 LT: Mar 10Yr Notes/Bonds/CGB Apr NY Crude Lt</p>	<p>New Home Sales 9:00 EIA Energy Stocks 9:30 Cold Storage 2:00 Dairy Products Sales 2:00</p>	<p>Adv Durable Goods 7:30 Export Sales 7:30 Jobless Claims 7:30 EIA Gas Storage 9:30 FN: Apr NY Crude Lt</p>	<p>Cattle On Feed 2:00 LT: Mar Bitcoin/JPX RSS3 Rubber/ Ldn Coffee Apr JPX Gasoline & Kerosene LTO: Mar Bitcoin Apr 2Yr,5Yr,10Yr Notes/Bonds/ Canola/Chi,KC,MN Wheat/Corn/ Euro Bobl/Euro Bund/Euro Buxl/ Euro Schatz/Long Gilt/Oats/Rice/ Soybeans/Soymeal/Soyoil/ UK Nat Gas</p>	
28	29	30	31		
<p>Export Inspections 10:00 LTO: Apr Copper/NY Gold & Silver/ NY Nat Gas/NY RBOB & ULSD May ICE Brent Crude</p>	<p>Consumer Confidence 9:00 API Energy Stocks 3:30 LT: Mar Butter/Copper/Long Gilt/Milk/ NY Gold & Silver/ NY Platinum & Palladium Apr NY Nat Gas LTO: Mar Butter/Milk</p>	<p>GDP (Q4 '20) 7:30 EIA Energy Stocks 9:30 Dairy Products Sales 2:00 Hogs & Pigs 2:00 FN: Apr NY Nat Gas/UK Nat Gas LT: Mar Hang Seng Apr UK Nat Gas LTO: Mar Hang Seng</p>	<p>Export Sales 7:30 Jobless Claims 7:30 Personal Income 7:30 Chicago PMI 8:45 EIA Gas Storage 9:30 Grain Stocks 11:00 Prospective Plantings 11:00 FN: Apr Copper/NY Gold & Silver/ NY Platinum & Palladium May ICE Brent Crude LT: Mar 2Yr,5Yr Notes/ Black Sea Wheat/Fdr Cattle/ Fed Funds/JPX Crude Oil Apr Brazilian Real/ NY RBOB & ULSD/SGX Rubber May ICE Brent Crude</p>	<p>Continued from the 31st: LTO: Mar Black Sea Wheat/ Fdr Cattle/Fed Funds Apr Brazilian Real/JGB/Lumber/ SGX Rubber</p>	<p>Holidays listed are not necessarily exchange holidays. Currencies = Euro, Japanese Yen, Swiss Franc, British Pound & Australian Dollar</p>

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<p>ALL REPORT TIMES ARE CENTRAL FN: First Notice Day LT: Last Trading Day Futures LTO: Last Trading Day Options ^ Tentative Date Report and exchange dates can change without notice; please verify.</p>	<p>Holidays listed are not necessarily exchange holidays. <i>Currencies = Euro, Japanese Yen, Swiss Franc, British Pound & Australian Dollar</i></p>			<p>1</p> <p>Unemployment 7:30 Construction Spending 9:00 ISM Manufacturing PMI 9:00 Cotton System 2:00 Dairy Products 2:00 Fats & Oils 2:00 Grain Crushings 2:00 LTO: Apr Austral 90-Day Bills/ L Cattle May ICE Cocoa/Ldn Wht Sugar</p>	<p>2 RAMADAN BEGINS (3rd)</p>
<p>4</p> <p>Factory Orders 9:00 Export Inspections 10:00 Crop Progress 3:00 FN: Apr L Cattle/NY RBOB & ULSD</p>	<p>5 QING MING JIE (CHINA)</p> <p>US Trade Balance 7:30 ISM Services PMI 9:00 API Energy Stocks 3:30 LTO: Apr ICE Gasoil</p>	<p>6</p> <p>EIA Energy Stocks 9:30 Dairy Products Sales 2:00</p>	<p>7</p> <p>Export Sales 7:30 Jobless Claims 7:30 EIA Gas Storage 9:30 Consumer Credit 2:00 LT: Apr CME & SGX Nikkei LTO: Apr JPX & SGX Nikkei/TOPIX</p>	<p>8</p> <p>Wholesale Trade 7:30 Crop Production 11:00 USDA Supply/Demand 11:00 LT: May Sugar-16 LTO: Apr Can\$/CME Nikkei/ Currencies/Mx Peso/US Dollar May ICE Coffee Jun Palm Oil</p>	<p>9</p>
<p>11</p> <p>Export Inspections 10:00 Crop Progress 3:00 FN: May Sugar-16</p>	<p>12</p> <p>CPI 7:30 Real Earnings 7:30 API Energy Stocks 3:30 FN: Apr ICE Gasoil LT: Apr ICE Gasoil</p>	<p>13</p> <p>PPI 7:30 EIA Energy Stocks 9:30 Dairy Products Sales 2:00 LTO: Apr R Ruble/S&P TSX 60/SMI^</p>	<p>14</p> <p>Business Inventories 7:30 Export Sales 7:30 Jobless Claims 7:30 Retail Sales 7:30 EIA Gas Storage 9:30 LT: Apr BAX/CAC 40^/Euribor^/ Hogs/IBEX^ May Ldn Wht Sugar LTO: Apr CAC 40^/DAX/Euribor^/ Euro STOXX/Eurodollar/FTSE 100/ Hogs/IBEX^/STOXX May CGB/Cotton/ICE WTI Crude/ NY Crude Lt/OJ/Rapeseed</p>	<p>15 GOOD FRIDAY</p> <p>Capacity Utilization 8:15 Industrial Production 8:15 NOPA Crush 11:00 LT: Apr Palm Oil/R Ruble</p>	<p>16 1st DAY OF PASSOVER Full Moon EASTER (17th)</p>
<p>18 EASTER MONDAY</p> <p>Export Inspections 10:00 Crop Progress 3:00 LT: Apr Eurodollar/Mx Peso LTO: May Sugar-11</p>	<p>19</p> <p>Housing Starts & Pmts 7:30 API Energy Stocks 3:30 FN: May ICE WTI Crude/ Ldn Wht Sugar LT: May ICE WTI Crude LTO: Apr Austral Bonds May Milling Wheat</p>	<p>20</p> <p>Existing Home Sales 9:00 EIA Energy Stocks 9:30 Dairy Products Sales 2:00 Milk Production 2:00 LT: Apr Short Sterling May NY Crude Lt LTO: Apr Short Sterling May Ldn Coffee/ NY Platinum & Palladium</p>	<p>21</p> <p>Export Sales 7:30 Jobless Claims 7:30 EIA Gas Storage 9:30 FN: May ICE Coffee LT: Apr SPI 200</p>	<p>22</p> <p>Cattle On Feed 2:00 Cold Storage 2:00 FN: May NY Crude Lt LT: Apr JPX RSS3 Rubber LTO: Apr JPX Gold May 2Yr,5Yr,10Yr Notes/Bonds/ Canola/Chi,KC,MN Wheat/Corn/ Euro Bobl/Euro Bund/Euro Buxl/ Euro Schatz/Long Gilt/Oats/Rice/ Soybeans/Soymeal/Soyoil</p>	<p>23</p>
<p>25 ANZAC DAY (AUSTRALIA)</p> <p>Export Inspections 10:00 Crop Progress 3:00 FN: May Cotton/ICE Cocoa LT: Apr JPX Gold, Palladium, Platinum, Silver May JPX Gasoline & Kerosene</p>	<p>26</p> <p>Adv Durable Goods 7:30 Consumer Confidence 9:00 New Home Sales 9:00 API Energy Stocks 3:30 FN: May Ldn Coffee LTO: May Copper/NY Gold & Silver/ NY Nat Gas/NY RBOB & ULSD/ UK Nat Gas Jun ICE Brent Crude</p>	<p>27</p> <p>EIA Energy Stocks 9:30 Dairy Products Sales 2:00 LT: Apr Copper/NY Gold & Silver/ NY Platinum & Palladium May NY Nat Gas</p>	<p>28</p> <p>Export Sales 7:30 GDP (Q1 '21) 7:30 Jobless Claims 7:30 EIA Gas Storage 9:30 FN: May NY Nat Gas/UK Nat Gas LT: Apr Fdr Cattle/Hang Seng/ JPX Crude Oil May UK Nat Gas LTO: Apr Fdr Cattle/Hang Seng May JGB</p>	<p>29 SHOWA DAY (JAPAN)</p> <p>Employment Cost Index 7:30 Personal Income 7:30 Chicago PMI 8:45 FN: May Canola/Chi,KC,MN Wheat/ Copper/Corn/NY Gold & Silver/ NY Platinum & Palladium/Oats/Rice/ Soybeans/Soymeal/Soyoil Jun ICE Brent Crude LT: Apr Bitcoin/Black Sea Wheat/ Fed Funds/L Cattle May Brazilian Real/NY RBOB.ULSD/ Rapeseed/SGX Rubber/Sugar-11 Jun ICE Brent Crude LTO: Apr Bitcoin/Black Sea Wheat/ Fed Funds May Brazilian Real/Ldn Cocoa/ Lumber/SGX Rubber</p>	<p>30</p>

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<p>2 EARLY MAY BANK HOLIDAY (UK)</p> <p>Construction Spending 9:00 ISM Manufacturing PMI 9:00 Export Inspections 10:00 Cotton System 2:00 Fats & Oils 2:00 Grain Crushings 2:00 Crop Progress 3:00 FN: May OJ/Rapeseed/Sugar-11</p>	<p>3 CONSTITUTION MEMORIAL DAY (JAPAN)</p> <p>Factory Orders 9:00 API Energy Stocks 3:30 FOMC Meeting FN: May NY RBOB & ULSD LT: Apr Butter/Milk LTO: Apr Butter/Milk</p>	<p>4 GREENERY DAY (JAPAN) YOUTH DAY (CHINA)</p> <p>US Trade Balance 7:30 ISM Services PMI 9:00 EIA Energy Stocks 9:30 Dairy Products 2:00 Dairy Products Sales 2:00 FOMC Meeting</p>	<p>5 CHILDREN'S DAY (JAPAN)</p> <p>Export Sales 7:30 Jobless Claims 7:30 EIA Gas Storage 9:30 LTO: May ICE Gasoil</p>	<p>6</p> <p>Unemployment 7:30 Consumer Credit 2:00 LT: May Cotton LTO: May Austral 90-Day Bills/ Can\$/Currencies/L Cattle/Mx Peso/ US Dollar Jun ICE Cocoa</p>	<p>7 MOTHERS' DAY (8th)</p>
<p>9</p> <p>Wholesale Trade 7:30 Export Inspections 10:00 Crop Progress 3:00</p>	<p>10</p> <p>API Energy Stocks 3:30 LT: May Milling Wheat/OJ LTO: Jul Palm Oil</p>	<p>11</p> <p>CPI 7:30 Real Earnings 7:30 EIA Energy Stocks 9:30 Dairy Products Sales 2:00 FN: May Milling Wheat</p>	<p>12</p> <p>Export Sales 7:30 Jobless Claims 7:30 PPI 7:30 EIA Gas Storage 9:30 Crop Production 11:00 USDA Supply/Demand 11:00 FN: May ICE Gasoil LT: May CME & SGX Nikkei/ ICE Gasoil LTO: May JPX & SGX Nikkei/ R Ruble/TOPIX</p>	<p>13</p> <p>LT: May Canola/Chi.KC.MN Wheat/ Corn/Hogs/ICE Cocoa/Lumber/Oats/ Palm Oil/Rice/Soybeans/Soymeal/ Soyoil LTO: May CME Nikkei/Eurodollar/ Hogs Jun ICE Coffee/Rapeseed Meal/ Rapeseed Oil</p>	<p>14</p>
<p>16 Full Moon</p> <p>Export Inspections 10:00 NOPA Crush 11:00 Crop Progress 3:00 FN: May Lumber LT: May BAX/Euribor/Eurodollar/ Ldn Cocoa/Mx Peso/R Ruble LTO: May Austral Bonds/Euribor Jun Sugar-11</p>	<p>17</p> <p>Business Inventories 7:30 Retail Sales 7:30 Capacity Utilization 8:15 Industrial Production 8:15 API Energy Stocks 3:30 FN: May Ldn Cocoa LTO: Jun ICE WTI Crude/ NY Crude Lt</p>	<p>18</p> <p>Housing Starts & Pmts 7:30 EIA Energy Stocks 9:30 Dairy Products Sales 2:00 Milk Production 2:00 LT: May ICE Coffee/Short Sterling LTO: May Short Sterling Jun NY Platinum & Palladium</p>	<p>19</p> <p>Export Sales 7:30 Jobless Claims 7:30 Existing Home Sales 9:00 EIA Gas Storage 9:30 FN: Jun ICE WTI Crude LT: May SPI 200 Jun ICE WTI Crude LTO: May S&P TSX 60/SMI</p>	<p>20</p> <p>Cattle On Feed 2:00 LT: May CAC 40/IBEX Jun NY Crude Lt LTO: May CAC 40/DAX/ Euro STOXX/FTSE 100/IBEX/ STOXX Jun 2Yr,5Yr,10Yr Notes/Bonds/CGB/ Chi,KC,MN Wheat/Corn/Oats/OJ/ Rice/Soybeans/Soymeal/Soyoil</p>	<p>21</p>
<p>23 VICTORIA DAY (CANADA)</p> <p>Export Inspections 10:00 Cold Storage 2:00 Crop Progress 3:00</p>	<p>24</p> <p>New Home Sales 9:00 API Energy Stocks 3:30 FN: Jun NY Crude Lt</p>	<p>25</p> <p>Adv Durable Goods 7:30 EIA Energy Stocks 9:30 Dairy Products Sales 2:00 LT: May JPX RSS3 Rubber/ Ldn Coffee Jun JPX Gasoline & Kerosene LTO: Jun Copper/NY Gold & Silver/ NY Nat Gas/NY RBOB & ULSD</p>	<p>26</p> <p>Export Sales 7:30 GDP (Q1 '21) 7:30 Jobless Claims 7:30 EIA Gas Storage 9:30 LT: May Copper/Fdr Cattle/ NY Gold & Silver/ NY Platinum & Palladium Jun NY Nat Gas LTO: May Fdr Cattle Jul ICE Brent Crude</p>	<p>27</p> <p>Personal Income 7:30 FN: Jun NY Nat Gas LT: May Bitcoin LTO: May Bitcoin Jun Canola/Euro Bob/Euro Bund/ Euro Buxl/Euro Schatz/Long Gilt/ UK Nat Gas</p>	<p>28</p>
<p>30 MEMORIAL DAY</p> <p>FN: Jun CGB/Long Gilt/UK Nat Gas LT: May Hang Seng Jun UK Nat Gas LTO: May Hang Seng</p>	<p>31</p> <p>Chicago PMI 8:45 Consumer Confidence 9:00 Export Inspections 10:00 Crop Progress 3:00 FN: Jun 2Yr,5Yr,10Yr Notes/Bonds/ Copper/NY Gold & Silver/ NY Platinum & Palladium Jul ICE Brent Crude LT: May Black Sea Wheat/ Fed Funds/JPX Crude Oil Jun Brazilian Real/ NY RBOB & ULSD/Rapeseed Meal/ Rapeseed Oil/SGX Rubber Jul ICE Brent Crude</p>	<p>Continued from the 31st: LTO: May Black Sea Wheat/ Fed Funds Jun Brazilian Real/JGB/Lumber/ SGX Rubber</p>		<p>Holidays listed are not necessarily exchange holidays.</p> <p>Currencies = Euro, Japanese Yen, Swiss Franc, British Pound & Australian Dollar</p>	<p>ALL REPORT TIMES ARE CENTRAL</p> <p>FN: First Notice Day LT: Last Trading Day Futures LTO: Last Trading Day Options ^ Tentative Date</p> <p>Report and exchange dates can change without notice; please verify.</p>

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<p>ALL REPORT TIMES ARE CENTRAL FN: First Notice Day LT: Last Trading Day Futures LTO: Last Trading Day Options ^ Tentative Date Report and exchange dates can change without notice; please verify.</p>	<p>Holidays listed are not necessarily exchange holidays.</p> <p><i>Currencies = Euro, Japanese Yen, Swiss Franc, British Pound & Australian Dollar</i></p>	<p>1</p> <p>Construction Spending 9:00 ISM Manufacturing PMI 9:00 Cotton System 2:00 Fats & Oils 2:00 Grain Crushings 2:00 API Energy Stocks 3:30 FN: Jun Rapeseed Meal/ Rapeseed Oil LT: May Butter/Milk LTO: May Butter/Milk Jun ICE Gasoil</p>	<p>2 SPRING BANK HOLIDAY (UK)</p> <p>Jobless Claims 7:30 Factory Orders 9:00 EIA Gas Storage 9:30 EIA Energy Stocks 10:00 Dairy Products Sales 2:00 FN: Jun NY RBOB & ULSD</p>	<p>3 DRAGON BOAT FESTIVAL (CHINA) QUEEN'S PLATINUM JUBILEE (UK)</p> <p>Export Sales 7:30 Unemployment 7:30 ISM Services PMI 9:00 Dairy Products 2:00 LTO: Jun Austral 90-Day Bills/ Can\$/Currencies/L Cattle/Mx Peso/ US Dollar Jul ICE Cocoa</p>	<p>4</p>
<p>6</p> <p>Export Inspections 10:00 Crop Progress 3:00 FN: Jun L Cattle</p>	<p>7</p> <p>US Trade Balance 7:30 Consumer Credit 2:00 API Energy Stocks 3:30</p>	<p>8</p> <p>Wholesale Trade 7:30 EIA Energy Stocks 9:30 Dairy Products Sales 2:00 LT: Jun BONO/Euro Bobl/Euro Bund/ Euro Buxl/Euro Schatz Jul Sugar-16</p>	<p>9</p> <p>Export Sales 7:30 Jobless Claims 7:30 EIA Gas Storage 9:30 FN: Jul Sugar-16 LT: Jun Austral 90-Day Bills/ CME,JPX,SGX Nikkei/TOPIX LTO: Jun CME,JPX,SGX Nikkei/ TOPIX</p>	<p>10</p> <p>CPI 7:30 Real Earnings 7:30 Crop Production 11:00 USDA Supply/Demand 11:00 FN: Jun ICE Gasoil LT: Jun ICE Gasoil LTO: Jun R Ruble Jul Cotton/ICE Coffee Aug Palm Oil</p>	<p>11</p>
<p>13</p> <p>Export Inspections 10:00 Crop Progress 3:00 LT: Jun BAX/Currencies/Euribor/ Eurodollar/JGB/Mx Peso/US Dollar LTO: Jun BAX/Euribor/Eurodollar</p>	<p>14 FLAG DAY Full Moon</p> <p>PPI 7:30 API Energy Stocks 3:30 FOMC Meeting LT: Jun Can\$/Hogs LTO: Jun Austral Bonds/Hogs</p>	<p>15</p> <p>Business Inventories 7:30 Retail Sales 7:30 EIA Energy Stocks 9:30 NOPA Crush 11:00 Dairy Products Sales 2:00 FOMC Meeting LT: Jun Austral Bonds/ NZ 90-Day Bills/Palm Oil/R Ruble/ Short Sterling LTO: Jun NZ 90-Day Bills/ Short Sterling Jul Ldn Coffee/ NY Platinum & Palladium/Sugar-11</p>	<p>16</p> <p>Export Sales 7:30 Housing Starts & Pmts 7:30 Jobless Claims 7:30 EIA Gas Storage 9:30 LT: Jun S&P TSX 60/SPI 200 LTO: Jun S&P TSX 60/SMI Jul ICE WTI Crude/NY Crude Lt</p>	<p>17</p> <p>Capacity Utilization 8:15 Industrial Production 8:15 LT: Jun CAC 40/DAX/E-mini Dow/ E-mini S&P 500, NASDAQ/ Euro STOXX/FTSE 100 & 250/IBEX/ Russell/SMI/STOXX LTO: Jun CAC 40/DAX/E-mini Dow/ E-mini S&P 500, NASDAQ/ Euro STOXX/FTSE 100 & 250/IBEX/ Russell/STOXX Jul CGB/OJ</p>	<p>18 FATHER'S DAY (19th)</p>
<p>20 JUNETEENTH OBSERVED</p> <p>FN: Jul ICE WTI Crude LT: Jul ICE WTI Crude</p>	<p>21 SUMMER BEGINS</p> <p>Existing Home Sales 9:00 Export Inspections 10:00 Milk Production 2:00 Crop Progress 3:00 LT: Jun 10Yr Notes/Bonds/CGB Jul NY Crude Lt</p>	<p>22</p> <p>API Energy Stocks 3:30 FN: Jul ICE Coffee</p>	<p>23</p> <p>Jobless Claims 7:30 EIA Gas Storage 9:30 EIA Energy Stocks 10:00 Cold Storage 2:00 Dairy Products Sales 2:00 FN: Jul NY Crude Lt</p>	<p>24</p> <p>Export Sales 7:30 New Home Sales 9:00 Cattle On Feed 2:00 FN: Jul Cotton/ICE Cocoa LT: Jun Bitcoin/JPX RSS3 Rubber Jul JPX Gasoline & Kerosene LTO: Jun Bitcoin/JPX Gold Jul 2Yr,5Yr,10Yr Notes/Bonds/ Canola/Chi,KC,MN Wheat/Corn/ Euro Bobl/Euro Bund/Euro Buxl/ Euro Schatz/Long Gilt/Oats/Rice/ Soybeans/Soymeal/Soyoil/ UK Nat Gas</p>	<p>25</p>
<p>27</p> <p>Adv Durable Goods 7:30 Export Inspections 10:00 Crop Progress 3:00 FN: Jul Ldn Coffee LT: Jun JPX Gold, Palladium, Platinum, Silver LTO: Jul Copper/NY Gold & Silver/ NY Nat Gas/NY RBOB & ULSD Aug ICE Brent Crude</p>	<p>28</p> <p>Consumer Confidence 9:00 API Energy Stocks 3:30 LT: Jun Butter/Copper/Long Gilt/Milk/ NY Gold & Silver/ NY Platinum & Palladium Jul NY Nat Gas LTO: Jun Butter/Milk</p>	<p>29</p> <p>GDP (Q1 '21) 7:30 EIA Energy Stocks 9:30 Dairy Products Sales 2:00 Hogs & Pigs 2:00 FN: Jul NY Nat Gas/UK Nat Gas LT: Jun Hang Seng Jul UK Nat Gas LTO: Jun Hang Seng</p>	<p>30</p> <p>Export Sales 7:30 Jobless Claims 7:30 Personal Income 7:30 Chicago PMI 8:45 EIA Gas Storage 9:30 Grain Stocks 11:00 Planted Acreage 11:00 FN: Jul Canola/Chi,KC,MN Wheat/ Copper/Corn/NY Gold & Silver/ NY Platinum & Palladium/Oats/Rice/ Soybeans/Soymeal/Soyoil Aug ICE Brent Crude</p>	<p>Continued from the 30th: LT: Jun 2Yr,5Yr Notes/ Fed Funds/ Black Sea Wheat/L Cattle/ JPX Crude Oil Jul Brazilian Real/SGX Rubber/ NY RBOB & ULSD/Sugar-11 Aug ICE Brent Crude LTO: Jun Black Sea Wheat/ Fed Funds Jul Brazilian Real/JGB/Ldn Cocoa/ Lumber/SGX Rubber</p>	

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<p>ALL REPORT TIMES ARE CENTRAL FN: First Notice Day LT: Last Trading Day Futures LTO: Last Trading Day Options ^ Tentative Date Report and exchange dates can change without notice; please verify.</p>	<p>Holidays listed are not necessarily exchange holidays. <i>Currencies = Euro, Japanese Yen, Swiss Franc, British Pound & Australian Dollar</i></p>			<p>1 CANADA DAY Construction Spending 9:00 ISM Manufacturing PMI 9:00 Cotton System 2:00 Fats & Oils 2:00 Grain Crushings 2:00 Dairy Products 2:00 FN: Jul OJ/Sugar-11 LTO: Jul Austral 90-Day Bills/L Cattle Aug ICE Cocoa/Ldn Wht Sugar</p>	<p>2</p>
<p>4 INDEPENDENCE DAY</p>	<p>5 Factory Orders 9:00 Export Inspections 10:00 Crop Progress 3:00 FN: Jul NY RBOB & ULSD LTO: Jul ICE Gasoil</p>	<p>6 ISM Services PMI 9:00 API Energy Stocks 3:30</p>	<p>7 Jobless Claims 7:30 US Trade Balance 7:30 EIA Gas Storage 9:30 EIA Energy Stocks 10:00 Dairy Products Sales 2:00 LT: Jul CME & SGX Nikkei/Cotton LTO: Jul JPX & SGX Nikkei/TOPIX</p>	<p>8 Export Sales 7:30 Unemployment 7:30 Wholesale Trade 7:30 Consumer Credit 2:00 LTO: Jul Can\$/CME Nikkei/ Currencies/Mx Peso/US Dollar Aug ICE Coffee Sep Palm Oil</p>	<p>9</p>
<p>11 Export Inspections 10:00 Crop Progress 3:00 LT: Jul OJ</p>	<p>12 Crop Production 11:00 USDA Supply/Demand 11:00 API Energy Stocks 3:30 FN: Jul ICE Gasoil LT: Jul ICE Gasoil</p>	<p>13 Full Moon CPI 7:30 Real Earnings 7:30 EIA Energy Stocks 9:30 Dairy Products Sales 2:00 LTO: Jul R Ruble</p>	<p>14 Export Sales 7:30 Jobless Claims 7:30 PPI 7:30 EIA Gas Storage 9:30 LT: Jul Canola/Chi,KC,MN Wheat/ Corn/ICE Cocoa/Ldn Cocoa/Oats/ Rice/Soybeans/Soymeal/Soyoil LTO: Jul S&P TSX 60/SMI</p>	<p>15 Business Inventories 7:30 Retail Sales 7:30 Capacity Utilization 8:15 Industrial Production 8:15 NOPA Crush 11:00 FN: Jul Ldn Cocoa LT: Jul CAC 40/Hogs/IBEX/Lumber/ Palm Oil/R Ruble Aug Ldn Wht Sugar LTO: Jul Austral Bonds/CAC 40/ DAX/Euro STOXX/Eurodollar/ FTSE 100/Hogs/IBEX/STOXX Aug CGB/ICE WTI Crude/ NY Crude Lt/OJ/Rapeseed/Sugar-11</p>	<p>16</p>
<p>18 SEA DAY (JAPAN) Export Inspections 10:00 Crop Progress 3:00 FN: Jul Lumber Aug Ldn Wht Sugar LT: Jul BAX/Euribor/Eurodollar/ Mx Peso LTO: Jul Euribor</p>	<p>19 Housing Starts & Pmts 7:30 API Energy Stocks 3:30 FN: Aug ICE WTI Crude LT: Jul ICE Coffee Aug ICE WTI Crude</p>	<p>20 Existing Home Sales 9:00 EIA Energy Stocks 9:30 Dairy Products Sales 2:00 LT: Jul Short Sterling Aug NY Crude Lt LTO: Jul Short Sterling Aug NY Platinum & Palladium</p>	<p>21 Export Sales 7:30 Jobless Claims 7:30 EIA Gas Storage 9:30 Milk Production 2:00 LT: Jul SPI 200</p>	<p>22 Cattle 2:00 Cattle On Feed 2:00 Cold Storage 2:00 FN: Aug NY Crude Lt LTO: Aug 2Yr,5Yr,10Yr Notes/Bonds/ Canola/Chi,KC,MN Wheat/Corn/ Euro Bobl/Euro Bund/Euro Buxl/ Euro Schatz/Long Gilt/Oats/Rice/ Soybeans/Soymeal/Soyoil</p>	<p>23</p>
<p>25 Export Inspections 10:00 Crop Progress 3:00 LT: Jul JPX RSS3 Rubber/ Ldn Coffee Aug JPX Gasoline & Kerosene</p>	<p>26 Consumer Confidence 9:00 New Home Sales 9:00 API Energy Stocks 3:30 FOMC Meeting LTO: Aug Copper/NY Gold & Silver/ NY Nat Gas/NY RBOB & ULSD Sep ICE Brent Crude</p>	<p>27 Adv Durable Goods 7:30 EIA Energy Stocks 9:30 Dairy Products Sales 2:00 FOMC Meeting LT: Jul Copper/NY Gold & Silver/ NY Platinum & Palladium Aug NY Nat Gas LTO: Aug UK Nat Gas</p>	<p>28 Export Sales 7:30 GDP (Q2 '21) 7:30 Jobless Claims 7:30 EIA Gas Storage 9:30 FN: Aug NY Nat Gas/UK Nat Gas LT: Jul Hang Seng Aug UK Nat Gas LTO: Jul Hang Seng</p>	<p>29 Employment Cost Index 7:30 Personal Income 7:30 Chicago PMI 8:45 FN: Aug Copper/NY Gold & Silver/ NY Platinum & Palladium/Soybeans/ Soymeal/Soyoil Sep ICE Brent Crude LT: Jul Bitcoin/Black Sea Wheat/ Fed Funds/JPX Crude Oil Aug Brazilian Real/SGX Rubber/ NY RBOB & ULSD/Rapeseed Sep ICE Brent Crude LTO: Jul Bitcoin/Black Sea Wheat/ Fed Funds Aug Brazilian Real/JGB/Lumber/ SGX Rubber</p>	<p>30</p>

AUGUST 2022



MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<p>1 CIVIC HOLIDAY (CANADA)</p> <p>Construction Spending 9:00 ISM Manufacturing PMI 9:00 Export Inspections 10:00 Cotton System 2:00 Fats & Oils 2:00 Grain Crushings 2:00 Crop Progress 3:00 FN: Aug Rapeseed</p>	<p>2</p> <p>API Energy Stocks 3:30 FN: Aug NY RBOB & ULSD LT: Jul Butter/Milk LTO: Jul Butter/Milk</p>	<p>3</p> <p>Factory Orders 9:00 ISM Services PMI 9:00 EIA Energy Stocks 9:30 Dairy Products Sales 2:00</p>	<p>4</p> <p>Export Sales 7:30 Jobless Claims 7:30 US Trade Balance 7:30 EIA Gas Storage 9:30 Dairy Products 2:00 LTO: Aug ICE Gasoil</p>	<p>5</p> <p>Unemployment 7:30 Consumer Credit 2:00 LTO: Aug Austral 90-Day Bills/ Can\$/Currencies/L Cattle/Mx Peso/ US Dollar Sep ICE Cocoa</p>	<p>6</p>
<p>8</p> <p>Export Inspections 10:00 Crop Progress 3:00 FN: Aug L Cattle LT: Sep Sugar-16</p>	<p>9</p> <p>API Energy Stocks 3:30 FN: Sep Sugar-16</p>	<p>10</p> <p>CPI 7:30 Real Earnings 7:30 Wholesale Trade 7:30 EIA Energy Stocks 9:30 Dairy Products Sales 2:00 LT: Aug CME & SGX Nikkei^A LTO: Aug JPX & SGX^A Nikkei/TOPIX Oct Palm Oil</p>	<p>11 MOUNTAIN DAY (JAPAN) Full Moon</p> <p>Export Sales 7:30 Jobless Claims 7:30 PPI 7:30 EIA Gas Storage 9:30 FN: Aug ICE Gasoil LT: Aug ICE Gasoil LTO: Aug CME Nikkei^A/R Ruble</p>	<p>12</p> <p>Crop Production 11:00 USDA Supply/Demand 11:00 LT: Aug Hogs/Soybeans/Soymeal/ Soyoil LTO: Aug Eurodollar/Hogs Sep ICE Coffee</p>	<p>13</p>
<p>15</p> <p>Export Inspections 10:00 NOPA Crush 11:00 Crop Progress 3:00 LT: Aug BAX/Euribor/Eurodollar/ Mx Peso/Palm Oil/R Ruble LTO: Aug Austral Bonds/Euribor Sep Milling Wheat/Rapeseed Meal/ Rapeseed Oil/Sugar-11</p>	<p>16</p> <p>Housing Starts & Pmts 7:30 Capacity Utilization 8:15 Industrial Production 8:15 API Energy Stocks 3:30</p>	<p>17</p> <p>Business Inventories 7:30 Retail Sales 7:30 EIA Energy Stocks 9:30 Dairy Products Sales 2:00 LT: Aug Short Sterling LTO: Aug Short Sterling Sep ICE WTI Crude/Ldn Coffee/ NY Crude Lt/ NY Platinum & Palladium</p>	<p>18</p> <p>Export Sales 7:30 Jobless Claims 7:30 Existing Home Sales 9:00 EIA Gas Storage 9:30 LT: Aug SPI 200 LTO: Aug S&P TSX 60/SMI</p>	<p>19</p> <p>Cattle On Feed 2:00 FN: Sep ICE WTI Crude LT: Aug CAC 40/IBEX Sep ICE WTI Crude LTO: Aug CAC 40/DAX/ Euro STOXX/FTSE 100/IBEX/ STOXX Sep CGB/Cotton/OJ</p>	<p>20</p>
<p>22</p> <p>Export Inspections 10:00 Cold Storage 2:00 Milk Production 2:00 Crop Progress 3:00 LT: Sep NY Crude Lt</p>	<p>23</p> <p>New Home Sales 9:00 API Energy Stocks 3:30 FN: Sep ICE Coffee</p>	<p>24</p> <p>Adv Durable Goods 7:30 EIA Energy Stocks 9:30 Dairy Products Sales 2:00 FN: Sep NY Crude Lt</p>	<p>25</p> <p>Export Sales 7:30 GDP (Q2 '21) 7:30 Jobless Claims 7:30 EIA Gas Storage 9:30 FN: Sep ICE Cocoa/Ldn Coffee LT: Aug Fdr Cattle/ JPX RSS3 Rubber Sep JPX Gasoline & Kerosene LTO: Aug Fdr Cattle/JPX Gold Sep Copper/NY Gold & Silver Oct ICE Brent Crude</p>	<p>26</p> <p>Personal Income 7:30 LT: Aug Bitcoin/JPX Gold, Palladium, Platinum, Silver LTO: Aug Bitcoin Sep 2Yr,5Yr,10Yr Notes/Bonds/ Canola/Chi,KC,MN Wheat/Corn/ Euro Bobl/Euro Bund/Euro Buxl/ Euro Schatz/Long Gilt/NY Nat Gas/ NY RBOB & ULSD/Oats/Rice/ Soybeans/Soymeal/Soyoil/ UK Nat Gas</p>	<p>27</p>
<p>29 SUMMER BANK HOLIDAY (UK)</p> <p>Export Inspections 10:00 Crop Progress 3:00 LT: Aug Copper/NY Gold & Silver/ NY Platinum & Palladium Sep NY Nat Gas</p>	<p>30</p> <p>Consumer Confidence 9:00 API Energy Stocks 3:30 FN: Sep CGB/Long Gilt/ NY Nat Gas/UK Nat Gas LT: Aug Butter/Hang Seng/Milk Sep UK Nat Gas LTO: Aug Butter/Hang Seng/Milk</p>	<p>31</p> <p>Chicago PMI 8:45 EIA Energy Stocks 9:30 Dairy Products Sales 2:00 FN: Sep 2Yr,5Yr,10Yr Notes/Bonds/ Chi,KC,MN Wheat/Copper/Corn/ NY Gold,Silver,Platinum & Palladium/ Oats/Rice/Soybeans/Soymeal/Soyoil Oct ICE Brent Crude LT: Aug Black Sea Wheat/L Cattle/ Fed Funds/JPX Crude Oil Sep Brazilian Real/SGX Rubber/ NY RBOB & ULSD/ Rapeseed Meal & Oil Oct ICE Brent Crude</p>	<p>Continued from the 31st: LTO: Aug Black Sea Wheat/ Fed Funds Sep Brazilian Real/JGB/Ldn Cocoa/ Lumber/SGX Rubber</p>	<p>Holidays listed are not necessarily exchange holidays.</p> <p>Currencies = Euro, Japanese Yen, Swiss Franc, British Pound & Australian Dollar</p>	<p>ALL REPORT TIMES ARE CENTRAL FN: First Notice Day LT: Last Trading Day Futures LTO: Last Trading Day Options ^A Tentative Date Report and exchange dates can change without notice; please verify.</p>

SEPTEMBER 2022



MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<p>ALL REPORT TIMES ARE CENTRAL FN: First Notice Day LT: Last Trading Day Futures LTO: Last Trading Day Options ^ Tentative Date Report and exchange dates can change without notice; please verify.</p>	<p>Holidays listed are not necessarily exchange holidays. <i>Currencies = Euro, Japanese Yen, Swiss Franc, British Pound & Australian Dollar</i></p>		<p>1</p> <p>Export Sales 7:30 Jobless Claims 7:30 Construction Spending 9:00 ISM Manufacturing PMI 9:00 EIA Gas Storage 9:30 Cotton System 2:00 Fats & Oils 2:00 Grain Crushings 2:00 FN: Sep OJ/Rapeseed Meal/ Rapeseed Oil LTO: Oct Ldn Wht Sugar</p>	<p>2</p> <p>Unemployment 7:30 Factory Orders 9:00 Dairy Products 2:00 FN: Sep NY RBOB & ULSD LTO: Sep Austral 90-Day Bills/ L Cattle Oct ICE Cocoa</p>	<p>3</p>
<p>5 LABOR DAY</p> <p>LTO: Sep ICE Gasoil</p>	<p>6</p> <p>ISM Services PMI 9:00 Export Inspections 10:00 Crop Progress 3:00</p>	<p>7</p> <p>US Trade Balance 7:30 API Energy Stocks 3:30 LT: Sep Euro Bobl/Euro Bund/ Euro Buxl/Euro Schatz</p>	<p>8</p> <p>Jobless Claims 7:30 EIA Gas Storage 9:30 EIA Energy Stocks 10:00 Consumer Credit 2:00 Dairy Products Sales 2:00 LT: Sep Austral 90-Day Bills/BONO/ CME,JPX,SGX Nikkei/TOPIX LTO: Sep CME,JPX,SGX Nikkei/ TOPIX</p>	<p>9</p> <p>Export Sales 7:30 Wholesale Trade 7:30 LTO: Sep Can\$/Currencies/Mx Peso/ US Dollar Oct ICE Coffee Nov Palm Oil</p>	<p>10 MID-AUTUMN FESTIVAL (CHINA)</p> <p>Full Moon</p>
<p>12</p> <p>Export Inspections 10:00 Crop Production 11:00 USDA Supply/Demand 11:00 Crop Progress 3:00 FN: Sep ICE Gasoil LT: Sep ICE Gasoil/JGB/ Milling Wheat/OJ</p>	<p>13</p> <p>CPI 7:30 Real Earnings 7:30 API Energy Stocks 3:30 FN: Sep Milling Wheat LTO: Sep R Ruble</p>	<p>14</p> <p>PPI 7:30 EIA Energy Stocks 9:30 Dairy Products Sales 2:00 LT: Sep Chi,KC,MN Wheat/Corn/ NZ 90-Day Bills/Oats/Rice/Soybeans/ Soymeal/Soyoil LTO: Sep Austral Bonds/ NZ 90-Day Bills</p>	<p>15</p> <p>Business Inventories 7:30 Export Sales 7:30 Jobless Claims 7:30 Retail Sales 7:30 Capacity Utilization 8:15 Industrial Production 8:15 EIA Gas Storage 9:30 NOPA Crush 11:00 LT: Sep Austral Bonds/ICE Cocoa/ Ldn Cocoa/Lumber/Palm Oil/ R Ruble/S&P TSX 60/SPI 200 Oct Ldn Wht Sugar LTO: Sep S&P TSX 60/SMI Oct ICE WTI Crude/NY Crude Lt/ Sugar-11</p>	<p>16</p> <p>FN: Sep Ldn Cocoa/Lumber Oct Ldn Wht Sugar LT: Sep CAC 40/DAX/E-mini Dow/ E-mini S&P 500, NASDAQ/ Euro STOXX/FTSE 100 & 250/IBEX/ Russell/SMI/STOXX LTO: Sep CAC 40/DAX/E-mini Dow/ E-mini S&P 500, NASDAQ/ Euro STOXX/FTSE 100 & 250/IBEX/ Russell/STOXX Oct CGB/Cotton/OJ</p>	<p>17</p>
<p>19 RESPECT FOR THE AGED DAY (JAPAN)</p> <p>Export Inspections 10:00 Milk Production 2:00 Crop Progress 3:00 FN: Oct ICE WTI Crude LT: Sep BAX/Currencies/Euribor/ Eurodollar/Mx Peso/US Dollar Oct ICE WTI Crude LTO: Sep BAX/Euribor/Eurodollar</p>	<p>20</p> <p>Housing Starts & Pmts 7:30 API Energy Stocks 3:30 FOMC Meeting LT: Sep Can\$/CGB/ICE Coffee Oct NY Crude Lt</p>	<p>21</p> <p>Existing Home Sales 9:00 EIA Energy Stocks 9:30 Dairy Products Sales 2:00 FOMC Meeting LT: Sep 10Yr Notes/Bonds/ Short Sterling LTO: Sep Short Sterling Oct NY Platinum & Palladium</p>	<p>22 AUTUMN BEGINS</p> <p>Export Sales 7:30 Jobless Claims 7:30 EIA Gas Storage 9:30 Cold Storage 2:00 FN: Oct NY Crude Lt LTO: Oct JPX Gasoline & Kerosene</p>	<p>23 AUTUMN EQUINOX DAY (JAPAN)</p> <p>Cattle On Feed 2:00 LT: Sep Bitcoin LTO: Sep Bitcoin Oct 2Yr,5Yr,10Yr Notes/Bonds/ Canola/Chi,KC,MN Wheat/Corn/ Euro Bobl/Euro Bund/Euro Buxl/ Euro Schatz/Long Gilt/Oats/Rice/ Soybeans/Soymeal/Soyoil</p>	<p>24</p>
<p>26 ROSH HASHANA</p> <p>Export Inspections 10:00 Crop Progress 3:00 FN: Oct Cotton LT: Sep JPX RSS3 Rubber/ Ldn Coffee LTO: Oct UK Nat Gas</p>	<p>27</p> <p>Adv Durable Goods 7:30 Consumer Confidence 9:00 New Home Sales 9:00 API Energy Stocks 3:30 LTO: Oct Copper/NY Gold & Silver/ NY Nat Gas/NY RBOB & ULSD Nov ICE Brent Crude</p>	<p>28</p> <p>EIA Energy Stocks 9:30 Dairy Products Sales 2:00 LT: Sep Copper/Long Gilt/ NY Gold & Silver/ NY Platinum & Palladium Oct NY Nat Gas</p>	<p>29</p> <p>Export Sales 7:30 GDP (Q2 '21) 7:30 Jobless Claims 7:30 EIA Gas Storage 9:30 Hogs & Pigs 2:00 FN: Oct NY Nat Gas/UK Nat Gas LTO: Sep Fdr Cattle/Hang Seng Oct UK Nat Gas LTO: Sep Fdr Cattle/Hang Seng</p>	<p>30</p> <p>Personal Income 7:30 Chicago PMI 8:45 Grain Stocks 11:00 Small Grains Summary 11:00 FN: Oct Copper/ Soymeal/Soyoil/ NY Gold,Silver,Platinum & Palladium Nov ICE Brent Crude LT: Sep 2Yr,5Yr Notes/ Black Sea Wheat/Fed Funds/ JPX Crude Oil Oct Brazilian Real/SGX Rubber/ NY RBOB & ULSD/Sugar-11 Nov ICE Brent Crude LTO: Sep Black Sea Wheat/ Fed Funds Oct Brazilian Real/JGB/Lumber/ SGX Rubber</p>	

OCTOBER 2022



MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<p>ALL REPORT TIMES ARE CENTRAL FN: First Notice Day LT: Last Trading Day Futures LTO: Last Trading Day Options ^ Tentative Date Report and exchange dates can change without notice; please verify.</p>	<p>Holidays listed are not necessarily exchange holidays. <i>Currencies = Euro, Japanese Yen, Swiss Franc, British Pound & Australian Dollar</i></p>				<p>1 NATIONAL DAY GOLDEN WEEK BEGINS (CHINA)</p> <p>2 Cotton System 2:00 Fats & Oils 2:00 Grain Crushings 2:00</p>
<p>3</p> <p>Construction Spending 9:00 ISM Manufacturing PMI 9:00 Export Inspections 10:00 Cotton System 2:00 Fats & Oils 2:00 Grain Crushings 2:00 Crop Progress 3:00 FN: Oct Sugar-11</p>	<p>4</p> <p>Factory Orders 9:00 Dairy Products 2:00 API Energy Stocks 3:30 FN: Oct NY RBOB & ULSO LT: Sep Butter/Milk LTO: Sep Butter/Milk</p>	<p>5 YOM KIPPUR</p> <p>US Trade Balance 7:30 ISM Services PMI 9:00 EIA Energy Stocks 9:30 Dairy Products Sales 2:00 LTO: Oct ICE Gasoil</p>	<p>6</p> <p>Export Sales 7:30 Jobless Claims 7:30 EIA Gas Storage 9:30</p>	<p>7</p> <p>Unemployment 7:30 Wholesale Trade 7:30 Consumer Credit 2:00 LT: Oct Cotton LTO: Oct Austral 90-Day Bills/Can\$/Currencies/L Cattle/Mx Peso/US Dollar Nov ICE Cocoa</p>	<p>8 Full Moon (9th)</p>
<p>10 COLUMBUS DAY THANKSGIVING (CANADA) SPORTS DAY (JAPAN)</p> <p>FN: Oct L Cattle LTO: Dec Palm Oil</p>	<p>11</p> <p>Export Inspections 10:00 Crop Progress 3:00 LT: Nov Sugar-16</p>	<p>12</p> <p>PPI 7:30 Crop Production 11:00 USDA Supply/Demand 11:00 API Energy Stocks 3:30 FN: Oct ICE Gasoil Nov Sugar-16 LT: Oct ICE Gasoil</p>	<p>13</p> <p>CPI 7:30 Jobless Claims 7:30 Real Earnings 7:30 EIA Gas Storage 9:30 EIA Energy Stocks 10:00 Dairy Products Sales 2:00 LT: Oct CME & SGX Nikkei LTO: Oct JPX & SGX Nikkei/R Ruble/TOPIX</p>	<p>14</p> <p>Business Inventories 7:30 Export Sales 7:30 Retail Sales 7:30 LT: Oct Hogs/Palm Oil/Soymeal/Soyoil LTO: Oct CME Nikkei/Eurodollar/Hogs Nov ICE Coffee/Rapeseed</p>	<p>15</p>
<p>17</p> <p>Export Inspections 10:00 NOPA Crush 11:00 Crop Progress 3:00 LT: Oct BAX/Eurobor/Eurodollar/Mx Peso/R Ruble LTO: Oct Austral Bonds/Euribor Nov ICE WTI Crude/NY Crude Lt/Sugar-11</p>	<p>18</p> <p>Capacity Utilization 8:15 Industrial Production 8:15 API Energy Stocks 3:30</p>	<p>19</p> <p>Housing Starts & Pmts 7:30 EIA Energy Stocks 9:30 Dairy Products Sales 2:00 FN: Nov ICE WTI Crude LT: Oct Short Sterling Nov ICE WTI Crude LTO: Oct Short Sterling Nov Ldn Coffee/ NY Platinum & Palladium</p>	<p>20</p> <p>Export Sales 7:30 Jobless Claims 7:30 Existing Home Sales 9:00 EIA Gas Storage 9:30 Milk Production 2:00 LT: Oct SPI 200 Nov NY Crude Lt LTO: Oct S&P TSX 60/SMI</p>	<p>21</p> <p>Cattle On Feed 2:00 LT: Oct CAC 40/IBEX LTO: Oct CAC 40/DAX/Euro STOXX/FTSE 100/IBEX/STOXX Nov 2Yr,5Yr,10Yr Notes/Bonds/Canola/CGB/Chi,KC,MN Wheat/Corn/Cotton/Euro Bobl/Euro Bund/Euro Buxl/Euro Schatz/Long Gilt/Oats/OJ/Rice/Soybeans/Soymeal/Soyoil</p>	<p>22</p>
<p>24</p> <p>Export Inspections 10:00 Cold Storage 2:00 Crop Progress 3:00 FN: Nov NY Crude Lt</p>	<p>25</p> <p>Consumer Confidence 9:00 API Energy Stocks 3:30 LT: Oct JPX RSS3 Rubber Nov JPX Gasoline & Kerosene LTO: Oct JPX Gold</p>	<p>26</p> <p>New Home Sales 9:00 EIA Energy Stocks 9:30 Dairy Products Sales 2:00 FN: Nov Ldn Coffee LT: Oct JPX Gold, Palladium, Platinum, Silver LTO: Nov Copper/NY Gold & Silver/NY Nat Gas/NY RBOB & ULSO Dec ICE Brent Crude</p>	<p>27</p> <p>Adv Durable Goods 7:30 Export Sales 7:30 GDP (Q3 '21) 7:30 Jobless Claims 7:30 EIA Gas Storage 9:30 LT: Oct Copper/Fdr Cattle/NY Gold & Silver/NY Platinum & Palladium Nov NY Nat Gas LTO: Oct Fdr Cattle Nov UK Nat Gas</p>	<p>28</p> <p>Employment Cost Index 7:30 Personal Income 7:30 FN: Nov NY Nat Gas/UK Nat Gas LT: Oct Bitcoin/Hang Seng Nov UK Nat Gas LTO: Oct Bitcoin/Hang Seng</p>	<p>29</p>
<p>31 HALLOWEEN</p> <p>Chicago PMI 8:45 Export Inspections 10:00 Crop Progress 3:00 FN: Nov Canola/Copper/NY Gold,Silver,Platinum & Palladium/Rice/Soybeans Dec ICE Brent Crude LT: Oct Black Sea Wheat/ Fed Funds/L Cattle/JPX Crude Oil</p>	<p><i>Continued from the 31st:</i> Nov Brazilian Real/ NY RBOB & ULSO/Rapeseed/ SGX Rubber Dec ICE Brent Crude LTO: Oct Black Sea Wheat/ Fed Funds Nov Brazilian Real/JGB/Lumber/ SGX Rubber</p>	<p>31</p> <p>New Home Sales 9:00 EIA Energy Stocks 9:30 Dairy Products Sales 2:00 FN: Nov Ldn Coffee LT: Oct JPX Gold, Palladium, Platinum, Silver LTO: Nov Copper/NY Gold & Silver/NY Nat Gas/NY RBOB & ULSO Dec ICE Brent Crude</p>	<p>31</p> <p>Adv Durable Goods 7:30 Export Sales 7:30 GDP (Q3 '21) 7:30 Jobless Claims 7:30 EIA Gas Storage 9:30 LT: Oct Copper/Fdr Cattle/NY Gold & Silver/NY Platinum & Palladium Nov NY Nat Gas LTO: Oct Fdr Cattle Nov UK Nat Gas</p>	<p>31</p> <p>Employment Cost Index 7:30 Personal Income 7:30 FN: Nov NY Nat Gas/UK Nat Gas LT: Oct Bitcoin/Hang Seng Nov UK Nat Gas LTO: Oct Bitcoin/Hang Seng</p>	

NOVEMBER 2022



MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1 Construction Spending 9:00 ISM Manufacturing PMI 9:00 Cotton System 2:00 Fats & Oils 2:00 Grain Crushings 2:00 API Energy Stocks 3:30 FOMC Meeting FN: Nov OJ/Rapeseed LT: Oct Butter/Milk LTO: Oct Butter/Milk Dec Ldn Wht Sugar	2 EIA Energy Stocks 9:30 Dairy Products Sales 2:00 FOMC Meeting FN: Nov NY RBOB & ULSD	3 CULTURE DAY (JAPAN) Export Sales 7:30 Jobless Claims 7:30 US Trade Balance 7:30 Factory Orders 9:00 ISM Services PMI 9:00 EIA Gas Storage 9:30 LTO: Nov ICE Gasoil	4 Unemployment 7:30 Dairy Products 2:00 LTO: Nov Austral 90-Day Bills/ Can\$/Currencies/L Cattle/Mx Peso/ US Dollar Dec ICE Cocoa	5 DAYLIGHT SAVINGS TIME ENDS (6th)
7 Export Inspections 10:00 Consumer Credit 2:00 Crop Progress 3:00	8 ELECTION DAY Full Moon API Energy Stocks 3:30	9 Wholesale Trade 7:30 EIA Energy Stocks 9:30 Crop Production 11:00 USDA Supply/Demand 11:00 Dairy Products Sales 2:00 LT: Nov OJ	10 CPI 7:30 Export Sales 7:30 Jobless Claims 7:30 Real Earnings 7:30 EIA Gas Storage 9:30 FN: Nov ICE Gasoil LT: Nov CME & SGX Nikkei/ ICE Gasoil LTO: Nov JPX & SGX Nikkei/TOPIX Jan'23 Palm Oil	11 VETERANS DAY REMEMBRANCE DAY (CANADA) LTO: Nov CME Nikkei/Eurodollar/ R Ruble Dec Cotton/ICE Coffee	12
14 Export Inspections 10:00 Crop Progress 3:00 LT: Nov BAX/Canola/Euribor/ Eurodollar/Mx Peso/Rice/Soybeans LTO: Nov Euribor	15 PPI 7:30 NOPA Crush 11:00 API Energy Stocks 3:30 LT: Nov Lumber/Palm Oil/R Ruble Dec Ldn Wht Sugar LTO: Nov Austral Bonds Dec Milling Wheat/Rapeseed Meal/ Rapeseed Oil/Sugar-11	16 Business Inventories 7:30 Retail Sales 7:30 Capacity Utilization 8:15 Industrial Production 8:15 EIA Energy Stocks 9:30 Dairy Products Sales 2:00 FN: Nov Lumber Dec Ldn Wht Sugar LT: Nov Short Sterling Dec ICE WTI Crude/NY Crude Lt/ NY Platinum & Palladium	17 Export Sales 7:30 Housing Starts & Pmts 7:30 Jobless Claims 7:30 EIA Gas Storage 9:30 LTO: Nov Fdr Cattle/SPI 200 LTO: Nov Fdr Cattle/S&P TSX 60/ SMI	18 Existing Home Sales 9:00 Cattle On Feed 2:00 FN: Dec ICE WTI Crude LT: Nov CAC 40/IBEX Dec ICE WTI Crude LTO: Nov CAC 40/DAX/ Euro STOXX/FTSE 100/IBEX/ STOXX Dec CGB/OJ	19
21 Export Inspections 10:00 Milk Production 2:00 Crop Progress 3:00 FN: Dec ICE Coffee LT: Dec NY Crude Lt	22 Cold Storage 2:00 API Energy Stocks 3:30 LTO: Dec Copper/NY Gold & Silver	23 LABOR THANKSGIVING DAY (JAPAN) Adv Durable Goods 7:30 Jobless Claims 7:30 New Home Sales 9:00 EIA Energy Stocks^ 9:30 EIA Gas Storage 11:00 Dairy Products Sales 2:00 FN: Dec Cotton/ICE Cocoa/ NY Crude Lt	24 THANKSGIVING LT: Nov JPX RSS3 Rubber/ Ldn Coffee	25 Export Sales 7:30 LT: Nov Bitcoin Dec JPX Gasoline & Kerosene LTO: Nov Bitcoin Dec 2Yr,5Yr,10Yr Notes/Bonds/ Canola/Chi,KC,MN Wheat/Corn/ Euro Bobl/Euro Bund/Euro Bux/ Euro Schatz/Long Gilt/NY Nat Gas/ NY RBOB & ULSD/Oats/Rice/ Soybeans/Soymeal/Soyoil/ UK Nat Gas Jan'23 ICE Brent Crude	26
28 Export Inspections 10:00 Crop Progress 3:00 LT: Nov Copper/NY Gold & Silver/ NY Platinum & Palladium Dec NY Nat Gas	29 Consumer Confidence 9:00 API Energy Stocks 3:30 FN: Dec CGB/Long Gilt/NY Nat Gas/ UK Nat Gas LT: Nov Butter/Hang Seng/Milk Dec UK Nat Gas LTO: Nov Butter/Hang Seng/Milk	30 GDP (Q3 '21) 7:30 Chicago PMI 8:45 EIA Energy Stocks 9:30 Dairy Products Sales 2:00 FN: Dec 2Yr,5Yr,10Yr Notes/Bonds/ Chi,KC,MN Wheat/Copper/Corn/ NY Gold,Silver,Platinum,Palladium/ Oats/Soymeal/Soyoil Jan'23 ICE Brent Crude LT: Nov Black Sea Wheat/ Fed Funds/JPX Crude Oil Dec Brazilian Real/ NY RBOB & ULSD/Rapeseed Meal/ Rapeseed Oil/SGX Rubber Jan'23 ICE Brent Crude	Continued from the 30th: LTO: Nov Black Sea Wheat/ Fed Funds Dec Brazilian Real/JGB/Ldn Cocoa/ Lumber/SGX Rubber	Holidays listed are not necessarily exchange holidays. Currencies = Euro, Japanese Yen, Swiss Franc, British Pound & Aus- tralian Dollar	ALL REPORT TIMES ARE CENTRAL FN: First Notice Day LT: Last Trading Day Futures LTO: Last Trading Day Options ^ Tentative Date Report and exchange dates can change without notice; please verify.

DECEMBER 2022



MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<p>ALL REPORT TIMES ARE CENTRAL FN: First Notice Day LT: Last Trading Day Futures LTO: Last Trading Day Options ^ Tentative Date Report and exchange dates can change without notice; please verify.</p>	<p>Holidays listed are not necessarily exchange holidays. <i>Currencies = Euro, Japanese Yen, Swiss Franc, British Pound & Australian Dollar</i></p>		<p>1</p> <p>Export Sales 7:30 Jobless Claims 7:30 Personal Income 7:30 Construction Spending 9:00 ISM Manufacturing PMI 9:00 EIA Gas Storage 9:30 Cotton System 2:00 Fats & Oils 2:00 Grain Crushings 2:00 FN: Dec Rapeseed Meal/ Rapeseed Oil</p>	<p>2</p> <p>Unemployment 7:30 Dairy Products 2:00 FN: Dec NY RBOB & ULSD LTO: Dec Austral 90-Day Bills/ L Cattle Jan'23 ICE Cocoa</p>	<p>3</p>
<p>5</p> <p>Factory Orders 9:00 ISM Services PMI 9:00 Export Inspections 10:00 FN: Dec L Cattle LTO: Dec ICE Gasoil</p>	<p>6</p> <p>US Trade Balance 7:30 API Energy Stocks 3:30</p>	<p>7 Full Moon</p> <p>EIA Energy Stocks 9:30 Consumer Credit 2:00 Dairy Products Sales 2:00 LT: Dec BONO/Cotton/Euro Bob/ Euro Bund/Euro Buxl/Euro Schatz</p>	<p>8</p> <p>Export Sales 7:30 Jobless Claims 7:30 EIA Gas Storage 9:30 LT: Dec Austral 90-Day Bills/ CME,JPX,SGX Nikkei/TOPIX Jan'23 Sugar-16 LTO: Dec CME,JPX,SGX Nikkei/ TOPIX</p>	<p>9</p> <p>PPI 7:30 Wholesale Trade 7:30 Crop Production 11:00 USDA Supply/Demand 11:00 FN: Jan'23 Sugar-16 LTO: Dec Can\$/Currencies/ Mx Peso/US Dollar Jan'23 ICE Coffee Feb'23 Palm Oil</p>	<p>10</p>
<p>12</p> <p>Export Inspections 10:00 FN: Dec ICE Gasoil LT: Dec ICE Gasoil/Milling Wheat</p>	<p>13</p> <p>CPI 7:30 Real Earnings 7:30 API Energy Stocks 3:30 FOMC Meeting FN: Dec Milling Wheat LT: Dec JGB/Ldn Cocoa LTO: Dec R Ruble</p>	<p>14</p> <p>EIA Energy Stocks 9:30 Dairy Products Sales 2:00 FOMC Meeting FN: Dec Ldn Cocoa LT: Dec Chi,KC,MN Wheat/Corn/ Hogs/ICE Cocoa/NZ 90-Day Bills/ Oats/Soymeal/Soyoil LTO: Dec Austral Bonds/Hogs/ NZ 90-Day Bills</p>	<p>15</p> <p>Business Inventories 7:30 Export Sales 7:30 Jobless Claims 7:30 Retail Sales 7:30 Capacity Utilization 8:15 Industrial Production 8:15 EIA Gas Storage 9:30 NOPA Crush 11:00 LT: Dec Austral Bonds/Palm Oil/ R Ruble/S&P TSX 60/SPI 200 LTO: Dec S&P TSX 60/SMI Jan'23 ICE WTI Crude/NY Crude Lt/ Sugar-11</p>	<p>16</p> <p>LT: Dec CAC 40/DAX/E-mini Dow/ E-mini S&P 500, NASDAQ/ Euro STOXX/FTSE 100 & 250/IBEX/ Russell/SMI/STOXX LTO: Dec CAC 40/DAX/E-mini Dow/ E-mini S&P 500, NASDAQ/ Euro STOXX/FTSE 100 & 250/IBEX/ Russell/STOXX Jan'23 Canola/CGB/Cotton/OJ</p>	<p>17</p>
<p>19 1st DAY OF HANUKKAH</p> <p>Export Inspections 10:00 Milk Production 2:00 FN: Jan'23 ICE WTI Crude LT: Dec BAX/CGB/Currencies/ Euribor/Eurodollar/ICE Coffee/ Mx Peso/US Dollar Jan'23 ICE WTI Crude LTO: Dec BAX/Euribor/Eurodollar</p>	<p>20</p> <p>Housing Starts & Pmts 7:30 API Energy Stocks 3:30 LT: Dec 10Yr Notes/Bonds/Can\$/ Jan'23 NY Crude Lt</p>	<p>21 WINTER BEGINS</p> <p>Existing Home Sales 9:00 EIA Energy Stocks 9:30 Dairy Products Sales 2:00 LT: Dec Short Sterling LTO: Dec Short Sterling Jan'23 Ldn Coffee/ NY Platinum & Palladium</p>	<p>22</p> <p>Export Sales 7:30 GDP (Q3 '21) 7:30 Jobless Claims 7:30 EIA Gas Storage 9:30 Cold Storage 2:00 FN: Jan'23 NY Crude Lt LT: Dec JPX RSS3 Rubber LTO: Dec JPX Gold Feb'23 ICE Brent Crude</p>	<p>23</p> <p>Adv Durable Goods 7:30 Personal Income 7:30 New Home Sales 9:00 Cattle On Feed 2:00 Hogs & Pigs 2:00 FN: Jan'23 Ldn Coffee LT: Dec JPX Gold, Palladium, Platinum, Silver Jan'23 JPX Gasoline & Kerosene LTO: Jan'23 2Yr,5Yr,10Yr Notes/ Bonds/Chi,KC,MN Wheat/Corn/ Euro Bob/Euro Bund/Euro Buxl/ Euro Schatz/Long Gilt/Oats/Rice/ Soybeans/Soymeal/Soyoil/ UK Nat Gas</p>	<p>24 CHRISTMAS EVE</p>
<p>26 CHRISTMAS DAY OBSERVED BOXING DAY</p>	<p>27 BANK HOLIDAY (UK)</p> <p>Consumer Confidence 9:00 Export Inspections 10:00 LTO: Jan'23 Copper/ NY Gold & Silver/NY Nat Gas/ NY RBOB & ULSD</p>	<p>28</p> <p>API Energy Stocks 3:30 LT: Dec Copper/NY Gold & Silver/ NY Platinum & Palladium Jan'23 NY Nat Gas</p>	<p>29</p> <p>Jobless Claims 7:30 EIA Gas Storage 9:30 EIA Energy Stocks 10:00 Dairy Products Sales 2:00 FN: Jan'23 NY Nat Gas/UK Nat Gas Feb'23 ICE Brent Crude LT: Dec Hang Seng/Long Gilt Jan'23 UK Nat Gas Feb'23 ICE Brent Crude LTO: Dec Hang Seng</p>	<p>30</p> <p>Export Sales 7:30 Chicago PMI 8:45 FN: Jan'23 Canola/Copper/ NY Gold,Silver,Platinum & Palladium/ Rice/Soybeans/Soymeal/Soyoil LT: Dec 2Yr,5Yr Notes/Bitcoin/ Black Sea Wheat/Fed Funds/ L Cattle/JPX Crude Oil Jan'23 Brazilian Real/ NY RBOB & ULSD/SGX Rubber LTO: Dec Bitcoin/Black Sea Wheat/ Fed Funds Jan'23 Brazilian Real/JGB/Lumber/ SGX Rubber</p>	<p>31 NEW YEAR'S EVE</p>

CONTRACT SPECIFICATIONS

Subject to change! Please consult exchanges for most recent updates.

CONTRACT	EXCHANGE	HOURS (LOCAL)*	SIZE	MONTHS	MIN.FLUCTUATION	NORMAL DAILY LIMIT	OPTIONS MOS.
CURRENCIES							
Australian Dollar	CME Group	17:00-16:00	AS100,000	H,M,U,Z, Serial	0.00005=\$5	Circuit Breaker	H,M,U,Z,Serial,Wkly
Australian Dollar, E-Micro	CME Group	17:00-16:00	AS10,000	H,M,U,Z	0.0001=\$1	Circuit Breaker	none
Bitcoin	CME Group	17:00-16:00	5 bitcoins	All	\$5/bitcoin = \$25	Circuit Breaker	All
Bitcoin, E-Micro	CME Group	17:00-16:00	0.1 bitcoin	All	\$5/bitcoin = \$0.50	Circuit Breaker	none
Brazilian Real	CME Group	17:00-16:00	BR100,000	All	0.00005=\$5	Circuit Breaker	All Months & Wkly
British Pound	CME Group	17:00-16:00	£62,500	H,M,U,Z, Serial	0.0001=\$6.25	Circuit Breaker	H,M,U,Z,Serial,Wkly
British Pound, E-Micro	CME Group	17:00-16:00	£6,250	H,M,U,Z	0.0001=\$0.625	Circuit Breaker	none
Canadian Dollar	CME Group	17:00-16:00	CS100,000	H,M,U,Z, Serial	0.00005=\$5	Circuit Breaker	H,M,U,Z,Serial,Wkly
Canadian Dollar, E-Micro	CME Group	17:00-16:00	CS10,000	H,M,U,Z	0.0001=\$1	Circuit Breaker	none
Chilean Peso	CME Group	17:00-16:00	50,000,000 CLP	All	0.0000001 = \$5	Circuit Breaker	none
Chinese Renminbi	CME Group	17:00-16:00	1 million renminbi	All	0.00001=\$10	Circuit Breaker	All Months & Wkly
Ether	CME Group	17:00-16:00	50 ether	All	\$0.25/ether = \$12.50	Circuit Breaker	none
EuroFX	CME Group	17:00-16:00	€ 125,000	H,M,U,Z, Serial	0.00005=\$6.25	Circuit Breaker	H,M,U,Z,Serial,Wkly
EuroFX, E-Micro	CME Group	17:00-16:00	€ 12,500	H,M,U,Z	0.0001=\$1.25	Circuit Breaker	none
EuroFX, E-Mini	CME Group	17:00-16:00	€ 62,500	H,M,U,Z	0.0001=\$6.25	Circuit Breaker	none
Indian Rupee	DGCX	7:00-23:55 (Dubai)	INR 2,000,000	All	US \$0.000001/INR = \$2	none	All
Japanese Yen	CME Group	17:00-16:00	¥12,500,000	H,M,U,Z, Serial	0.0000005=\$6.25	Circuit Breaker	H,M,U,Z,Serial,Wkly
Japanese Yen, E-Micro	CME Group	17:00-16:00	¥1,250,000	H,M,U,Z	0.000001=\$1.25	Circuit Breaker	none
Japanese Yen, E-Mini	CME Group	17:00-16:00	¥6,250,000	H,M,U,Z	0.000001=\$6.25	Circuit Breaker	none
Mexican Peso	CME Group	17:00-16:00	MP 500,000	All	0.00001=\$5	Circuit Breaker	All Months & Wkly
New Zealand Dollar	CME Group	17:00-16:00	NZ\$100,000	H,M,U,Z	0.00005=\$5	Circuit Breaker	H,M,U,Z,Serial,Wkly
Norwegian Krone	CME Group	17:00-16:00	NK 2,000,000	H,M,U,Z	0.00001=\$20	Circuit Breaker	none
Russian Ruble	CME Group	17:00-16:00	RR 2,500,000	All	0.000005=\$12.50	Circuit Breaker	All Months & Wkly
South African Rand	CME Group	17:00-16:00	ZAR 500,000	All	0.000025=\$12.50	Circuit Breaker	All Months & Wkly
Swedish Krona	CME Group	17:00-16:00	SK 2,000,000	H,M,U,Z	0.00001=\$20	Circuit Breaker	none
Swiss Franc	CME Group	17:00-16:00	CHF 125,000	H,M,U,Z	0.0001=\$12.50	Circuit Breaker	H,M,U,Z,Serial,Wkly
US \$ Index	ICE US	20:00-17:00 (NY)	\$1,000 x Index	H,M,U,Z	0.005=\$5	none	H,M,U,Z,Serial
US Dollar/Real	B3	9:00-18:00	US\$50,000	All	BRL0.50 per US\$1,000	Consult Exch	All
ENERGY/EMISSIONS							
Butane, Mont Belvieu	CME Group	18:00-17:00 (NY)	42,000 gal	All	\$0.00001/gal = \$0.42	none	All
Coal (API2) CIF ARA	CME Group	18:00-17:00 (NY)	1,000 metric tons	All	\$0.05/metric ton = \$50	none	All
Coal (API4) FOB Richards Bay	CME Group	18:00-17:00 (NY)	1,000 metric tons	All	\$0.05/metric ton = \$50	none	All
Coal, Richards Bay	ICE Europe	1:00-23:00 (London)**	1,000 metric tons	All	US\$0.05/ton = \$50	none	All
Coal, Rotterdam	ICE Europe	1:00-23:00 (London)**	1,000 metric tons	All	US\$0.05/ton = \$50	none	All
Coking Coal	DCE	9:00-11:30, 13:30-15:00 (Beijing)	60 metric tons	All	0.5 CNY/metric ton = CNY30	4% of Last Settlement	none
Crude Oil, Brent	ICE Europe	1:00-23:00 (London)**	1,000 bbl	All	\$0.01/bbl = \$10	none	All
Crude Oil, Dubai	JPX-OSE	8:45-15:15, 16:30-6:00	50 kl	All	¥10/kl = ¥500	Circuit Breaker	none
Crude Oil, E-Micro	CME Group	18:00-17:00 (NY)	500 bbl	All	\$0.01/bbl = \$1	Circuit Breaker	none
Crude Oil, E-Mini	CME Group	18:00-17:00 (NY)	500 bbl	All	\$0.025/bbl = \$12.50	Circuit Breaker	none
Crude Oil, Lt. Sweet (WTI)	CME Group	18:00-17:00 (NY)	1,000 bbl	All	\$0.01/bbl = \$10	Circuit Breaker	All
Crude Oil, Oman	DME	16:45-16:00 (Chi)	1,000 bbl	All	US\$0.01/bbl = \$10	none	All
Crude Oil, WTI	ICE Europe	1:00-23:00 (London)**	1,000 bbl	All	\$0.01/bbl = \$10	none	All
Electricity, PJM	CME Group	18:00-17:00 (NY)	5 MWh	All	\$0.05/MWh = \$0.25	none	All
Emissions, EUA	ICE Europe	7:00-17:00 (London)**	1000 EUA	H,M,U,Z,Serial	€ 0.01/metric ton=€ 10	none	H,M,U,Z
Emissions, Global Offsets	CME Group	18:00-17:00 (NY)	1000 offsets	All	0.01/offset = \$10	none listed	None
Ethanol	CME Group	18:00-17:00 (NY)	29,000 gal	All	\$0.001/gal = \$29	\$0.30/gal = \$8700	All
Ethanol, Chicago Platts	CME Group	18:00-17:00 (NY)	42,000 gal	All	\$0.0025/gal = \$105	none	All
Fuel Oil No. 6, Gulf Coast	CME Group	18:00-17:00 (NY)	1,000 bbl	All	\$0.01/bbl = \$10	none	All
Gasoil, Low Sulfur	ICE Europe	1:00-23:00 (London)**	100 metric tons	All	\$0.25/mt = \$25	none	All
Gasoline, Regular	JPX-OSE	8:45-15:15, 16:30-6:00	50 kl	All	¥10/kl = ¥500	Circuit Breaker	none
Heating Oil	ICE Europe	1:00-23:00 (London)**	1,000 bbl	All	0.01c/gal = \$4.20	none	All
Jet Kerosene, Singapore	CME Group	18:00-17:00 (NY)	1,000 bbl	All	\$0.001/bbl = \$1	none	All
Kerosene	JPX-OSE	8:45-15:15, 16:30-6:00	50 kl	All	¥10/kl = ¥500	Circuit Breaker	none
Metallurgical Coke	DCE	9:00-11:30, 13:30-15:00 (Beijing)	100 metric tons	All	0.5 CNY/metric ton = CNY50	4% of Last Settlement	none
Natural Gas, Dutch TTF	ICE ENDEX	8:00-18:00 (CET)	1 MW/day	All	€ 0.005/MW	none	All
Natural Gas, E-Mini	CME Group	18:00-17:00 (NY)	2,500 mmBtu	All	\$0.005/mmBtu = \$12.50	Circuit Breaker	none
Natural Gas, Henry Hub	CME Group	18:00-17:00 (NY)	10,000 mmBtu	All	\$0.001/mmBtu = \$10	Circuit Breaker	All
Natural Gas, Last Day Fin	CME Group	18:00-17:00 (NY)	2,500 mmBtu	All	\$0.001/mmBtu = \$2.50	Circuit Breaker	All
Natural Gas, Penultimate Fin	CME Group	18:00-17:00 (NY)	2,500 mmBtu	All	\$0.001/mmBtu = \$2.50	Circuit Breaker	none
Natural Gas, UK	ICE Europe	7:00-17:00 (London)**	1,000 therms/day	All	0.01 pence/therm	none	All
Propane, Mont Belvieu LDH	CME Group	18:00-17:00 (NY)	42,000 gal	All	\$0.00001/gal = \$0.42	none	All
RBOB Gasoline	CME Group	18:00-17:00 (NY)	42,000 gal	All	\$0.0001/gal = \$4.20	Circuit Breaker	All
RBOB Gasoline, NYH	ICE Europe	1:00-23:00 (London)**	1,000 bbl	All	0.01c/gal = \$4.20	none	All
ULSD, Gulf Coast	CME Group	18:00-17:00 (NY)	42,000 gal	All	\$0.0001/gal = \$4.20	Circuit Breaker	none
ULSD, NY Harbor	CME Group	18:00-17:00 (NY)	42,000 gal	All	\$0.0001/gal = \$4.20	Circuit Breaker	All
Wood Pellets	Euronext	10:45-18:30 (Paris)	25 metric tons	H,M,U,Z	€0.25/metric ton = €6.25	none listed	none
FOOD & FIBER							
Butter	CME Group	17:00-16:00	20,000 lbs	All	\$0.00025/lb = \$5	\$0.075/lb = \$1500	All
Cheese	CME Group	17:00-16:00	20,000 lbs	All	\$0.001/lb = \$20	\$0.075/lb = \$1500	All
Cocoa	ICE US	4:45-13:30 (NY)	10 metric tons	H,K,N,U,Z	\$1/metric ton = \$10	none	H,K,N,U,Z,Serial
Cocoa, London	ICE Europe	9:30-16:55 (London)	10 metric tons	H,K,N,U,Z	£1/metric ton = £10	none	H,K,N,U,Z
Coffee C	ICE US	4:15-13:30 (NY)	37,500 lbs	H,K,N,U,Z	0.05 c/lb = \$18.75	none	H,K,N,U,Z,Serial
Coffee, Arabica	B3	9:00-15:00, 15:30-18:00	100 (60 kg) bags	H,K,N,U,Z	US\$0.05/bag = \$5	Consult Exch	H,K,N,U,Z,Serial
Coffee, Robusta	ICE Europe	9:00-17:30 (London)	10 metric tons	F,H,K,N,U,X	US \$1/metric ton = \$10	none	F,H,K,N,U,X
Cotton #2	ICE US	21:00-14:20 (NY)	50,000 lbs	H,K,N,V,Z	0.01 c/lb = \$5	3c/lb = \$1500	H,K,N,V,Z,Serial
Eggs, Fresh Hen	DCE	9:00-11:30, 13:30-15:00 (Beijing)	5 metric tons	All	1 CNY/500KG = CNY10	4% of Last Settlement	none
Milk, Class III	CME Group	17:00-16:00	200,000 lbs	All	\$0.01/cwt = \$20	\$0.75/cwt = \$1500	All
Milk, Class IV	CME Group	17:00-16:00	200,000 lbs	All	\$0.01/cwt = \$20	\$0.75/cwt = \$1500	All
Milk, Nonfat Dry	CME Group	17:00-16:00	44,000 lbs	All	\$0.00025/lb = \$11	\$0.04/lb = \$1760	All
Orange Juice, FCOJ-A	ICE US	8:00-14:00 (NY)	15,000 lbs	F,H,K,N,U,X	0.05 c/lb = \$7.50	10c/lb = \$1500	F,H,K,N,U,X,Serial
Sugar #11, World	ICE US	3:30-13:00 (NY)	112,000 lbs	H,K,N,V	0.01 c/lb = \$11.20	none	F,H,K,N,V,Serial
Sugar #16	ICE US	9:00-13:00 (NY)	112,000 lbs	F,H,K,N,U,X	0.01 c/lb = \$11.20	none	none
Sugar, White	ICE Europe	8:45-18:00 (London)	50 metric tons	H,K,Q,V,Z	US \$0.10/metric ton = \$5	none	H,K,Q,V,Z
Whey, Dry	CME Group	17:00-16:00	44,000 lbs	All	\$0.00025/lb = \$11	\$0.04/lb = \$1760	All

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Month Symbols: F=January, G=February, H=March, J=April, K=May, M=June, N=July, Q=August, U=September, V=October, X=November, Z=December

CONTRACT	EXCHANGE	HOURS (LOCAL)*	SIZE	MONTHS	MIN.FLUCTUATION	NORMAL DAILY LIMIT	OPTIONS MOS.
GRAINS & OILSEEDS							
Barley, Feed	ASX	17:00-19:00, 11:00-16:30	20 metric tons	F,H,K,N,U,X	A\$0.10/mt = A\$2	none listed	G,J,M,Q,V,Z
Canola	ICE Canada	20:00-14:20 (NY)	20 metric tons	F,H,K,N,X	C\$0.10/metric ton=C\$2.00	C\$30/mt = C\$600	F,H,K,N,X,Serial
Corn	CME Group	19:00-7:45, 8:30-13:20	5000 bu	H,K,N,U,Z	1/4 c/bu = \$12.50	40c/bu = \$2000	H,K,N,U,Z,Serial
Corn	DCE	9:00-11:30, 13:30-15:00 (Beijing)	10 metric tons	F,H,K,N,U,X	1 CNY/metric ton = CNY10	4% of Last Settlement	F,H,K,N,U,X
Corn	Euronext	10:45-18:30 (Paris)	50 metric tons	F,H,M,Q,X	€0.25/metric ton = €12.50	none listed	F,H,M,Q,X
Corn	JPX-OSE	8:45-15:15, 16:30-6:00	50 metric tons	F,H,K,N,U,X	¥10/metric tonne = ¥500	Circuit Breaker	none
Corn (Cash-Settled)	B3	9:00-16:20, 17:05-18:00	450 (60 kg) bags	F,H,K,N,Q,U,X	BRL 0.01/bag = 4.50 BRL	Consult Exch	F,H,K,N,Q,U,X
Corn, Mini	CME Group	19:00-7:45, 8:30-13:45	1000 bu	H,K,N,U,Z	1/8 c/bu = \$1.25	40c/bu = \$400	none
Oats	CME Group	19:00-7:45, 8:30-13:20	5000 bu	H,K,N,U,Z	1/4 c/bu = \$12.50	25c/bu = \$1250	H,K,N,U,Z,Serial
Palm Oil, Crude	BMD	10:30-12:30, 14:30-18:00	25 metric tons	All	RM1/metric ton = RM25	Circuit Breaker	All
Palm Olein, RBD	DCE	9:00-11:30, 13:30-15:00 (Beijing)	10 metric tons	All	2 CNY/metric ton = CNY20	4% of Last Settlement	All
Rapeseed	Euronext	10:45-18:30 (Paris)	50 metric tons	G,K,Q,X	€0.25/metric ton = €12.50	none listed	G,K,Q,X
Rough Rice	CME Group	19:00-7:45, 8:30-13:20	2000 cwt	F,H,K,N,U,X	1/2 c/cwt=\$10.00	\$0.95/cwt = \$1900	F,H,K,N,U,X,Serial
Soybean Crush	CME Group	19:00-7:45, 8:30-13:15	50,000 bu	F,H,K,N,Q,U,V,Z	1/4 c/bu = \$125.00	Consult Exch	Consult Exch
Soybean Meal	CME Group	19:00-7:45, 8:30-13:20	100 short tons	F,H,K,N,Q,U,V,Z	\$0.10/ton = \$10.00	\$30/ton = \$3000	F,H,K,N,Q,U,V,Z,Serial
Soybean Meal	DCE	9:00-11:30, 13:30-15:00 (Beijing)	10 metric tons	F,H,K,N,Q,U,X,Z	1 CNY/metric ton = CNY10	4% of Last Settlement	F,H,K,N,Q,U,X,Z
Soybean Oil	CME Group	19:00-7:45, 8:30-13:20	60,000 lbs	F,H,K,N,Q,U,V,Z	1/100 c/lb = \$6.00	3.5c/lb = \$2100	F,H,K,N,Q,U,V,Z,Serial
Soybean Oil, Crude	DCE	9:00-11:30, 13:30-15:00 (Beijing)	10 metric tons	F,H,K,N,Q,U,X,Z	2 CNY/metric ton = CNY20	4% of Last Settlement	none
Soybeans	CME Group	19:00-7:45, 8:30-13:20	5000 bu	F,H,K,N,Q,U,X	1/4 c/bu = \$12.50	\$1.00/bu = \$5000	F,H,K,N,Q,U,X,Serial
Soybeans	JPX-OSE	8:45-15:15, 16:30-6:00	25 metric tons	G,J,M,Q,V,Z	¥10/metric tonne = ¥250	Circuit Breaker	none
Soybeans (No.1)	DCE	9:00-11:30, 13:30-15:00 (Beijing)	10 metric tons	F,H,K,N,U,X	1 CNY/metric ton = CNY10	4% of Last Settlement	none
Soybeans, Mini	CME Group	19:00-7:45, 8:30-13:45	1000 bu	F,H,K,N,Q,U,X	1/8 c/bu = \$1.25	\$1.00/bu = \$1000	none
Wheat (HRS)	MGEX	19:00-7:45, 8:30-13:30	5000 bu	H,K,N,U,Z	1/4 c/bu = \$12.50	\$600/bu = \$3000	H,K,N,U,Z
Wheat, Black Sea	CME Group	19:00-13:20	50 metric tons	All	\$0.25/metric ton = \$12.50	\$45/metric ton = \$2250	All
Wheat, Chi SRW	CME Group	19:00-7:45, 8:30-13:20	5000 bu	H,K,N,U,Z	1/4 c/bu = \$12.50	45c/bu = \$2250	H,K,N,U,Z,Serial
Wheat, Chi SRW Mini	CME Group	19:00-7:45, 8:30-13:45	1000 bu	H,K,N,U,Z	1/8 c/bu = \$1.25	45c/bu = \$450	none
Wheat, Eastern Australian	ASX	17:00-19:00, 11:00-16:30	20 metric tons	F,H,K,N,U	A\$0.10/mt = A\$2	none listed	G,J,M,Q,Z
Wheat, Feed UK	ICE Europe	9:25-17:28 (London)	100 metric tons	F,H,K,N,X	5 pence/metric ton = £5	none	F,H,K,N,X
Wheat, KC HRW	CME Group	19:00-7:45, 8:30-13:20	5000 bu	H,K,N,U,Z	1/4 c/bu = \$12.50	45c/bu = \$2250	H,K,N,U,Z,Serial
Wheat, KC HRW Mini	CME Group	19:00-7:45, 8:30-13:45	1000 bu	H,K,N,U,Z	1/8 c/bu = \$1.25	45c/bu = \$450	none
Wheat, Milling	Euronext	10:45-18:30 (Paris)	50 metric tons	H,K,U,Z	€0.25/metric ton = €12.50	none listed	H,K,U,Z

INDICES & STOCKS

AEX	Euronext	7:15-18:30, 18:30-22:00 (CET)	€200 x Index	H,M,U,Z, Serial	0.05 = €10	none	H,M,U,Z, Serial
CAC-40	Euronext	7:15-18:30, 18:30-22:00 (CET)	€10 x Index	H,M,U,Z, Serial	0.5 = €5	none	H,M,U,Z, Serial
DAX	EUREX	2:10-22:00 (CET)	€25 x Index	H,M,U,Z	1 = €25	none	H,M,U,Z,Serial
DJ Real Estate	CME Group	17:00-16:00	\$100 x Index	H,M,U,Z	0.1 = \$10	Circuit Breaker	none
DJIA, E-Micro (\$5)	CME Group	17:00-16:00	\$0.50 x Index	H,M,U,Z	1 = \$0.50	Circuit Breaker	none
DJIA, E-Mini (\$5)	CME Group	17:00-16:00	\$5 x Index	H,M,U,Z	1 = \$5	Circuit Breaker	H,M,U,Z, Wkly
EURO STOXX	EUREX	7:30-22:00 (CET)	€50 x Index	H,M,U,Z	0.1 = €5	none	H,M,U,Z,Serial
EURO STOXX 50	EUREX	2:10-22:00 (CET)	€10 x Index	H,M,U,Z	0.5 = €5	none	H,M,U,Z,Serial
EURO STOXX 50 Dividend	EUREX	7:30-17:30 (CET)	€100 x Index	M,Z	0.1 = €10	none	Z
EURO STOXX Sector	EUREX	2:10-22:00 (CET)	€50 x Index	H,M,U,Z	0.1 = €5	none	H,M,U,Z,Serial
FTSE 100	ICE Europe	1:00-21:00 (London)	£10 x Index	H,M,U,Z	0.5 = £5	none	All
FTSE 250	ICE Europe	7:00-21:00 (London)	£2 x Index	H,M,U,Z	1 = £2	none	H,M,U,Z
FTSE China A50	SGX	9:00-16:30,17:00-5:15	US\$1 x Index	H,M,U,Z,Serial	1 = US\$1	Circuit Breaker	none
FTSE Indonesia	SGX	9:00-17:25,17:55-5:15	US\$5 x Index	H,M,U,Z,Serial	1 = US\$5	Circuit Breaker	none
FTSE KLCI	BMD	8:45-12:45, 14:30-17:15	RM50 x Index	H,M,U,Z, Serial	0.5 = RM25	20% of Last Settlement	H,M,U,Z, Serial
FTSE Taiwan	SGX	8:45-13:45,14:15-5:15	US\$40 x Index	H,M,U,Z,Serial	0.25 = US\$10	Circuit Breaker	none
Hang Seng Index	HKEx	9:15-12:00,13:00-16:30,17:15-3:00	HK\$50 x Index	H,M,U,Z,Serial	1 = HK\$50	none listed	H,M,U,Z,Serial
Hang Seng Mini	HKEx	9:15-12:00,13:00-16:30,17:15-3:00	HK\$10 x Index	H,M,U,Z,Serial	1 = HK\$10	none listed	H,M,U,Z,Serial
H-shares	HKEx	9:15-12:00,13:00-16:30,17:15-3:00	HK\$50 x Index	H,M,U,Z,Serial	1 = HK\$50	none listed	H,M,U,Z,Serial
H-shares Mini	HKEx	9:15-12:00,13:00-16:30,17:15-3:00	HK\$10 x Index	H,M,U,Z,Serial	1 = HK\$10	none listed	H,M,U,Z,Serial
IBEX-35	MEFF	8:00-20:00	€10 x Index	H,M,U,Z,Serial	varies	none	none
IBEX-35 Mini	MEFF	8:00-20:00	€1 x Index	H,M,U,Z,Serial	5 = €5	none	H,M,U,Z,Serial
Ibovespa	B3	9:00-17:55	1 BRL x Index	G,J,M,Q,V,Z	5 points = BRL 5	Consult Exch	All
India Nifty 50	SGX	9:00-18:10,18:40-5:15	US\$2 x Index	H,M,U,Z,Serial	0.5 = US\$1	Circuit Breaker	H,M,U,Z,Serial
JPX-Nikkei 400	JPX-OSE	8:45-15:15, 16:30-6:00	¥100 x Index	H,M,U,Z	5 = ¥500	Circuit Breaker	H,M,U,Z,Serial
MSCI EAFE	ICE US	20:00-18:00 (NY)	\$50 x Index	H,M,U,Z	0.10 = \$5	none	none
MSCI Emerging Mkts	ICE US	20:00-18:00 (NY)	\$50 x Index	H,M,U,Z	0.10 = \$5	none	none
MSCI Europe	EUREX	2:10-22:00 (CET)	€100 x Index	H,M,U,Z	0.01 = €1	none	H,M,U,Z,Serial
MSCI Singapore	SGX	8:30-17:20,17:50-5:15	S\$100 x Index	H,M,U,Z,Serial	0.05 = S\$5	Circuit Breaker	H,M,U,Z,Serial
Nasdaq 100, E-Micro	CME Group	17:00-16:00	\$2 x Index	H,M,U,Z	0.25 = \$0.50	Circuit Breaker	H,M,U,Z, Wkly
Nasdaq 100, E-Mini	CME Group	17:00-16:00	\$20 x Index	H,M,U,Z	0.25 = \$5	Circuit Breaker	H,M,U,Z, Wkly
Nikkei 225	JPX-OSE	8:45-15:15, 16:30-6:00	¥1,000 x Index	H,M,U,Z	10 = ¥10,000	Circuit Breaker	H,M,U,Z,Serial,Wkly
Nikkei 225	SGX	7:30-14:25,14:55-5:15	¥500 x Index	H,M,U,Z,Serial	5 = ¥2,500	Circuit Breaker	H,M,U,Z,Serial
Nikkei 225 (Dollar)	CME Group	17:00-16:00	\$5 x Index	H,M,U,Z	5 = \$25	Circuit Breaker	None
Nikkei 225 (Yen)	CME Group	17:00-16:00	¥500 x Index	H,M,U,Z,Serial	5 = ¥2,500	Circuit Breaker	H,M,U,Z
Nikkei 225 Mini	JPX-OSE	8:45-15:15, 16:30-6:00	¥100 x Index	H,M,U,Z,Serial	5 = ¥500	Circuit Breaker	none
RDX USD	EUREX	7:50-22:00 (CET)	US\$10 x Index	H,M,U,Z	0.5 = \$5	none	H,M,U,Z,Serial
Rubber (RSS3 & TSR20)	SGX	7:55-18:00	5 metric tons	All	\$0.001/kg = US\$5	Circuit Breaker	All (TSR20)
Russell 1000 Growth Mini	CME Group	17:00-16:00	\$50 x Index	H,M,U,Z	0.10 = \$5	Consult Exch	none
Russell 1000 Mini	CME Group	17:00-16:00	\$50 x Index	H,M,U,Z	0.10 = \$5	Consult Exch	none
Russell 1000 Value Mini	CME Group	17:00-16:00	\$50 x Index	H,M,U,Z	0.10 = \$5	Consult Exch	none
Russell 2000 E-Micro	CME Group	17:00-16:00	\$5 x Index	H,M,U,Z	0.10 = \$0.50	Consult Exch	none
Russell 2000 Mini	CME Group	17:00-16:00	\$50 x Index	H,M,U,Z	0.10 = \$5	Consult Exch	H,M,U,Z
S&P 400 Midcap, E-Mini	CME Group	17:00-16:00	\$100 x Index	H,M,U,Z	0.10 = \$10	Circuit Breaker	H,M,U,Z, Wkly
S&P 500, E-Micro	CME Group	17:00-16:00	\$5 x Index	H,M,U,Z	0.25 = \$1.25	Circuit Breaker	H,M,U,Z, Wkly
S&P 500, E-Mini	CME Group	17:00-16:00	\$50 x Index	H,M,U,Z	0.25 = \$12.50	Circuit Breaker	H,M,U,Z, Wkly
S&P/BMV	MexDer	7:30-15:00 (Mexico City)	MXN10 x Index	H,M,U,Z	5 = MXN50	none	none
S&P/TSX 60 Mini	TMX	20:00-9:15, 9:30-16:30	C\$50 x Index	H,M,U,Z	0.10 = C\$5	Circuit Breaker	none
S&P-GSCI	CME Group	17:00-16:00	\$250 x Index	All	0.05 = \$12.50	none	none
S&P-GSCI Excess Return	CME Group	17:00-16:00	\$100 x Index	All	0.001 = \$0.10	none	none
SMI	EUREX	7:50-22:00 (CET)	CHF10 x Index	H,M,U,Z	1 = CHF10	none	H,M,U,Z,Serial
SPI 200 Index	ASX	17:10-8:00(7:00), 9:50-16:30**	A\$25 x Index	H,M,U,Z,Serial	1 = A\$25	Consult Exch	H,M,U,Z,Serial
SPIKES Volatility Index	MGEX	17:00-16:00	\$1000 x Index	All	0.05 = \$50	Circuit Breaker	All
STOXX Europe 600	EUREX	2:10-22:00 (CET)	€50 x Index	H,M,U,Z	0.1 = €5	none	H,M,U,Z,Serial
STOXX Europe 600 Sector	EUREX	7:50-22:00 (CET)	€50 x Index	H,M,U,Z	0.1 = €5	none	H,M,U,Z,Serial
Topix	JPX-OSE	8:45-15:15, 16:30-6:00	¥10,000 x Index	H,M,U,Z	0.5 = ¥ 5,000	Circuit Breaker	H,M,U,Z,Serial
Topix Mini	JPX-OSE	8:45-15:15, 16:30-5:30	¥1,000 x Index	H,M,U,Z	0.25 = ¥ 250	Circuit Breaker	none

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CONTRACT	EXCHANGE	HOURS (LOCAL)*	SIZE	MONTHS	MIN.FLUCTUATION	NORMAL DAILY LIMIT	OPTIONS MOS.
INDICES & STOCKS, continued							
Volatility Index (VIX)	CBOE	17:00-15:15, 15:30-16:00	\$1000 x Index	G,K,Q,X,Serial	0.05 = \$50	Circuit Breaker	none
VSTOXX	EUREX	7:50-22:00 (CET)	€100 x Index	All	0.05 = €5	none	All
INDUSTRIAL PRODUCTS							
Lumber	CME Group	9:00-15:05	110,000 bd ft	F,H,K,N,U,X	\$0.10/mbf = \$11	\$42/mbf = \$4620	F,H,K,N,U,X,Serial
Polyethylene (LLDPE)	DCE	9:00-11:30, 13:30-15:00 (Beijing)	5 metric tons	All	5 CNY/metric ton = CNY25	4% of Last Settlement	All
Polypropylene (PP)	DCE	9:00-11:30, 13:30-15:00 (Beijing)	5 metric tons	All	1 CNY/metric ton = CNY5	4% of Last Settlement	All
Polyvinyl Chloride (PVC)	DCE	9:00-11:30, 13:30-15:00 (Beijing)	5 metric tons	All	5 CNY/metric ton = CNY25	4% of Last Settlement	All
Rubber, RSS3	JPX-TOCOM	9:00-15:15, 16:30-19:00	5,000 kg	All	¥0.1/kg = ¥500	Circuit Breaker	none
Rubber, TSR 20	JPX-SICOM	7:55-18:00	5,000 kg	All	\$0.1/kg = ¥500	Circuit Breaker	none
INTEREST RATES							
1-Month SOFR	CME Group	17:00-16:00	\$4167 x Contract IMM Index	All	1/4 of 1 bp = \$10.4175^	none listed	All
30 Day Interbank Cash Rate	ASX	17:14-7:30(7:00), 8:34-16:30**	A\$3,000,000	All	0.005% = A\$12.33	none listed	None
3-Month SOFR	CME Group	17:00-16:00	\$2500 x Contract IMM Index	H,M,U,Z	0.0025 = \$6.25	none listed	H,M,U,Z,Serial
Austral Bank Bill 90-Day	ASX	17:08-7:30(7:00), 8:28-16:30**	A\$1,000,000	H,M,U,Z	0.01% = A\$24 (approx)	none listed	H,M,U,Z, Serial
Austral Govt Bond, 10 yr	ASX	17:12-7:30(7:00), 8:32-16:30**	A\$100,000	H,M,U,Z	0.005% = A\$47 (approx)	none listed	H,M,U,Z,Serial
Austral Govt Bond, 3 yr	ASX	17:10-7:30(7:00), 8:30-16:30**	A\$100,000	H,M,U,Z	0.005% = A\$15 (approx)	none listed	H,M,U,Z,Serial
Bono 10	MEFF	8:00-17:35	€ 100,000	H,M,U,Z	1 bp = €10	none	none
Can Bankers Accept (BAX)	TMX	20:00-16:30	C\$1,000,000	H,M,U,Z,Serial	0.005 = C\$12.50	none	H,M,U,Z,Serial
Can Govt Bond, 10 yr	TMX	20:00-16:30	C\$100,000	H,M,U,Z	0.01 = C\$10	none	H,M,U,Z,Serial
Can Govt Bond, 2 yr	TMX	20:00-16:30	C\$100,000	H,M,U,Z	0.005 = C\$5	none	H,M,U,Z,Serial
Can Govt Bond, 5 yr	TMX	20:00-16:30	C\$100,000	H,M,U,Z	0.01 = C\$10	none	H,M,U,Z,Serial
Euribor, 3 mo	EUREX	8:00-19:00 (CET)	€ 1,000,000	H,M,U,Z, Serial	0.005 = €12.50	none	H,M,U,Z,Serial
Euribor, 3 mo	ICE Europe	1:00-21:00 (London)	€2500 x Rate Index	H,M,U,Z, Serial	0.005 = €12.50	none	H,M,U,Z,Serial
Euro Swapnotes, 10 & 5 yr	ICE Europe	7:00-18:00 (London)	€ 100,000	H,M,U,Z	0.01 = €10	none	none
Euro Swapnotes, 2 yr	ICE Europe	7:00-18:00 (London)	€ 100,000	H,M,U,Z	0.005 = €5	none	none
Euro-Bobl	EUREX	2:10-22:00 (CET)	€ 100,000	H,M,U,Z	0.01 = €10	none	H,M,U,Z, Serial
Euro-BTP (Long Term)	EUREX	7:30-19:00 (CET)	€ 100,000	H,M,U,Z	0.01 = €10	none	H,M,U,Z, Serial
Euro-BTP (Short Term)	EUREX	7:30-19:00 (CET)	€ 100,000	H,M,U,Z	0.01 = €10	none	H,M,U,Z, Serial
Euro-Bund	EUREX	2:10-22:00 (CET)	€ 100,000	H,M,U,Z	0.01 = €10	none	H,M,U,Z,Serial
Euro-Buxl	EUREX	2:10-22:00 (CET)	€ 100,000	H,M,U,Z	0.02 = €20	none	H,M,U,Z,Serial
Eurodollar	CME Group	17:00-16:00	\$2500 x Contract IMM Index	H,M,U,Z, Serial	0.005 = \$12.50^	none listed	H,M,U,Z, Serial
Eurodollar, 1 month	CME Group	17:00-16:00	\$2500 x Contract IMM Index	All	0.0025 = \$6.25	none listed	None
Euro-OAT	EUREX	2:10-22:00 (CET)	€ 100,000	H,M,U,Z	0.01 = €10	none	H,M,U,Z, Serial
Euro-Schatz	EUREX	2:10-22:00 (CET)	€ 100,000	H,M,U,Z	0.005 = €5	none	H,M,U,Z, Serial
EuroSwiss, 3 mo	ICE Europe	7:30-18:00 (London)	CHF2500 x Rate Index	H,M,U,Z	0.01 = CHF25	none	none
Fed Funds, 30 day	CME Group	17:00-16:00	\$4167 x Contract IMM Index	All	1/2 of 1 bp = \$20.835^	none listed	All
Interbank Deposit, 1-Day	B3	9:00-16:00, 16:50-18:00	Consult Exchange	All	1 Basis Point	Consult Exch	All
Jpn Govt Bond 10 yr (JGB)	SGX	7:25-17:10, 17:30-5:15	¥100 million	H,M,U,Z	0.01/100 = ¥10,000	none	none
Jpn Govt Bond 10 yr (JGB)	JPX-OSE	8:45-11:02, 12:30-15:02, 15:30-6:00	¥100 million	H,M,U,Z	¥0.01 = ¥10,000	Circuit Breaker	H,M,U,Z, Serial
Jpn Govt Bond 10 yr Mini	SGX	7:25-17:10, 17:30-5:15	¥10 million	H,M,U,Z	0.01/100 = ¥1,000	none	H,M,U,Z, Serial
Long Gilt	ICE Europe	8:00-18:00 (London)	£100,000	H,M,U,Z	0.01 = £10	none	H,M,U,Z, Serial
New Zeal. Bank Bill, 90-Day	ASX	17:40-7:00, 8:30-16:30 (NZ)	NZ\$1,000,000	H,M,U,Z	0.01% = NZ\$24 (approx)	none listed	H,M,U,Z
Short Sterling	ICE Europe	7:30-18:00 (London)	£1250 x Rate Index	H,M,U,Z, Serial	0.005 = £6.25	none	H,M,U,Z, Serial
Swaps (10 yr)	CME Group	17:00-16:00	\$100,000	H,M,U,Z	1/2 of 1/32 = \$15.625	Consult Exch	none
Swaps (2 & 5 yr)	CME Group	17:00-16:00	\$100,000	H,M,U,Z	1/4 of 1/32 = \$7.8125	Consult Exch	none
US T-Bonds	CME Group	17:00-16:00	\$100,000	H,M,U,Z	1/32 = \$31.25	Circuit Breaker	H,M,U,Z,Serial,Wkly
US T-Bonds, Ultra	CME Group	17:00-16:00	\$100,000	H,M,U,Z	1/32 = \$31.25	Circuit Breaker	H,M,U,Z,Serial,Wkly
US T-Notes, 10-yr	CME Group	17:00-16:00	\$100,000	H,M,U,Z	1/2 of 1/32 = \$15.625	Circuit Breaker	H,M,U,Z,Serial,Wkly
US T-Notes, 2-yr	CME Group	17:00-16:00	\$200,000	H,M,U,Z	1/8 of 1/32 = \$7.8125	Circuit Breaker	H,M,U,Z,Serial,Wkly
US T-Notes, 5-yr	CME Group	17:00-16:00	\$100,000	H,M,U,Z	1/4 of 1/32 = \$7.8125	Circuit Breaker	H,M,U,Z,Serial,Wkly
LIVESTOCK & MEAT							
Cattle, Feeder	CME Group	8:30-13:05	50,000 lbs	F,H,J,K,Q,U,V,X	\$0.00025/lb = \$12.50	\$0.0625/lb = \$3125	F,H,J,K,Q,U,V,X
Cattle, Live	B3	9:00-16:30, 17:05-18:00	330 net arrobas	All	BRL 0.05/net arroba = BRL 16.50	Consult Exch	All
Cattle, Live	CME Group	8:30-13:05	40,000 lbs	G,J,M,Q,V,Z	\$0.00025/lb = \$10	\$0.05/lb = \$2000	G,J,M,Q,V,Z,Serial
Hogs, Lean	CME Group	8:30-13:05	40,000 lbs	G,J,K,M,N,Q,V,Z	\$0.00025/lb = \$10	\$0.0475/lb = \$1900	G,J,K,M,N,Q,V,Z
Pork Cutout	CME Group	8:30-13:05	40,000 lbs	G,J,K,M,N,Q,V,Z	\$0.00025/lb = \$10	\$0.0575/lb = \$2300	G,J,K,M,N,Q,V,Z
METALS							
Aluminum	CME Group	18:00-17:00 (NY)	25 metric tons	All	\$0.25/metric ton = \$6.25	none listed	none
Aluminum MW/Platts	CME Group	18:00-17:00 (NY)	25 metric tons	All	\$0.00001/lb = \$0.55116	none listed	All
Copper	CME Group	18:00-17:00 (NY)	25,000 lbs	All	0.05 ¢/lb = \$12.50	Circuit Breaker	All
Copper, E-Mini	CME Group	18:00-17:00 (NY)	12,500 lbs	All	\$0.002/lb = \$25	Circuit Breaker	none
Gold	CME Group	18:00-17:00 (NY)	100 oz	G,J,M,Q,V,Z,Serial	\$0.10/oz = \$10	Circuit Breaker	All
Gold	JPX-OSE	8:45-15:15, 16:30-6:00	1 kg	G,J,M,Q,V,Z	¥1/g = ¥1000	Circuit Breaker	G,J,M,Q,V,Z
Gold Mini	JPX-OSE	8:45-15:15, 16:30-6:00	100 g	G,J,M,Q,V,Z	¥1/g = ¥100	Circuit Breaker	none
Gold, E-Micro	CME Group	18:00-17:00 (NY)	10 oz	G,J,M,Q,V,Z	\$0.10/oz = \$1.00	Circuit Breaker	none
Gold, E-Mini	CME Group	18:00-17:00 (NY)	50 oz	G,J,M,Q,V,Z	\$0.25/oz = \$12.50	Circuit Breaker	none
Iron Ore	DCE	9:00-11:30, 13:30-15:00 (Beijing)	100 metric tons	All	0.5 CNY/metric ton = CNY50	4% of Last Settlement	All
Lead	CME Group	18:00-17:00 (NY)	25 metric tons	All	\$0.50/metric ton = \$12.50	none listed	none
Palladium	CME Group	18:00-17:00 (NY)	100 oz	H,M,U,Z,Serial	\$0.50/oz = \$50	Circuit Breaker	H,M,U,Z,Serial
Palladium	JPX-OSE	8:45-15:15, 16:30-6:00	500 g	G,J,M,Q,V,Z	¥1/g = ¥ 500	Circuit Breaker	none
Platinum	CME Group	18:00-17:00 (NY)	50 oz	F,J,N,V,Serial	\$0.10/oz = \$5	Circuit Breaker	F,J,N,V,Serial
Platinum	JPX-OSE	8:45-15:15, 16:30-6:00	500 g	G,J,M,Q,V,Z	¥1/g = ¥ 500	Circuit Breaker	none
Platinum Mini	JPX-OSE	8:45-15:15, 16:30-6:00	100 g	G,J,M,Q,V,Z	¥1/g = ¥ 100	Circuit Breaker	none
Silver	CME Group	18:00-17:00 (NY)	5000 oz	F,H,K,N,U,Z,Serial	\$0.005/oz = \$25	Circuit Breaker	All
Silver	JPX-OSE	8:45-15:15, 16:30-6:00	10 kg	G,J,M,Q,V,Z	¥0.1/g=¥1000	Circuit Breaker	none
Silver, E-Micro	CME Group	18:00-17:00 (NY)	1000 oz	F,H,K,N,U,Z,Serial	\$0.005/oz = \$5	Circuit Breaker	none
Silver, E-Mini	CME Group	18:00-17:00 (NY)	2500 oz	F,H,K,N,U,Z	\$0.0125/oz = \$31.25	Circuit Breaker	none
Steel, US Midwest CRU	CME Group	18:00-17:00 (NY)	20 short tons	All	¥1/short ton = \$20	none listed	All
TSI Iron Ore (CFR China)	SGX	7:25-20:00, 20:15-5:15	100 metric tons	All	0.05 = US\$5	none	All
Uranium U308	CME Group	18:00-17:00 (NY)	250 lbs. of U308	All	\$0.05/lb = \$12.50	none listed	none
Zinc	CME Group	18:00-17:00 (NY)	25 metric tons	All	\$0.50/metric ton = \$12.50	none listed	none
WEATHER							
Cooling Degree Days, US	CME Group	17:00-15:15	\$20 x CDD Index	J,K,M,N,Q,U,V	1 pt = \$20	none listed	J,K,M,N,Q,U,V
Cumulative Avg Temp, Europe	CME Group	17:00-15:15	€20/€20 x Index	K,M,N,Q,U	1 pt = €20/€20	none listed	K,M,N,Q,U
Heating Degree Days, Europe	CME Group	17:00-15:15	€20/€20 x Index	X,Z,F,G,H	1 pt = €20/€20	none listed	X,Z,F,G,H
Heating Degree Days, US	CME Group	17:00-15:15	\$20 x HDD Index	V,X,Z,F,G,H,J	1 pt = \$20	none listed	V,X,Z,F,G,H,J

Contract Specifications are subject to change without notice. *All times local, except where indicated: Globex is in the US Central Time Zone. †Open outcry times (options only).
 Electronic hours usually differ on Sundays. Please consult exchange. **Times vary, please consult exchange. ~Specs change mid-year. ^Spot minimum fluctuation is 0.0025 (1/4 of 1 bp).
 Month Symbols: F=January, G=February, H=March, J=April, K=May, M=June, N=July, Q=August, U=September, V=October, X=November, Z=December

2022 FUTURES EXPIRATION CALENDAR

DOLLAR INDEX

	FND	LTD
Mar	-	3/14
Jun	-	6/13
Sep	-	9/19
Dec	-	12/19

EURO/POUND/SWISS FRANC/ YEN/AUSTRALIAN DOLLAR

	FND	LTD
Mar	-	3/14
Jun	-	6/13
Sep	-	9/19
Dec	-	12/19

CANADIAN DOLLAR

	FND	LTD
Mar	-	3/15
Jun	-	6/14
Sep	-	9/20
Dec	-	12/20

BRAZILIAN REAL

	LTD
Jan	12/31/21
Feb	1/31/22
Mar	2/25
Apr	3/31
May	4/29
Jun	5/31
Jul	6/30
Aug	7/29
Sep	8/31
Oct	9/30
Nov	10/31
Dec	11/30
Jan'23	12/30

MEXICAN PESO

	LTD
Jan	1/14
Feb	2/14
Mar	3/14
Apr	4/18
May	5/16
Jun	6/13
Jul	7/18
Aug	8/15
Sep	9/19
Oct	10/17
Nov	11/14
Dec	12/19

E-mini DOW, NASDAQ, S&P/ RUSSELL

	FND	LTD
Mar	-	3/18
Jun	-	6/17
Sep	-	9/16
Dec	-	12/16

CME NIKKEL (YEN)

	FND	LTD
Jan	-	1/13
Feb	-	2/10
Mar	-	3/10
Apr	-	4/07
May	-	5/12
Jun	-	6/09
Jul	-	7/07
Aug	-	8/11
Sep	-	9/08
Oct	-	10/13
Nov	-	11/10
Dec	-	12/08

CME EURO DOLLAR

	FND	LTD
Jan	-	1/17
Feb	-	2/14
Mar	-	3/14
Apr	-	4/18
May	-	5/16
Jun	-	6/13
Jul	-	7/18
Aug	-	8/15
Sep	-	9/19
Oct	-	10/17
Nov	-	11/14
Dec	-	12/19

2YR & 5YR NOTES

	FND	LTD
Mar	2/28	3/31
Jun	5/31	6/30
Sep	8/31	9/30
Dec	11/30	12/30

T-BONDS/10YR NOTES

	FND	LTD
Mar	2/28	3/22
Jun	5/31	6/21
Sep	8/31	9/21
Dec	11/30	12/20

LIFFE LONG GILT

	FND	LTD
Mar	2/25	3/29
Jun	5/30	6/28
Sep	8/30	9/28
Dec	11/29	12/29

30-DAY FED FUNDS

	FND	LTD
Jan	-	1/31
Feb	-	2/28
Mar	-	3/31
Apr	-	4/29
May	-	5/31
Jun	-	6/30
Jul	-	7/29
Aug	-	8/31
Sep	-	9/30
Oct	-	10/31
Nov	-	11/30
Dec	-	12/30

NY GOLD, SILVER, COPPER,

PLATINUM & PALLADIUM

	FND	LTD
Jan	12/31/21	1/27
Feb	1/31/22	2/24
Mar	2/28	3/29
Apr	3/31	4/27
May	4/29	5/26
Jun	5/31	6/28
Jul	6/30	7/27
Aug	7/29	8/29
Sep	8/31	9/28
Oct	9/30	10/27
Nov	10/31	11/28
Dec	11/30	12/28
Jan'23	12/30	1/27/23

NY CRUDE LT

	FND	LTD
Jan	12/22/21	12/20/21
Feb	1/24/22	1/20/22
Mar	2/24	2/22
Apr	3/24	3/22
May	4/22	4/20
Jun	5/24	5/20
Jul	6/23	6/21
Aug	7/22	7/20
Sep	8/24	8/22
Oct	9/22	9/20
Nov	10/24	10/20
Dec	11/23	11/21
Jan'23	12/22	12/20

NY RBOB & ULS

	FND	LTD
Jan	1/04	12/31/21
Feb	2/02	1/31/22
Mar	3/02	2/28
Apr	4/04	3/31
May	5/03	4/29
Jun	6/02	5/31
Jul	7/05	6/30
Aug	8/02	7/29
Sep	9/02	8/31
Oct	10/04	9/30
Nov	11/02	10/31
Dec	12/02	11/30
Jan'23	1/04/23	12/30

NY NATURAL GAS

	FND	LTD
Jan	12/30/21	12/29/21
Feb	1/28/22	1/27/22
Mar	2/25	2/24
Apr	3/30	3/29
May	4/28	4/27
Jun	5/27	5/26
Jul	6/29	6/28
Aug	7/28	7/27
Sep	8/30	8/29
Oct	9/29	9/28
Nov	10/28	10/27
Dec	11/29	11/28
Jan'23	12/29	12/28

ICE BRENT CRUDE

	FND	LTD
Jan	11/30/21	11/30/21
Feb	12/30/21	12/30/21
Mar	1/31/22	1/31/22
Apr	2/28	2/28
May	3/31	3/31
Jun	4/29	4/29
Jul	5/31	5/31
Aug	6/30	6/30
Sep	7/29	7/29
Oct	8/31	8/31
Nov	9/30	9/30
Dec	10/31	10/31
Jan'23	11/30	11/30
Feb'23	12/29	12/29

CHI, KC, MN WHEAT

	FND	LTD
Mar	2/28	3/14
May	4/29	5/13
Jul	6/30	7/14
Sep	8/31	9/14
Dec	11/30	12/14

CORN, OATS

	FND	LTD
Mar	2/28	3/14
May	4/29	5/13
Jul	6/30	7/14
Sep	8/31	9/14
Dec	11/30	12/14

LEAN HOGS

	FND	LTD
Feb	-	2/14
Apr	-	4/14
May	-	5/13
Jun	-	6/14
Jul	-	7/15
Aug	-	8/12
Oct	-	10/14
Dec	-	12/14

LIVE CATTLE

	FND	LTD
Feb	2/07	2/28
Apr	4/04	4/29
Jun	6/06	6/30
Aug	8/08	8/31
Oct	10/10	10/31
Dec	12/05	12/30

FEEDER CATTLE

	FND	LTD
Jan	-	1/27
Mar	-	3/31
Apr	-	4/28
May	-	5/26
Aug	-	8/25
Sep	-	9/29
Oct	-	10/27
Nov	-	11/17

SOYBEANS

	FND	LTD
Jan	12/31/21	1/14
Mar	2/28/22	3/14
May	4/29	5/13
Jul	6/30	7/14
Aug	7/29	8/12
Sep	8/31	9/14
Nov	10/31	11/14
Jan'23	12/30	1/13/23

SOYBEAN MEAL & OIL

	FND	LTD
Jan	12/31/21	1/14
Mar	2/28/22	3/14
May	4/29	5/13
Jul	6/30	7/14
Aug	7/29	8/12
Sep	8/31	9/14
Oct	9/30	10/14
Dec	11/30	12/14
Jan'23	12/30	1/13/23

ICE COFFEE

	FND	LTD
Mar	2/17	3/21
May	4/21	5/18
Jul	6/22	7/19
Sep	8/23	9/20
Dec	11/21	12/19

ICE SUGAR 11

	FND	LTD
Mar	3/01	2/28
May	5/02	4/29
Jul	7/01	6/30
Oct	10/03	9/30

ICE COCOA

	FND	LTD
Mar	2/22	3/16
May	4/25	5/13
Jul	6/24	7/14
Sep	8/25	9/15
Dec	11/23	12/14

COTTON

	FND	LTD
Mar	2/22	3/09
May	4/25	5/06
Jul	6/24	7/07
Oct	9/26	10/07
Dec	11/23	12/07

ORANGE JUICE

	FND	LTD
Jan	1/03	1/10
Mar	3/01	3/11
May	5/02	5/10
Jul	7/01	7/11
Sep	9/01	9/12
Nov	11/01	11/09

RICE

	FND	LTD
Jan	12/31/21	1/14
Mar	2/28/22	3/14
May	4/29	5/13
Jul	6/30	7/14
Sep	8/31	9/14
Nov	10/31	11/14
Jan'23	12/30	1/13/23

MILK & BUTTER

	FND	LTD
Dec'21	-	1/04
Jan	-	2/01
Feb	-	3/01
Mar	-	3/29
Apr	-	5/03
May	-	6/01
Jun	-	6/28
Jul	-	8/02
Aug	-	8/30
Sep	-	10/04
Oct	-	11/01
Nov	-	11/29
Dec	-	1/04/23

LUMBER

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2022 OPTIONS EXPIRATION CALENDAR

<u>EURO, POUND/SWISS FRANC/ YEN/AUSTRALIAN DOLLAR/ CANADIAN DOLLAR/ MX PESO/DOLLAR INDEX</u>	
	LTD
Jan	1/07
Feb	2/04
Mar	3/04
Apr	4/08
May	5/06
Jun	6/03
Jul	7/08
Aug	8/05
Sep	9/09
Oct	10/07
Nov	11/04
Dec	12/09

BRAZILIAN REAL

	LTD
Jan	12/31/21
Feb	1/31/22
Mar	2/25
Apr	3/31
May	4/29
Jun	5/31
Jul	6/30
Aug	7/29
Sep	8/31
Oct	9/30
Nov	10/31
Dec	11/30
Jan'23	12/30

E-mini DOW, NASDAQ, S&P

	LTD
Mar	3/18
Jun	6/17
Sep	9/16
Dec	12/16

CME NIKKEI (YEN)

	LTD
Jan	1/14
Feb	2/11
Mar	3/10
Apr	4/08
May	5/13
Jun	6/09
Jul	7/08
Aug	8/12
Sep	9/08
Oct	10/14
Nov	11/11
Dec	12/08

2, 5 & 10YR NOTES/T-BONDS

	LTD
Jan	12/23/21
Feb	1/21/22
Mar	2/18
Apr	3/25
May	4/22
Jun	5/20
Jul	6/24
Aug	7/22
Sep	8/26
Oct	9/23
Nov	10/21
Dec	11/25
Jan'23	12/23

CME EURODOLLAR

	LTD
Jan	1/14
Feb	2/11
Mar	3/14
Apr	4/14
May	5/13
Jun	6/13
Jul	7/15
Aug	8/12
Sep	9/19
Oct	10/14
Nov	11/11
Dec	12/19

30-DAY FED FUNDS

	LTD
Jan	1/31
Feb	2/28
Mar	3/31
Apr	4/29
May	5/31
Jun	6/30
Jul	7/29
Aug	8/31
Sep	9/30
Oct	10/31
Nov	11/30
Dec	12/30

LIFFE LONG GILT

	LTD
Jan	12/23/21
Feb	1/22/22
Mar	2/18
Apr	3/25
May	4/22
Jun	5/27
Jul	6/24
Aug	7/22
Sep	8/26
Oct	9/23
Nov	10/21
Dec	11/25
Jan'23	12/23

NY GOLD & SILVER/ NY COPPER

	LTD
Jan	12/28/21
Feb	1/26/22
Mar	2/23
Apr	3/28
May	4/26
Jun	5/25
Jul	6/27
Aug	7/26
Sep	8/25
Oct	9/27
Nov	10/26
Dec	11/22
Jan'23	12/27

NY PLATINUM & PALLADIUM

	LTD
Jan	12/15/21
Feb	1/19/22
Mar	2/16
Apr	3/16
May	4/20
Jun	5/18
Jul	6/15
Aug	7/20
Sep	8/17
Oct	9/21
Nov	10/19
Dec	11/16
Jan'23	12/21

ICE SUGAR 11

	LTD
Jan	12/15/21
Feb	1/18/22
Mar	2/15
Apr	3/15
May	4/18
Jun	5/16
Jul	6/15
Aug	7/15
Sep	8/15
Oct	9/15
Nov	10/17
Dec	11/15
Jan'23	12/15

ICE COCOA

	LTD
Jan	12/03/21
Feb	1/07/22
Mar	2/04
Apr	3/04
May	4/01
Jun	5/06
Jul	6/03
Aug	7/01
Sep	8/05
Oct	9/02
Nov	10/07
Dec	11/04
Jan'23	12/02

ICE COFFEE

	LTD
Jan	12/10/21
Feb	1/14/22
Mar	2/10
Apr	3/11
May	4/08
Jun	5/13
Jul	6/10
Aug	7/08
Sep	8/12
Oct	9/09
Nov	10/14
Dec	11/11
Jan'23	12/09

ORANGE JUICE

	LTD
Jan	12/17/21
Feb	1/21/22
Mar	2/18
Apr	3/18
May	4/14
Jun	5/20
Jul	6/17
Aug	7/15
Sep	8/19
Oct	9/16
Nov	10/21
Dec	11/18
Jan'23	12/16

LONDON COCOA

	LTD
Mar	2/28
May	4/29
Jul	6/30
Sep	8/31
Dec	11/30

LONDON WHITE SUGAR

	LTD
Mar	2/01
May	4/01
Aug	7/01
Oct	9/01
Dec	11/01

LONDON COFFEE

	LTD
Jan	12/15/21
Mar	2/16/22
May	4/20
Jul	6/15
Sep	8/17
Nov	10/19
Jan'23	12/21

COTTON

	LTD
Jan	12/17/21
Mar	2/11/22
May	4/14
Jul	6/10
Sep	8/19
Oct	9/16
Nov	10/21
Dec	11/11
Jan'23	12/16

NY CRUDE LT

	LTD
Jan	12/15/21
Feb	1/14/22
Mar	2/16
Apr	3/17
May	4/14
Jun	5/17
Jul	6/16
Aug	7/15
Sep	8/17
Oct	9/15
Nov	10/17
Dec	11/16
Jan'23	12/15

NY RBOB/ULSD/ NATURAL GAS

	LTD
Jan	12/28/21
Feb	1/26/22
Mar	2/23
Apr	3/28
May	4/26
Jun	5/25
Jul	6/27
Aug	7/26
Sep	8/26
Oct	9/27
Nov	10/26
Dec	11/25
Jan'23	12/27

ICE BRENT CRUDE

	LTD
Jan	11/25/20
Feb	12/23/20
Mar	1/26/21
Apr	2/23
May	3/26
Jun	4/27
Jul	5/25
Aug	6/25
Sep	7/27
Oct	8/25
Nov	9/27
Dec	10/26
Jan'22	11/25
Feb'22	12/23

LUMBER

	LTD
Jan	12/31/21
Feb	1/31/22
Mar	2/28
Apr	3/31
May	4/29
Jun	5/31
Jul	6/30
Aug	7/29
Sep	8/31
Oct	9/30
Nov	10/31
Dec	11/30
Jan'23	12/30

FEEDER CATTLE

	LTD
Jan	1/27
Mar	3/31
Apr	4/28
May	5/26
Aug	8/25
Sep	9/29
Oct	10/27
Nov	11/17

LIVE CATTLE

	LTD
Jan	1/07
Feb	2/04
Mar	3/04
Apr	4/01
May	5/06
Jun	6/03
Jul	7/01
Aug	8/05
Sep	9/02
Oct	10/07
Nov	11/04
Dec	12/02

LEAN HOGS

	LTD
Feb	2/14
Apr	4/14
May	5/13
Jun	6/14
Jul	7/15
Aug	8/12
Oct	10/14
Dec	12/14

SOYBEANS/BEAN OIL/MEAL/ CORN/CHL, KC, MN WHEAT/ OATS/RICE

	LTD
Jan	12/23/21
Feb	1/21/22
Mar	2/18
Apr	3/25
May	4/22
Jun	5/20
Jul	6/24
Aug	7/22
Sep	8/26
Oct	9/23
Nov	10/21
Dec	11/25
Jan'23	12/23

MILK & BUTTER

	LTD
Dec'21	1/04
Jan	2/01
Feb	3/01
Mar	3/29
Apr	5/03
May	6/01
Jun	6/28
Jul	8/02
Aug	8/30
Sep	10/04
Oct	11/01
Nov	11/29
Dec	1/04/23

CANOLA

	LTD
Jan	12/17/21
Feb	1/21/22
Mar	2/18
Apr	3/25
May	4/22
Jun	5/27
Jul	6/24
Aug	7/22
Sep	8/26
Oct	9/23
Nov	10/21
Dec	11/25
Jan'23	12/16

DATES ARE SUBJECT TO CHANGE WITHOUT NOTICE; PLEASE VERIFY WITH EACH EXCHANGE!
Expiration dates may not include all contract months for futures & options due to space limitations. ^ = Tentative Date

CONVERSION TABLES & FORMULAS

1 Bushel Equals

Wheat and Soybeans = 60 lbs
 Corn, Sorghum and Rye = 56 lbs
 Barley Grain = 48 lbs
 Barley Malt = 34 lbs
 Oats = 32 lbs

Bushels To Tonnes

Wheat and Soybeans = bushels x 0.027216
 Corn, Sorghum and Rye = bushels x 0.025401
 Barley Grain = bushels x 0.021772
 Oats = bushels x 0.014515

Yields

Wheat, Soybeans: bushels per acre x 0.06725 =
 tonnes per hectare
 Rye, Corn: bushels per acre x 0.06277 =
 tonnes per hectare
 Barley: bushels per acre x 0.05380 = tonnes per hectare
 Oats: bushels per acre x 0.03587 = tonnes per hectare

1 Tonne (metric ton) Equals

1 cubic meter of water
 2204.622 lbs.
 22.046 hundredweight
 1,000 kilograms
 10 quintals
 36.7437 bushels of Wheat or Soybeans
 39.3683 bushels of Corn, Sorghum or Rye
 45.9296 bushels of Barley Grain
 68.8944 bushels of Oats
 4.5930 US bales of Cotton

Area Measurements

1 acre = 43,560 square feet = 0.040694
 1 hectare = 2.4710 acres = 10,000 square meters
 640 acres = 1 square mile = 259 hectares

Soybean Crush

1 Bushel of Soybeans yields
 11 pounds of soybean oil
 44 pounds of 48% protein soybean meal
 4 pounds of hulls
 1 pound of waste

Synthetic Soybean Crush (\$/bu) =
 Soybean Meal price (\$/short ton) x .022
 + Soybean Oil price (¢/lb) x 11
 - Soybean price (\$/bu)

Extraction Rates

100 Grain = 72 Bread Flour
 100 Raw Sugar = 92 Refined Sugar
 100 Paddy Rice = 65 Milled Rice
 100 Milk = 4 Butter
 1 ton Barley = 105 Proof Gallon of Whiskey

Cotton Bales

US = 480 lb (the statistical net bale used by the USDA and ICAC)
 Brazil = 397 lb (metric bale = 180 kg)
 India = 392 lb (metric bale = 170 kg)

Orange Juice

1 metric ton of 65 degree brix =
 344.8 gallons at 42 degree brix
 1 metric ton of 65 degree brix =
 1,405.88 gallons at Single Strength Equivalent (SSE)
 1 metric ton = 2204.622 lbs
 Florida Box = 90 lbs
 Texas Box = 85 lbs
 California & Arizona Boxes = 75 lbs
 Brazil 40.8 kg Box = 91.4 lb

Weights and Conversions

1,000 grams = 1 kilogram
 100 kilograms = 1 quintal
 1 tonne = 1,000 kilograms = 10 quintals
 1 kilogram = 2.204622 lbs
 1 quintal = 220.4622 lbs
 1 tonne = 2204.622 lbs
 1 tonne = 1.1023 short tons
 1 tonne = 0.9842 long tons
 1 long ton = 2240 pounds
 1 short ton = 2000 pounds
 20 pennyweights = 1 ounce
 16 ounces = 1 lb
 1 troy ounce = 31.103 grams
 1 troy ounce = 0.0311033 kilogram
 1 troy (fine) ounce = 480 grains
 1 troy ounce = 155.52 metric carats
 1 troy pound = 0.37224 kilogram
 1 kilogram = 32.1507 troy ounces
 1 tonne = 32,151 troy ounces
 1 stone = 14 pounds

Liquid Volumes and Conversions

1 ounce = 1.8047 cubic inches = 29.6 milliliters
 1 cup = 8 ounces = 0.237 liter = 237 milliliters
 1 pint = 16 ounces = 0.473 liter = 473 milliliters
 1 quart = 2 pints = 0.946 liter = 946 milliliters
 1 gallon = 4 quarts = 231 cubic inches = 3.785 liters
 1 liter = 1.0567 quarts = 1,000 milliliters
 1 milliliter = 0.033814 fluid ounce
 1 liter = 33.814 fluid ounces
 1 imperial gallon = 277.42 cubic inches = 1.2 US Gallons
 = 4.546 Liters
 1 cubic meter = 264.172 US gallons

Water

1 liter weighs 1 kilogram
 1 cubic meter weighs 1 tonne
 1 UK gallon weighs 10.022 lbs.
 1 US gallon weighs 8.345 lbs.

Temperature

C=Degrees Celsius, F=Degrees Fahrenheit

C = 5/9 (F - 32)
 F = 9/5 C + 32

-40 C = -40 F
 -18 C = 0 F
 0 C = 32 F
 5 C = 41 F
 10 C = 50 F
 15 C = 59 F
 20 C = 68 F
 25 C = 77 F
 30 C = 86 F
 35 C = 95 F
 40 C = 104 F
 100 C = 212 F

Numerical Prefixes

tera = trillion
 giga = billion
 mega = million
 kilo = thousand
 hecto = hundred
 deca = ten
 deci = 1 tenth
 centi = 1 hundredth
 milli = 1 thousandth
 micro = 1 millionth
 nano = 1 billionth
 pico = 1 trillionth

Precious Metals

24 carat implies pure gold
 1 metric carat = 200 milligrams

Ethanol

1 tonne = 334.954 US gallons
 1 bushel corn produces about 2.8 gallons ethanol
 and 18 lbs dried distillers grain
 1 tonne corn produces about 110.2 gallons ethanol
 and 661 lbs dried distillers grain
 1 tonne of burned and cropped cane produces 135 kg
 of sucrose
 135 kg sucrose produces 70 liters ethanol (approx 18.5
 gallons) with a combustion energy of 1.7 gigajoules
 1 barrel (42 gallons) = 3.259 million BTU
 1 cubic meter = 0.790 metric ton (tonne)

Biodiesel

1 tonne = approximately 285-300 US gallons
 1 gallon biodiesel requires about 7.7 lbs oil or fat
 1 bushel soybeans produces about 1.5 gallons of
 biodiesel

Crude Oil

1 barrel = 42 US gallons = 34.97 UK (imperial) gallons
 = 0.136 tonne (approx)
 1 barrel per day (b/d) = 50 tonnes per year (approx)
 Crude Oil \$ per barrel / 5.826 = Dollars per MMBtu
 1 barrel contains approximately 6 gigajoules combustion
 energy

Natural Gas

1 cubic foot (cf) = 1,031 Btu
 1 cubic meter = 35,315 Cubic Feet
 1 therm = 100,000 Btu
 1 decatherm = 10 therms = 1 million Btu (MMBtu)
 1 NYMEX Natural Gas contract = 10,000 MMBtu
 = approximately 9.7 million cubic feet

Energy Content of Fuels (in Btu)

1 barrel Crude Oil = 5.751 Million Btu
 1 gallon Gasoline = 125,000 Btu
 1 gallon Heating Oil = 139,000 Btu
 1 gallon Diesel Fuel = 139,000 Btu
 1 gallon Propane = 91,000 Btu
 1 gallon Ethanol = 77,595 Btu
 1 gallon Gasohol (10% Ethanol, 90% Gasoline)
 = 120,900 Btu
 1 gallon E-85 (85% Ethanol, 15% Gasoline) = 90,500 Btu
 1 barrel Residual Fuel Oil = 6.287 Million Btu
 1 pound Coal = 8,100 to 13,000 Btu
 1 kilowatt hour Electricity = 3,412 Btu
 1 cubic foot Natural Gas = 1,008 to 1,034 Btu

Fertilizer

34 gigajoules natural gas makes
 1 tonne anhydrous ammonia
 1 Nat Gas NYMEX contract makes
 298.53 tons anhydrous ammonia
 33,500 cubic ft nat gas makes 1 ton anhydrous ammonia
 1 million BTU's = 1.054615 gigajoule

Crack Spreads

2:1:1 Crack: 2 Barrels Crude Oil vs. 1 Barrel Gasoline
 vs. 1 Barrel Heating Oil
 2:1:1 Crack (\$/bbl) = Gasoline price (\$/gal) x 21
 + Heating Oil price (\$/gal) x 21
 - Crude Oil price (\$/bbl)
 3:2:1 Crack: 3 Barrels Crude Oil vs. 2 Barrels Gasoline
 vs. 1 Barrel Heating Oil
 3:2:1 Crack (\$/bbl) = Gasoline price (\$/gal) x 28
 + Heating Oil price (\$/gal) x 14
 - Crude Oil price (\$/bbl)
 5:3:2 Crack: 5 Barrels Crude Oil vs. 3 Barrels Gasoline
 vs. 2 Barrels Heating Oil
 5:3:2 Crack (\$/bbl) = Gasoline price (\$/gal) x 25.2
 + Heating Oil price (\$/gal) x 16.8
 - Crude Oil price (\$/bbl)

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