

R.J. O'Brien
800.621.0757 www.rjobrien.com marketing@rjobrien.com
ALL TIMES CENTRAL

The information in this report has been obtained from sources believed to be reliable, but is not necessarily all-inclusive, is not guaranteed as to accuracy, and is not to be construed as a representation by R. J. O'Brien. Please be advised that this information is subject to immediate change; therefore, we would strongly suggest that you keep in contact with your broker for up-to-date information. R. J. O'Brien shall not be held responsible for any actions taken on the above information.

Commodity	Venue	Trading Months	SYMBOL	7 am	8 am	9 am	10 am	11 am	12 pm	1 pm	2 pm	3 pm	4 pm	5 pm	6 pm	7 pm	8 pm	9 pm	10 pm	11 pm	12 am	1 am	2 am	3 am	4 am	5 am	6 am
Corn	Open Outcry (5,000 bu)		C				9:30 *			2:00				5:00													
	Electronic (5,000 bu)		ZC							2:00																	
	Mini Corn (1,000 bu)	H, K, N, U, Z	YC				9:30 *			2:00																	
	Electronic Mini Corn (1,000 bu)		XC							2:00				5:00													
Soybeans	Open Outcry (5,000 bu)		S				9:30 *			2:00				5:00													
	Electronic (5,000 bu)	F, H, K, N, Q, U, X	ZS				9:30 *			2:00				5:00													
	Mini Soybeans (1,000 bu)		YK							2:00				5:00													
	Electronic (1,000 bu)		XK							2:00				5:00													
Wheat	Open Outcry (5,000 bu)		W				9:30 *			2:00				5:00													
	Electronic (5,000 bu)	H, K, N, U, Z	ZW							2:00				5:00													
	Mini Wheat (1,000 bu)		YW				9:30 *			2:00				5:00													
	Electronic (1,000 bu)		XW							2:00				5:00													
Oats	Open Outcry (5,000 bu)	H, K, N, U, Z	O				9:30 *			2:00				5:00													
	Electronic (5,000 bu)		ZO							2:00				5:00													
Rice	Open Outcry (2,000 cwt)	F, H, K, N, U, X	RR				9:30 *			2:00				5:00													
	Electronic (2,000 cwt)		ZR							2:00				5:00													
S Meal	Open Outcry (100 tons)	F, H, K, N, Q, U, V, Z	SM				9:30 *			2:00				5:00													
	Electronic (100 tons)		ZM							2:00				5:00													
S Oil	Open Outcry (60,000 lbs)	F, H, K, N, Q, U, V, Z	BO				9:30 *			2:00				5:00													
	Electronic (60,000 lbs)		ZL							2:00				5:00													
Kansas City	Open Outcry (5,000 bu)	H, K, N, U, Z	KW				9:30 *			2:00				5:00													
	Electronic (5,000 bu)		KE							2:00				5:00													
Minneapolis	Open Outcry (5,000 bu)	H, K, N, U, Z	NWE				9:05		1:00	2:15				5:00													
	Electronic (5,000 bu)	G, J, M, Q, V, Z	LC									***	4:00	5:00													
Live Cattle	Open Outcry (40,000 lbs)	Globex	Q, V, Z																								
	Open Outcry (50,000 lbs)	F, H, J, K, Q, U, V, X	FC				9:05		1:00			***	4:00	5:00													
Feeder Cattle	Globex		GF						1:00																		
	Open Outcry (40,000 lbs)	G, J, K, M, N, Q, V, Z	LH				9:05					***	4:00	5:00													
Lean Hogs	Globex		HE						1:00																		
	Open Outcry (40,000 lbs)	G, H, K, N, Q	PB				9:05					***	4:00	5:00													
Pork Bellies	Globex		GRP																								
	Open class III (200,000 lbs)		DA				9:40		1:10																		
Milk	Globex	All	DC									**	4:00	5:00													
	Open Outcry (110,000 BD FT)	F, H, K, N, U, X	LB				9:00		1:05																		
Lumber	Globex		LBS										4:00														
Gold	NYMEX/COMEX Gold (100 oz)		GO		7:20				12:30																		
	Globex Gold (100 oz)		GOC										4:15	5:00													
	Electronic-CBOT (100 oz)	G, J, M, Q, V, Z, Serial	ZQ									4:00			6:16												
	COMEX mini Gold		YG										4:15	5:00													
	ECBOT- Mini Gold (53.2 oz)												4:00			6:16											
	NYMEX/COMEX (5,000 oz)		SV		7:25				12:25																		
Silver	Globex Silver	F, H, K, N, U, Z, Serial	GSI										4:15	5:00													
	Electronic CBOT (5,000 oz)		ZI									4:00				6:16											
	COMEX mini Silver		QI										4:15	5:00													
	CBOT- Mini (1,000 oz)		YI										4:00			6:16											
Copper	NYMEX/COMEX (25,000 lbs)		HG		7:10				12:00																		
	Globex Copper	All	QOC											4:15	5:00												
	COMEX mini Copper													4:15	5:00												

Commodity	Venue	Trading Months	SYMBOL	7 am	8 am	9 am	10 am	11 am	12 pm	1 pm	2 pm	3 pm	4 pm	5 am	6 am
Cocoa *	Open Outcry (10 metric tons)	H, K, N, U, Z	CC	7:00				12:00	+						
	ICE/Electronic Cocoa		ICC							1:00				3:00	
Coffee *	Open Outcry (37,500 lbs)	H, K, N, U, Z	KC					12:30	+						
	ICE/Electronic Coffee		IKC							1:00				2:30	
Cotton *	Open Outcry #2 (50,000 lbs)	H, K, N, V, Z	CT			9:30				1:15	+				
	ICE/Electronic Cotton		ICT							1:30					
Orange Juice	Open Outcry (15,000 lbs)	F, H, K, N, U, X	OJ		9:00			12:30	+						
	ICE/Electronic OJ		IOJ							1:00					
Sugar *	Open Outcry #11 (112,000 lbs)	H, K, N, V	SB	7:10				12:30	+						
	ICE/Electronic Sugar		ISB							1:00				1:30	
DOW	Open Outcry (10x Index)		DJ		8:30					3:15					
	E-CBOT (510 x Index)	H, M, U, Z	ZD	8:15						3:30	4:30	5:00			
	E-CBOT (525 x Index)		DD							3:30	4:30	5:00			
	Mini Dow (55 x Index)		YM							3:15	3:30	4:30	5:00		
S & P 500	Open Outcry (525 x Index)		SP		8:30					3:15					
	GLOBEX	H, M, U, Z	GS	8:15						3:30	4:30	5:00			
	E-mini S & P (50 x Index)		ES							3:30	4:30	5:00			
Nasdaq	Open Outcry (5100 x Index)		ND		8:30					3:15					
	GLOBEX	H, M, U, Z	GN	8:15						3:30	4:30	5:00			
	Mini Nasdaq (520x Index)		NQ							3:15	3:30	4:30	5:00		
T-Bond 30 year	Open Outcry (1/32 = \$31.25)	H, M, U, Z	US	7:20					2:00				4:00	6:00	
	Electronic		ZB												
T-Note 10 year	Open Outcry (1/32 = \$31.25)	H, M, U, Z	TY	7:20					2:00				4:00	6:00	
	Electronic		ZN												
5 Yr T-Note	Open Outcry (1/2 of 1/32 = \$15.625)	H, M, U, Z	FV	7:20					2:00				4:00	6:00	
	Electronic		ZF												
Crude Oil	Open Outcry (1,000 bbl)		CL		8:00				1:30				4:15	5:00	
	Globex Session	All	GCL										4:15	5:00	
	Mini Crude Oil (500 bbl)		QM										4:15	5:00	
Heating Oil	Open Outcry Heating Oil (42,000 gal)		HO		8:00				1:30				4:15	5:00	
	Globex Session	All	GHO										4:15	5:00	
	Mini Heating Oil (21,000 gal)		QH										4:15	5:00	
Natural Gas	Open Outcry (10,000 mmbtu)		NG		8:00				1:30				4:15	5:00	
	Globex Session	All	GNG										4:15	5:00	
	Mini Natural Gas (2,500 mmbtu)		QG										4:15	5:00	
Unleaded Gas	Open Outcry (42,000 gal)		RB		8:00				1:30				4:15	5:00	
	Globex Session	All	GRB										4:15	5:00	
	Mini RBOB Gas (21,000 gal)		QU										4:15	5:00	
Palladium	NYMEX (100 oz)	H, M, U, Z, Serial	PA	7:20				12:05					4:15	5:00	
	NYMEX Electronic (100 oz)		GPA												
Dollar Index	NYBOT (\$1,000 x Index)	H, M, U, Z	DX	7:05					2:00				5:00	7:00	
	Electronic (\$1,000 x Index)		IDX												
Euro FX	Open Outcry EUR (125,000)	H, M, U, Z	EC	7:20					2:00				4:00	5:00	
	Globex		6E										4:00	5:00	
	E-mini Euro FX		E7												
Japanese Yen	Open Outcry EUR (125,000)	H, M, U, Z	JY	7:20					2:00				4:00	5:00	
	Globex		6J										4:00	5:00	
	E-mini Yen		J7												
EuroDollar	Open Outcry (\$1,000,000)	H, M, U, Z, Serial	ED	7:20					2:00				4:00	5:00	
	Globex		GE										4:00	5:00	

+ The only Open Outcry products traded on the ICE Exchange are Options.