



NYSE Arca - Order Type Usage (Percentage of Matched Volume)

		Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
Immediate or Cancel (IOC)	Description	39.50%	39.97%	39.85%	39.59%	39.27%	39.68%
IOC ISO	IOC ISO Limit	19.84%	19.38%	20.60%	20.46%	19.78%	20.36%
Limit IOC	Non-Routable Limit IOC	16.50%	17.29%	15.98%	15.81%	16.26%	15.99%
Limit Routable IOC	Routable Limit IOC	1.13%	1.21%	1.28%	1.28%	1.17%	1.29%
Market	Market	0.46%	0.47%	0.44%	0.45%	0.45%	0.44%
Mid-Point Liquidity IOC	Midpoint IOC	0.89%	0.84%	0.84%	0.87%	0.86%	0.89%
Retail IOC	Retail Order IOC	0.68%	0.79%	0.71%	0.72%	0.75%	0.72%
Displayed Limit (excludes Reserve)		41.98%	40.81%	41.28%	40.46%	40.20%	40.31%
Routable Displayed Limit		14.99%	15.94%	16.52%	15.42%	16.39%	15.57%
Limit	Limit	14.98%	15.92%	16.52%	15.40%	16.36%	15.56%
Inside Limit	Inside Limit	0.01%	0.02%	0.00%	0.02%	0.03%	0.01%
Discretionary	Discretionary Limit	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Non-Routable Displayed Limit		26.99%	24.87%	24.76%	25.03%	23.81%	24.75%
ALO Arca Only (1) (2)	Post Only Limit	14.36%	13.60%	14.05%	14.26%	13.79%	14.18%
ISO ALO Arca Only	Post Only Day ISO Limit	4.44%	4.08%	3.96%	4.62%	4.23%	4.31%
Arca Only (2)	Non-Routable Limit	5.78%	5.25%	4.80%	4.26%	4.24%	4.67%
ISO Arca Only	Day ISO Limit	1.38%	0.84%	0.76%	0.77%	0.64%	0.69%
Primary Pegged	Pegging Bid/Offer Limit	1.04%	1.10%	1.19%	1.11%	0.91%	0.90%
Q Order	Quote Limit	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Displayed Limit Reserve (3)		6.30%	6.97%	6.78%	7.12%	7.21%	7.04%
Limit Reserve	Limit Reserve	5.14%	5.53%	5.52%	5.55%	5.77%	5.63%
Arca Only Reserve	Non-Routable Limit Reserve	0.97%	1.26%	1.07%	1.37%	1.27%	1.23%
Inside Limit Reserve	Inside Limit Reserve	0.01%	0.01%	0.02%	0.02%	0.02%	0.03%
Discretionary Reserve	Discretionary Limit Reserve	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ISO Arca Only Reserve	Day ISO Limit Reserve	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Primary Pegged Reserve	Pegging Limit Reserve	0.19%	0.17%	0.17%	0.18%	0.16%	0.14%
ALO Arca Only Reserve	Post Only Limit Reserve	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Non-Displayed Limit		5.81%	5.99%	6.02%	6.03%	6.08%	6.26%
Limit Non-Displayed	Non-Displayed Limit	1.86%	1.79%	1.84%	1.90%	1.87%	1.97%
Midpoint Liquidity ALO	Midpoint Post Only Limit	2.02%	2.05%	2.16%	2.15%	2.13%	2.21%
Midpoint Liquidity	Midpoint Limit	0.89%	1.02%	0.97%	0.95%	0.99%	1.00%
Tracking Order	Non-Displayed Limit	0.36%	0.34%	0.35%	0.32%	0.34%	0.36%
Retail Price Improvement	Retail Price Improvement	0.67%	0.77%	0.70%	0.71%	0.74%	0.71%
Market Pegged	Market Pegged	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Limit Fill Or Kill	Limit Fill or Kill	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Auction		6.31%	6.21%	6.01%	6.75%	7.18%	6.66%
Market-on-Close	Market-On-Close	4.33%	4.49%	4.30%	4.84%	5.14%	4.90%
Limit-on-Close	Limit-On-Close	1.36%	1.14%	1.11%	1.22%	1.44%	1.17%
Market-on-Open	Market-On-Open	0.38%	0.35%	0.37%	0.41%	0.37%	0.36%
Limit-on-Open	Limit-On-Open	0.25%	0.23%	0.24%	0.28%	0.24%	0.23%
Other (4)		0.10%	0.05%	0.05%	0.06%	0.06%	0.05%
Total		100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

(1) Adding Liquidity Only (ALO) is a limit order that only adds liquidity and will not route.

(2) Arca Only is a non-routable limit order.

(3) Reserve is a limit order with a minimum displayed amount and non-displayed amount that replenishes the displayed amount after each execution. Displayed

(4) Includes Primary Only and other orders.