



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

		Apr-17	May-17	Jun-17	Jul-17	Aug-17
<b>Immediate or Cancel (IOC)</b>	<b>Description</b>	<b>39.77%</b>	<b>39.53%</b>	<b>40.00%</b>	<b>40.30%</b>	<b>40.37%</b>
IOC ISO	IOC ISO Limit	20.73%	20.64%	21.12%	21.25%	21.37%
Limit IOC	Non-Routable Limit IOC	16.09%	15.88%	15.95%	15.98%	16.10%
Limit Routable IOC	Routable Limit IOC	1.12%	1.13%	1.24%	1.28%	1.33%
Market	Market	0.45%	0.40%	0.37%	0.37%	0.35%
Mid-Point Liquidity IOC	Midpoint IOC	1.24%	1.37%	1.22%	1.31%	1.09%
Retail IOC	Retail Order IOC	0.14%	0.11%	0.10%	0.10%	0.11%
<b>Displayed Limit (excludes Reserve)</b>		<b>41.77%</b>	<b>41.75%</b>	<b>41.78%</b>	<b>41.57%</b>	<b>41.96%</b>
<b>Routable Displayed Limit</b>		<b>13.72%</b>	<b>14.03%</b>	<b>13.99%</b>	<b>14.34%</b>	<b>14.76%</b>
Limit	Limit	13.20%	13.52%	13.44%	13.76%	14.14%
Inside Limit	Inside Limit	0.52%	0.52%	0.55%	0.59%	0.62%
Discretionary	Discretionary Limit	0.00%	0.00%	0.00%	0.00%	0.00%
<b>Non-Routable Displayed Limit</b>		<b>28.05%</b>	<b>27.72%</b>	<b>27.79%</b>	<b>27.23%</b>	<b>27.20%</b>
ALO Arca Only (1) (2)	Post Only Limit	16.07%	16.63%	16.75%	16.87%	16.82%
ISO ALO Arca Only	Post Only Day ISO Limit	4.20%	3.72%	3.90%	3.55%	3.54%
Arca Only (2)	Non-Routable Limit	5.82%	5.56%	5.33%	5.12%	4.85%
ISO Arca Only	Day ISO Limit	0.93%	0.81%	0.86%	0.75%	0.98%
Primary Pegged	Pegging Bid/Offer Limit	1.02%	0.98%	0.95%	0.93%	1.01%
Q Order	Quote Limit	0.01%	0.01%	0.01%	0.01%	0.01%
<b>Displayed Limit Reserve (3)</b>		<b>6.06%</b>	<b>6.38%</b>	<b>6.06%</b>	<b>5.93%</b>	<b>5.82%</b>
Limit Reserve	Limit Reserve	4.95%	5.20%	4.90%	4.89%	4.82%
Arca Only Reserve	Non-Routable Limit Reserve	0.96%	1.03%	1.02%	0.91%	0.86%
Inside Limit Reserve	Inside Limit Reserve	0.04%	0.05%	0.05%	0.03%	0.05%
Discretionary Reserve	Discretionary Limit Reserve	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%
Primary Pegged Reserve	Pegging Limit Reserve	0.11%	0.11%	0.10%	0.10%	0.10%
ALO Arca Only Reserve	Post Only Limit Reserve	0.00%	0.00%	0.00%	0.00%	0.00%
<b>Non-Displayed Limit</b>		<b>5.46%</b>	<b>5.68%</b>	<b>5.53%</b>	<b>5.55%</b>	<b>5.47%</b>
Limit Non-Displayed	Non-Displayed Limit	1.49%	1.60%	1.71%	1.59%	1.66%
Midpoint Liquidity ALO	Midpoint Post Only Limit	2.58%	2.79%	2.63%	2.67%	2.42%
Midpoint Liquidity	Midpoint Limit	0.93%	0.87%	0.80%	0.89%	0.99%
Tracking Order	Non-Displayed Limit	0.34%	0.32%	0.29%	0.32%	0.30%
Retail Price Improvement	Retail Price Improvement	0.13%	0.10%	0.09%	0.09%	0.10%
Market Pegged	Market Pegged	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%
<b>Auction</b>		<b>6.95%</b>	<b>6.65%</b>	<b>6.63%</b>	<b>6.64%</b>	<b>6.38%</b>
Market-on-Close	Market-On-Close	4.64%	4.51%	4.63%	4.43%	4.46%
Limit-on-Close	Limit-On-Close	1.60%	1.41%	1.34%	1.43%	1.23%
Market-on-Open	Market-On-Open	0.42%	0.41%	0.36%	0.43%	0.41%
Limit-on-Open	Limit-On-Open	0.30%	0.32%	0.29%	0.35%	0.28%
<b>Other (4)</b>		<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>
<b>Total</b>		<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>

(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.