

RBCM - Held NMS Stocks and Options Order Routing Public Report

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3rd Quarter, 2020

July 2020

S&P 500 Stocks

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
45.68	2.70	0.00	0.00	97.30

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
UBS Securities LLC - UBS ATS (UBSA)	40.54	0.00	0.00	0.00	41.67	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	152.5876	3.8359
RBC CAPITAL MARKETS, LLC (RBCM)	16.22	0.00	0.00	0.00	16.67	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Nasdaq BX (XBOS)	8.11	0.00	0.00	0.00	8.33	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	34.8845	0.8770
National Stock Exchange (XCIS)	8.11	0.00	0.00	0.00	8.33	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	24.9574	0.6274
BIDS TRADING L.P. (BIDS)	5.41	0.00	0.00	0.00	5.56	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	12.2900	0.3090
BofA Securities Inc (BAML)	2.70	0.00	0.00	0.00	2.78	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Barclay's LX (BARX)	2.70	0.00	0.00	0.00	2.78	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9.1400	0.2298
Citadel Derivatives Group Llc (CTDL)	2.70	100.00	0.00	0.00	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
GTS Securities, LLC (GTSM)	2.70	0.00	0.00	0.00	2.78	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IEX SERVICES LLC (IEXG)	2.70	0.00	0.00	0.00	2.78	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.6700	0.0420
Knight Match (KNMX)	2.70	0.00	0.00	0.00	2.78	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	24.3856	0.6130

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
Level ATS (LEVL)	2.70	0.00	0.00	0.00	2.78	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	17.4130	0.4377
Goldman Sachs & Co. LLC (SGMT)	2.70	0.00	0.00	0.00	2.78	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	20.7300	0.5211

Material Aspects:

July 2020

Non-S&P 500 Stocks

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
61.90	2.80	1.40	0.70	95.10

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
RBC CAPITAL MARKETS, LLC (RBCM)	27.27	100.00	100.00	100.00	23.53	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cboe BZX Exchange, Inc. (BATS)	21.68	0.00	0.00	0.00	22.79	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	95.7520	0.3055
GTS Securities, LLC (GTSM)	9.09	0.00	0.00	0.00	9.56	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1,673.5260	5.3390
Nasdaq (XNAS)	8.39	0.00	0.00	0.00	8.82	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	327.1107	1.0436
UBS Securities LLC - UBS ATS (UBSA)	4.90	0.00	0.00	0.00	5.15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	12.3000	0.0392
Citadel Connect (CDED)	2.80	0.00	0.00	0.00	2.94	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Virtu Americas LLC. (VALR)	2.80	0.00	0.00	0.00	2.94	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.4000	0.0077
Nasdaq BX (XBOS)	2.80	0.00	0.00	0.00	2.94	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	174.7122	0.5574
Cboe EDGA Exchange, Inc. (EDGA)	2.10	0.00	0.00	0.00	2.21	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
KNCM (KNCM)	2.10	0.00	0.00	0.00	2.21	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1.40	0.00	0.00	0.00	1.47	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.8000	0.0026

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
Cboe BYX Exchange, Inc. (BATY)													
CBOE EDGX Exchange, Inc. (EDGX)	1.40	0.00	0.00	0.00	1.47	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9.6371	0.0307
Instinet CBX (ICBX)	1.40	0.00	0.00	0.00	1.47	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.6200	0.0020
IEX SERVICES LLC (IEXG)	1.40	0.00	0.00	0.00	1.47	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	22.2350	0.0709
JP Morgan Securities LLC (JPMX)	1.40	0.00	0.00	0.00	1.47	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2000	0.0006
Level ATS (LEVL)	1.40	0.00	0.00	0.00	1.47	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	11.1540	0.0356
MORGAN STANLEY & CO. LLC (MSPL)	1.40	0.00	0.00	0.00	1.47	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	22.2100	0.0709
NYSE Mkt Llc (XASE)	1.40	0.00	0.00	0.00	1.47	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-0.8543	-0.0027
CANACCORD GENUITY INC. (ADAM)	0.70	0.00	0.00	0.00	0.74	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NYSE Arca (ARCX)	0.70	0.00	0.00	0.00	0.74	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3000	0.0010
BofA Securities Inc (BAML)	0.70	0.00	0.00	0.00	0.74	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.7500	0.0024
BIDS TRADING L.P. (BIDS)	0.70	0.00	0.00	0.00	0.74	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CS CrossFinder (CAES)	0.70	0.00	0.00	0.00	0.74	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	18.2820	0.0583
Knight Match (KNMX)	0.70	0.00	0.00	0.00	0.74	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.3000	0.0073
New York Stock Exchange (XNYS)	0.70	0.00	0.00	0.00	0.74	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	143.7033	0.4585

Material Aspects:

July 2020

Options

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
100.00	36.86	0.00	60.95	2.19

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
RBC CAPITAL MARKETS, LLC (RBCM)	99.82	100.00	0.00	99.70	100.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Chicago Board Options Exchange (CBOE)	0.18	0.00	0.00	0.30	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Material Aspects:

August 2020

S&P 500 Stocks

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
82.60	0.36	0.36	0.71	98.57

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
Virtu Americas LLC. (VALR)	33.93	0.00	0.00	0.00	34.42	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	559.0933	4.5787
Level ATS (LEVL)	12.14	0.00	0.00	0.00	12.32	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	211.6027	1.7329
UBS Securities LLC - UBS ATS (UBSA)	7.50	0.00	0.00	0.00	7.61	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	249.6811	2.0448
JP Morgan Securities LLC (JPMX)	5.71	0.00	0.00	0.00	5.80	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	339.3430	2.7791
RBC CAPITAL MARKETS, LLC (RBCM)	5.71	100.00	100.00	100.00	4.35	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Goldman Sachs & Co. LLC (SGMT)	5.71	0.00	0.00	0.00	5.80	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	111.9923	0.9172
MORGAN STANLEY & CO. LLC (MSPL)	4.29	0.00	0.00	0.00	4.35	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	273.9274	2.2433
IEX SERVICES LLC (IEXG)	3.57	0.00	0.00	0.00	3.62	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	152.0061	1.2449

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
Liquidnet, INC (LIUH)	2.86	0.00	0.00	0.00	2.90	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	193.1679	1.5820
CS CrossFinder (CAES)	2.14	0.00	0.00	0.00	2.17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	45.6029	0.3735
NATIONAL FINANCIAL SERVICES LL (XSTM)	2.14	0.00	0.00	0.00	2.17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	215.5148	1.7650
Cboe BYX Exchange, Inc. (BATY)	1.79	0.00	0.00	0.00	1.81	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	37.5354	0.3074
BIDS TRADING L.P. (BIDS)	1.79	0.00	0.00	0.00	1.81	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	263.8115	2.1605
Intelligent Cross LLC (INCR)	1.43	0.00	0.00	0.00	1.45	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	14.6465	0.1199
National Stock Exchange (XCIS)	1.43	0.00	0.00	0.00	1.45	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	31.6070	0.2588
BofA Securities Inc (BAML)	1.07	0.00	0.00	0.00	1.09	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3000	0.0025
Barclay's LX (BARX)	1.07	0.00	0.00	0.00	1.09	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3000	0.0025
Cboe BZX Exchange, Inc. (BATS)	1.07	0.00	0.00	0.00	1.09	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.8200	0.0640
NYSE Arca (ARCX)	0.71	0.00	0.00	0.00	0.72	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	33.0929	0.2710
Instinet, LLC (BLKX)	0.71	0.00	0.00	0.00	0.72	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	15.1481	0.1241
ITG Inc. (ITGI)	0.71	0.00	0.00	0.00	0.72	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	41.8103	0.3424
KNCM (KNCM)	0.71	0.00	0.00	0.00	0.72	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Nasdaq BX (XBOS)	0.71	0.00	0.00	0.00	0.72	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.7200	0.0059
Citadel Connect (CDED)	0.36	0.00	0.00	0.00	0.36	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Instinet CBX (ICBX)	0.36	0.00	0.00	0.00	0.36	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	15.6720	0.1283
Nasdaq (XNAS)	0.36	0.00	0.00	0.00	0.36	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	44.3970	0.3636

Material Aspects:

August 2020

Non-S&P 500 Stocks

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
41.06	3.23	3.23	6.45	87.10

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
RBC CAPITAL MARKETS, LLC (RBCM)	45.16	100.00	50.00	75.00	40.74	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Nasdaq (XNAS)	14.52	0.00	50.00	0.00	14.81	0.0000	0.0000	-3.4370	-14.6630	0.0000	0.0000	905.6821	4.2894
New York Stock Exchange (XNYS)	11.29	0.00	0.00	0.00	12.96	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9.7142	0.0460
GTS Securities, LLC (GTSM)	9.68	0.00	0.00	0.00	11.11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	285.4290	1.3518
KNCM (KNCM)	4.84	0.00	0.00	0.00	5.56	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Citadel Connect (CDED)	3.23	0.00	0.00	0.00	3.70	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1,025.7330	4.8579
Cboe EDGA Exchange, Inc. (EDGA)	3.23	0.00	0.00	0.00	3.70	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UBS Securities LLC - UBS ATS (UBSA)	3.23	0.00	0.00	25.00	1.85	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NYSE Arca (ARCX)	1.61	0.00	0.00	0.00	1.85	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2250	0.0011
Cboe BZX Exchange, Inc. (BATS)	1.61	0.00	0.00	0.00	1.85	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10.3376	0.0490
BIDS TRADING L.P. (BIDS)	1.61	0.00	0.00	0.00	1.85	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Material Aspects:

August 2020

Options

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
100.00	24.47	0.00	73.68	1.84

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
RBC CAPITAL MARKETS, LLC (RBCM)	100.00	100.00	0.00	100.00	100.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Material Aspects:

September 2020

S&P 500 Stocks

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
20.28	0.00	0.00	0.00	100.00

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
Virtu Americas LLC. (VALR)	34.48	0.00	0.00	0.00	34.48	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	95.2968	5.4198
RBC CAPITAL MARKETS, LLC (RBCM)	20.69	0.00	0.00	0.00	20.69	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cboe BYX Exchange, Inc. (BATY)	10.34	0.00	0.00	0.00	10.34	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.2000	0.0682
UBS Securities LLC - UBS ATS (UBSA)	6.90	0.00	0.00	0.00	6.90	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
National Stock Exchange (XCIS)	6.90	0.00	0.00	0.00	6.90	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8.1200	0.4618
NYSE Arca (ARCX)	3.45	0.00	0.00	0.00	3.45	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.2000	0.0682
IEX SERVICES LLC (IEXG)	3.45	0.00	0.00	0.00	3.45	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
JP Morgan Securities LLC (JPMX)	3.45	0.00	0.00	0.00	3.45	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.0000	0.3981

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
Level ATS (LEVL)	3.45	0.00	0.00	0.00	3.45	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.8300	0.0472
Goldman Sachs & Co. LLC (SGMT)	3.45	0.00	0.00	0.00	3.45	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.9570	0.1113
NATIONAL FINANCIAL SERVICES LL (XSTM)	3.45	0.00	0.00	0.00	3.45	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.3600	0.2480

Material Aspects:

September 2020

Non-S&P 500 Stocks

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
59.21	5.56	2.22	12.22	80.00

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
RBC CAPITAL MARKETS, LLC (RBCM)	40.00	80.00	100.00	72.73	30.56	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
GTS Securities, LLC (GTSM)	8.89	0.00	0.00	0.00	11.11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	950.6370	4.9557
UBS Securities LLC - UBS ATS (UBSA)	8.89	0.00	0.00	0.00	11.11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	147.7000	0.7700
Cboe BZX Exchange, Inc. (BATS)	7.78	0.00	0.00	0.00	9.72	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	148.5033	0.7741
Nasdaq (XNAS)	7.78	0.00	0.00	0.00	9.72	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	440.0519	2.2940
KNCM (KNCM)	6.67	0.00	0.00	18.18	5.56	0.0000	0.0000	0.0000	0.0000	1.2000	0.3069	0.0000	0.0000
IEX SERVICES LLC (IEXG)	4.44	0.00	0.00	0.00	5.56	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	37.1078	0.1934
	2.22	20.00	0.00	0.00	1.39	-0.1800	-0.0766	0.0000	0.0000	0.0000	0.0000	0.9327	0.0049

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
RBC CAPITAL MARKETS, LLC (RBCM)													

Material Aspects: