

JP Morgan Securities LLC - Held NMS Stocks and Options Order Routing Public Report

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1st Quarter, 2022

January 2022

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
100.00	66.01	4.19	23.54	6.26

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)
Jane Street Capital, LLC (JNST)	56.26	77.45	67.39	6.41	12.23	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
The Nasdaq Stock Market (NSDQ)	11.60	0.00	0.56	42.21	26.47	-1.3050	-30.0000	-144.6300	-25.9054	8,616.7200	29.4218	182.1180	2.0254
Citadel Securities LLC (CDRG)	6.74	6.30	9.29	6.05	12.29	-31.4290	-0.0343	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Virtu Americas LLC (NITE)	6.18	5.50	8.41	6.07	12.36	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UBS Securities LLC (UBSS)	6.14	5.38	8.49	6.10	12.76	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
New York Stock Exchange LLC (NYSE)	4.51	0.05	0.52	12.56	23.88	-15.4014	-2.1518	-161.5499	-22.3428	2,407.6978	19.5211	263.8330	1.6841
Two Sigma Securities, LLC (SOHO)	3.70	5.32	4.38	0.03	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cboe EDGX Exchange, Inc. (EDGX)	2.05	0.00	0.49	8.64	0.00	0.0000	0.0000	-177.7230	-29.7688	1,541.3350	15.5966	-1.8990	-30.0000
MIAX Pearl Equities (EPRL)	1.43	0.00	0.08	6.07	0.00	0.0000	0.0000	-10.0456	-25.9979	547.6302	28.9785	0.0000	0.0000
NYSE Arca, Inc. (ARCA)	1.39	0.00	0.39	5.86	0.01	0.0000	0.0000	-80.5700	-27.5547	1,329.6085	24.2085	-0.7115	-12.7509

Material Aspects:

Jane Street Capital, LLC (JNST):
Firm not charged.

The Nasdaq Stock Market (NSDQ):
Firm qualified for (1) the rebate provided for adding over 0.60% of the total consolidated volume and removing over 0.80% of the total consolidated volume and executing ADV of 350,000 or more shares through Midpoint Extended Life Orders during the month, (2) Closing Cross Tier B, (3) the rebate provided for adding over 0.03% of the total consolidated volume of non-displayed liquidity, including midpoint orders, for Tape A/B securities and Tape C securities, (4) the rebate provided for executing ADV of at least 1 million shares through midpoint and Midpoint Extended Life Orders and increasing the volume of such orders by 10% or more versus the volume of such orders in April 2019 for Tape A/B securities and Tape C securities, (5) the rebate for achieving QMM Tier 1 incentive, and (6) a cap of \$35,000 for opening cross charges from Market-On-Open and Limit-On-Open orders for adding one million shares of liquidity, on average, during the month. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: <http://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2>

Citadel Securities LLC (CDRG):
Firm not charged for orders routed by the Wealth Management division or the Corporate and Investment Bank division, except as noted below. Firm charged a fee of \$0.0005 per share executed for any orders routed by the Wealth Management division on behalf of its clients for handling by the broker's algorithms.

Virtu Americas LLC (NITE):
Firm not charged for orders routed by the Wealth Management division or the Corporate and Investment Bank division, except as noted below. Firm charged a fee of \$0.0010 per share executed for any orders routed by the Wealth Management division on behalf of its clients for handling by the broker's algorithms.

UBS Securities LLC (UBSS):
Firm not charged.

New York Stock Exchange LLC (NYSE):
Firm qualified for Providing Tier 2, MOC/LOC Tier 1, NYSE d-Order Tier 1 charges applicable for Executions at the Close after the first 750,000 ADV of aggregate executions at the close, Remove Tier 1 for Tape A securities, and Remove Tier for Tape B and Tape C securities. The venue provided a fee cap of \$35,000 for the month for opening executions. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: <https://www.nyse.com/markets/nyse/trading-info/fees>

Two Sigma Securities, LLC (SOHO):
Firm not charged.

Cboe EDGX Exchange, Inc. (EDGX):
Firm did not qualify for tiered pricing. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: https://markets.cboe.com/us/equities/membership/fee_schedule/edgx/

MIAX Pearl Equities (EPRL):
Firm did not qualify for tiered pricing. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at : <https://www.miaxoptions.com/fees/pearl-equities>

NYSE Arca, Inc. (ARCA):
Firm qualified for Tier 3. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf

January 2022

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
100.00	57.79	5.98	29.57	6.66

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)
Jane Street Capital, LLC (JNST)	49.16	74.31	59.81	5.68	13.88	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
The Nasdaq Stock Market (NSDQ)	12.14	0.05	1.33	36.31	19.53	-379.7559	-12.0905	-826.9564	-12.6140	52,301.2937	24.4562	998.4938	2.5236

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)
Citadel Securities LLC (CDRG)	8.11	8.35	12.78	5.41	13.84	-0.9675	-0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Virtu Americas LLC (NITE)	6.63	6.04	9.66	5.48	14.09	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UBS Securities LLC (UBSS)	6.34	5.72	8.43	5.45	13.92	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
New York Stock Exchange LLC (NYSE)	5.16	0.03	0.83	14.08	13.99	-13.6654	-1.9036	-568.5249	-24.8327	10,958.2681	16.9694	581.2966	2.4681
NYSE Arca, Inc. (ARCA)	3.81	0.01	0.94	10.54	9.55	-22.1880	-29.1372	-378.1925	-9.5677	9,104.4333	21.4577	-1,205.4882	-10.4356
Cboe EDGX Exchange, Inc. (EDGX)	3.55	0.00	0.83	11.86	0.01	0.0000	0.0000	-1,039.5311	-29.2504	4,907.7270	14.9575	-6.9060	-30.0000
Two Sigma Securities, LLC (SOHO)	3.46	5.49	4.61	0.04	0.02	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cboe BZX Exchange, Inc. (BATS)	1.64	0.00	0.78	5.15	1.17	-1.5810	-30.0000	-640.7167	-29.3342	3,162.1156	23.1146	-75.6227	-4.9099

Material Aspects:

Jane Street Capital, LLC (JNST):
Firm not charged.

The Nasdaq Stock Market (NSDQ):

Firm qualified for (1) the rebate provided for adding over 0.60% of the total consolidated volume and removing over 0.80% of the total consolidated volume and executing ADV of 350,000 or more shares through Midpoint Extended Life Orders during the month, (2) Closing Cross Tier B, (3) the rebate provided for adding over 0.03% of the total consolidated volume of non-displayed liquidity, including midpoint orders, for Tape A/B securities and Tape C securities, (4) the rebate provided for executing ADV of at least 1 million shares through midpoint and Midpoint Extended Life Orders and increasing the volume of such orders by 10% or more versus the volume of such orders in April 2019 for Tape A/B securities and Tape C securities, (5) the rebate for achieving QMM Tier 1 incentive, and (6) a cap of \$35,000 for opening cross charges from Market-On-Open and Limit-On-Open orders for adding one million shares of liquidity, on average, during the month. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: <http://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2>

Citadel Securities LLC (CDRG):

Firm not charged for orders routed by the Wealth Management division or the Corporate and Investment Bank division, except as noted below. Firm charged a fee of \$0.0005 per share executed for any orders routed by the Wealth Management division on behalf of its clients for handling by the broker's algorithms.

Virtu Americas LLC (NITE):

Firm not charged for orders routed by the Wealth Management division or the Corporate and Investment Bank division, except as noted below. Firm charged a fee of \$0.0010 per share executed for any orders routed by the Wealth Management division on behalf of its clients for handling by the broker's algorithms.

UBS Securities LLC (UBSS):

Firm not charged.

New York Stock Exchange LLC (NYSE):

Firm qualified for Providing Tier 2, MOC/LOC Tier 1, NYSE d-Order Tier 1 charges applicable for Executions at the Close after the first 750,000 ADV of aggregate executions at the close, Remove Tier 1 for Tape A securities, and Remove Tier for Tape B and Tape C securities. The venue provided a fee cap of \$35,000 for the month for opening executions. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: <https://www.nyse.com/markets/nyse/trading-info/fees>

NYSE Arca, Inc. (ARCA):

Firm qualified for Tier 3. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf

Cboe EDGX Exchange, Inc. (EDGX):

Firm did not qualify for tiered pricing. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: https://markets.cboe.com/us/equities/membership/fee_schedule/edgx/

Two Sigma Securities, LLC (SOHO):

Firm not charged.

January 2022

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
75.83	11.86	13.41	48.64	26.08

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)
Dash Financial Technologies LLC (DFIN)	19.00	18.90	16.53	18.35	21.31	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-13,224.1100	-2.9628
Citadel Securities LLC (CDRG)	17.90	21.69	21.76	23.15	4.50	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Global Execution Brokers, LP (GEBB)	17.17	18.93	21.63	23.07	3.07	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Matrix Executions, LLC (RSKY)	14.38	21.62	20.22	17.51	2.24	-2,759.9100	-5.2942	-8,756.3900	-5.0583	4,207.1000	3.2021	-2,592.6100	-3.8078
Wolverine Execution Services, LLC (WEXX)	14.00	18.86	19.74	17.79	1.77	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Nasdaq PHLX LLC (XPHO)	11.09	0.00	0.04	0.13	42.34	0.0000	0.0000	-279.9000	-59.8077	-323.7500	-20.6869	-159,765.8100	-26.3119
Nasdaq Options Market (XNDQ)	2.18	0.00	0.02	0.00	8.36	0.0000	0.0000	-237.2100	-83.2316	-4.4100	-49.0000	-31,711.1100	-24.8886
Cboe BZX Exchange, Inc. (BATO)	2.11	0.00	0.05	0.00	8.09	0.0000	0.0000	-420.3500	-81.1486	-1.5000	-50.0000	-63,757.1000	-53.9145
Cboe Exchange, Inc. (CBOE)	1.09	0.00	0.00	0.00	4.20	0.0000	0.0000	-0.0275	-0.2500	0.0000	0.0000	-34,525.0300	-26.2860
NYSE Arca Options (ARCO)	1.08	0.00	0.01	0.00	4.12	0.0000	0.0000	-60.1720	-57.8577	63.2825	74.4500	-5,130.9465	-6.3354

Material Aspects:

Dash Financial Technologies LLC (DFIN):
Firm not charged for orders routed by the Wealth Management or Corporate and Investment Bank division, except as noted below. Firm charged commission plus exchange, regulatory, market data, and clearing fees, less exchange rebates where applicable, for orders routed by the Corporate and Investment Bank. Firm is charged \$.05/contract for 0-500,000 contracts, \$.04/contract for 500,001-1 million contracts, and \$.03/contract for greater than 1 million contracts. Firm qualified for the \$.03/contract discounted tier. Dash Financial Technologies LLC's most recent report pursuant to SEC Rule 606(a) is available at: <http://dash-website-static.s3-website-us-east-1.amazonaws.com/static/606.html>

Citadel Securities LLC (CDRG):

Firm not charged. Citadel Securities LLC's recent reports pursuant to SEC Rule 606(a) are available at: <https://www.citadelsecurities.com/rule-605-606-statements/> <https://www.citadelsecurities.com/rule-605-606-statements/>

Global Execution Brokers, LP (GEBB):
Firm not charged.

Matrix Executions, LLC (RSKY):

Firm not charged; however, Firm pays exchange and regulatory fees, less exchange rebates where applicable, for any orders that are routed by the Wealth Management division and cleared by the Firm following execution. Rebates received by Firm may exceed fees paid by Firm. Matrix Executions, LLC's recent reports pursuant to SEC Rule 606(a) are available at: <https://www.matrixexecutions.com/606>

Wolverine Execution Services, LLC (WEXX):

Firm not charged. Wolverine Execution Services, LLC's recent reports pursuant to SEC Rule 606(a) are available at: <https://www.tradewex.com/Home/Rule606>.

Nasdaq PHLX LLC (XPHO):

Firm did not qualify for tiered pricing. Firm received marketing fees from preferred market makers pursuant to marketing fee program sponsored by exchange. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: <https://listingcenter.nasdaq.com/rulebook/phlx/rules/phlx-options-7>

Nasdaq Options Market (XNDQ):

Firm did not qualify for tiered pricing. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: <https://listingcenter.nasdaq.com/rulebook/nasdaq/rules/nasdaq-options-7>

Cboe BZX Exchange, Inc. (BATO):

Firm did not qualify for tiered pricing. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: https://markets.cboe.com/us/options/membership/fee_schedule/bzx/

Cboe Exchange, Inc. (CBOE):

Firm did not qualify for tiered pricing with respect to customer order flow. Firm received marketing fees from preferred market makers pursuant to marketing fee program sponsored by exchange. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: https://cdn.cboe.com/resources/membership/Cboe_FeeSchedule.pdf

NYSE Arca Options (ARCO):

Firm did not qualify for tiered pricing. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: <https://www.nyse.com/markets/arca-options/trading-info#fees>

February 2022

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
100.00	64.23	4.02	24.63	7.12

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)
Jane Street Capital, LLC (JNST)	55.18	77.40	67.28	7.21	13.38	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
The Nasdaq Stock Market (NSDQ)	12.74	0.00	0.47	43.33	29.05	-0.8340	-30.0000	-75.2040	-30.0000	6,457.0031	29.3272	113.2155	1.3115
Citadel Securities LLC (CDRG)	7.10	6.24	10.31	6.87	13.83	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Virtu Americas LLC (NITE)	6.62	5.53	9.70	6.98	13.54	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
New York Stock Exchange LLC (NYSE)	4.91	0.08	0.49	12.41	25.10	-10.1728	-1.1366	-117.7341	-23.5945	1,734.9493	19.3309	22.0480	0.1355

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UBS Securities LLC (UBSS)	4.71	5.42	6.47	2.47	5.10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Two Sigma Securities, LLC (SOHO)	3.62	5.33	4.45	0.04	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cboe EDGX Exchange, Inc. (EDGX)	2.12	0.00	0.37	8.56	0.00	0.0000	0.0000	-68.2500	-30.0000	1,066.2808	15.5950	-2.2500	-30.0000
NYSE Arca, Inc. (ARCA)	1.54	0.00	0.36	6.21	0.00	0.0000	0.0000	-56.3850	-30.0000	1,044.2215	24.3959	0.0000	0.0000
MIAX Pearl Equities (EPRL)	1.46	0.00	0.10	5.92	0.00	0.0000	0.0000	-10.5038	-29.4059	429.5393	29.1460	0.0000	0.0000

Material Aspects:

Jane Street Capital, LLC (JNST):
Firm not charged.

The Nasdaq Stock Market (NSDQ):

Firm qualified for (1) the rebate provided for adding over 0.60% of the total consolidated volume and removing over 0.80% of the total consolidated volume and executing ADV of 350,000 or more shares through Midpoint Extended Life Orders during the month, (2) Closing Cross Tier B, (3) the rebate provided for adding over 0.03% of the total consolidated volume of non-displayed liquidity, including midpoint orders, for Tape A/B securities and Tape C securities, (4) the rebate provided for executing ADV of at least 1 million shares through midpoint and Midpoint Extended Life Orders and increasing the volume of such orders by 10% or more versus the volume of such orders in April 2019 for Tape A/B securities and Tape C securities, (5) the rebate for achieving QMM Tier 1 incentive, and (6) a cap of \$35,000 for opening cross charges from Market-On-Open and Limit-On-Open orders for adding one million shares of liquidity, on average, during the month. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: <http://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2>

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Virtu Americas LLC (NITE):

Firm not charged for orders routed by the Wealth Management division or the Corporate and Investment Bank division, except as noted below. Firm charged a fee of \$0.0010 per share executed for any orders routed by the Wealth Management division on behalf of its clients for handling by the broker's algorithms.

New York Stock Exchange LLC (NYSE):

Firm qualified for Providing Tier 2, MOC/LOC Tier 1, NYSE d-Order Tier 1 charges applicable for Executions at the Close after the first 750,000 ADV of aggregate executions at the close, Remove Tier 1 for Tape A securities, and Remove Tier for Tape B and Tape C securities. The venue provided a fee cap of \$35,000 for the month for opening executions. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: <https://www.nyse.com/markets/nyse/trading-info/fees>

UBS Securities LLC (UBSS):

Firm not charged.

Two Sigma Securities, LLC (SOHO):

Firm not charged.

Cboe EDGX Exchange, Inc. (EDGX):

Firm did not qualify for tiered pricing. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: https://markets.cboe.com/us/equities/membership/fee_schedule/edgx/

NYSE Arca, Inc. (ARCA):

Firm qualified for Tier 3. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf

MIAX Pearl Equities (EPRL):

Firm did not qualify for tiered pricing. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: <https://www.miaxoptions.com/fees/pearl-equities>

February 2022

Non-S&P 500 Stocks

Summary

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100.00	55.65	6.33	30.50	7.52

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)
Jane Street Capital, LLC (JNST)	48.08	73.82	59.49	6.43	16.42	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
The Nasdaq Stock Market (NSDQ)	12.27	0.07	1.64	35.18	18.89	-150.2269	-14.3792	-995.9978	-26.6117	44,884.5065	24.6899	1,491.8476	4.8019
Citadel Securities LLC (CDRG)	8.06	7.51	12.06	6.18	16.43	-18.7500	-0.0063	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Virtu Americas LLC (NITE)	7.41	6.50	10.61	6.12	16.63	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
New York Stock Exchange LLC (NYSE)	5.98	0.08	0.86	15.41	15.69	-40.7466	-2.5295	-401.1278	-20.5654	10,725.4665	18.2073	438.3377	2.0144
UBS Securities LLC (UBSS)	4.90	6.14	6.90	1.99	5.86	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NYSE Arca, Inc. (ARCA)	4.12	0.01	1.18	11.03	8.97	-10.6362	-29.2605	-239.2970	-4.1342	11,059.8729	21.9754	-486.9166	-5.0982
Cboe EDGX Exchange, Inc. (EDGX)	3.65	0.00	1.01	11.77	0.01	0.0000	0.0000	-542.7592	-29.9029	3,808.5379	15.1464	-1.7250	-30.0000
Two Sigma Securities, LLC (SOHO)	3.61	5.87	5.17	0.06	0.04	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cboe BZX Exchange, Inc. (BATS)	1.92	0.00	1.08	5.83	1.06	-0.1950	-13.9286	-627.2735	-29.7407	3,276.0197	23.6402	-87.2676	-6.5692

Material Aspects:

Jane Street Capital, LLC (JNST):
Firm not charged.

The Nasdaq Stock Market (NSDQ):

Firm qualified for (1) the rebate provided for adding over 0.60% of the total consolidated volume and removing over 0.80% of the total consolidated volume and executing ADV of 350,000 or more shares through Midpoint Extended Life Orders during the month, (2) Closing Cross Tier B, (3) the rebate provided for adding over 0.03% of the total consolidated volume of non-displayed liquidity, including midpoint orders, for Tape A/B securities and Tape C securities, (4) the rebate provided for executing ADV of at least 1 million shares through midpoint and Midpoint Extended Life Orders and increasing the volume of such orders by 10% or more versus the volume of such orders in April 2019 for Tape A/B securities and Tape C securities, (5) the rebate for achieving QMM Tier 1 incentive, and (6) a cap of \$35,000 for opening cross charges from Market-On-Open and Limit-On-Open orders for adding one million shares of liquidity, on average, during the month. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: <http://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2>

Citadel Securities LLC (CDRG):

Firm not charged for orders routed by the Wealth Management division or the Corporate and Investment Bank division, except as noted below. Firm charged a fee of \$0.0005 per share executed for any orders routed by the Wealth Management division on behalf of its clients for handling by the broker's algorithms.

Virtu Americas LLC (NITE):

Firm not charged for orders routed by the Wealth Management division or the Corporate and Investment Bank division, except as noted below. Firm charged a fee of \$0.0010 per share executed for any orders routed by the Wealth Management division on behalf of its clients for handling by the broker's algorithms.

New York Stock Exchange LLC (NYSE):
Firm qualified for Providing Tier 2, MOC/LOC Tier 1, NYSE d-Order Tier 1 charges applicable for Executions at the Close after the first 750,000 ADV of aggregate executions at the close, Remove Tier 1 for Tape A securities, and Remove Tier for Tape B and Tape C securities. The venue provided a fee cap of \$35,000 for the month for opening executions. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: <https://www.nyse.com/markets/nyse/trading-info/fees>

UBS Securities LLC (UBSS):
Firm not charged.

NYSE Arca, Inc. (ARCA):
Firm qualified for Tier 3. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf

Cboe EDGX Exchange, Inc. (EDGX):
Firm did not qualify for tiered pricing. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: https://markets.cboe.com/us/equities/membership/fee_schedule/edgx/

Two Sigma Securities, LLC (SOHO):
Firm not charged.

Cboe BZX Exchange, Inc. (BATS):
Firm qualified for Add/Remove Volume Tier 2. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: https://markets.cboe.com/us/equities/membership/fee_schedule/bzx/

February 2022

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
88.72	11.67	13.16	47.99	27.19

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)
Dash Financial Technologies LLC (DFIN)	18.86	19.28	16.87	18.68	19.77	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-9,056.1000	-2.9347
Citadel Securities LLC (CDRG)	17.65	21.84	22.24	22.98	4.25	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Global Execution Brokers, LP (GEBB)	17.10	19.15	21.42	23.46	2.96	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Wolverine Execution Services, LLC (WEXX)	13.95	19.27	19.59	18.01	1.77	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Matrix Executions, LLC (RSKY)	13.55	20.46	19.72	16.73	1.98	-1,100.2300	-2.5747	-3,039.5100	-2.3570	937.8500	0.7956	-916.1000	-2.3630
Nasdaq PHLX LLC (XPHO)	10.10	0.00	0.08	0.14	36.91	0.0000	0.0000	-247.8700	-30.9837	-426.0798	-26.6800	-95,144.3588	-24.9974
Nasdaq Options Market (XNDQ)	3.67	0.00	0.01	0.00	13.51	0.0000	0.0000	-6.2592	-52.1600	17.8200	19.8000	-19,853.1160	-23.1569

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 BZX Exchange, Inc. (BATO)	3.54	0.00	0.05	0.00	13.01	0.0000	0.0000	-203.1000	-50.5224	-0.5000	-50.0000	-36,110.4500	-55.1827
Cboe Exchange, Inc. (CBOE)	0.83	0.00	0.00	0.00	3.06	0.0000	0.0000	3.6225	32.9318	0.0000	0.0000	-34,446.7350	-37.2413
NYSE Arca Options (ARCO)	0.75	0.00	0.02	0.00	2.78	0.0000	0.0000	-19.6805	-63.4855	13.8145	22.6467	4,823.3030	7.8888

Material Aspects:

Dash Financial Technologies LLC (DFIN):

Firm not charged for orders routed by the Wealth Management or Corporate and Investment Bank division, except as noted below. Firm charged commission plus exchange, regulatory, market data, and clearing fees, less exchange rebates where applicable, for orders routed by the Corporate and Investment Bank. Firm is charged \$.05/contract for 0-500,000 contracts, \$.04/contract for 500,001-1 million contracts, and \$.03/contract for greater than 1 million contracts. Firm qualified for the \$.03/contract discounted tier. Dash Financial Technologies LLC's most recent report pursuant to SEC Rule 606(a) is available at: <http://dash-website-static.s3-website-us-east-1.amazonaws.com/static/606.html>

Citadel Securities LLC (CDRG):

Firm not charged. Citadel Securities LLC's recent reports pursuant to SEC Rule 606(a) are available at: <https://www.citadelsecurities.com/rule-605-606-statements/> <https://www.citadelsecurities.com/rule-605-606-statements/>

Global Execution Brokers, LP (GEBB):

Firm not charged.

Wolverine Execution Services, LLC (WEXX):

Firm not charged. Wolverine Execution Services, LLC's recent reports pursuant to SEC Rule 606(a) are available at: <https://www.tradewex.com/Home/Rule606>.

Matrix Executions, LLC (RSKY):

Firm not charged; however, Firm pays exchange and regulatory fees, less exchange rebates where applicable, for any orders that are routed by the Wealth Management division and cleared by the Firm following execution. Rebates received by Firm may exceed fees paid by Firm. Matrix Executions, LLC's recent reports pursuant to SEC Rule 606(a) are available at: <https://www.matrixexecutions.com/606>

Nasdaq PHLX LLC (XPHO):

Firm did not qualify for tiered pricing. Firm received marketing fees from preferenced market makers pursuant to marketing fee program sponsored by exchange. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: <https://listingcenter.nasdaq.com/rulebook/phlx/rules/phlx-options-7>

Nasdaq Options Market (XNDQ):

Firm did not qualify for tiered pricing. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: <https://listingcenter.nasdaq.com/rulebook/nasdaq/rules/nasdaq-options-7>

Cboe BZX Exchange, Inc. (BATO):

Firm did not qualify for tiered pricing. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: https://markets.cboe.com/us/options/membership/fee_schedule/bzx/

Cboe Exchange, Inc. (CBOE):

Firm did not qualify for tiered pricing with respect to customer order flow. Firm received marketing fees from preferenced market makers pursuant to marketing fee program sponsored by exchange. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: https://cdn.cboe.com/resources/membership/Cboe_FeeSchedule.pdf

NYSE Arca Options (ARCO):

Firm did not qualify for tiered pricing. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: <https://www.nyse.com/markets/arca-options/trading-info#fees>

March 2022

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
100.00	64.71	4.24	25.03	6.02

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)
Jane Street Capital, LLC (JNST)	43.82	59.52	54.11	7.80	17.21	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Virtu Americas LLC (NITE)	15.40	18.06	19.11	7.49	17.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
The Nasdaq Stock Market (NSDQ)	11.41	0.00	0.54	39.69	24.37	-0.1980	-30.0000	-251.1570	-30.0000	8,972.5551	30.8214	146.8590	2.2578
Citadel Securities LLC (CDRG)	10.99	11.47	14.95	7.60	17.11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
New York Stock Exchange LLC (NYSE)	5.17	0.06	0.54	14.56	24.29	-48.5598	-5.6279	-514.1230	-24.7471	2,929.7328	18.9889	203.7860	1.5527
UBS Securities LLC (UBSS)	3.77	5.50	4.98	0.02	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Two Sigma Securities, LLC (SOHO)	3.70	5.39	4.66	0.05	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cboe EDGX Exchange, Inc. (EDGX)	2.40	0.00	0.40	9.55	0.01	0.0000	0.0000	-477.9090	-30.0000	1,687.1212	15.7159	-1.2720	-30.0000
NYSE Arca, Inc. (ARCA)	1.70	0.00	0.35	6.74	0.01	0.0000	0.0000	-169.7490	-30.0000	1,703.0342	24.4938	1.1780	22.4809
Cboe BZX Exchange, Inc. (BATS)	1.64	0.00	0.36	6.50	0.00	0.0000	0.0000	-183.2220	-29.9774	1,859.9845	26.3877	-0.7733	-20.0337

Material Aspects:

Jane Street Capital, LLC (JNST):
Firm not charged.

Virtu Americas LLC (NITE):

Firm not charged for orders routed by the Wealth Management division or the Corporate and Investment Bank division, except as noted below. Firm charged a fee of \$0.0010 per share executed for any orders routed by the Wealth Management division on behalf of its clients for handling by the broker's algorithms.

The Nasdaq Stock Market (NSDQ):

Firm qualified for (1) the rebate provided for adding over 0.60% of the total consolidated volume and removing over 0.80% of the total consolidated volume and executing ADV of 350,000 or more shares through Midpoint Extended Life Orders during the month, (2) Closing Cross Tier B, (3) the rebate provided for adding over 0.03% of the total consolidated volume of non-displayed liquidity, including midpoint orders, for Tape A/B securities and Tape C securities, (4) the rebate provided for executing ADV of at least 4 million shares through midpoint and Midpoint Extended Life Orders and increasing the executed volume of such orders by 150% or more versus the volume of such executed orders in June 2021, (5) the rebate for achieving QMM Tier 1 incentive, (6) the rebate for adding greater than 5 million shares of midpoint liquidity and adding 8 million shares of non-displayed liquidity; and (7) a cap of \$35,000 for opening cross charges from Market-On-Open and Limit-On-Open orders for adding one million shares of liquidity, on average, during the month. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: <http://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2>.

Citadel Securities LLC (CDRG):

Firm not charged for orders routed by the Wealth Management division or the Corporate and Investment Bank division, except as noted below. Firm charged a fee of \$0.0005 per share executed for any orders routed by the Wealth Management division on behalf of its clients for handling by the broker's algorithms.

New York Stock Exchange LLC (NYSE):

Firm qualified for Providing Tier 2, MOC/LOC Tier 1, NYSE d-Order Tier 1 charges applicable for Executions at the Close after the first 750,000 ADV of aggregate executions at the close, Remove Tier 1 for Tape A securities, and Remove Tier for Tape B and Tape C securities. The venue provided a fee cap of \$35,000 for the month for opening executions. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: <https://www.nyse.com/markets/nyse/trading-info/fees>

UBS Securities LLC (UBSS):

Firm not charged.

Two Sigma Securities, LLC (SOHO):

Firm not charged.

Cboe EDGX Exchange, Inc. (EDGX):
Firm did not qualify for tiered pricing. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: https://markets.cboe.com/us/equities/membership/fee_schedule/edgx/

NYSE Arca, Inc. (ARCA):
Firm qualified for Tier 3. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf

Cboe BZX Exchange, Inc. (BATS):
Firm qualified for Add/Remove Volume Tier 3. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: https://markets.cboe.com/us/equities/membership/fee_schedule/bzx/

March 2022

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
100.00	54.08	6.81	32.14	6.96

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)
Jane Street Capital, LLC (JNST)	35.88	53.82	47.00	6.89	19.22	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Virtu Americas LLC (NITE)	17.62	23.33	22.27	6.69	19.27	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
The Nasdaq Stock Market (NSDQ)	12.70	0.06	1.30	35.15	18.57	-384.2980	-17.8044	-1,904.3402	-27.3520	67,026.5003	24.5422	1,779.5466	4.1966
Citadel Securities LLC (CDRG)	10.09	10.40	14.39	6.68	19.18	-4.5310	-0.0010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
New York Stock Exchange LLC (NYSE)	6.17	0.08	1.06	15.71	14.35	-93.5052	-4.1942	-1,574.9947	-26.5391	16,749.0735	18.5521	708.3380	2.5359
NYSE Arca, Inc. (ARCA)	4.06	0.01	1.05	10.58	8.38	-14.6052	-29.1579	-886.6026	-13.0285	12,039.3095	21.5113	-931.9043	-7.6611
Cboe EDGX Exchange, Inc. (EDGX)	3.85	0.00	1.09	11.76	0.01	-1.2000	-30.0000	-1,240.6259	-29.2562	5,345.8838	14.8946	-5.8800	-30.0000
UBS Securities LLC (UBSS)	3.80	6.30	5.70	0.02	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Two Sigma Securities, LLC (SOHO)	3.62	6.00	5.23	0.06	0.05	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cboe BZX Exchange, Inc. (BATS)	2.21	0.00	0.91	6.46	0.97	-0.2957	-9.4473	-902.7850	-29.4991	5,285.1715	24.1895	-52.9166	-4.7337

Jane Street Capital, LLC (JNST):
Firm not charged.

Firm not charged for orders routed by the Wealth Management division or the Corporate and Investment Bank division, except as noted below. Firm charged a fee of \$0.0010 per share executed for any orders routed by the Wealth Management division on behalf of its clients for handling by the broker's algorithms.

Firm qualified for (1) the rebate provided for adding over 0.60% of the total consolidated volume and removing over 0.80% of the total consolidated volume and executing ADV of 350,000 or more shares through Midpoint Extended Life Orders during the month, (2) Closing Cross Tier B, (3) the rebate provided for adding over 0.03% of the total consolidated volume of non-displayed liquidity, including midpoint orders, for Tape A/B securities and Tape C securities, (4) the rebate provided for executing ADV of at least 4 million shares through midpoint and Midpoint Extended Life Orders and increasing the executed volume of such orders by 150% or more versus the volume of such executed orders in June 2021, (5) the rebate for achieving QMM Tier 1 incentive, (6) the rebate for adding greater than 5 million shares of midpoint liquidity and adding 8 million shares of non-displayed liquidity, and (7) a cap of \$35,000 for opening cross charges from Market-On-Open and Limit-On-Open orders for adding one million shares of liquidity, on average, during the month. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: <http://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2>.

Firm not charged for orders routed by the Wealth Management division or the Corporate and Investment Bank division, except as noted below. Firm charged a fee of \$0.0005 per share executed for any orders routed by the Wealth Management division on behalf of its clients for handling by the broker's algorithms.

Firm qualified for Providing Tier 2, MOC/LOC Tier 1, NYSE d-Order Tier 1 charges applicable for Executions at the Close after the first 750,000 ADV of aggregate executions at the close, Remove Tier 1 for Tape A securities, and Remove Tier for Tape B and Tape C securities. The venue provided a fee cap of \$35,000 for the month for opening executions. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: <https://www.nyse.com/markets/nyse/trading-info/fees>

Firm qualified for Tier 3. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf

Firm did not qualify for tiered pricing. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: https://markets.cboe.com/us/equities/membership/fee_schedule/edgx/.

Firm not charged.

Firm not charged.

Firm qualified for Add/Remove Volume Tier 3. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: https://markets.cboe.com/us/equities/membership/fee_schedule/bzx/

Options Summary

[illegible]

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)
Global Execution Brokers, LP (GEBB)	15.21	19.09	22.16	22.92	1.98	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Matrix Executions, LLC (RSKY)	12.67	21.24	19.47	17.89	1.29	-28.8000	-0.0456	0.0000	0.0000	0.0000	0.0000	-1,370.6000	-3.5413
Wolverine Execution Services, LLC (WEXX)	12.44	19.15	18.71	18.11	1.18	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Nasdaq PHLX LLC (XPHO)	9.23	0.00	0.02	0.03	26.76	0.0000	0.0000	-114.9494	-60.1829	-55.5046	-46.6425	-164,537.5842	-26.1374
Nasdaq Options Market (XNDQ)	7.69	0.00	0.00	0.00	22.28	0.0000	0.0000	-20.5700	-82.2800	0.0000	0.0000	-27,515.6928	-21.6371
Cboe BZX Exchange, Inc. (BATO)	7.48	0.00	0.01	0.00	21.67	0.0000	0.0000	-32.5000	-63.7255	0.0000	0.0000	-64,173.5000	-53.0355
Cboe Exchange, Inc. (CBOE)	1.04	0.00	0.00	0.00	3.03	0.0000	0.0000	32.8275	66.9949	0.0000	0.0000	-30,684.6450	-24.4231
NYSE Arca Options (ARCO)	0.97	0.00	0.00	0.00	2.81	0.0000	0.0000	-0.4955	-49.5500	0.0000	0.0000	3,901.3195	3.8791

Material Aspects:

Dash Financial Technologies LLC (DFIN):

Firm not charged for orders routed by the Wealth Management or Corporate and Investment Bank division, except as noted below. Firm charged commission plus exchange, regulatory, market data, and clearing fees, less exchange rebates where applicable, for orders routed by the Corporate and Investment Bank. Firm is charged \$.05/contract for 0-500,000 contracts, \$.04/contract for 500,001-1 million contracts, and \$.03/contract for greater than 1 million contracts. Firm qualified for the \$.03/contract discounted tier. Dash Financial Technologies LLC's most recent report pursuant to SEC Rule 606(a) is available at: <http://dash-website-static.s3-website-us-east-1.amazonaws.com/static/606.html>

Citadel Securities LLC (CDRG):

Firm not charged. Citadel Securities LLC's recent reports pursuant to SEC Rule 606(a) are available at: <https://www.citadelsecurities.com/rule-605-606-statements/> <https://www.citadelsecurities.com/rule-605-606-statements/>

Global Execution Brokers, LP (GEBB):

Firm not charged.

Matrix Executions, LLC (RSKY):

Firm not charged; however, Firm pays exchange and regulatory fees, less exchange rebates where applicable, for any orders that are routed by the Wealth Management division and cleared by the Firm following execution. Rebates received by Firm may exceed fees paid by Firm. Matrix Executions, LLC's recent reports pursuant to SEC Rule 606(a) are available at: <https://www.matrixexecutions.com/606>

Wolverine Execution Services, LLC (WEXX):

Firm not charged. Wolverine Execution Services, LLC's recent reports pursuant to SEC Rule 606(a) are available at: <https://www.tradewex.com/Home/Rule606>.

Nasdaq PHLX LLC (XPHO):

Firm did not qualify for tiered pricing. Firm received marketing fees from preferred market makers pursuant to marketing fee program sponsored by exchange. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: <https://listingcenter.nasdaq.com/rulebook/phlx/rules/phlx-options-7>

Nasdaq Options Market (XNDQ):

Firm did not qualify for tiered pricing. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: <https://listingcenter.nasdaq.com/rulebook/nasdaq/rules/nasdaq-options-7>

Cboe BZX Exchange, Inc. (BATO):

Firm did not qualify for tiered pricing. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: https://markets.cboe.com/us/options/membership/fee_schedule/bzx/

Cboe Exchange, Inc. (CBOE):

Firm did not qualify for tiered pricing with respect to customer order flow. Firm received marketing fees from preferred market makers pursuant to marketing fee program sponsored by exchange. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: https://cdn.cboe.com/resources/membership/Cboe_FeeSchedule.pdf

NYSE Arca Options (ARCO):

Firm did not qualify for tiered pricing. A description of the fees and rebates offered by this venue, including the pricing tiers offered and the pricing for each tier, is available at: <https://www.nyse.com/markets/arca-options/trading-info#fees>