

Northern Trust Securities Inc - Held NMS Stocks and Options Order Routing Public Report

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2nd Quarter, 2023

April 2023

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 | 82.78 | 1.77 | 5.99 | 9.46 |

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) |
|--|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| CLEARPOOL EXECUTION SERVICES, LLC (CPEM) | 90.78 | 97.97 | 84.62 | 52.28 | 53.25 | -267.0024 | -7.6297 | -10.5776 | -3.5000 | -15.6624 | -8.0000 | -18.8248 | -7.8798 |
| Citadel Securities LLC (CDRG) | 6.05 | 0.00 | 15.38 | 43.18 | 33.81 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Material Aspects:

CLEARPOOL EXECUTION SERVICES, LLC (CPEM):

Northern Trust Securities, Inc. receives payment for order flow in the form of discounts, rebates, reductions of fees or credits. Such payment is variable based on the size and spread in the security at the time of order execution and averages less than \$0.0018 per share. Under some circumstances, the amount of such remuneration may exceed the amount that NTSI is charged by such trading venues. This does not alter NTSI's policy to route customer orders to the trading center where it believes clients will receive the best execution, taking into account, among other factors, price, transaction cost, volatility, market depth, quality of service, speed and efficiency.

Citadel Securities LLC (CDRG):

Northern Trust Securities, Inc. is not charged commission but pays exchange, regulatory, market data and clearing fees and passes on price improvement to client.

April 2023

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 | 77.38 | 7.41 | 6.23 | 8.98 |

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) |
|--|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| CLEARPOOL EXECUTION SERVICES, LLC (CPEM) | 89.10 | 97.60 | 51.81 | 63.66 | 64.09 | -644.3104 | -7.9703 | -38.4944 | -1.3628 | -27.9840 | -7.0257 | -17.9320 | -8.0000 |
| Citadel Securities LLC (CDRG) | 4.35 | 0.05 | 4.11 | 23.77 | 28.15 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Material Aspects:

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April 2023

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 | 1.95 | 0.31 | 1.11 | 96.64 |

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 ATS (DASH) | 68.00 | 0.00 | 0.00 | 0.00 | 70.36 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| WALL STREET ACCESS NYC (WABR) | 21.24 | 0.00 | 0.00 | 0.00 | 21.94 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| DASH FINANCIAL TECHNOLOGIES LLC (DFIN) | 2.41 | 9.91 | 5.26 | 23.18 | 2.01 | -27.6000 | -10.0000 | -5.0000 | -10.0000 | -20.8000 | -10.0000 | -30,149.0000 | -10.0000 |

Material Aspects:

DASH ATS (DASH):

Routing decisions for customer orders are not influenced by any agreement that provides an incentive to route to the market or meeting minimum order flow. Northern Trust Securities, Inc. receives no payment for order flow for these orders and has no volume based thresholds and is charged a flat rate.

WALL STREET ACCESS NYC (WABR):

Routing decisions for customer orders are not influenced by any agreement that provides an incentive to route to the market or meeting minimum order flow. Northern Trust Securities, Inc. receives no payment for order flow for these orders and has no volume based thresholds and is charged a flat rate.

DASH FINANCIAL TECHNOLOGIES LLC (DFIN):

Routing decisions for customer orders are not influenced by any agreement that provides an incentive to route to the market or meeting minimum order flow. Northern Trust Securities, Inc. receives no payment for order flow for these orders and has no volume based thresholds and is charged a flat rate.

May 2023

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 | 82.73 | 1.44 | 7.43 | 8.40 |

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) |
|--|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| CLEARPOOL EXECUTION SERVICES, LLC (CPEM) | 89.82 | 99.30 | 70.59 | 44.88 | 39.22 | -462.6744 | -7.9852 | -11.2960 | -2.7134 | -14.9368 | -8.0000 | -20.9168 | -8.0000 |
| Citadel Securities LLC (CDRG) | 6.92 | 0.00 | 26.47 | 48.90 | 34.67 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Material Aspects:

CLEARPOOL EXECUTION SERVICES, LLC (CPEM):

Northern Trust Securities, Inc. receives payment for order flow in the form of discounts, rebates, reductions of fees or credits. Such payment is variable based on the size and spread in the security at the time of order execution and averages less than \$0.0018 per share. Under some circumstances, the amount of such remuneration may exceed the amount that NTSI is charged by such trading venues. This does not alter NTSI's policy to route customer orders to the trading center where it believes clients will receive the best execution, taking into account, among other factors, price, transaction cost, volatility, market depth, quality of service, speed and efficiency.

Citadel Securities LLC (CDRG):

Northern Trust Securities, Inc. is not charged commission but pays exchange, regulatory, market data and clearing fees and passes on price improvement to client.

May 2023

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 | 74.48 | 10.96 | 8.40 | 6.16 |

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) |
|---------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
|---------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|

| 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) |
|--|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| CLEARPOOL EXECUTION SERVICES, LLC (CPEM) | 86.64 | 98.09 | 58.62 | 50.60 | 46.88 | -840.4328 | -7.9998 | -69.2976 | -2.7546 | -29.5200 | -5.6454 | -26.8280 | -8.0000 |
| Citadel Securities LLC (CDRG) | 4.96 | 0.17 | 5.91 | 28.18 | 29.47 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Material Aspects:

CLEARPOOL EXECUTION SERVICES, LLC (CPEM):

Northern Trust Securities, Inc. receives payment for order flow in the form of discounts, rebates, reductions of fees or credits. Such payment is variable based on the size and spread in the security at the time of order execution and averages less than \$0.0018 per share. Under some circumstances, the amount of such remuneration may exceed the amount that NTSI is charged by such trading venues. This does not alter NTSI's policy to route customer orders to the trading center where it believes clients will receive the best execution, taking into account, among other factors, price, transaction cost, volatility, market depth, quality of service, speed and efficiency.

Citadel Securities LLC (CDRG):

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May 2023

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 | 1.88 | 0.58 | 1.23 | 96.31 |

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 ATS (DASH) | 64.00 | 0.00 | 0.00 | 0.00 | 66.39 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| WALL STREET ACCESS NYC (WABR) | 24.77 | 0.00 | 0.00 | 0.00 | 25.71 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| MATRIX EXECUTIONS, LLC (MTRX) | 3.10 | 0.00 | 0.00 | 0.00 | 3.22 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Material Aspects:

DASH ATS (DASH):

Routing decisions for customer orders are not influenced by any agreement that provides an incentive to route to the market or meeting minimum order flow. Northern Trust Securities, Inc. receives no payment for order flow for these orders and has no volume based thresholds and is charged a flat rate.

WALL STREET ACCESS NYC (WABR):

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MATRIX EXECUTIONS, LLC (MTRX):

Routing decisions for customer orders are not influenced by any agreement that provides an incentive to route to the market or meeting minimum order flow. Northern Trust Securities, Inc. receives no payment for order flow for these orders and has no volume based thresholds and is charged a flat rate.

June 2023

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 | 86.55 | 1.68 | 5.27 | 6.50 |

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) |
|--|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| CLEARPOOL EXECUTION SERVICES, LLC (CPEM) | 92.29 | 98.70 | 77.56 | 50.67 | 44.23 | -603.8776 | -7.9894 | -13.9920 | -5.9538 | -15.5104 | -8.0000 | -21.1904 | -8.0000 |
| Citadel Securities LLC (CDRG) | 5.37 | 0.27 | 10.20 | 42.85 | 41.57 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Material Aspects:

CLEARPOOL EXECUTION SERVICES, LLC (CPEM):

Northern Trust Securities, Inc. receives payment for order flow in the form of discounts, rebates, reductions of fees or credits. Such payment is variable based on the size and spread in the security at the time of order execution and averages less than \$0.0018 per share. Under some circumstances, the amount of such remuneration may exceed the amount that NTSI is charged by such trading venues. This does not alter NTSI's policy to route customer orders to the trading center where it believes clients will receive the best execution, taking into account, among other factors, price, transaction cost, volatility, market depth, quality of service, speed and efficiency.

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June 2023

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 | 80.89 | 6.72 | 5.97 | 6.42 |

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) |
|---------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
|---------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|

| 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) |
|--|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| CLEARPOOL EXECUTION SERVICES, LLC (CPEM) | 87.58 | 96.12 | 55.39 | 49.16 | 48.97 | -762.1784 | -7.9678 | -63.0760 | -2.1293 | -24.4984 | -7.2376 | -48.0352 | -8.0000 |
| Citadel Securities LLC (CDRG) | 6.07 | 1.05 | 15.22 | 34.28 | 33.51 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

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June 2023

Options

Summary

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|--|---|---|---|--|
| 100.00 | 2.04 | 0.69 | 1.32 | 95.95 |

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 ATS (DASH) | 71.28 | 0.00 | 0.00 | 0.00 | 74.19 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| WALL STREET ACCESS NYC (WABR) | 17.34 | 0.00 | 0.00 | 0.00 | 18.07 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| MATRIX EXECUTIONS, LLC (MTRX) | 2.62 | 0.00 | 0.00 | 0.00 | 2.73 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Material Aspects:

DASH ATS (DASH):

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