RBC Capital Markets Corporation - Held NMS Stocks and Options Order Routing Public Report

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3rd Quarter, 2025

July 2025

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
98.56	97.08	0.00	0.00	2.92

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)
Citadel Securities	62.77	64.66	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Virtu Agency	34.31	35.34	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
The Nasdaq Stock Market LLC	0.73	0.00	0.00	0.00	25.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	1.80	30.0000
Cboe BZX Exchange, Inc.	0.73	0.00	0.00	0.00	25.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.60	30.0000
Investors Exchange (IEXG)	0.73	0.00	0.00	0.00	25.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.22	22.0000
NYSE Arca, Inc.	0.73	0.00	0.00	0.00	25.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	3.30	30.0000

Material Aspects:

Citadel Securities:

RBCM routes orders to market centers, such as exchanges and alternative trading systems, that may provide rebates or charge execution fees depending on whether routed orders provide liquidity, or take liquidity from, such market center. In some cases, RBCM may receive rebates from a market center that exceed the amount of fees charged by such market centers may provide volume-based tiered pricing/payment schedules pursuant to which RBCM may receive incremental pricing benefits based upon the aggregate trading volume routed to the market center (including trading volume not associated with customer orders), in accordance with that market center's published fee schedule.

Virtu Agency:

Net payments for purposes of Rule 606(a)(1) solely include commissions charged by VIRTU AMERICAS LLC as Subscriber for executions in the ATS. For more information about Virtu MatchIt ATS's fees, please see Virtu MatchIt ATS's Form ATS-N, Item 19 available at https://www.sec.gov/cgi-bin/browse-edgar?action=getcompany&filenum=013-00140&owner=exclude&count=40

The Nasdaq Stock Market LLC:

When routing orders to this market center for execution, RBCCM pays fees or receives credits in accordance with this market center's published fee schedule and may receive incremental pricing benefits if certain volume thresholds are met in accordance with such published fee schedule. The credits/rebases received by RBCCM may be in excess of fees charged for the venue and the receipt of net payments from a venue would constitute payment for order flow. XNAS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: http://www.nasdaqtrader.com/Trader.aspx/id=PriceListsTrading2

Cboe BZX Exchange, Inc.:

When routing orders to this market center for execution, RBCCM pays fees or receives credits in accordance with this market center's published fee schedule and may receive incremental pricing benefits if certain volume thresholds are met in accordance with such published fee schedule. The credits/rebates received by RBCCM may be in excess of fees charged for the venue and the receipt of net payments from a venue would constitute payment for order flow. BATS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:

https://markets.cboe.com/us/equities/membership/fee_schedule/bzx/

Information refecting the BATS's tiered pricing/payment schedule, as applicable to RBC

Investors Exchange (IEXG):

When routing orders to this market center for execution, RBCCM pays fees or receives credits in accordance with such published fee schedule and may receive incremental pricing benefits if certain volume thresholds are met in accordance with such published fee schedule. The credits/rebates received by RBCCM may be in excess of fees charged for the venue and the receipt of net payments from a venue would constitute payment for order flow. IEXG has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://iextrading.com/trading/fees/

NYSE Arca, Inc.:

When routing orders to this market center for execution, RBCCM pays fees or receives credits in accordance with this market center's published fee schedule and may receive incremental pricing benefits if certain volume thresholds are met in accordance with such published fee schedule. The credits/rebates received by RBCCM may be in excess of fees charged for the venue and the receipt of net payments from a venue would constitute payment for order flow. ARCX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/markets/nyse-arca/trading-info

July 2025

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
99.91	40.09	32.34	27.52	0.05

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 Agency	55.41	49.65	62.70	55.31	0.00	158.35	4.8534	135.27	4.0739	116.43	5.5995	0.00	0.0000
UBS Securities, LLC ATS	15.78	14.12	23.53	9.11	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Citadel Securities	8.96	20.72	2.01	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
GTS SECURITIES LLC	7.38	7.06	5.74	9.78	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Canaccord Genuity Securities	3.62	0.00	0.14	12.98	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
MCAP LLC	3.25	8.10	0.00	0.00	0.00	30.19	0.7683	0.00	0.0000	0.00	0.0000	0.00	0.0000
The Nasdaq Stock Market LLC	1.48	0.00	1.87	3.04	100.00	0.00	0.0000	-206.17	-7.3423	3.06	11.5472	37.50	30.0000

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 EDGX Exchange, Inc.	1.02	0.00	0.86	2.70	0.00	0.00	0.0000	63.63	26.2825	3.36	11.3208	0.00	0.0000
NYSE Arca, Inc.	1.02	0.00	1.15	2.36	0.00	0.00	0.0000	76.81	2.6668	-46.22	-16.7053	0.00	0.0000
Cboe BZX Exchange, Inc.	0.88	0.00	0.57	2.53	0.00	0.00	0.0000	62.96	29.5772	-47.77	-12.4657	0.00	0.0000

Virtu Agency:

RBCM routes orders to market centers, such as exchanges and alternative trading systems, that may provide rebates or charge execution fees depending on whether routed orders provide liquidity, or take liquidity from, such market center. In some cases, RBCM may receive rebates from a market center that exceed the amount of fees charged by such market center. Certain market centers may provide volume-based tiered pricing/payment schedules pursuant to which RBCM may receive incremental pricing benefits based upon the aggregate trading volume routed to the market center (including trading volume not associated with customer orders). In accordance with that market center's bublished fee schedule.

UBS Securities LLC ATS

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Citadel Securities:

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GTS SECURITIES LLC:

RBCM routes orders to market centers, such as exchanges and alternative trading systems, that may provide rebates or charge execution fees depending on whether routed orders provide liquidity, or take liquidity from, such market center. In some cases, RBCM may receive rebates from a market center that exceed the amount of fees charged by such market centers may provide volume-based tiered pricing/payment schedules pursuant to which RBCM may receive incremental pricing benefits based upon the aggregate trading volume routed to the market center (including trading volume not associated with customer orders), in accordance with that market center's published fee schedule.

MCAP LLC:

RBCM routes orders to market centers, such as exchanges and alternative trading systems, that may provide rebates or charge execution fees depending on whether routed orders provide liquidity, or take liquidity from, such market center. In some cases, RBCM may receive rebates from a market center that exceed the amount of fees charged by such market centers may provide volume-based tiered pricing/payment schedules pursuant to which RBCM may receive incremental pricing benefits based upon the aggregate trading volume routed to the market center (including trading volume not associated with customer orders), in accordance with that market center's published fee schedule.

The Nasdag Stock Market LLC:

RBCM routes orders to market centers, such as exchanges and alternative trading systems, that may provide rebates or charge execution fees depending on whether routed orders provide liquidity, or take liquidity from, such market center. In some cases, RBCM may receive rebates from a market center that exceed the amount of fees charged by such market center. Certain market centers may provide volume-based tiered pricing/payment schedules pursuant to which RBCM may receive incremental pricing benefits based upon the aggregate trading volume routed to the market center (including trading volume not associated with customer orders), in accordance with that market center's published fee schedule.

Choe EDGX Exchange, Inc.:

RBCM routes orders to market centers, such as exchanges and alternative trading systems, that may provide rebates or charge execution fees depending on whether routed orders provide liquidity, or take liquidity from, such market center. In some cases, RBCM may receive rebates from a market center that exceed the amount of fees charged by such market centers may provide volume-based tiered pricing/payment schedules pursuant to which RBCM may receive incremental pricing benefits based upon the aggregate trading volume routed to the market center (including trading volume not associated with tustomer orders). In accordance with that market centers bublished fee schedule.

NYSE Arca, Inc.:

RBCM routes orders to market centers, such as exchanges and alternative trading systems, that may provide rebates or charge execution fees depending on whether routed orders provide liquidity, or take liquidity from, such market center. In some cases, RBCM may receive rebates from a market center that exceed the amount of fees charged by such market center. Certain market centers may provide volume-based tiered pricing/payment schedules pursuant to which RBCM may receive incremental pricing benefits based upon the aggregate trading volume routed to the market center (including trading volume not associated with customer orders), in accordance with that market center's published fee schedule.

Cboe BZX Exchange, Inc.:

RBCM routes orders to market centers, such as exchanges and alternative trading systems, that may provide rebates or charge execution fees depending on whether routed orders provide liquidity, or take liquidity from, such market center. In some cases, RBCM may receive rebates from a market center that exceed the amount of fees charged by such market center. Certain market centers may provide volume-based tiered pricing/payment schedules pursuant to which RBCM may receive incremental pricing benefits based upon the aggregate trading volume routed to the market center (including trading volume not associated with customer orders), in accordance with that market center's published fee schedule.

July 2025

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	78.73	4.97	16.30	0.00

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 Corporation	98.11	100.00	86.21	92.63	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Dash/IMC Financial Markets	1.89	0.00	13.79	7.37	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

Material Aspects:

RBC Capital Markets Corporation:

RBCM routes orders to market centers, such as exchanges and alternative trading systems, that may provide rebates or charge execution fees depending on whether routed orders provide liquidity, or take liquidity from, such market center. In some cases, RBCM may receive rebates from a market center that exceed the amount of fees charged by such market center. Certain market centers may provide volume-based tiered pricing/payment schedules pursuant to which RBCM may receive incremental pricing benefits based upon the aggregate trading volume routed to the market center (including trading volume not associated with customer orders), in accordance with that market center's published fee schedule.

Dash/IMC Financial Markets:

RBCM routes orders to market centers, such as exchanges and alternative trading systems, that may provide rebates or charge execution fees depending on whether routed orders provide liquidity, or take liquidity from, such market center. In some cases, RBCM may receive rebates from a market center that exceed the amount of fees charged by such market center. Certain market centers may provide volume-based tiered pricing/payment schedules pursuant to which RBCM may receive incremental pricing benefits based upon the aggregate trading volume routed to the market center (including trading volume not associated with customer orders), in accordance with that market center's published fee schedule.

August 2025

S&P 500 Stocks

Summary

I	Non-Directed Orders	Market Orders as % of	Marketable Limit	Non-Marketable Limit	Other Orders as % of
	as % of All Orders	Non-Directed Orders	Orders as % of Non- Directed Orders	Orders as % of Non- Directed Orders	Non-Directed Orders
	94.44	0.00	14.12	85.88	0.00

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 ATS	64.71	0.00	91.67	60.27	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

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)
NYSE Arca, Inc.	5.88	0.00	0.00	6.85	0.00	0.00	0.0000	0.00	0.0000	10.29	24.3218	0.00	0.0000
Cboe EDGX Exchange, Inc.	5.88	0.00	4.17	6.16	0.00	0.00	0.0000	0.08	7.9600	1.06	10.0095	0.00	0.0000
The Nasdaq Stock Market LLC	5.29	0.00	4.17	5.48	0.00	0.00	0.0000	0.45	30.0000	19.79	30.0000	0.00	0.0000
Cboe BZX Exchange, Inc.	4.71	0.00	0.00	5.48	0.00	0.00	0.0000	0.00	0.0000	0.36	4.0614	0.00	0.0000
Cboe BYX Exchange, Inc.	2.94	0.00	0.00	3.42	0.00	0.00	0.0000	0.00	0.0000	-0.03	-2.0000	0.00	0.0000
Nasdaq BX, Inc.	2.94	0.00	0.00	3.42	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NYSE American LLC	2.35	0.00	0.00	2.74	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NYSE NATIONAL, INC	2.35	0.00	0.00	2.74	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Cboe EDGA Exchange, Inc.	2.35	0.00	0.00	2.74	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

UBS Securities, LLC ATS:

Net payments for purposes of Rule 606(a)(1) solely include commissions charged by UBS Securities LLC as Subscriber for executions in the ATS. For more information about UBS ATS's fees, please see UBS ATS's Form ATS-N, Item 19 available at: https://www.sec.gov/cgi-bin/browse-edgar?action=getcompany&filenum=013-00069&owner=exclude&count=40.

NYSE Arca, Inc.:

When routing orders to this market center for execution, RBCCM pays fees or receives credits in accordance with this market center's published fee schedule and may receive incremental pricing benefits if certain volume thresholds are met in accordance with such published fee schedule. The credits/rebates received by RBCCM may be in excess of fees charged for the venue and the receipt of net payments from a venue would constitute payment for order flow. ARCX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nvse.com/markets/nvse-arca/trading-info

Cboe EDGX Exchange, Inc.:

When routing orders to this market center for execution, RBCCM pays fees or receives credits in accordance with this market center's published fee schedule. The credits/rebates received by RBCCM may be in excess of fees charged for the venue and the receipt of net payments from a venue would constitute payment for order flow. EDGX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/edax/

The Nasdaq Stock Market LLC:

When routing orders to this market center for execution, RBCCM pays fees or receives credits in accordance with this market center's published fee schedule and may receive incremental pricing benefits if certain volume thresholds are met in accordance with such published fee schedule. The credits/rebates received by RBCCM may be in excess of fees charged for the venue and the receipt of net payments from a venue would constitute payment for order flow. XNAS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: http://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2

Choe BZX Exchange, Inc.:

When routing orders to this market center for execution, RBCCM pays fees or receives credits in accordance with this market center's published fee schedule and may receive incremental pricing benefits if certain volume thresholds are met in accordance with such published fee schedule. The credits/rebates received by RBCCM may be in excess of fees charged for the venue and the receipt of net payments from a venue would constitute payment for order flow. BATS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:

https://markets.cboe.com/us/equities/membership/fee_schedule/bzx/

Information refecting the BATS's tiered pricing/payment schedule, as applicable to RBC

Cboe BYX Exchange, Inc.

When routing order to this market center for execution, RBCCM pays fees or receives credits in accordance with this market center's published fee schedule and may receive incremental pricing benefits if certain volume thresholds are met in accordance with such published fee schedule. The credits/rebates received by RBCCM may be in excess of fees charged for the venue and the receipt of net payments from a venue would constitute payment for order flow. BATY has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:

https://markets.cboe.com/us/equities/membership/fee_schedule/byx/

Nasdag BX, Inc.:

When routing orders to this market center for execution, RBCCM pays fees or receives credits in accordance with this market center's published fee schedule and may receive incremental pricing benefits if certain volume thresholds are met in accordance with such published fee schedule. The credits/rebates received by RBCCM may be in excess of fees charged for the venue and the receipt of net payments from a venue would constitute payment for order flow. XBOS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: http://www.nasdaqtrader.com/Trader.aspx?id=bx_pricing

NYSE American LLC:

When routing orders to this market center for execution, RBCCM pays fees or receives credits in accordance with this market center's published fee schedule and may receive incremental pricing benefits if certain volume thresholds are met in accordance with such published fee schedule. The credits/rebates received by RBCCM may be in excess of fees charged for the venue and the receipt of net payments from a venue would constitute payment for order flow. XASE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/nyse-american/NYSE_America_Equities_Price_List.pdf

NYSE NATIONAL, INC:

When routing orders to this market center for execution, RBCCM pays fees or receives credits in accordance with this market center's published fee schedule and may receive incremental pricing benefits if certain volume thresholds are met in accordance with such published fee schedule. The credits/rebates received by RBCCM may be in excess of fees charged for the venue and the receipt of net payments from a venue would constitute payment for order flow. XCIS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.miaxqlobal.com/markets/us-equities/pearl-equities/fees

Cboe EDGA Exchange, Inc.:

When routing orders to this market center for execution, RBCCM pays fees or receives credits in accordance with this market center's published fee schedule and may receive incremental pricing benefits if certain volume thresholds are met in accordance with such published fee schedule. The credits/rebates received by RBCCM may be in excess of fees charged for the venue and the receipt of net payments from a venue would constitute payment for order flow. EDGA has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/edga/

August 2025

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
I	99.48	35.53	16.52	47.55	0.40

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	31.06	14.13	42.40	40.02	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Virtu Agency	25.51	23.75	25.68	26.98	0.00	92.77	3.4850	81.38	7.9192	13.76	0.7888	0.00	0.0000
UBS Securities, LLC ATS	19.86	32.30	10.94	13.78	6.25	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
GTS SECURITIES LLC	15.32	16.75	6.23	17.53	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
MCAP LLC	3.57	9.96	0.15	0.00	0.00	49.05	0.6510	100.00	10.0000	0.00	0.0000	0.00	0.0000
The Nasdaq Stock Market LLC	0.98	0.07	4.86	0.32	0.00	8.95	10.0000	52.61	22.4635	11.08	26.2989	0.00	0.0000
Canaccord Genuity Securities	0.70	1.98	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Investors Exchange (IEXG)	0.58	0.00	3.34	0.00	6.25	0.00	0.0000	20.87	19.1348	0.00	0.0000	0.00	0.0000

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)
NYSE Arca, Inc.	0.35	0.00	1.52	0.21	0.00	0.00	0.0000	6.10	30.0000	0.00	0.0000	0.00	0.0000
Cboe EDGX Exchange, Inc.	0.30	0.00	1.22	0.21	0.00	0.00	0.0000	10.27	30.0000	-0.97	-16.0000	0.00	0.0000

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RBCM routes orders to market centers, such as exchanges and alternative trading systems, that may provide rebates or charge execution fees depending on whether routed orders provide liquidity, or take liquidity from, such market center. In some cases, RBCM may receive rebates from a market center that exceed the amount of fees charged by such market centers may provide volume-based tiered pricing/payment schedules pursuant to which RBCM may receive incremental pricing benefits based upon the aggregate trading volume routed to the market center (including trading volume not associated with customer orders), in accordance with that market center's published fee schedule.

Virtu Agency:

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UBS Securities LLC ATS

RBCM routes orders to market centers, such as exchanges and alternative trading systems, that may provide rebates or charge execution fees depending on whether routed orders provide liquidity, or take liquidity from, such market center. In some cases, RBCM may receive rebates from a market center that exceed the amount of fees charged by such market centers may provide volume-based tiered pricing/payment schedules pursuant to which RBCM may receive incremental pricing benefits based upon the aggregate trading volume routed to the market center (including trading volume not associated with customer orders), in accordance with that market center's published fee schedule.

GTS SECURITIES LLC

RBCM routes orders to market centers, such as exchanges and alternative trading systems, that may provide rebates or charge execution fees depending on whether routed orders provide liquidity, or take liquidity from, such market center. In some cases, RBCM may receive rebates from a market center that exceed the amount of fees charged by such market centers may provide volume-based tiered pricing/payment schedules pursuant to which RBCM may receive incremental pricing benefits based upon the aggregate trading volume routed to the market center (including trading volume not associated with customer orders). In accordance with that market center's published fee schedule.

MCAPIIC:

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The Nasdag Stock Market LLC:

RBCM routes orders to market centers, such as exchanges and alternative trading systems, that may provide rebates or charge execution fees depending on whether routed orders provide liquidity, or take liquidity from, such market center. In some cases, RBCM may receive rebates from a market center that exceed the amount of fees charged by such market centers may provide volume-based tiered pricing/payment schedules pursuant to which RBCM may receive incremental pricing benefits based upon the aggregate trading volume routed to the market center is published fee schedule.

Investors Exchange (IEXG):

RBCM routes orders to market centers, such as exchanges and alternative trading systems, that may provide rebates or charge execution fees depending on whether routed orders provide liquidity, or take liquidity from, such market center. In some cases, RBCM may receive rebates from a market center that exceed the amount of fees charged by such market centers may provide volume-based tiered pricing/payment schedules pursuant to which RBCM may receive incremental pricing benefits based upon the aggregate trading volume routed to the market center sould be schedule.

NYSE Arca, Inc.

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Cboe EDGX Exchange, Inc.:

RBCM routes orders to market centers, such as exchanges and alternative trading systems, that may provide rebates or charge execution fees depending on whether routed orders provide liquidity, or take liquidity from, such market center. In some cases, RBCM may receive rebates from a market center that exceed the amount of fees charged by such market centers may provide volume-based tiered pricing/payment schedules pursuant to which RBCM may receive incremental pricing benefits based upon the aggregate trading volume routed to the market center (including trading volume not associated with customer orders), in accordance with that market center's published fee schedule.

August 2025

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	73.28	8.10	17.93	0.69	

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 Corporation	93.79	100.00	82.98	76.92	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Dash/IMC Financial Markets	5.52	0.00	17.02	23.08	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
GELP	0.69	0.00	0.00	0.00	100.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

Material Aspects:

RBC Capital Markets Corporation:

RBCM routes orders to market centers, such as exchanges and alternative trading systems, that may provide rebates or charge execution fees depending on whether routed orders provide liquidity, or take liquidity from, such market center. In some cases, RBCM may receive rebates from a market center that exceed the amount of fees charged by such market centers may provide volume-based tiered pricing/payment schedules pursuant to which RBCM may receive incremental pricing benefits based upon the aggregate trading volume routed to the market center (including trading volume not associated with customer orders), in accordance with that market center's published fee schedule.

Dash/IMC Financial Markets:

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GELP:

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September 2025

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
98.13	99.71	0.05	0.24	0.00

Venue - Non-directed Order Flow	Non- Directed Order 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)
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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 Agency	59.83	60.00	0.00	0.00	0.00	154.21	2.7772	0.00	0.0000	0.00	0.0000	0.00	0.0000
UBS Securities, LLC ATS	24.04	24.06	100.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Citadel Securities	15.90	15.94	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NEW YORK STOCK EXCHANGE, INC.	0.14	0.00	0.00	60.00	0.00	0.00	0.0000	0.00	0.0000	-7.86	-11.7196	0.00	0.0000
Investors Exchange (IEXG)	0.05	0.00	0.00	20.00	0.00	0.00	0.0000	0.00	0.0000	-2.04	-9.1091	0.00	0.0000
NYSE American LLC	0.05	0.00	0.00	20.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

Virtu Agency

Net payments for purposes of Rule 606(a)(1) solely include commissions charged by VIRTU AMERICAS LLC as Subscriber for executions in the ATS. For more information about Virtu MatchIt ATS's fees, please see Virtu MatchIt ATS's Form ATS-N, Item 19 available at https://www.sec.gov/cgi-bin/browse-edgar?action=getcompany&filenum=013-00140&owner=exclude&count=40

LIBS Securities LLC ATS

Net payments for purposes of Rule 606(a)(1) solely include commissions charged by UBS Securities LLC as Subscriber for executions in the ATS. For more information about UBS ATS's fees, please see UBS ATS's Form ATS-N, Item 19 available at: https://www.sec.gov/cgi-bin/browse-edgar?action=getcompany&filenum=013-00069&owner=exclude&count=40.

Citadel Securities:

RBCM routes orders to market centers, such as exchanges and alternative trading systems, that may provide rebates or charge execution fees depending on whether routed orders provide liquidity, or take liquidity from, such market center. In some cases, RBCM may receive rebates from a market center that exceed the amount of fees charged by such market center. Certain market centers may provide volume-based tiered pricing/payment schedules pursuant to which RBCM may receive incremental pricing benefits based upon the aggregate trading volume routed to the market center (including trading volume not associated with customer orders), in accordance with that market center's published fee schedule.

NEW YORK STOCK EXCHANGE, INC.

When routing orders to this market center for execution, RBCCM pays fees or receives credits in accordance with this market center's published fee schedule and may receive incremental pricing benefits if certain volume thresholds are met in accordance with such published fee schedule. The credits/rebates received by RBCCM may be in excess of fees charged for the venue and the receipt of net payments from a venue would constitute payment for order flow. XNYS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/markets/nyse/trading-info#trading-fees

Investors Exchange (IEXG):

When routing orders to this market center for execution, RBCCM pays fees or receives credits in accordance with this market center's published fee schedule and may receive incremental pricing benefits if certain volume thresholds are met in accordance with such published fee schedule. The credits/rebates received by RBCCM may be in excess of fees charged for the venue and the receipt of net payments from a venue would constitute payment for order flow. IEXG has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://iextrading.com/trading/fees/

NYSE American LLC:

When routing orders to this market center for execution, RBCCM pays fees or receives credits in accordance with this market center's published fee schedule and may receive incremental pricing benefits if certain volume thresholds are met in accordance with such published fee schedule. The credits/rebates received by RBCCM may be in excess of fees charged for the venue and the receipt of net payments from a venue would constitute payment for order flow. XASE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/nyse-american/NYSE_America_Equities_Price_List.pdf

September 2025

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	
99.44	37.82	20.06	36.16	5.96	

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)
Virtu Agency	41.56	36.95	74.10	35.20	0.00	100.44	2.0204	8.72	0.2490	23.78	0.9713	0.00	0.0000
Citadel Securities	25.03	24.90	16.10	34.23	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
UBS Securities, LLC ATS	9.77	21.13	8.88	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Cboe BYX Exchange, Inc.	6.75	0.00	0.00	11.10	45.83	0.00	0.0000	0.00	0.0000	49.95	19.7626	1.80	12.8571
GTS SECURITIES LLC	3.37	8.92	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NYSE Arca, Inc.	2.86	0.00	0.21	3.89	23.61	0.00	0.0000	0.00	0.0000	-15.27	-20.1584	0.00	0.0000
MCAP LLC	2.67	7.01	0.10	0.00	0.00	88.33	0.9990	0.00	0.0000	0.00	0.0000	0.00	0.0000
NYSE NATIONAL, INC	2.15	0.00	0.00	4.12	11.11	0.00	0.0000	0.00	0.0000	36.26	27.0528	4.06	17.6522
Cboe BZX Exchange, Inc.	1.70	0.00	0.00	2.80	11.46	0.00	0.0000	0.00	0.0000	-12.25	-16.0000	0.00	0.0000
NYSE American LLC	1.41	0.00	0.00	3.09	4.86	0.00	0.0000	0.00	0.0000	-16.57	-20.2852	0.00	0.0000

Material Aspects:

Virtu Agenc

RBCM routes orders to market centers, such as exchanges and alternative trading systems, that may provide rebates or charge execution fees depending on whether routed orders provide liquidity, or take liquidity from, such market center. In some cases, RBCM may receive rebates from a market center that exceed the amount of fees charged by such market centers may provide volume-based tiered pricing/payment schedules pursuant to which RBCM may receive incremental pricing benefits based upon the aggregate trading volume routed to the market center (including trading volume not associated with customer orders), in accordance with that market center's published fee schedule.

Citadel Securities

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UBS Securities, LLC ATS:

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Choe BYX Exchange, Inc.:

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GTS SECURITIES LLC:

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NYSE Arca, Inc.:

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NYSE NATIONAL, INC.

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Cboe BZX Exchange, Inc.:

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NYSE American LLC:

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September 2025

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
1	100.00	81.66	6.45	11.03	0.86

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 Corporation	95.85	98.95	80.00	89.61	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Dash/IMC Financial Markets	3.30	1.05	20.00	10.39	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
GELP	0.86	0.00	0.00	0.00	100.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

Material Aspects:

RBC Capital Markets Corporation:

RBCM routes orders to market centers, such as exchanges and alternative trading systems, that may provide rebates or charge execution fees depending on whether routed orders provide liquidity, or take liquidity from, such market center. In some cases, RBCM may receive rebates from a market center that exceed the amount of fees charged by such market centers may provide volume-based liered pricing/payment schedules pursuant to which RBCM may receive incremental pricing benefits based upon the aggregate trading volume routed to the market center (including trading volume not associated with customer orders), in accordance with that market center's published fee schedule.

Dash/IMC Financial Markets:

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GELP:

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