COWN - Held NMS Stocks and Options Order Routing Public Report

Generated on Mon Jan 30 2023 10:52:34 GMT-0500 (Eastern Standard Time)

4th Quarter, 2022

October 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
0.00	0.00	0.00	0.00	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)
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Material Aspects:

October 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
0.00	0.00	0.00	0.00	0.00

Venues

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Venue - Non- directed Order	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	Net Payment Paid/ Received for Non- Marketable Limit Orders(USD)	Net Payment Paid/ Received for Non- Marketable Limit Orders(cents per	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/ Received for Other Orders(cents per hundred shares)
Flow				(.5)		0.40.0(002)	nanaroa onaroo)	0.40.0(002)	hundred shares)	0.40.0(002)	hundred shares)	0.40.0(002)	nanara anaras,

Material Aspects:

October 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
100.00	0.00	0.00	0.00	100.00

Venues

Venue - Non-directed Order Flow	Non- Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non- Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(USD)	Net Payment Paid/ Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/ Received for Non- Marketable Limit Orders(USD)	Net Payment Paid/ Received for Non- Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/ Received for Other Orders(cents per hundred shares)
C2 Options Exchange, Inc. (C2OX)	17.81	0.00	0.00	0.00	17.81	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	18,536.6600	3.3881
CBOE EDGX (EDGX)	14.21	0.00	0.00	0.00	14.21	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5,866.6600	1.7052
ISE Options (ISE1)	12.73	0.00	0.00	0.00	12.73	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3,622.6800	0.9007
Cboe BZX Exchange (BATS)	12.60	0.00	0.00	0.00	12.60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3,394.9000	0.8503
MIAX Emerald, LLC. (EMLD)	10.92	0.00	0.00	0.00	10.92	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2,957.6600	2.4753
NYSE Arca (ARCA)	10.24	0.00	0.00	0.00	10.24	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5,533.9100	1.0336
NASDAQ (NASD)	5.15	0.00	0.00	0.00	5.15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-660.5700	-0.4322
MIAX Pearl, LLC (MPRL)	2.93	0.00	0.00	0.00	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	607.2600	2.4456
NASDAQBX (NASD)	2.51	0.00	0.00	0.00	2.51	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	490.2600	1.3682
Nasdaq OMX PHLX (PHLX)	2.44	0.00	0.00	0.00	2.44	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	124.1200	0.1418
Miami Options Exchange (MIAX)	2.29	0.00	0.00	0.00	2.29	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	174.9500	0.8046

Material Aspects:

C2 Options Exchange, Inc. (C2OX):

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Destination Per Contract Rebate % of Contracts C2OX 0.041325765 6.69%

CBOE EDGX (EDGX):

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Destination Per Contract Rebate % of Contracts EDGX 0.013509709 1.68%

ISE Options (ISE1):

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Destination Per Contract Rebate % of Contracts ISE 0.021801228 3.49%

Cboe BZX Exchange (BATS):

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Destination Per Contract Rebate % of Contracts BATS 0.022205769 8.21%

MIAX Emerald, LLC. (EMLD):

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Destination Per Contract Rebate % of Contracts EMLD 0.093412655 0.74%

NYSE Arca (ARCA):

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Destination Per Contract Rebate % of Contracts ARCA 0.087655205 2.41%

NASDAQ (NASD):

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MIAX Pearl, LLC (MPRL):

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Nasdag OMX PHLX (PHLX):

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Miami Options Exchange (MIAX):

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November 2022

S&P 500 Stocks

Summary

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0.00	0.00	0.00	0.00	0.00

Venues

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Material Aspects:

November 2022

Non-S&P 500 Stocks

Summary

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Venues

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Material Aspects:

November 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
100.00	0.00	0.00	0.00	100.00

Venues

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C2 Options Exchange, Inc. (C2OX)	17.22	0.00	0.00	0.00	17.22	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9,667.9400	3.4084
Cboe BZX Exchange (BATS)	15.45	0.00	0.00	0.00	15.45	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4,980.6600	1.7157
CBOE EDGX (EDGX)	12.48	0.00	0.00	0.00	12.48	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6,834.1100	2.1464
Boston Options (BOX1)	10.38	0.00	0.00	0.00	10.38	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	50.2200	0.2036
MIAX Emerald, LLC. (EMLD)	9.07	0.00	0.00	0.00	9.07	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3,004.7000	4.1622
ISE Options (ISE1)	7.87	0.00	0.00	0.00	7.87	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3,248.1000	1.5987
NYSE Arca (ARCA)	6.00	0.00	0.00	0.00	6.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4,605.7700	1.8836
MIAX Pearl, LLC (MPRL)	4.58	0.00	0.00	0.00	4.58	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1,246.2100	7.0094
NASDAQ (NASD)	4.53	0.00	0.00	0.00	4.53	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-370.1400	-0.1929
Miami Options Exchange (MIAX)	3.58	0.00	0.00	0.00	3.58	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	149.7800	1.9439
Nasdaq OMX PHLX (PHLX)	2.63	0.00	0.00	0.00	2.63	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-79.2000	-0.2657

Material Aspects:

C2 Options Exchange, Inc. (C2OX):

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Destination Per Contract Rebate % of Contracts C2OX 0.041325765 6.69%

Choe BZX Exchange (BATS):

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Destination Per Contract Rebate % of Contracts BATS 0.022205769 8.21%

CBOE EDGX (EDGX):

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Destination Per Contract Rebate % of Contracts EDGX 0.013509709 1.68%

Boston Options (BOX1)

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Destination Per Contract Rebate % of Contracts BOX 0.127839196 0.10%

MIAX Emerald, LLC. (EMLD):

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Destination Per Contract Rebate % of Contracts EMLD 0.093412655 0.74%

ISE Options (ISE1):

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Destination Per Contract Rebate % of Contracts ISE 0.021801228 3.49%

NYSE Arca (ARCA):

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Destination Per Contract Rebate % of Contracts ARCA 0.087655205 2.41%

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December 2022

S&P 500 Stocks

Summary

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0.00	0.00	0.00	0.00	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)
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Material Aspects:

December 2022

Summary

Non-S&P 500 Stocks

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Venues

Material Aspects:

December 2022

Options

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100.00	0.00	0.00	0.00	100.00

Venues

Venue - Non-directed Order Flow	Non- Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non- Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(USD)	Net Payment Paid/ Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/ Received for Non- Marketable Limit Orders(USD)	Net Payment Paid/ Received for Non- Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/ Received for Other Orders(cents per hundred shares)
C2 Options Exchange, Inc. (C2OX)	16.68	0.00	0.00	0.00	16.68	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4,139.7300	3.4532
CBOE EDGX (EDGX)	15.18	0.00	0.00	0.00	15.18	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3,168.1400	2.3747
Cboe BZX Exchange (BATS)	10.91	0.00	0.00	0.00	10.91	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2,470.4800	6.3190
MIAX Emerald, LLC. (EMLD)	9.63	0.00	0.00	0.00	9.63	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1,552.4100	3.5127
ISE Options (ISE1)	9.51	0.00	0.00	0.00	9.51	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2,354.1700	1.3970
MIAX Pearl, LLC (MPRL)	8.60	0.00	0.00	0.00	8.60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-43.4200	-0.0334
NYSE Arca (ARCA)	6.42	0.00	0.00	0.00	6.42	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2,087.4500	1.7989
Nasdaq OMX PHLX (PHLX)	5.02	0.00	0.00	0.00	5.02	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	335.5900	1.7509
Boston Options (BOX1)	4.83	0.00	0.00	0.00	4.83	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5.5700	0.0254

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)
NASDAQ (NASD)	4.80	0.00	0.00	0.00	4.80	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	309.8300	0.3448
Miami Options Exchange (MIAX)	3.21	0.00	0.00	0.00	3.21	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	155.6500	1.5336

Material Aspects:

C2 Options Exchange, Inc. (C2OX):

Cowen and Company, LLC ("Cowen" or the "Firm") maintains an institutional options trading business. This business has a relationship with Wolverine Execution Services ("WEXX"). WEXX provides the Firm with its Order Management System. WEXX also acts as the executing broker on all of the Firm's transactions. Cowen directs all orders to Exchanges for execution. WEXX is not involved with the decision where to route an order in any manner. The Firm maintains a billing relationship with WEXX whereby WEXX passes onto the Firm any costs or rebates associated with Exchange pricing models. The Firm does not maintain any relationship with any exchange or venue where the Firm receives volume discounts. The Firm does not receive any volume discount passed onto it by WEXX.

Destination Per Contract Rebate % of Contracts C2OX 0.041325765 6.69%

CBOE EDGX (EDGX):

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Destination Per Contract Rebate % of Contracts EDGX 0.013509709 1.68%

Choe BZX Exchange (BATS):

Cowen and Company, LLC ("Cowen" or the "Firm") maintains an institutional options trading business. This business has a relationship with Wolverine Execution Services ("WEXX"). WEXX provides the Firm with its Order Management System. WEXX also acts as the executing broker on all of the Firm's cover directs all orders to Exchanges for execution. WEXX is not involved with the decision where to route an order in any manner. The Firm meiatains a billing relationship with WEXX whereby WEXX passes onto the Firm any costs or rebates associated with Exchange pricing models. The Firm does not maintain any relationship with any exchange or venue where the Firm receives volume discounts. The Firm does not receive any volume discount passed onto it by WEXX.

Destination Per Contract Rebate % of Contracts BATS 0.022205769 8.21%

MIAX Emerald, LLC. (EMLD):

Cowen and Company, LLC ("Cowen" or the "Firm") maintains an institutional options trading business. This business has a relationship with Wolverine Execution Services ("WEXX"). WEXX provides the Firm with its Order Management System. WEXX also acts as the executing broker on all of the Firm's transactions. Cowen directs all orders to Exchanges for execution. WEXX is not involved with the decision where to route an order in any manner. The Firm maintains a billing relationship with WEXX whereby WEXX passes onto the Firm any costs or rebates associated with Exchange pricing models. The Firm does not maintain any relationship with any exchange or venue where the Firm receives volume discounts. The Firm does not receive any volume discount passed onto it by WEXX.

Destination Per Contract Rebate % of Contracts EMLD 0.093412655 0.74%

ISE Options (ISE1):

Cowen and Company, LLC ("Cowen" or the "Firm") maintains an institutional options trading business. This business has a relationship with Wolverine Execution Services ("WEXX"). WEXX provides the Firm with its Order Management System. WEXX also acts as the executing broker on all of the Firm's transactions. Cowen directs all orders to Exchanges for execution. WEXX is not involved with the decision where to route an order in any manner. The Firm maintains a billing relationship with WEXX whereby WEXX passes onto the Firm any costs or rebates associated with Exchange pricing models. The Firm does not maintain any relationship with any exchange or venue where the Firm receives volume discounts. The Firm does not receive any volume discount passed onto it by WEXX.

Destination Per Contract Rebate % of Contracts ISE 0.021801228 3.49%

MIAX Pearl, LLC (MPRL):

Cowen and Company, LLC ("Cowen" or the "Firm") maintains an institutional options trading business. This business has a relationship with Wolverine Execution Services ("WEXX"). WEXX provides the Firm with its Order Management System. WEXX also acts as the executing broker on all of the Firm's transactions. Cowen directs all orders to Exchanges for execution. WEXX is not involved with the decision where to route an order in any manner. The Firm maintains a billing relationship with WEXX whereby WEXX passes onto the Firm any costs or rebates associated with Exchange pricing models. The Firm does not maintain any relationship with any exchange or venue where the Firm receives volume discounts. The Firm does not receive any volume discount passed onto it by WEXX.

NYSE Arca (ARCA):

Cowen and Company, LLC ("Cowen" or the "Firm") maintains an institutional options trading business. This business has a relationship with Wolverine Execution Services ("WEXX"). WEXX provides the Firm with its Order Management System. WEXX also acts as the executing broker on all of the Firm's transactions. Cowen directs all orders to Exchanges for execution. WEXX is not involved with the decision where to route an order in any manner. The Firm mains a billing relationship with WEXX whereby WEXX passes onto the Firm any costs or rebates associated with Exchange pricing models. The Firm does not maintain any relationship with any exchange or venue where the Firm receives volume discounts. The Firm does not receive any volume discount passed onto it by WEXX.

Destination Per Contract Rebate % of Contracts ARCA 0.087655205 2.41%

Nasdag OMX PHLX (PHLX):

Cowen and Company, LLC ("Cowen" or the "Firm") maintains an institutional options trading business. This business has a relationship with Wolverine Execution Services ("WEXX"). WEXX provides the Firm with its Order Management System. WEXX also acts as the executing broker on all of the Firm's transactions. Cowen directs all orders to Exchanges for execution. WEXX is not involved with the decision where to route an order in any manner. The Firm maintains a billing relationship with WEXX whereby WEXX passes onto the Firm any costs or rebates associated with Exchange pricing models. The Firm does not maintain any relationship with any exchange or venue where the Firm receives volume discounts. The Firm does not receive any volume discount passed onto it by WEXX.

Boston Options (BOX1):

Cowen and Company, LC ("Cowen" or the "Firm") maintains an institutional options trading business. This business has a relationship with Wolverine Execution Services ("WEXX"). WEXX provides the Firm with its Order Management System. WEXX also acts as the executing broker on all of the Firm's transactions. Cowen directs all orders to Exchange lationship with WEXX whereby WEXX passes onto the Firm any costs or rebates associated with Exchange pricing models. The Firm does not maintain any relationship with any exchange or venue where the Firm receives volume discounts. The Firm does not not by WEXX.

Destination Per Contract Rebate % of Contracts BOX 0.127839196 0.10%

NASDAQ (NASD):

Cowen and Company, LLC "Cowen" or the "Firm") maintains an institutional options trading business. This business has a relationship with Wolverine Execution Services ("WEXX"). WEXX provides the Firm with its Order Management System. WEXX also acts as the executing broker on all of the Firm's transactions. Cowen directs all orders to Exchanges for execution. WEXX is not involved with the decision where to route an order in any manner. The Firm maintains a billing relationship with WEXX whereby WEXX passes onto the Firm any costs or rebates associated with Exchange pricing models. The Firm does not maintain any relationship with any exchange or venue where the Firm receives volume discounts. The Firm does not receive any volume discount passed onto it by WEXX.

Miami Options Exchange (MIAX):

Cowen and Company, LLC ("Cowen" or the "Firm") maintains an institutional options trading business. This business has a relationship with Wolverine Execution Services ("WEXX"). WEXX provides the Firm with its Order Management System. WEXX also acts as the executing broker on all of the Firm's transactions. Cowen directs all orders to Exchanges for execution. WEXX is not involved with the decision where to route an order in any manner. The Firm maintains a billing relationship with WEXX whereby WEXX passes onto the Firm any costs or rebates associated with Exchange pricing models. The Firm does not maintain any relationship with any exchange or venue where the Firm receives volume discounts. The Firm does not receive any volume discount passed onto it by WEXX.