

Goldman Sachs & Co. LLC - 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 |
|----------------------------------------|-------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|------------------------------------------|
| 0.02 | 2.76 | 17.17 | 45.56 | 34.49 |

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) |
|-------------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------|
| New York Stock Exchange LLC. (NYSE) | 32.69 | 5.38 | 5.28 | 60.86 | 28.46 | -17.02 | -3.1200 | -551.96 | -21.6000 | 379.55 | 11.4800 | -145.11 | -10.2700 |
| The Nasdaq Stock Market LLC. (XNAS) | 27.40 | 2.39 | 16.81 | 41.73 | 39.04 | -31.28 | -5.0400 | -1,502.16 | -29.0500 | 455.75 | 11.5200 | -448.26 | -21.4200 |
| NASDAQ OMX BX. (BOSE) | 9.28 | 0.00 | 57.97 | 18.61 | 23.41 | 0.00 | 0.0000 | 10.77 | 2.3200 | -516.42 | -30.0000 | -2.36 | -1.8200 |
| Investors Exchange LLC (IEXG) | 5.81 | 0.00 | 17.83 | 28.43 | 53.73 | 0.00 | 0.0000 | -94.56 | -7.7000 | -14.26 | -1.3800 | -44.77 | -8.1200 |
| CBOE EDGA Exchange (EDGA) | 4.19 | 0.00 | 25.37 | 38.38 | 36.24 | 0.00 | 0.0000 | 167.66 | 19.7600 | -602.99 | -27.9000 | 21.66 | 7.6700 |
| CBOE BZX Exchange (BATS) | 4.07 | 0.00 | 37.66 | 34.92 | 27.40 | 0.00 | 0.0000 | -2,302.15 | -29.2400 | -212.37 | -9.8900 | -307.54 | -29.2000 |
| NYSE Arca, Inc. (ARCA) | 4.06 | 0.00 | 13.85 | 55.92 | 30.21 | 0.00 | 0.0000 | -406.08 | -30.0000 | 601.43 | 20.9100 | 93.03 | 17.3300 |
| CBOE BYX Exchange (BATY) | 2.80 | 0.00 | 2.46 | 54.40 | 43.12 | 0.00 | 0.0000 | 1.90 | 1.7800 | -470.69 | -19.5600 | -40.47 | -18.5400 |
| CBOE EDGX Exchange (EDGX) | 2.78 | 0.00 | 19.25 | 44.85 | 35.89 | 0.00 | 0.0000 | -777.18 | -30.0000 | -2.09 | -0.1600 | -68.95 | -24.3000 |
| Nasdaq PHLX, LLC (XPHL) | 2.01 | 0.00 | 26.82 | 36.62 | 36.54 | 0.00 | 0.0000 | -225.45 | -30.0000 | 202.96 | 19.9900 | -42.84 | -26.7200 |

Material Aspects:

New York Stock Exchange LLC. (NYSE):

The Firm is a Market Maker and Supplemental Liquidity Market Maker in equities on the NYSE. Accordingly, the Firm may share directly in any profits generated from the execution of client orders by the Firm on the exchange, including those that are routed to the exchange.

NYSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://www.nyse.com/publicdocs/nyse/markets/nyse/NYSE_Price_List.pdf

Information reflecting the NYSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202304.xlsx

The Nasdaq Stock Market LLC. (XNAS):

The Firm is a Market Maker on XNAS in equities. Accordingly, the Firm may share directly in any profits generated from the execution of client orders by the Firm on the exchange, including those that are routed to the exchange.

XNAS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/nasdaq/rules/nasdaq-equity-7>

Information reflecting XNAS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202304.xlsx

NASDAQ OMX BX. (BOSE):

BOSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/bx/rules/bx-equity-7>

Information reflecting the BOSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202304.xlsx

CBOE EDGA Exchange (EDGA):

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/

Information reflecting the EDGA's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202304.xlsx

CBOE BZX Exchange (BATS):

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 reflecting the BATS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202304.xlsx

NYSE Arca, Inc. (ARCA):

ARCA has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf

Information reflecting ARCA's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202304.xlsx

CBOE BYX Exchange (BATY):

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/

Information reflecting the BATY's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202304.xlsx

CBOE EDGX Exchange (EDGX):

EDGX 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/edgx/

Information reflecting the EDGX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202304.xlsx

Nasdaq PHLX, LLC (XPHL):

XPHL has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/phlx/rules/phlx-equity-7>

Information reflecting the XPHL's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202304.xlsx

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 |
|----------------------------------------|-------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|------------------------------------------|
| 0.03 | 0.87 | 8.05 | 45.78 | 45.28 |

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) |
|-------------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------|
| NYSE Arca, Inc. (ARCA) | 25.45 | 0.89 | 1.68 | 53.65 | 43.75 | -288.84 | -15.0000 | -760.75 | -28.9800 | -244.03 | -5.6900 | -335.06 | -18.4500 |
| The Nasdaq Stock Market LLC. (XNAS) | 15.79 | 1.44 | 11.30 | 44.84 | 42.40 | -113.31 | -5.0400 | -2,077.13 | -27.3100 | 880.14 | 6.5500 | -561.63 | -4.8700 |
| New York Stock Exchange LLC. (NYSE) | 13.26 | 1.69 | 3.84 | 62.35 | 32.10 | -79.98 | -3.1200 | -903.96 | -19.7400 | 847.08 | 7.5600 | -284.76 | -7.5700 |
| NASDAQ OMX BX. (BOSE) | 7.87 | 0.00 | 27.54 | 25.82 | 46.62 | 0.00 | 0.0000 | 34.50 | 2.3800 | -443.29 | -27.2100 | -47.29 | -6.8300 |
| Investors Exchange LLC (IEXG) | 6.29 | 0.00 | 9.22 | 40.38 | 50.39 | 0.00 | 0.0000 | -139.89 | -8.2600 | -37.26 | -2.1400 | -129.56 | -6.3200 |
| CBOE BZX Exchange (BATS) | 5.96 | 0.00 | 16.58 | 42.51 | 40.90 | 0.00 | 0.0000 | -4,840.70 | -29.3900 | -1,570.90 | -25.1000 | -1,223.69 | -28.2500 |
| CBOE EDGA Exchange (EDGA) | 5.80 | 0.00 | 12.09 | 38.98 | 48.92 | 0.00 | 0.0000 | 382.18 | 16.8900 | -374.07 | -21.7500 | 96.37 | 8.5800 |
| CBOE BYX Exchange (BATY) | 4.45 | 0.00 | 1.06 | 46.96 | 51.96 | 0.00 | 0.0000 | 7.90 | 1.9000 | -210.55 | -14.5300 | -51.58 | -12.1900 |
| CBOE EDGX Exchange (EDGX) | 3.17 | 0.00 | 10.23 | 50.28 | 39.48 | 0.00 | 0.0000 | -1,152.76 | -29.8700 | -446.46 | -16.9800 | -204.04 | -29.1700 |
| Nasdaq PHLX, LLC (XPHL) | 3.07 | 0.00 | 13.76 | 43.55 | 42.68 | 0.00 | 0.0000 | -884.13 | -26.7800 | 193.15 | 14.1600 | -287.22 | -26.6100 |

Material Aspects:

NYSE Arca, Inc. (ARCA):

ARCA has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf

Information reflecting ARCA's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202304.xlsx

The Nasdaq Stock Market LLC. (XNAS):

The Firm is a Market Maker on XNAS in equities. Accordingly, the Firm may share directly in any profits generated from the execution of client orders by the Firm on the exchange, including those that are routed to the exchange.

XNAS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/nasdaq/rules/nasdaq-equity-7>

Information reflecting XNAS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202304.xlsx

New York Stock Exchange LLC. (NYSE):

The Firm is a Market Maker and Supplemental Liquidity Market Maker in equities on the NYSE. Accordingly, the Firm may share directly in any profits generated from the execution of client orders by the Firm on the exchange, including those that are routed to the exchange.

NYSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://www.nyse.com/publicdocs/nyse/markets/nyse/NYSE_Price_List.pdf

Information reflecting the NYSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202304.xlsx

NASDAQ OMX BX. (BOSE):

BOSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/bx/rules/bx-equity-7>

Information reflecting the BOSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202304.xlsx

CBOE BZX Exchange (BATS):

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 reflecting the BATS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202304.xlsx

CBOE EDGA Exchange (EDGA):

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/

Information reflecting the EDGA's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202304.xlsx

CBOE BYX Exchange (BATY):

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/

Information reflecting the BATY's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202304.xlsx

CBOE EDGX Exchange (EDGX):

EDGX 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/edgx/

Information reflecting the EDGX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202304.xlsx

Nasdaq PHLX, LLC (XPHL):

XPHL has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/phlx/rules/phlx-equity-7>

Information reflecting the XPHL's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202304.xlsx

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 |
|----------------------------------------|-------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|------------------------------------------|
| 0.17 | 0.12 | 6.39 | 86.89 | 6.59 |

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) |
|---------------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------|
| NASDAQ Options Market LLC (NDOE) | 29.04 | 0.00 | 3.49 | 96.29 | 0.20 | 0.00 | 0.0000 | -115,634.39 | -52.0300 | 18,333.03 | 16.1200 | 1,279.23 | 25.2000 |
| NYSE Arca, Inc. (PCOE) | 28.34 | 0.04 | 0.59 | 91.99 | 7.36 | -8,273.22 | -16.0100 | -40,680.29 | -54.1700 | 105,205.33 | 29.2700 | -22,272.26 | -23.9100 |
| CBOE C2 Options Exchange, Inc. (C2OX) | 21.63 | 0.00 | 0.33 | 99.62 | 0.04 | 0.00 | 0.0000 | -42,588.05 | -46.2400 | 16,024.03 | 18.5200 | 21.52 | 1.5700 |
| CBOE BZX Options Exchange (BATO) | 9.29 | 0.00 | 6.43 | 93.35 | 0.21 | 0.00 | 0.0000 | -88,354.18 | -70.9900 | 34,478.46 | 18.9100 | 287.49 | 9.3300 |
| CBOE Options Exchange (XCBO) | 3.82 | 1.42 | 9.77 | 24.38 | 64.40 | -16,983.18 | -11.4700 | -22,228.79 | -17.9600 | -28,811.15 | -15.4700 | -19,764.22 | -18.3400 |
| NASDAQ BX Options (XBOX) | 1.53 | 0.45 | 76.07 | 9.01 | 14.45 | 11,823.30 | 61.6700 | 68,582.65 | 25.1700 | -684.00 | -2.4900 | 16,400.70 | 51.4200 |
| MIAX PEARL LLC (MPRL) | 1.32 | 0.00 | 77.87 | 20.47 | 1.64 | 0.00 | 0.0000 | -199,563.95 | -51.5200 | 197.78 | 0.4500 | -1,012.55 | -19.8300 |
| Nasdaq ISE, LLC (ISOE) | 1.10 | 1.44 | 14.95 | 19.90 | 63.69 | 7,750.90 | 3.5400 | -31,216.22 | -40.8200 | 6,454.47 | 10.8700 | 30,199.14 | 23.4900 |
| NASDAQ BX Options (NBXO) | 0.98 | 0.00 | 71.67 | 26.77 | 1.54 | 0.00 | 0.0000 | -74,629.51 | -41.2800 | 7,047.01 | 23.1700 | 156.38 | 5.7100 |
| NYSE American LLC (AMEX) | 0.66 | 1.10 | 39.72 | 20.49 | 38.67 | 0.00 | 0.0000 | -4,526.03 | -6.7000 | -5,890.39 | -18.1600 | -812.67 | -2.0300 |

Material Aspects:

NASDAQ Options Market LLC (NDOE):

NDOE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://listingcenter.nasdaq.com/rulebook/nasdaq/rules/nasdaq-options-7>

Information reflecting the NDOE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202304.xlsx

NYSE Arca, Inc. (PCOE):

PCOE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/arca-options/NYSE_Arca_Options_Fee_Schedule.pdf

Information reflecting the PCOE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202304.xlsx

CBOE BZX Options Exchange (BATO):

BATO has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/options/membership/fee_schedule/bato/

Information reflecting the BATO's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202304.xlsx

CBOE Options Exchange (XCBO):

Pursuant to an exchange-sponsored marketing fee program, registered market-makers may receive payments from the exchange as a result of their designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

XCBO has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/options/membership/fee_schedule/xcbo/

Information reflecting the XCBO's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202304.xlsx

NASDAQ BX Options (XBOX):

XBOX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://boxoptions.com/regulatory/fee-schedule/>

Information reflecting the XBOX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202304.xlsx

MIAX PEARL LLC (MPRL):

MPRL has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://www.miaxglobal.com/markets/us-options/all-options-exchanges/fees>

Information reflecting the MPRL's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202304.xlsx

Nasdaq ISE, LLC (ISOE):

Pursuant to an exchange-sponsored marketing fee program, registered market-makers may receive payments from the exchange as a result of their designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

ISOE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://listingcenter.nasdaq.com/rulebook/ise/rules/ise-options-7>

Information reflecting the ISOE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202304.xlsx

NASDAQ BX Options (NBXO):

NBXO has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://listingcenter.nasdaq.com/rulebook/bx/rules/bx-options-7>

Information reflecting the NBXO's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202304.xlsx

NYSE American LLC (AMEX):

Pursuant to an exchange-sponsored marketing fee program, registered market-makers may receive payments from the exchange as a result of their designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

AMEX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/american-options/NYSE_American_Options_Fee_Schedule.pdf

Information reflecting the AMEX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202304.xlsx

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 |
|----------------------------------------|-------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|------------------------------------------|
| 0.02 | 7.74 | 17.44 | 42.51 | 32.29 |

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) |
|-------------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------|
| New York Stock Exchange LLC. (NYSE) | 35.99 | 19.89 | 5.17 | 53.76 | 21.17 | -65.69 | -2.6700 | -979.87 | -25.9300 | 1,642.25 | 18.5500 | -104.58 | -11.7600 |
| The Nasdaq Stock Market LLC. (XNAS) | 24.46 | 2.14 | 18.13 | 40.53 | 39.18 | -48.76 | -4.4200 | -2,686.12 | -29.0700 | 492.39 | 8.6300 | -390.22 | -12.9100 |
| NASDAQ OMX BX. (BOSE) | 8.38 | 0.00 | 53.81 | 16.95 | 29.23 | 0.00 | 0.0000 | 22.89 | 2.5500 | -1,238.71 | -29.9900 | -368.12 | -26.5200 |
| Investors Exchange LLC (IEXG) | 5.90 | 0.00 | 19.57 | 26.63 | 53.78 | 0.00 | 0.0000 | -267.82 | -8.6800 | -35.83 | -0.5400 | -58.22 | -7.6400 |
| CBOE BZX Exchange (BATS) | 4.47 | 0.00 | 43.99 | 29.09 | 26.90 | 0.00 | 0.0000 | -3,800.47 | -29.1600 | -33.20 | -0.9600 | -332.90 | -28.4200 |
| CBOE EDGA Exchange (EDGA) | 4.34 | 0.00 | 31.02 | 37.02 | 31.94 | 0.00 | 0.0000 | 311.15 | 18.4900 | -1,687.91 | -28.6800 | 5.74 | 1.3900 |
| NYSE Arca, Inc. (ARCA) | 3.73 | 0.00 | 17.76 | 55.23 | 27.00 | 0.00 | 0.0000 | -773.91 | -30.0000 | 1,019.26 | 21.4200 | 25.09 | 6.3500 |
| CBOE BYX Exchange (BATY) | 2.63 | 0.00 | 4.28 | 50.81 | 44.90 | 0.00 | 0.0000 | -51.19 | -11.9300 | -678.41 | -19.1800 | -15.05 | -12.1100 |
| CBOE EDGX Exchange (EDGX) | 2.47 | 0.00 | 20.60 | 44.21 | 35.18 | 0.00 | 0.0000 | -812.23 | -30.0000 | 642.04 | 11.4900 | 10.16 | 1.9200 |
| Nasdaq PHLX, LLC (XPHL) | 2.07 | 0.00 | 34.95 | 34.58 | 30.46 | 0.00 | 0.0000 | -323.26 | -30.0000 | 595.83 | 29.9600 | -23.79 | -10.0200 |

Material Aspects:

New York Stock Exchange LLC. (NYSE):

The Firm is a Market Maker and Supplemental Liquidity Market Maker in equities on the NYSE. Accordingly, the Firm may share directly in any profits generated from the execution of client orders by the Firm on the exchange, including those that are routed to the exchange.

NYSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://www.nyse.com/publicdocs/nyse/markets/nyse/NYSE_Price_List.pdf

Information reflecting the NYSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202305.xlsx

The Nasdaq Stock Market LLC. (XNAS):

The Firm is a Market Maker on XNAS in equities. Accordingly, the Firm may share directly in any profits generated from the execution of client orders by the Firm on the exchange, including those that are routed to the exchange.

XNAS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/nasdaq/rules/nasdaq-equity-7>

Information reflecting XNAS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202305.xlsx

NASDAQ OMX BX. (BOSE):

BOSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/bx/rules/bx-equity-7>

Information reflecting the BOSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202305.xlsx

CBOE BZX Exchange (BATS):

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 reflecting the BATS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202305.xlsx

CBOE EDGA Exchange (EDGA):

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/

Information reflecting the EDGA's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202305.xlsx

NYSE Arca, Inc. (ARCA):

ARCA has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf

Information reflecting ARCA's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202305.xlsx

CBOE BYX Exchange (BATY):

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/

Information reflecting the BATY's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202305.xlsx

CBOE EDGX Exchange (EDGX):

EDGX 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/edgx/

Information reflecting the EDGX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202305.xlsx

Nasdaq PHLX, LLC (XPHL):

XPHL has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/phlx/rules/phlx-equity-7>

Information reflecting the XPHL's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202305.xlsx

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 |
|----------------------------------------|-------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|------------------------------------------|
| 0.03 | 1.46 | 8.97 | 45.60 | 43.95 |

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) |
|-------------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------|
| NYSE Arca, Inc. (ARCA) | 26.47 | 1.11 | 2.09 | 52.34 | 44.45 | -438.07 | -15.0000 | -1,349.26 | -26.4400 | 373.21 | 4.6500 | -538.49 | -17.4700 |
| The Nasdaq Stock Market LLC. (XNAS) | 15.79 | 1.63 | 12.09 | 45.44 | 40.82 | -72.89 | -4.4200 | -3,178.00 | -26.1900 | 1,057.14 | 5.0600 | -2,100.22 | -13.9800 |

| 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) |
|-------------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------|
| New York Stock Exchange LLC. (NYSE) | 13.11 | 4.27 | 6.06 | 62.64 | 27.02 | -52.24 | -2.6500 | -1,572.09 | -23.6000 | 1,238.97 | 7.6000 | -48.16 | -1.3400 |
| NASDAQ OMX BX. (BOSE) | 7.53 | 0.00 | 28.31 | 26.06 | 45.61 | 0.00 | 0.0000 | 56.04 | 3.0000 | -1,102.22 | -17.1000 | -180.22 | -12.5700 |
| CBOE BZX Exchange (BATS) | 6.47 | 0.10 | 19.16 | 40.54 | 40.19 | -4.47 | -7.5000 | -8,715.91 | -29.4100 | -1,623.67 | -13.0500 | -1,659.74 | -26.5800 |
| Investors Exchange LLC (IEXG) | 6.13 | 0.00 | 7.31 | 40.35 | 52.32 | 0.00 | 0.0000 | -282.09 | -9.1300 | -74.53 | -0.7200 | -155.64 | -4.9200 |
| CBOE EDGA Exchange (EDGA) | 5.73 | 0.00 | 14.31 | 39.53 | 46.15 | 0.00 | 0.0000 | 617.40 | 16.9500 | -2,078.03 | -26.5700 | -418.34 | -13.9800 |
| CBOE BYX Exchange (BATY) | 4.22 | 0.00 | 1.89 | 48.21 | 49.89 | 0.00 | 0.0000 | 7.02 | 0.7500 | -642.73 | -18.1000 | -136.83 | -16.8100 |
| Nasdaq PHLX, LLC (XPHL) | 3.29 | 0.00 | 15.97 | 40.26 | 43.76 | 0.00 | 0.0000 | -1,399.94 | -30.0000 | 507.75 | 29.3400 | -372.55 | -22.1800 |
| CBOE EDGX Exchange (EDGX) | 3.12 | 0.00 | 11.87 | 47.51 | 40.60 | 0.00 | 0.0000 | -1,954.26 | -29.9000 | -349.08 | -5.0700 | -224.08 | -16.9100 |

Material Aspects:

NYSE Arca, Inc. (ARCA):

ARCA has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf

Information reflecting ARCA's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202305.xlsx

The Nasdaq Stock Market LLC. (XNAS):

The Firm is a Market Maker on XNAS in equities. Accordingly, the Firm may share directly in any profits generated from the execution of client orders by the Firm on the exchange, including those that are routed to the exchange.

XNAS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://listingcenter.nasdaq.com/rulebook/nasdaq/rules/nasdaq-equity-7>

Information reflecting XNAS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202305.xlsx

New York Stock Exchange LLC. (NYSE):

The Firm is a Market Maker and Supplemental Liquidity Market Maker in equities on the NYSE. Accordingly, the Firm may share directly in any profits generated from the execution of client orders by the Firm on the exchange, including those that are routed to the exchange.

NYSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/nyse/NYSE_Price_List.pdf

Information reflecting the NYSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202305.xlsx

NASDAQ OMX BX. (BOSE):

BOSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://listingcenter.nasdaq.com/rulebook/bx/rules/bx-equity-7>

Information reflecting the BOSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202305.xlsx

CBOE BZX Exchange (BATS):

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 reflecting the BATS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202305.xlsx

CBOE EDGA Exchange (EDGA):

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/

Information reflecting the EDGA's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202305.xlsx

CBOE BYX Exchange (BATY):

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/

Information reflecting the BATY's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202305.xlsx

Nasdaq PHLX, LLC (XPHL):

XPHL has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/phlx/rules/phlx-equity-7>

Information reflecting the XPHL's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202305.xlsx

CBOE EDGX Exchange (EDGX):

EDGX 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/edgx/

Information reflecting the EDGX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202305.xlsx

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 |
|----------------------------------------|-------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|------------------------------------------|
| 0.23 | 0.07 | 4.41 | 84.94 | 10.56 |

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) |
|---------------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------|
| NASDAQ Options Market LLC (NDOE) | 33.92 | 0.00 | 1.82 | 97.93 | 0.23 | 0.00 | 0.0000 | -147,434.51 | -50.7300 | 29,158.80 | 17.2500 | 2,055.80 | 26.6900 |
| CBOE C2 Options Exchange, Inc. (C2OX) | 28.37 | 0.00 | 0.18 | 99.78 | 0.02 | 0.00 | 0.0000 | -57,044.65 | -45.7300 | 26,610.79 | 18.8600 | -168.02 | -10.4800 |
| NYSE Arca, Inc. (PCOE) | 21.34 | 0.03 | 0.61 | 75.49 | 23.85 | -9,228.70 | -20.3200 | -46,884.88 | -53.5300 | 123,751.78 | 30.9800 | -24,380.11 | -20.9400 |

| 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 Options Exchange (BATO) | 6.02 | 0.00 | 8.13 | 91.52 | 0.33 | 0.00 | 0.0000 | -112,191.76 | -69.3500 | 40,935.29 | 16.3800 | 542.73 | 15.1300 |
| CBOE Options Exchange (XCBO) | 2.84 | 1.22 | 8.80 | 19.66 | 70.30 | -23,249.43 | -21.2400 | -32,011.42 | -19.0000 | -32,884.04 | -12.7900 | -20,811.10 | -16.9100 |
| Nasdaq ISE, LLC (ISOE) | 1.79 | 0.56 | 7.69 | 8.16 | 83.56 | 8,185.93 | 4.2500 | -42,437.29 | -39.9500 | 11,985.02 | 13.5200 | 17,374.55 | 18.4600 |
| NASDAQ BX Options (XBOX) | 1.07 | 0.37 | 68.98 | 8.48 | 22.16 | 7,267.80 | 52.0100 | 57,126.20 | 22.7000 | -164.90 | -0.5400 | 18,145.66 | 45.5600 |
| MIAX PEARL LLC (MPRL) | 1.05 | 0.00 | 74.09 | 23.44 | 2.46 | 0.00 | 0.0000 | -256,959.32 | -50.1000 | -321.52 | -0.6300 | -399.85 | -8.0600 |
| NASDAQ BX Options (NBXO) | 0.74 | 0.00 | 71.92 | 26.20 | 1.86 | 0.00 | 0.0000 | -112,119.04 | -42.7100 | 9,305.09 | 25.9800 | -20.02 | -0.4800 |
| NYSE American LLC (AMEX) | 0.72 | 0.66 | 20.40 | 12.32 | 66.59 | -20.00 | -0.0700 | -6,159.18 | -7.3800 | -7,874.19 | -21.0000 | -574.85 | -1.2500 |

Material Aspects:

NASDAQ Options Market LLC (NDOE):

NDOE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/nasdaq/rules/nasdaq-options-7>

Information reflecting the NDOE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202305.xlsx

NYSE Arca, Inc. (PCOE):

PCOE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://www.nyse.com/publicdocs/nyse/markets/arca-options/NYSE_Arca_Options_Fee_Schedule.pdf

Information reflecting the PCOE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202305.xlsx

CBOE BZX Options Exchange (BATO):

BATO has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://markets.cboe.com/us/options/membership/fee_schedule/bato/

Information reflecting the BATO's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202305.xlsx

CBOE Options Exchange (XCBO):

Pursuant to an exchange-sponsored marketing fee program, registered market-makers may receive payments from the exchange as a result of their designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

XCBO has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://markets.cboe.com/us/options/membership/fee_schedule/xcbo/

Information reflecting the XCBO's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202305.xlsx

Nasdaq ISE, LLC (ISOE):

Pursuant to an exchange-sponsored marketing fee program, registered market-makers may receive payments from the exchange as a result of their designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

ISOE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/ise/rules/ise-options-7>

Information reflecting the ISOE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202305.xlsx

NASDAQ BX Options (XBOX):

XBOX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://boxoptions.com/regulatory/fee-schedule/>

Information reflecting the XBOX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202305.xlsx

MIAX PEARL LLC (MPRL):

MPRL has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://www.miaxglobal.com/markets/us-options/all-options-exchanges/fees>

Information reflecting the MPRL's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202305.xlsx

NASDAQ BX Options (NBXO):

NBXO has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/bx/rules/bx-options-7>

Information reflecting the NBXO's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202305.xlsx

NYSE American LLC (AMEX):

Pursuant to an exchange-sponsored marketing fee program, registered market-makers may receive payments from the exchange as a result of their designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

AMEX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://www.nyse.com/publicdocs/nyse/markets/american-options/NYSE_American_Options_Fee_Schedule.pdf

Information reflecting the AMEX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202305.xlsx

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 |
|----------------------------------------|-------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|------------------------------------------|
| 0.03 | 3.10 | 19.26 | 44.80 | 32.82 |

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 Marketable Limit 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(cents per hundred shares) | Net Payment Paid/Received for Other Orders(USD) | Net Payment Paid/Received for Other Orders(cents per hundred shares) | |
|-------------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------|----------|
| New York Stock Exchange LLC. (NYSE) | 30.57 | 4.82 | 6.03 | 63.02 | 26.11 | -26.45 | -1.9400 | -764.92 | -24.0200 | 450.88 | 12.6000 | -100.50 | -5.7400 |
| The Nasdaq Stock Market LLC. (XNAS) | 29.27 | 4.06 | 18.23 | 41.08 | 36.61 | -143.88 | -4.8200 | -2,031.66 | -29.7800 | -25.52 | -0.7200 | -410.47 | -15.5700 |
| NASDAQ OMX BX. (BOSE) | 9.86 | 0.00 | 61.67 | 14.39 | 23.92 | 0.00 | 0.0000 | -0.56 | -0.0800 | -574.58 | -29.9600 | -198.63 | -24.5300 |
| Investors Exchange | 5.75 | 0.00 | 20.63 | 28.22 | 51.14 | 0.00 | 0.0000 | -121.31 | -8.8300 | -12.19 | -0.3700 | -58.32 | -7.6800 |

| 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) |
|---------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------|
| LLC (IEXG) | | | | | | | | | | | | | |
| CBOE BZX Exchange (BATS) | 4.48 | 0.00 | 41.06 | 31.11 | 27.82 | 0.00 | 0.0000 | -2,953.96 | -29.2600 | -293.54 | -14.9100 | -511.32 | -28.2100 |
| CBOE EDGA Exchange (EDGA) | 4.24 | 0.00 | 24.98 | 36.85 | 38.16 | 0.00 | 0.0000 | 56.32 | 3.3900 | -362.73 | -25.7500 | 44.67 | 14.3400 |
| NYSE Arca, Inc. (ARCA) | 4.00 | 0.00 | 15.33 | 54.67 | 29.99 | 0.00 | 0.0000 | -556.23 | -30.0000 | -63.38 | -6.1200 | -14.89 | -4.1400 |
| CBOE BYX Exchange (BATY) | 2.65 | 0.00 | 3.52 | 55.25 | 41.22 | 0.00 | 0.0000 | 3.18 | 1.9100 | -741.63 | -19.6000 | -61.35 | -17.5100 |
| CBOE EDGX Exchange (EDGX) | 2.41 | 0.00 | 20.51 | 42.69 | 36.78 | 0.00 | 0.0000 | -824.33 | -30.0000 | 70.84 | 3.2400 | 45.41 | 4.6400 |
| Nasdaq PHLX, LLC (XPHL) | 1.91 | 0.00 | 30.09 | 33.94 | 35.96 | 0.00 | 0.0000 | -248.26 | -30.0000 | 447.21 | 30.0000 | -57.40 | -23.4500 |

Material Aspects:

New York Stock Exchange LLC. (NYSE):

The Firm is a Market Maker and Supplemental Liquidity Market Maker in equities on the NYSE. Accordingly, the Firm may share directly in any profits generated from the execution of client orders by the Firm on the exchange, including those that are routed to the exchange.

NYSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://www.nyse.com/publicdocs/nyse/markets/nyse/NYSE_Price_List.pdf

Information reflecting the NYSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202306.xlsx

The Nasdaq Stock Market LLC. (XNAS):

The Firm is a Market Maker on XNAS in equities. Accordingly, the Firm may share directly in any profits generated from the execution of client orders by the Firm on the exchange, including those that are routed to the exchange.

XNAS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/nasdaq/rules/nasdaq-equity-7>

Information reflecting XNAS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202306.xlsx

NASDAQ OMX BX. (BOSE):

BOSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/bx/rules/bx-equity-7>

Information reflecting the BOSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202306.xlsx

CBOE BZX Exchange (BATS):

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 reflecting the BATS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202306.xlsx

CBOE EDGA Exchange (EDGA):

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/

Information reflecting the EDGA's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202306.xlsx

NYSE Arca, Inc. (ARCA):

ARCA has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf

Information reflecting ARCA's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202306.xlsx

CBOE BYX Exchange (BATY):

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/

Information reflecting the BATY's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202306.xlsx

CBOE EDGX Exchange (EDGX):

EDGX 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/edgx/

Information reflecting the EDGX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202306.xlsx

Nasdaq PHLX, LLC (XPHL):

XPHL has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/phlx/rules/phlx-equity-7>

Information reflecting the XPHL's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202306.xlsx

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 |
|----------------------------------------|-------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|------------------------------------------|
| 0.04 | 1.61 | 11.06 | 43.83 | 43.48 |

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) |
|-------------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------|
| NYSE Arca, Inc. (ARCA) | 26.94 | 0.97 | 2.03 | 54.33 | 42.65 | -742.15 | -15.0000 | -1,710.67 | -28.1600 | -139.78 | -2.1800 | -808.72 | -15.2100 |
| The Nasdaq Stock Market LLC. (XNAS) | 15.51 | 2.34 | 16.96 | 44.12 | 36.57 | -274.94 | -4.8200 | -3,776.42 | -24.3000 | 470.19 | 2.7400 | -2,429.32 | -19.3000 |
| New York Stock Exchange LLC. (NYSE) | 11.63 | 5.72 | 6.46 | 59.04 | 28.76 | -179.99 | -1.6000 | -1,656.79 | -22.2000 | -134.52 | -1.3900 | -328.88 | -9.3500 |
| NASDAQ OMX BX. (BOSE) | 8.29 | 0.00 | 36.83 | 20.90 | 42.25 | 0.00 | 0.0000 | 53.54 | 3.3000 | -774.55 | -26.8500 | -71.66 | -5.8400 |
| CBOE BZX Exchange (BATS) | 6.58 | 0.29 | 19.99 | 39.57 | 40.13 | -1.64 | -7.5000 | -9,457.94 | -28.9300 | -2,341.03 | -22.1700 | -1,997.75 | -27.8000 |
| Investors | 5.91 | 0.00 | 11.47 | 37.75 | 50.76 | 0.00 | 0.0000 | -253.83 | -8.6400 | -70.11 | -2.1100 | -213.67 | -4.8300 |

| 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) |
|---------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------|
| Exchange LLC (IEXG) | | | | | | | | | | | | | |
| CBOE EDGA Exchange (EDGA) | 5.70 | 0.00 | 16.00 | 36.34 | 47.65 | 0.00 | 0.0000 | 500.14 | 12.3400 | -1,495.49 | -25.0100 | 95.11 | 5.1400 |
| CBOE BYX Exchange (BATY) | 4.35 | 0.00 | 2.13 | 45.97 | 51.89 | 0.00 | 0.0000 | 13.93 | 1.5000 | -1,500.58 | -18.5200 | -165.00 | -6.6800 |
| CBOE EDGX Exchange (EDGX) | 3.00 | 0.00 | 14.38 | 47.65 | 37.95 | 0.00 | 0.0000 | -2,083.94 | -28.9300 | -466.77 | -6.5000 | -318.21 | -18.0800 |
| Nasdaq PHLX, LLC (XPHL) | 2.86 | 0.00 | 18.41 | 38.90 | 42.68 | 0.00 | 0.0000 | -1,052.73 | -30.0000 | 939.75 | 27.8800 | -104.80 | -4.9700 |

Material Aspects:

NYSE Arca, Inc. (ARCA):

ARCA has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf

Information reflecting ARCA's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202306.xlsx

The Nasdaq Stock Market LLC. (XNAS):

The Firm is a Market Maker on XNAS in equities. Accordingly, the Firm may share directly in any profits generated from the execution of client orders by the Firm on the exchange, including those that are routed to the exchange.

XNAS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://listingcenter.nasdaq.com/rulebook/nasdaq/rules/nasdaq-equity-7>

Information reflecting XNAS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202306.xlsx

New York Stock Exchange LLC. (NYSE):

The Firm is a Market Maker and Supplemental Liquidity Market Maker in equities on the NYSE. Accordingly, the Firm may share directly in any profits generated from the execution of client orders by the Firm on the exchange, including those that are routed to the exchange.

NYSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/nyse/NYSE_Price_List.pdf

Information reflecting the NYSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202306.xlsx

NASDAQ OMX BX. (BOSE):

BOSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://listingcenter.nasdaq.com/rulebook/bx/rules/bx-equity-7>

Information reflecting the BOSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202306.xlsx

CBOE BZX Exchange (BATS):

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 reflecting the BATS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202306.xlsx

CBOE EDGA Exchange (EDGA):

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/

Information reflecting the EDGA's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202306.xlsx

CBOE BYX Exchange (BATY):

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/

Information reflecting the BATY's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202306.xlsx

CBOE EDGX Exchange (EDGX):

EDGX 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/edgx/

Information reflecting the EDGX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202306.xlsx

Nasdaq PHLX, LLC (XPHL):

XPHL has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://listingcenter.nasdaq.com/rulebook/phlx/rules/phlx-equity-7>

Information reflecting the XPHL's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202306.xlsx

June 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 |
|----------------------------------------|-------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|------------------------------------------|
| 0.31 | 0.05 | 3.05 | 82.50 | 14.38 |

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) |
|---------------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------|
| NASDAQ Options Market LLC (NDOE) | 33.83 | 0.00 | 1.06 | 98.88 | 0.05 | 0.00 | 0.0000 | -117,505.40 | -52.3300 | 35,471.15 | 24.0100 | -201.56 | -6.9200 |
| CBOE C2 Options Exchange, Inc. (C2OX) | 31.30 | 0.00 | 0.11 | 99.87 | 0.00 | 0.00 | 0.0000 | -55,591.40 | -46.4800 | 26,453.16 | 18.9000 | -352.98 | -35.5100 |
| NYSE Arca, Inc. (PCOE) | 18.00 | 0.03 | 0.62 | 70.34 | 28.99 | -27,442.84 | -36.8600 | -50,530.39 | -52.9100 | 45,184.64 | 11.2100 | -25,899.26 | -22.0900 |
| CBOE BZX Options Exchange (BATO) | 4.21 | 0.00 | 7.91 | 91.96 | 0.11 | 0.00 | 0.0000 | -112,812.16 | -69.5400 | 23,120.41 | 11.3600 | -326.10 | -20.8900 |
| Nasdaq ISE, LLC (ISOE) | 3.29 | 0.20 | 2.80 | 3.46 | 93.53 | 4,431.30 | 4.6900 | -39,271.16 | -41.0000 | 7,944.46 | 10.9200 | 24,769.25 | 13.6200 |
| CBOE Options Exchange (XCBO) | 2.51 | 1.05 | 7.43 | 15.23 | 76.26 | -29,366.24 | -31.1900 | -36,714.77 | -21.8900 | -41,909.06 | -18.5600 | -17,058.16 | -15.0600 |
| NASDAQ BX Options | 1.46 | 0.24 | 44.96 | 4.72 | 50.05 | 6,585.20 | 31.2000 | 62,291.15 | 20.1400 | -441.55 | -1.3100 | 18,527.10 | 47.8600 |

| 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) |
|--------------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------|
| (XBOX) | | | | | | | | | | | | | |
| NYSE American LLC (AMEX) | 1.34 | 0.26 | 7.06 | 5.05 | 87.61 | 0.00 | 0.0000 | -3,598.89 | -6.3800 | -8,081.21 | -19.1500 | -399.90 | -1.3100 |
| Nasdaq PHLX, LLC (PHLX) | 0.98 | 0.41 | 6.10 | 7.54 | 85.93 | -12.27 | -0.0300 | -7,840.40 | -11.5500 | -1,447.45 | -3.4800 | -249.51 | -0.5800 |
| MIAX Securities Exchange, LLC (MIAX) | 0.93 | 0.31 | 8.07 | 7.00 | 84.60 | 35.44 | 0.3200 | -6,823.58 | -12.9500 | -916.19 | -3.2500 | -49.22 | -0.1300 |

Material Aspects:

NASDAQ Options Market LLC (NDOE):

NDOE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://listingcenter.nasdaq.com/rulebook/nasdaq/rules/nasdaq-options-7>

Information reflecting the NDOE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202306.xlsx

NYSE Arca, Inc. (PCOE):

PCOE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/arca-options/NYSE_Arca_Options_Fee_Schedule.pdf

Information reflecting the PCOE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202306.xlsx

CBOE BZX Options Exchange (BATO):

BATO has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/options/membership/fee_schedule/bato/

Information reflecting the BATO's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202306.xlsx

Nasdaq ISE, LLC (ISOE):

Pursuant to an exchange-sponsored marketing fee program, registered market-makers may receive payments from the exchange as a result of their designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

ISOE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://listingcenter.nasdaq.com/rulebook/ise/rules/ise-options-7>

Information reflecting the ISOE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202306.xlsx

CBOE Options Exchange (XCBO):

Pursuant to an exchange-sponsored marketing fee program, registered market-makers may receive payments from the exchange as a result of their designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

XCBO has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/options/membership/fee_schedule/xcbo/

Information reflecting the XCBO's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202306.xlsx

NASDAQ BX Options (XBOX):

XBOX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://boxoptions.com/regulatory/fee-schedule/>

Information reflecting the XBOX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202306.xlsx

NYSE American LLC (AMEX):

Pursuant to an exchange-sponsored marketing fee program, registered market-makers may receive payments from the exchange as a result of their designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive

payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

AMEX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://www.nyse.com/publicdocs/nyse/markets/american-options/NYSE_American_Options_Fee_Schedule.pdf

Information reflecting the AMEX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202306.xlsx

Nasdaq PHLX, LLC (PHLX):

Pursuant to an exchange-sponsored marketing fee program, registered market-makers may receive payments from the exchange as a result of their designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

PHLX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/phlx/rules/phlx-equity-7>

Information reflecting the PHLX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202306.xlsx

MIAX Securities Exchange, LLC (MIAX):

Pursuant to an exchange-sponsored marketing fee program, registered market-makers may receive payments from the exchange as a result of their designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

MIAX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://www.miaxoptions.com/fees>

Information reflecting the MIAX's tiered pricing/payment schedule, as applicable to GSCO, can be found at :https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202306.xlsx