

Goldman Sachs & Co. LLC - Held NMS Stocks and Options Order Routing Public Report

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3rd Quarter, 2020

July 2020

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 |
|--|---|---|---|--|
| 0.30 | 2.90 | 36.16 | 39.69 | 21.23 |

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) |
|-------------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| The Nasdaq Stock Market LLC. (XNAS) | 34.03 | 1.24 | 14.96 | 9.74 | 8.07 | -90.02 | -6.9200 | -4,767.07 | -29.3700 | 355.39 | 14.9800 | -200.86 | -10.2400 |
| New York Stock Exchange LLC. (NYSE) | 22.11 | 1.65 | 3.08 | 12.66 | 4.71 | -41.26 | -2.3100 | -3,007.33 | -23.9000 | 397.14 | 11.3600 | -137.22 | -4.9600 |
| NASDAQ OMX BX. (BOSE) | 7.02 | 0.00 | 2.91 | 2.80 | 1.30 | 0.00 | 0.0000 | 140.12 | 10.7800 | -570.07 | -29.9700 | 0.40 | 0.2300 |
| CBOE EDGX Exchange (EDGX) | 6.45 | 0.00 | 2.99 | 2.20 | 1.26 | 0.00 | 0.0000 | -2,953.63 | -26.7000 | 143.81 | 19.0700 | -85.53 | -13.9600 |
| CBOE EDGA Exchange (EDGA) | 6.21 | 0.00 | 2.38 | 2.54 | 1.27 | 0.00 | 0.0000 | 412.88 | 15.5800 | -656.15 | -25.7800 | -130.52 | -14.7600 |
| NYSE Arca, Inc. (ARCA) | 6.11 | 0.00 | 3.13 | 1.83 | 1.14 | 0.00 | 0.0000 | -1,786.33 | -29.7400 | 569.43 | 19.9100 | -8.77 | -1.1700 |
| Investors Exchange LLC (IEXG) | 5.43 | 0.00 | 2.29 | 2.13 | 1.00 | 0.00 | 0.0000 | -125.17 | -6.0700 | -38.68 | -3.0500 | -7.72 | -3.9800 |
| CBOE BZX Exchange (BATS) | 4.34 | 0.00 | 2.41 | 1.27 | 0.66 | 0.00 | 0.0000 | -4,542.07 | -29.8700 | 246.35 | 23.3500 | -173.79 | -20.8000 |
| CBOE BYX Exchange (BATY) | 4.06 | 0.00 | 0.81 | 2.28 | 0.96 | 0.00 | 0.0000 | 147.97 | 12.0400 | -239.23 | -18.5100 | -51.25 | -13.0000 |
| Nasdaq PHLX, LLC (XPHL) | 2.80 | 0.00 | 0.86 | 1.42 | 0.51 | 0.00 | 0.0000 | -1,503.60 | -25.0000 | 145.36 | 19.8700 | -47.55 | -15.9400 |

Material Aspects:

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://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2>

Information reflecting XNAS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_equities_rate_card_202007.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/us_equities_rate_card_202007.xlsx

NASDAQ OMX BX. (BOSE):

BOSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
http://nasdaqbx.cchwallstreet.com/nasdaqbx/main/bx-incrules/chp_1_1/chp_1_1_3/chp_1_1_3_2

Information reflecting the BOSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_equities_rate_card_202007.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/us_equities_rate_card_202007.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/us_equities_rate_card_202007.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/us_equities_rate_card_202007.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/us_equities_rate_card_202007.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/us_equities_rate_card_202007.xlsx

Nasdaq PHLX, LLC (XPHL):

XPHL has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
http://nasdaqphlx.cchwallstreet.com/nasdaqphlx/phlx/phlx-lcrules/chp_1_1/

Information reflecting the XPHL's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_equities_rate_card_202007.xlsx

July 2020

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 |
|--|---|---|---|--|
| 0.24 | 3.58 | 32.07 | 41.44 | 22.89 |

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) |
|-------------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| The Nasdaq Stock Market LLC. (XNAS) | 30.46 | 2.02 | 11.77 | 10.88 | 5.78 | -270.83 | -7.3500 | -9,937.40 | -26.3900 | 2,512.37 | 22.7800 | -1,707.02 | -25.1500 |
| New York Stock Exchange LLC. (NYSE) | 15.52 | 0.89 | 2.26 | 9.27 | 3.08 | -80.27 | -2.3100 | -4,090.45 | -17.4700 | 1,821.49 | 11.9600 | -506.77 | -14.6200 |
| NYSE Arca, Inc. (ARCA) | 14.29 | 0.61 | 3.48 | 5.79 | 4.39 | -756.46 | -15.0000 | -5,333.01 | -28.6300 | 1,293.51 | 16.9200 | -1,855.69 | -24.7100 |
| CBOE EDGX Exchange (EDGX) | 8.64 | 0.00 | 4.08 | 2.25 | 2.30 | 0.00 | 0.0000 | -5,327.48 | -25.9100 | 1,303.45 | 15.0200 | -1,039.02 | -16.3700 |
| NASDAQ OMX BX. (BOSE) | 6.23 | 0.00 | 2.20 | 2.56 | 1.46 | 0.00 | 0.0000 | 328.99 | 7.7900 | -1,748.43 | -28.7100 | -89.70 | -5.5100 |
| CBOE EDGA Exchange (EDGA) | 6.16 | 0.00 | 2.17 | 2.58 | 1.40 | 0.00 | 0.0000 | 1,027.77 | 17.3700 | -1,086.55 | -23.2200 | -323.50 | -9.4400 |
| CBOE BZX Exchange (BATS) | 5.10 | 0.02 | 2.53 | 1.23 | 1.31 | -3.21 | -5.0000 | -7,341.05 | -29.7300 | 372.03 | 17.1000 | -1,325.45 | -19.8400 |
| Investors Exchange LLC (IEXG) | 4.61 | 0.00 | 1.29 | 2.18 | 1.12 | 0.00 | 0.0000 | -202.05 | -5.9500 | -283.93 | -4.6500 | -69.12 | -4.2600 |
| CBOE BYX Exchange (BATY) | 4.04 | 0.00 | 0.73 | 2.47 | 0.83 | 0.00 | 0.0000 | 137.15 | 5.0100 | -1,373.14 | -18.9400 | -138.21 | -7.6500 |
| Nasdaq PHLX, LLC (XPHL) | 3.05 | 0.00 | 1.00 | 1.38 | 0.67 | 0.00 | 0.0000 | -2,243.69 | -24.9600 | 464.47 | 13.9000 | -434.91 | -19.2600 |

Material Aspects:

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://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2>

Information reflecting XNAS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_equities_rate_card_202007.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/us_equities_rate_card_202007.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/us_equities_rate_card_202007.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/us_equities_rate_card_202007.xlsx

NASDAQ OMX BX. (BOSE):

BOSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
http://nasdaqbx.cchwallstreet.com/nasdaqbx/main/bx-incrules/chp_1_1/chp_1_1_3/chp_1_1_3_2

Information reflecting the BOSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_equities_rate_card_202007.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/us_equities_rate_card_202007.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/us_equities_rate_card_202007.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/us_equities_rate_card_202007.xlsx

Nasdaq PHLX, LLC (XPHL):

XPHL has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
http://nasdaqphlx.cchwallstreet.com/nasdaqphlx/phlx/phlx-lcrules/chp_1_1/

Information reflecting the XPHL's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_equities_rate_card_202007.xlsx

July 2020

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 |
|--|---|---|---|--|
| 17.23 | 0.00 | 3.49 | 82.74 | 13.75 |

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) |
|----------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| CBOE BZX Options Exchange (BATO) | 65.60 | 0.00 | 1.61 | 63.99 | 0.00 | 0.00 | 0.0000 | -313,228.50 | -59.3200 | 80,031.05 | 21.8300 | -82.65 | -10.3100 |
| NASDAQ Options Market LLC (NDOE) | 13.86 | 0.00 | 0.55 | 13.31 | 0.00 | 0.00 | 0.0000 | -175,413.88 | -51.4200 | 39,658.19 | 23.0600 | -6.88 | -1.3400 |
| NYSE Arca, Inc. (PCOE) | 6.50 | 0.00 | 0.10 | 3.33 | 3.07 | -734.58 | -7.5200 | -36,524.54 | -56.2200 | 60,058.17 | 32.2700 | 17,862.09 | 9.8400 |
| Nasdaq ISE, LLC (ISOE) | 5.76 | 0.00 | 0.08 | 0.14 | 5.53 | 4,435.40 | 12.1800 | -44,680.75 | -39.8800 | 10,929.99 | 15.7400 | 94,399.33 | 31.2200 |
| CBOE Options Exchange (XCBO) | 2.70 | 0.00 | 0.14 | 0.23 | 2.32 | -953.48 | -7.0700 | -8,725.50 | -9.2200 | -22,680.57 | -14.7400 | -20,443.15 | -14.5900 |
| NYSE American LLC (AMEX) | 1.77 | 0.00 | 0.08 | 0.13 | 1.55 | 0.00 | 0.0000 | 1,480.22 | 2.1700 | 548.95 | 1.4000 | -175.92 | -0.2500 |
| Nasdaq PHLX, LLC (PHLX) | 1.49 | 0.00 | 0.08 | 0.13 | 1.27 | -2.70 | -0.0100 | -12,408.42 | -12.7700 | -841.59 | -1.4700 | -122.14 | -0.1400 |
| MIAX PEARL LLC (MPRL) | 0.56 | 0.00 | 0.15 | 0.41 | 0.01 | 0.00 | 0.0000 | -64,719.36 | -50.9400 | 5,534.62 | 10.8300 | 62.20 | 15.6300 |
| Nasdaq GEMX, LLC (ISEG) | 0.46 | 0.00 | 0.18 | 0.28 | 0.00 | 0.00 | 0.0000 | -60,510.38 | -52.7800 | 4,965.98 | 13.0800 | 38.33 | 20.0700 |
| NASDAQ BX Options (NBXO) | 0.29 | 0.00 | 0.15 | 0.13 | 0.00 | 0.00 | 0.0000 | 19,419.12 | 42.4800 | -3,293.99 | -13.3800 | 31.62 | 38.1000 |

Material Aspects:

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/us_options_rate_card_202007.xlsx

NASDAQ Options Market LLC (NDOE):

NDOE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: http://nasdaq.cchwallstreet.com/nasdaq/main/nasdaq-lcrules/chp_1_1/chp_1_1_3/chp_1_1_3_3/default.asp

Information reflecting the NDOE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_options_rate_card_202007.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/us_options_rate_card_202007.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:
http://ise.cchwallstreet.com/contents/ise/ise-rules/chp_1_1/chp_1_1_22/default.asp

Information reflecting the ISOE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_options_rate_card_202007.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/us_options_rate_card_202007.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/us_options_rate_card_202007.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:
http://nasdaqomxphlx.cchwallstreet.com/nasdaqphlx/phlx/phlx-llrules/chp_1_1/chp_1_1_3/

Information reflecting the PHLX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_options_rate_card_202007.xlsx

MIAX PEARL LLC (MPRL):

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

Information reflecting the MPRL's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_options_rate_card_202007.xlsx

Nasdaq GEMX, LLC (ISEG):

ISEG has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
http://nasdaqgemx.cchwallstreet.com/contents/gemx/nasdaq-gemx-rules/chp_1_1/chp_1_1_2/

Information reflecting the ISEG's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_options_rate_card_202007.xlsx

NASDAQ BX Options (NBXO):

NBXO has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
http://nasdaqbx.cchwallstreet.com/nasdaqbx/main/bx-incrules/chp_1_1/chp_1_1_3/chp_1_1_3_2

Information reflecting the NBXO's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_options_rate_card_202007.xlsx

August 2020

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 |
|--|---|---|---|--|
| 0.11 | 2.04 | 28.83 | 43.39 | 25.72 |

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) |
|-------------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| The Nasdaq Stock Market LLC. (XNAS) | 33.50 | 0.82 | 12.64 | 11.39 | 8.63 | -66.30 | -7.2100 | -4,401.01 | -29.4500 | 592.00 | 25.8900 | -597.62 | -16.0900 |
| New York Stock Exchange LLC. (NYSE) | 25.10 | 1.22 | 2.37 | 15.31 | 6.19 | -49.19 | -2.6400 | -2,225.36 | -23.6100 | 439.44 | 16.8900 | -225.84 | -12.8900 |
| NASDAQ OMX BX. (BOSE) | 6.21 | 0.00 | 2.16 | 2.44 | 1.60 | 0.00 | 0.0000 | 154.85 | 11.0500 | -671.45 | -29.9900 | -109.56 | -22.5100 |
| CBOE EDGA Exchange (EDGA) | 6.03 | 0.00 | 2.06 | 2.48 | 1.48 | 0.00 | 0.0000 | 413.13 | 18.0400 | -557.84 | -25.8200 | -301.21 | -19.3500 |
| CBOE EDGX Exchange (EDGX) | 5.91 | 0.00 | 2.51 | 1.97 | 1.42 | 0.00 | 0.0000 | -3,367.87 | -26.8200 | 630.11 | 19.8100 | -111.40 | -17.1600 |
| Investors Exchange LLC (IEXG) | 5.04 | 0.00 | 1.70 | 2.05 | 1.29 | 0.00 | 0.0000 | -286.81 | -9.2400 | -63.39 | -3.1000 | -15.84 | -5.4400 |
| NYSE Arca, Inc. (ARCA) | 4.65 | 0.00 | 1.92 | 1.60 | 1.12 | 0.00 | 0.0000 | -1,370.08 | -25.7800 | 245.43 | 19.8300 | -122.88 | -27.6600 |
| CBOE BYX Exchange (BATY) | 4.25 | 0.00 | 0.79 | 2.17 | 1.27 | 0.00 | 0.0000 | 131.58 | 14.4600 | -418.44 | -18.9800 | -177.21 | -16.1500 |
| CBOE BZX Exchange (BATS) | 4.19 | 0.00 | 1.79 | 1.45 | 0.94 | 0.00 | 0.0000 | -3,800.76 | -29.8800 | 170.10 | 23.1900 | -226.65 | -28.7900 |
| Nasdaq PHLX, LLC (XPHL) | 2.73 | 0.00 | 0.59 | 1.30 | 0.83 | 0.00 | 0.0000 | -1,453.33 | -24.7000 | 99.90 | 19.9300 | -6.89 | -1.8100 |

Material Aspects:

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://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2>

Information reflecting XNAS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_equities_rate_card_202008.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/us_equities_rate_card_202008.xlsx

NASDAQ OMX BX. (BOSE):

BOSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
http://nasdaqbx.cchwallstreet.com/nasdaqbx/main/bx-incrules/chp_1_1/chp_1_1_3/chp_1_1_3_2

Information reflecting the BOSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_equities_rate_card_202008.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/us_equities_rate_card_202008.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/us_equities_rate_card_202008.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/us_equities_rate_card_202008.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/us_equities_rate_card_202008.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/us_equities_rate_card_202008.xlsx

Nasdaq PHLX, LLC (XPHL):

XPHL has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
http://nasdaqphlx.cchwallstreet.com/nasdaqphlx/phlx/phlx-lcrules/chp_1_1/

Information reflecting the XPHL's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_equities_rate_card_202008.xlsx

August 2020

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 |
|--|---|---|---|--|
| 0.10 | 2.69 | 24.56 | 48.25 | 24.48 |

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) |
|-------------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| The Nasdaq Stock Market LLC. (XNAS) | 28.07 | 0.96 | 8.74 | 13.21 | 5.15 | -156.77 | -7.6500 | -8,564.93 | -25.6200 | 2,438.25 | 22.6700 | -1,744.59 | -21.6100 |
| New York Stock Exchange LLC. (NYSE) | 18.25 | 1.13 | 2.48 | 11.24 | 3.37 | -76.94 | -2.6300 | -4,117.19 | -20.7900 | 1,160.18 | 14.2600 | -574.81 | -13.2700 |
| NYSE Arca, Inc. (ARCA) | 16.25 | 0.57 | 2.49 | 7.62 | 5.56 | -281.95 | -15.0000 | -4,082.16 | -25.8000 | 1,102.98 | 18.3000 | -1,344.00 | -20.3900 |
| CBOE EDGX Exchange (EDGX) | 7.00 | 0.00 | 3.04 | 2.04 | 1.92 | 0.00 | 0.0000 | -5,135.56 | -26.2100 | 732.89 | 17.3600 | -896.15 | -20.5300 |
| NASDAQ OMX BX. (BOSE) | 5.84 | 0.00 | 1.69 | 2.62 | 1.52 | 0.00 | 0.0000 | 334.44 | 11.1800 | -1,686.98 | -29.8700 | -124.17 | -6.6800 |
| CBOE EDGA Exchange (EDGA) | 5.82 | 0.00 | 1.52 | 2.72 | 1.57 | 0.00 | 0.0000 | 780.17 | 16.9600 | -1,638.39 | -25.1200 | 187.81 | 8.6900 |
| Investors Exchange LLC (IEXG) | 4.35 | 0.00 | 1.00 | 2.23 | 1.11 | 0.00 | 0.0000 | -400.82 | -9.4000 | -237.20 | -4.5700 | -41.29 | -3.8800 |
| CBOE BZX Exchange (BATS) | 4.34 | 0.00 | 1.71 | 1.44 | 1.17 | -2.00 | -5.0000 | -5,560.37 | -29.5300 | 906.85 | 23.0600 | -1,619.87 | -25.9000 |
| CBOE BYX Exchange (BATY) | 4.21 | 0.00 | 0.44 | 2.56 | 1.19 | 0.00 | 0.0000 | 331.35 | 12.0800 | -710.34 | -14.6700 | 45.03 | 5.3500 |
| Nasdaq PHLX, LLC (XPHL) | 3.15 | 0.00 | 0.74 | 1.48 | 0.92 | 0.00 | 0.0000 | -1,522.47 | -24.9600 | 530.36 | 19.1400 | -551.86 | -21.5700 |

Material Aspects:

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://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2>

Information reflecting XNAS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_equities_rate_card_202008.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/us_equities_rate_card_202008.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/us_equities_rate_card_202008.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/us_equities_rate_card_202008.xlsx

NASDAQ OMX BX. (BOSE):

BOSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
http://nasdaqbx.cchwallstreet.com/nasdaqbx/main/bx-incrules/chp_1_1/chp_1_1_3/chp_1_1_3_2

Information reflecting the BOSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_equities_rate_card_202008.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/us_equities_rate_card_202008.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/us_equities_rate_card_202008.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/us_equities_rate_card_202008.xlsx

Nasdaq PHLX, LLC (XPHL):

XPHL has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
http://nasdaqphlx.cchwallstreet.com/nasdaqphlx/phlx/phlx-lcrules/chp_1_1/

Information reflecting the XPHL's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_equities_rate_card_202008.xlsx

August 2020

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 |
|--|---|---|---|--|
| 19.78 | 0.00 | 3.52 | 89.90 | 6.56 |

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) |
|----------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| CBOE BZX Options Exchange (BATO) | 68.95 | 0.00 | 1.56 | 67.38 | 0.00 | 0.00 | 0.0000 | -255,625.65 | -59.2100 | 65,596.25 | 21.1300 | -120.55 | -26.6100 |
| NASDAQ | 17.37 | 0.00 | 0.57 | 16.80 | 0.00 | 0.00 | 0.0000 | -145,528.19 | -51.0900 | 26,745.17 | 21.8900 | -61.82 | -11.6600 |

| 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) |
|---------------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| Options Market LLC (NDOE) | | | | | | | | | | | | | |
| NYSE Arca, Inc. (PCOE) | 5.35 | 0.00 | 0.11 | 2.86 | 2.37 | -76.10 | -0.8700 | -34,366.96 | -59.6000 | 41,312.81 | 24.6800 | 3,319.70 | 1.8300 |
| Nasdaq ISE, LLC (ISOE) | 2.25 | 0.00 | 0.07 | 0.20 | 1.98 | 3,499.50 | 17.7300 | -34,033.73 | -39.7000 | 11,993.56 | 18.8800 | 89,864.80 | 31.8900 |
| CBOE Options Exchange (XCBO) | 1.54 | 0.00 | 0.19 | 0.30 | 1.04 | -351.24 | -3.2000 | -15,110.90 | -15.2800 | -19,831.65 | -13.2400 | -25,847.06 | -16.1400 |
| NYSE American LLC (AMEX) | 0.94 | 0.00 | 0.08 | 0.19 | 0.66 | 0.00 | 0.0000 | 1,375.72 | 2.1100 | 403.41 | 1.0900 | -15.80 | -0.0200 |
| Nasdaq PHLX, LLC (PHLX) | 0.74 | 0.00 | 0.07 | 0.17 | 0.50 | -0.30 | 0.0000 | -6,575.70 | -10.4600 | -760.29 | -1.8800 | -22.47 | -0.0200 |
| MIAX PEARL LLC (MPRL) | 0.72 | 0.00 | 0.17 | 0.55 | 0.00 | 0.00 | 0.0000 | -51,415.55 | -52.6100 | 4,313.34 | 10.2700 | -83.30 | -32.4100 |
| Nasdaq GEMX, LLC (ISEG) | 0.64 | 0.00 | 0.24 | 0.40 | 0.00 | 0.00 | 0.0000 | -62,252.63 | -52.3900 | 3,862.66 | 12.3000 | -10.96 | -19.5700 |
| CBOE C2 Options Exchange, Inc. (C2OX) | 0.39 | 0.00 | 0.06 | 0.33 | 0.00 | 0.00 | 0.0000 | -30,403.05 | -45.3800 | -16,032.35 | -32.7000 | -228.92 | -66.1600 |

Material Aspects:

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/us_options_rate_card_202008.xlsx

NASDAQ Options Market LLC (NDOE):

NDOE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: http://nasdaq.cchwallstreet.com/nasdaq/main/nasdaq-llcrules/chp_1_1/chp_1_1_3/chp_1_1_3_3/default.asp

Information reflecting the NDOE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_options_rate_card_202008.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/us_options_rate_card_202008.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: http://ise.cchwallstreet.com/contents/ise/ise-rules/chp_1_1/chp_1_1_22/default.asp

Information reflecting the ISOE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_options_rate_card_202008.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/us_options_rate_card_202008.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/us_options_rate_card_202008.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:
http://nasdaqomphlx.cchwallstreet.com/nasdaqphlx/phlx/phlx-lrules/chp_1_1/chp_1_1_3/

Information reflecting the PHLX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_options_rate_card_202008.xlsx

MIAX PEARL LLC (MPRL):

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

Information reflecting the MPRLs tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_options_rate_card_202008.xlsx

Nasdaq GEMX, LLC (ISEG):

ISEG has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
http://nasdaqgemx.cchwallstreet.com/contents/gemx/nasdaq-gemx-rules/chp_1_1/chp_1_1_2/

Information reflecting the ISEG's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_options_rate_card_202008.xlsx

September 2020

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 |
|--|---|---|---|--|
| 0.08 | 3.73 | 20.28 | 46.59 | 29.37 |

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) |
|-------------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| The Nasdaq Stock Market LLC. (XNAS) | 33.50 | 1.38 | 9.30 | 13.06 | 9.74 | -29.38 | -3.4500 | -5,944.24 | -29.6500 | 1,458.80 | 9.0500 | -311.93 | -6.7600 |
| New York | 24.47 | 2.32 | 1.62 | 13.65 | 6.87 | -31.69 | -1.6400 | -2,309.14 | -26.9400 | 459.68 | 5.7900 | -28.89 | -0.7500 |

| 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) |
|---------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| Stock Exchange LLC. (NYSE) | | | | | | | | | | | | | |
| NASDAQ OMX BX. (BOSE) | 6.13 | 0.00 | 1.45 | 3.03 | 1.64 | 0.00 | 0.0000 | 161.83 | 9.4000 | -754.79 | -18.9600 | -392.02 | -27.2700 |
| CBOE EDGA Exchange (EDGA) | 5.82 | 0.00 | 1.22 | 2.82 | 1.77 | 0.00 | 0.0000 | 419.69 | 16.0300 | -1,742.55 | -21.9900 | -592.76 | -22.6200 |
| CBOE EDGX Exchange (EDGX) | 5.74 | 0.00 | 1.83 | 2.21 | 1.69 | 0.00 | 0.0000 | -3,934.97 | -26.7800 | 282.75 | 5.9400 | -109.73 | -15.4300 |
| Investors Exchange LLC (IEXG) | 5.17 | 0.00 | 1.13 | 2.49 | 1.54 | 0.00 | 0.0000 | -111.86 | -5.9900 | -209.15 | -3.6900 | -10.35 | -5.3100 |
| CBOE BZX Exchange (BATS) | 5.13 | 0.01 | 1.33 | 2.70 | 1.08 | -15.14 | -29.1300 | -4,785.68 | -29.9100 | -40.33 | -0.5600 | -102.69 | -7.4800 |
| CBOE BYX Exchange (BATY) | 4.24 | 0.00 | 0.34 | 2.42 | 1.47 | 0.00 | 0.0000 | 266.98 | 12.9500 | -511.60 | -14.4800 | -39.70 | -12.3400 |
| NYSE Arca, Inc. (ARCA) | 4.13 | 0.00 | 1.28 | 1.76 | 1.08 | 0.00 | 0.0000 | -1,722.62 | -29.9000 | 54.37 | 1.7100 | -139.54 | -20.4600 |
| Nasdaq PHLX, LLC (XPHL) | 2.89 | 0.00 | 0.43 | 1.53 | 0.92 | 0.00 | 0.0000 | -1,647.34 | -24.9700 | 249.32 | 6.0800 | 204.96 | 13.0400 |

Material Aspects:

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://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2>

Information reflecting XNAS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_equities_rate_card_202009.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/us_equities_rate_card_202009.xlsx

NASDAQ OMX BX. (BOSE):

BOSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
http://nasdaqbx.cchwallstreet.com/nasdaqbx/main/bx-incrules/chp_1_1/chp_1_1_3/chp_1_1_3_2

Information reflecting the BOSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_equities_rate_card_202009.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/us_equities_rate_card_202009.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/us_equities_rate_card_202009.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/us_equities_rate_card_202009.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/us_equities_rate_card_202009.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/us_equities_rate_card_202009.xlsx

Nasdaq PHLX, LLC (XPHL):

XPHL has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
http://nasdaqphlx.cchwallstreet.com/nasdaqphlx/phlx/phlx-lcrules/chp_1_1/

Information reflecting the XPHL's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_equities_rate_card_202009.xlsx

September 2020

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 |
|--|---|---|---|--|
| 0.09 | 3.39 | 17.41 | 51.63 | 27.54 |

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) |
|-------------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| The Nasdaq Stock Market LLC. (XNAS) | 27.29 | 1.61 | 6.76 | 13.18 | 5.72 | -229.13 | -4.1500 | -8,328.57 | -25.9700 | 60.63 | 0.2900 | -1,577.56 | -15.4300 |
| New York Stock Exchange LLC. (NYSE) | 18.14 | 1.51 | 2.26 | 10.66 | 3.70 | -57.17 | -1.6400 | -4,227.89 | -19.4800 | 1,672.67 | 6.5900 | -377.69 | -12.3600 |
| NYSE Arca, Inc. (ARCA) | 16.01 | 0.21 | 1.70 | 8.53 | 5.55 | -134.44 | -15.0000 | -4,092.30 | -28.7600 | -670.52 | -6.4800 | -1,355.96 | -18.1200 |

| Venue - Non-directed Order Flow | Non-Directed Orders (%) | Market Orders (%) | Marketable Limit Orders (%) | Non-Marketable Limit Orders (%) | Other Orders (%) | Net Payment Paid/Received for Market Orders(USD) | Net Payment Paid/Received for Market Orders(cents per hundred shares) | Net Payment Paid/Received for Marketable Limit Orders(USD) | Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/Received for Non-Marketable Limit Orders(USD) | Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/Received for Other Orders(USD) | Net Payment Paid/Received for Other Orders(cents per hundred shares) |
|---------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| CBOE EDGX Exchange (EDGX) | 6.39 | 0.00 | 1.83 | 2.50 | 2.05 | 0.00 | 0.0000 | -4,990.78 | -26.6300 | 1,065.47 | 6.3600 | -957.90 | -19.3500 |
| CBOE BZX Exchange (BATS) | 5.66 | 0.02 | 1.15 | 3.01 | 1.46 | -15.08 | -6.9200 | -5,865.18 | -29.2900 | -218.37 | -2.1100 | -1,473.81 | -24.3200 |
| CBOE EDGA Exchange (EDGA) | 5.28 | 0.00 | 0.95 | 2.89 | 1.43 | 0.00 | 0.0000 | 849.71 | 16.1900 | -3,160.46 | -22.8300 | -101.36 | -4.6500 |
| NASDAQ OMX BX. (BOSE) | 5.16 | 0.00 | 0.96 | 2.76 | 1.43 | 0.00 | 0.0000 | 298.85 | 10.7600 | -3,030.35 | -26.9700 | -362.76 | -15.8600 |
| Investors Exchange LLC (IEXG) | 4.44 | 0.00 | 0.70 | 2.34 | 1.39 | 0.00 | 0.0000 | -262.99 | -6.8000 | -374.04 | -4.3600 | -60.88 | -3.6200 |
| CBOE BYX Exchange (BATY) | 4.21 | 0.00 | 0.31 | 2.61 | 1.28 | 0.00 | 0.0000 | 329.90 | 13.3400 | -1,602.45 | -17.1300 | -4.52 | -0.5500 |
| Nasdaq PHLX, LLC (XPHL) | 2.87 | 0.00 | 0.42 | 1.53 | 0.91 | 0.00 | 0.0000 | -1,693.71 | -25.0700 | 557.82 | 10.1100 | -304.28 | -16.0700 |

Material Aspects:

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://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2>

Information reflecting XNAS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_equities_rate_card_202009.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/us_equities_rate_card_202009.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/us_equities_rate_card_202009.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/us_equities_rate_card_202009.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/us_equities_rate_card_202009.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/us_equities_rate_card_202009.xlsx

NASDAQ OMX BX. (BOSE):

BOSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
http://nasdaqbx.cchwallstreet.com/nasdaqbx/main/bx-incrules/chp_1_1/chp_1_1_3/chp_1_1_3_2

Information reflecting the BOSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_equities_rate_card_202009.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/us_equities_rate_card_202009.xlsx

Nasdaq PHLX, LLC (XPHL):

XPHL has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
http://nasdaqphlx.cchwallstreet.com/nasdaqphlx/phlx/phlx-lcrules/chp_1_1/

Information reflecting the XPHL's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_equities_rate_card_202009.xlsx

September 2020

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 |
|--|---|---|---|--|
| 13.77 | 0.02 | 2.39 | 93.32 | 4.25 |

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) |
|----------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| CBOE BZX Options Exchange (BATO) | 75.85 | 0.00 | 1.11 | 74.73 | 0.00 | 0.00 | 0.0000 | -262,318.85 | -57.2100 | 129,789.01 | 33.2200 | -350.26 | -6.7800 |
| NASDAQ Options Market LLC (NDOE) | 15.15 | 0.00 | 0.38 | 14.76 | 0.00 | 0.00 | 0.0000 | -148,428.13 | -51.2300 | 30,375.52 | 23.2100 | -77.64 | -18.8000 |
| NYSE Arca, Inc. (PCOE) | 3.50 | 0.00 | 0.08 | 2.13 | 1.28 | 1,879.53 | 10.7000 | -29,592.74 | -54.9600 | 55,989.57 | 31.8400 | 23,614.08 | 12.8200 |
| Nasdaq ISE, LLC (ISOE) | 1.49 | 0.00 | 0.05 | 0.10 | 1.31 | 9,656.00 | 24.9400 | -24,130.99 | -39.0800 | 10,386.82 | 15.4100 | 105,587.93 | 33.3200 |
| CBOE Options Exchange | 1.08 | 0.01 | 0.09 | 0.19 | 0.78 | -5,577.28 | -11.5600 | -12,739.96 | -15.3500 | -28,571.87 | -18.1600 | -13,200.08 | -10.1300 |

| 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) |
|---------------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| (XCBO) | | | | | | | | | | | | | |
| Nasdaq PHLX, LLC (PHLX) | 0.61 | 0.00 | 0.05 | 0.08 | 0.47 | -335.70 | -2.7100 | -7,705.83 | -13.0400 | -969.70 | -1.0800 | -186.21 | -0.2000 |
| MIAX PEARL LLC (MPRL) | 0.55 | 0.00 | 0.14 | 0.41 | 0.00 | 0.00 | 0.0000 | -55,883.86 | -51.6000 | 5,810.40 | 12.4500 | -47.95 | -22.51 |
| NYSE American LLC (AMEX) | 0.55 | 0.00 | 0.06 | 0.09 | 0.39 | -64.00 | -0.6900 | 1,015.33 | 2.1400 | 370.35 | 0.8900 | -124.70 | -0.1700 |
| Nasdaq GEMX, LLC (ISEG) | 0.32 | 0.00 | 0.12 | 0.19 | 0.00 | 0.00 | 0.0000 | -55,524.31 | -51.8100 | 4,147.50 | 11.5700 | -75.63 | -21.4900 |
| CBOE C2 Options Exchange, Inc. (C2OX) | 0.28 | 0.00 | 0.04 | 0.24 | 0.00 | 0.00 | 0.0000 | -32,114.25 | -44.8900 | -13,343.91 | -26.8700 | -37.19 | -19.78 |

Material Aspects:

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/us_options_rate_card_202009.xlsx

NASDAQ Options Market LLC (NDOE):

NDOE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: http://nasdaq.cchwallstreet.com/nasdaq/main/nasdaq-llcrules/chp_1_1/chp_1_1_3/chp_1_1_3_3/default.asp

Information reflecting the NDOE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_options_rate_card_202009.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/us_options_rate_card_202009.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: http://ise.cchwallstreet.com/contents/ise/ise-rules/chp_1_1/chp_1_1_22/default.asp

Information reflecting the ISOE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_options_rate_card_202009.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/us_options_rate_card_202009.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:
http://nasdaqomxphlx.cchwallstreet.com/nasdaqphlx/phlx/phlx-lcrules/chp_1_1/chp_1_1_3/

Information reflecting the PHLX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_options_rate_card_202009.xlsx

MIAX PEARL LLC (MPRL):

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

Information reflecting the MPRLs tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_options_rate_card_202009.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/us_options_rate_card_202009.xlsx

Nasdaq GEMX, LLC (ISEG):

ISEG has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
http://nasdaqgemx.cchwallstreet.com/contents/gemx/nasdaq-gemx-rules/chp_1_1/chp_1_1_2/

Information reflecting the ISEG's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance/Rule606/us_options_rate_card_202009.xlsx