JHDA - 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 |
|---|--|--|--|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Venues

| | eceived for Non- Aarketable Limit Orders(USD) Received for Non- Marketable Limit Orders(cents per hundred shares) Orders(USD) | Net Payment Paid/ Received for Other Orders(cents per hundred shares) |
|--|---|--|
|--|---|--|

Material Aspects:

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 |
|---|--|--|--|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Venues

| Cilaco | | | | | | | | | | | | | |
|--------------------------------------|--------------------------------|-------------------------|-----------------------------------|---|------------------------|--|---|--|---|---|--|---|--|
| Venue - Non- directed Order | Non- Directed Orders (%) | Market Orders (%) | Marketable Limit Orders (%) | Non- Marketable Limit Orders (%) | Other Orders (%) | Net Payment Paid/Received for Market Orders(USD) | Net Payment Paid/ Received for Market Orders(cents per hundred shares) | Net Payment Paid/ Received for Marketable Limit Orders(USD) | Net Payment Paid/ Received for Marketable Limit Orders(cents per | Net Payment Paid/ Received for Non- Marketable Limit Orders(USD) | Net Payment Paid/ Received for Non- Marketable Limit Orders(cents per | Net Payment Paid/Received for Other Orders(USD) | Net Payment Paid/ Received for Other Orders(cents per hundred shares) |
| Flow | | | | (.5) | | 0.40.0(002) | nanaroa onaroo) | 0.40.0(002) | hundred shares) | 0.00.0(002) | hundred shares) | 0.40.0(002) | nanara anaras, |

Material Aspects:

April 2023

Options

Summary

| Non-Directed Orders as % of All Orders | as % of All Orders Non-Directed Orders | | Non-Marketable Limit Orders as % of Non- Directed Orders | Other Orders as % of Non-Directed Orders |
|---|--|------|--|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Venues

| Venue - Non- directed Order Flow | Non- Directed Orders 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) |
|--|---|-----------------------------------|---|------------------------|---|---|--|--|---|---|--|--|
|--|---|-----------------------------------|---|------------------------|---|---|--|--|---|---|--|--|

Material Aspects:

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 |
|---|--|--|--|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Venues

| Venue - Non- directed Order Flow | Non- Directed Orders (%) | Market Orders (%) | Marketable Limit Orders (%) | Non- Marketable Limit Orders (%) | Other Orders (%) | Net Payment Paid/Received for Market Orders(USD) | Net Payment Paid/ Received for Market Orders(cents per hundred shares) | Net Payment Paid/ Received for Marketable Limit Orders(USD) | Net Payment Paid/ Received for Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/ Received for Non- Marketable Limit Orders(USD) | Net Payment Paid/ Received for Non- Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/Received for Other Orders(USD) | Net Payment Paid/ Received for Other Orders(cents per hundred shares) |
|--|--------------------------------|-------------------------|-----------------------------------|---|------------------------|---|---|--|--|---|---|--|--|
|--|--------------------------------|-------------------------|-----------------------------------|---|------------------------|---|---|--|--|---|---|--|--|

Material Aspects:

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 |
|---|---|--|--|--|---|
| Ì | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Venues

| Non- Dire | Non- Directed Orders rders (%) (%) | 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) |
|-----------|--|-----------------------------------|---|------------------------|---|---|--|--|---|---|--|--|
|-----------|--|-----------------------------------|---|------------------------|---|---|--|--|---|---|--|--|

Material Aspects:

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May 2023

Options

Summary

| Non-Directed Orders as % of All Orders | Market Orders as % of Non-Directed Orders | Marketable Limit Orders as % of Non- Directed Orders | Non-Marketable Limit Orders as % of Non- Directed Orders | Other Orders as % of Non-Directed Orders |
|---|--|--|--|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Venues

| Venue - | Non- | Market | Marketable | Non- | Other | Net Payment | Net Payment Paid/ | Net Payment Paid/ | Net Payment Paid/ | Net Payment Paid/ | Net Payment Paid/ | Net Payment | Net Payment Paid/ |
|----------|------------|--------|--------------|--------------|--------|-------------------|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| Non- | Directed | Orders | Limit Orders | Marketable | Orders | Paid/Received for | Received for Market | Received for | Received for | Received for Non- | Received for Non- | Paid/Received for | Received for Other |
| directed | Orders (%) | (%) | (%) | Limit Orders | (%) | Market | Orders(cents per | Marketable Limit | Marketable Limit | Marketable Limit | Marketable Limit | Other | Orders(cents per |
| Order | | | | (%) | | Orders(USD) | hundred shares) | Orders(USD) | Orders(cents per | Orders(USD) | Orders(cents per | Orders(USD) | hundred shares) |
| Flow | | | | | | , , | | , , | hundred shares) | , , | hundred shares) | ` ′ | ŕ |

Material Aspects:

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 | | |
|---|---|--|--|--|---|--|--|
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |

Venues

| Venue - Non- directed Order Flow | Non- Directed Orders (%) | Market Orders (%) | Marketable Limit Orders (%) | Non- Marketable Limit Orders (%) | Other Orders (%) | Net Payment Paid/Received for Market Orders(USD) | Net Payment Paid/ Received for Market Orders(cents per hundred shares) | Net Payment Paid/ Received for Marketable Limit Orders(USD) | Net Payment Paid/ Received for Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/ Received for Non- Marketable Limit Orders(USD) | Net Payment Paid/ Received for Non- Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/Received for Other Orders(USD) | Net Payment Paid/ Received for Other Orders(cents per hundred shares) |
|--|--------------------------------|-------------------------|-----------------------------------|---|------------------------|---|---|--|--|---|---|--|--|
|--|--------------------------------|-------------------------|-----------------------------------|---|------------------------|---|---|--|--|---|---|--|--|

Material Aspects:

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 |
|---|---|--|--|--|---|
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Venues

| Venue - Non- directed Order Flow | Non- Directed Orders (%) | Market Orders (%) | Marketable Limit Orders (%) | Non- Marketable Limit Orders (%) | Other Orders (%) | Net Payment Paid/Received for Market Orders(USD) | Net Payment Paid/ Received for Market Orders(cents per hundred shares) | Net Payment Paid/ Received for Marketable Limit Orders(USD) | Net Payment Paid/ Received for Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/ Received for Non- Marketable Limit Orders(USD) | Net Payment Paid/ Received for Non- Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/Received for Other Orders(USD) | Net Payment Paid/ Received for Other Orders(cents per hundred shares) |
|--|--------------------------------|-------------------------|-----------------------------------|---|------------------------|---|---|--|--|---|---|--|--|
|--|--------------------------------|-------------------------|-----------------------------------|---|------------------------|---|---|--|--|---|---|--|--|

Material Aspects:

June 2023

Options

Summary

| Non-Directed Orders as % of All Orders Non-Directed Orders | | Marketable Limit Orders as % of Non- Directed Orders | Non-Marketable Limit Orders as % of Non- Directed Orders | Other Orders as % of Non-Directed Orders | | |
|--|------|--|--|---|--|--|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |

Venues

| Venue - Non- directed Order Flow | Non- Directed Orders (%) | Market Orders (%) | Marketable Limit Orders (%) | Non- Marketable Limit Orders (%) | Other Orders (%) | Net Payment Paid/Received for Market Orders(USD) | Net Payment Paid/ Received for Market Orders(cents per hundred shares) | Net Payment Paid/ Received for Marketable Limit Orders(USD) | Net Payment Paid/ Received for Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/ Received for Non- Marketable Limit Orders(USD) | Net Payment Paid/ Received for Non- Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/Received for Other Orders(USD) | Net Payment Paid/ Received for Other Orders(cents per hundred shares) |
|--|--------------------------------|-------------------------|-----------------------------------|---|------------------------|--|---|--|--|---|---|--|--|
|--|--------------------------------|-------------------------|-----------------------------------|---|------------------------|--|---|--|--|---|---|--|--|

Material Aspects: