

July 2020

S&P 500 Stocks
Summary

Total Non-Directed Orders	Non-Directed Orders as % of All Orders	Total Market Orders	Market Orders as % of Non-Directed Orders	Total Marketable Limit Orders
204	100.00	203	99.51	0

Venues

Venue - Non-directed Order Flow	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)
National Financial Services LLC(XSTM)	139	39.94	0	0.00
Citadel Securities LLC(CDRG)	96	27.59	95	51.63
VIRTU Americas LLC(NITE)	66	18.97	66	35.87
Instinet				
BlockCross(BLKX)	24	6.90	0	0.00
Two Sigma Securities, LLC(SOHO)	9	2.59	9	4.89
JANE STREET CAPITAL, LLC(JNST)	6	1.72	6	3.26
G1 Execution Services, LLC(ETMM)	5	1.44	5	2.72
UBS Securities, LLC(UBSS)	3	0.86	3	1.63

July 2020

Non-S&P 500 Stocks
Summary

Total Non-Directed Orders	Non-Directed Orders as % of All Orders	Total Market Orders	Market Orders as % of Non-Directed Orders	Total Marketable Limit Orders
457	100.00	444	97.16	3

Venues

Venue - Non-directed Order Flow	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)
National Financial Services LLC(XSTM)	288	37.84	0	0.00
Citadel Securities LLC(CDRG)	243	31.93	235	54.91
VIRTU Americas LLC(NITE)	130	17.08	128	29.91
Instinet				
BlockCross(BLKX)	32	4.20	0	0.00
G1 Execution Services, LLC(ETMM)	24	3.15	24	5.61
JANE STREET CAPITAL, LLC(JNST)	18	2.37	18	4.21
Two Sigma Securities, LLC(SOHO)	15	1.97	15	3.50
UBS Securities, LLC(UBSS)	8	1.05	8	1.87
Cboe BZX U.S. Equities Exchange(BATS)	2	0.26	0	0.00
Cboe EDGX US Equities Exchange(EDGX)	1	0.13	0	0.00

July 2020

**Option Contracts
Summary**

Total Non-Directed Orders	Non-Directed Orders as % of All Orders	Total Market Orders	Market Orders as % of Non-Directed Orders	Total Marketable Limit Orders
20	100.00	9	45.00	2

Venues

Venue - Non-directed Order Flow	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)
Citadel Securities LLC(CDRG)	9	45.00	6	66.67
Interactive Brokers LLC(IBKR)	3	15.00	0	0.00
Citigroup Global Markets, Inc.(KEXP)	3	15.00	1	11.11
Morgan Stanley & Company LLC(MSCO)	2	10.00	1	11.11
Dash Financial Technologies LLC(DASH)	1	5.00	0	0.00
Susquehanna Capital Group(SUSQ)	1	5.00	1	11.11
Wolverine Execution Services LLC(WEXX)	1	5.00	0	0.00

August 2020

**S&P 500 Stocks
Summary**

Total Non-Directed Orders	Non-Directed Orders as % of All Orders	Total Market Orders	Market Orders as % of Non-Directed Orders	Total Marketable Limit Orders
146	100.00	143	97.95	0

Venues

Venue - Non-directed Order Flow	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)
National Financial Services LLC(XSTM)	89	36.78	0	0.00
Citadel Securities LLC(CDRG)	67	27.69	67	48.55
VIRTU Americas LLC(NITE)	49	20.25	47	34.06
Instinet BlockCross(BLKX)	10	4.13	0	0.00
Two Sigma Securities, LLC(SOHO)	10	4.13	10	7.25
JANE STREET CAPITAL, LLC(JNST)	9	3.72	9	6.52
G1 Execution Services, LLC(ETMM)	3	1.24	3	2.17
NASDAQ Execution Services, LLC(NSDQ)	3	1.24	0	0.00
UBS Securities, LLC(UBSS)	2	0.83	2	1.45

August 2020

Non-S&P 500 Stocks Summary

Total Non-Directed Orders	Non-Directed Orders as % of All Orders	Total Market Orders	Market Orders as % of Non-Directed Orders	Total Marketable Limit Orders
463	100.00	444	95.90	4

Venues

Venue - Non-directed Order Flow	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)
National Financial Services LLC(XSTM)	310	38.08	0	0.00
Citadel Securities LLC(CDRG)	229	28.13	223	51.74
VIRTU Americas LLC(NITE)	156	19.16	148	34.34
Instinet BlockCross(BLKX)	30	3.69	0	0.00
NASDAQ Execution Services, LLC(NSDQ)	23	2.83	0	0.00
Two Sigma Securities, LLC(SOHO)	22	2.70	22	5.10
JANE STREET CAPITAL, LLC(JNST)	19	2.33	19	4.41
G1 Execution Services, LLC(ETMM)	12	1.47	12	2.78
UBS Securities, LLC(UBSS)	8	0.98	7	1.62
Cboe EDGX US Equities Exchange(EDGX)	5	0.61	0	0.00

August 2020

Option Contracts Summary

Total Non-Directed Orders	Non-Directed Orders as % of All Orders	Total Market Orders	Market Orders as % of Non-Directed Orders	Total Marketable Limit Orders
17	100.00	11	64.71	2

Venues

Venue - Non-directed Order Flow	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)
Interactive Brokers LLC(IBKR)	6	35.29	5	45.45
Citadel Securities LLC(CDRG)	5	29.41	4	36.36
Dash Financial Technologies LLC(DASH)	3	17.65	1	9.09
Citigroup Global Markets, Inc.(KEXP)	1	5.88	1	9.09
Susquehanna Capital Group(SUSQ)	1	5.88	0	0.00
Wolverine Execution Services LLC(WEXX)	1	5.88	0	0.00

September 2020

S&P 500 Stocks Summary

Total Non-Directed Orders	Non-Directed Orders as % of All Orders	Total Market Orders	Market Orders as % of Non-Directed Orders	Total Marketable Limit Orders
126	100.00	122	96.83	0

Venues

Venue - Non-directed Order Flow	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)
National Financial Services LLC(XSTM)	88	41.51	0	0.00
Citadel Securities LLC(CDRG)	65	30.66	64	58.18

VIRTU Americas LLC(NITE)	34	16.04	31	28.18
Instinet BlockCross(BLKX)	10	4.72	0	0.00
JANE STREET CAPITAL, LLC(JNST)	6	2.83	6	5.45
G1 Execution Services, LLC(ETMM)	5	2.36	5	4.55
Two Sigma Securities, LLC(SOHO)	4	1.89	4	3.64

September 2020

**Non-S&P 500 Stocks
Summary**

Total Non-Directed Orders	Non-Directed Orders as % of All Orders	Total Market Orders	Market Orders as % of Non-Directed Orders	Total Marketable Limit Orders
354	100.00	339	95.76	2

Venues

Venue - Non- directed Order Flow	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)
National Financial Services LLC(XSTM)	218	37.20	0	0.00
Citadel Securities LLC(CDRG)	183	31.23	174	53.05
VIRTU Americas LLC(NITE)	105	17.92	102	31.10
Instinet BlockCross(BLKX)	24	4.10	0	0.00
JANE STREET CAPITAL, LLC(JNST)	21	3.58	21	6.40

Two Sigma Securities, LLC(SOHO)	14	2.39	13	3.96
G1 Execution Services, LLC(ETMM)	11	1.88	11	3.35
UBS Securities, LLC(UBSS)	7	1.19	7	2.13
Cboe EDGX US Equities Exchange(EDGX)	1	0.17	0	0.00
NASDAQ Execution Services, LLC(NSDQ)	1	0.17	0	0.00

September 2020

Option Contracts Summary

Total Non-Directed Orders	Non-Directed Orders as % of All Orders	Total Market Orders	Market Orders as % of Non-Directed Orders	Total Marketable Limit Orders
37	100.00	28	75.68	5

Venues

Venue - Non-directed Order Flow	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)
Interactive Brokers LLC(IBKR)	14	37.84	6	21.43
Citadel Securities LLC(CDRG)	10	27.03	10	35.71
Susquehanna Capital Group(SUSQ)	6	16.22	6	21.43
Dash Financial Technologies LLC(DASH)	5	13.51	5	17.86
Morgan Stanley & Company LLC(MSCO)	1	2.70	1	3.57

**Wolverine Execution
Services LLC(WEXX)**

1

2.70

0

0.00

Marketable Limit Orders as % of Non- Directed Orders	Total Non-Marketable Limit Orders	Non-Marketable Limit Orders as % of Non-Directed Orders
0.66	4	0.88

Marketable Limit Orders	Marketable Limit Orders(%)	Non-Marketable Limit Orders
0	0.00	0
1	33.33	1
2	66.67	0
0	0.00	0
0	0.00	0
0	0.00	0
0	0.00	0
0	0.00	0
0	0.00	2
0	0.00	1

Marketable Limit Orders as % of Non-Directed Orders	Total Non-Marketable Limit Orders	Non-Marketable Limit Orders as % of Non-Directed Orders
10.00		9 45.00

Marketable Limit Orders	Marketable Limit Orders(%)	Non-Marketable Limit Orders
0		0.00 3
1		50.00 2
0		0.00 2
1		50.00 0
0		0.00 1
0		0.00 0
0		0.00 1

Marketable Limit Orders as % of Non-Directed Orders	Total Non-Marketable Limit Orders	Non-Marketable Limit Orders as % of Non-Directed Orders
0.00		1 0.68

Marketable Limit Orders	Marketable Limit Orders(%)	Non-Marketable Limit Orders	
	0	0.00	0
	0	0.00	0
	0	0.00	0
	0	0.00	0
	0	0.00	0
	0	0.00	0
	0	0.00	0
	0	0.00	3
	0	0.00	0

Marketable Limit Orders as % of Non-Directed Orders	Total Non-Marketable Limit Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	
0.86		4	0.86

Marketable Limit Orders	Marketable Limit Orders(%)	Non-Marketable Limit Orders	
0		0.00	0
0		0.00	0
4		100.00	0
0		0.00	0
0		0.00	23
0		0.00	0
0		0.00	0
0		0.00	0
0		0.00	0
0		0.00	5

Marketable Limit Orders as % of Non-Directed Orders	Total Non-Marketable Limit Orders	Non-Marketable Limit Orders as % of Non-Directed Orders
11.76	4	23.53

Marketable Limit Orders	Marketable Limit Orders(%)	Non-Marketable Limit Orders	
	1	50.00	0
	0	0.00	1
	0	0.00	2
	0	0.00	0
	1	50.00	0
	0	0.00	1

Marketable Limit Orders as % of Non-Directed Orders	Total Non-Marketable Limit Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	
0.00		0	0.00

Marketable Limit Orders	Marketable Limit Orders(%)	Non-Marketable Limit Orders	
	0	0.00	0
	0	0.00	0

0	0.00	0
0	0.00	0
0	0.00	0
0	0.00	0
0	0.00	0

Marketable Limit Orders as % of Non-Directed Orders
Total Non-Marketable Limit Orders
0.56

Non-Marketable Limit Orders as % of Non-Directed Orders
2
0.56

Marketable Limit Orders
Marketable Limit Orders(%)

Non-Marketable Limit Orders

0	0.00	0
0	0.00	0
2	100.00	0
0	0.00	0
0	0.00	0

0	0.00	0
0	0.00	0
0	0.00	0
0	0.00	1
0	0.00	1

**Marketable Limit
Orders as % of Non-
Directed Orders**

13.51

Total Non-Marketable Limit Orders

**Non-Marketable
Limit Orders as % of
Non-Directed Orders**

4

10.81

**Marketable Limit
Orders**

Marketable Limit Orders(%)

**Non-Marketable
Limit Orders**

5	100.00	3
0	0.00	0
0	0.00	0
0	0.00	0
0	0.00	0

0

0.00

1

Total Other Orders	Other Orders as % of Non-Directed Orders
1	0.49

Non-Marketable Limit Orders(%)	Other Orders	Other Orders(%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)
0.00	139	84.76	0	0
0.00	1	0.61	0	0
0.00	0	0.00	0	0
0.00	24	14.63	0	0
0.00	0	0.00	0	0
0.00	0	0.00	0	0
0.00	0	0.00	0	0
0.00	0	0.00	0	0

	Other Orders as % of
Total Other Orders	Non-Directed Orders
6	1.31

Non-Marketable Limit Orders(%)	Other Orders	Other Orders(%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)
0.00	288	88.34	0	0
25.00	6	1.84	0	0
0.00	0	0.00	0	0
0.00	32	9.82	0	0
0.00	0	0.00	0	0
0.00	0	0.00	0	0
0.00	0	0.00	0	0
0.00	0	0.00	0	0
50.00	0	0.00	0	0
25.00	0	0.00	0	0

	Other Orders as % of
Total Other Orders	Non-Directed Orders
0	0.00

Non-Marketable Limit Orders(%)	Other Orders	Other Orders(%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)
33.33	0	0.00	0	0
22.22	0	0.00	0	0
22.22	0	0.00	0	0
0.00	0	0.00	0	0
11.11	0	0.00	0	0
0.00	0	0.00	0	0
11.11	0	0.00	0	0

	Other Orders as % of
Total Other Orders	Non-Directed Orders
2	1.37

Non-Marketable Limit Orders(%)	Other Orders	Other Orders(%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)
0.00	89	88.12	0	0
0.00	0	0.00	0	0
0.00	2	1.98	0	0
0.00	10	9.90	0	0
0.00	0	0.00	0	0
0.00	0	0.00	0	0
0.00	0	0.00	0	0
100.00	0	0.00	0	0
0.00	0	0.00	0	0

	Other Orders as % of
Total Other Orders	Non-Directed Orders
11	2.38

Non-Marketable Limit Orders(%)	Other Orders	Other Orders(%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)
0.00	310	88.32	0	0
0.00	6	1.71	0	0
0.00	4	1.14	0	0
0.00	30	8.55	0	0
82.14	0	0.00	0	0
0.00	0	0.00	0	0
0.00	0	0.00	0	0
0.00	0	0.00	0	0
0.00	1	0.28	0	0
17.86	0	0.00	0	0

Total Other Orders	Other Orders as % of Non-Directed Orders
0	0.00

Non-Marketable Limit Orders(%)	Other Orders	Other Orders(%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)
0.00	0	0.00	0	0
25.00	0	0.00	0	0
50.00	0	0.00	0	0
0.00	0	0.00	0	0
0.00	0	0.00	0	0
25.00	0	0.00	0	0

Total Other Orders	Other Orders as % of Non-Directed Orders
4	3.17

Non-Marketable Limit Orders(%)	Other Orders	Other Orders(%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)
0.00	88	86.27	0	0
0.00	1	0.98	0	0

0.00	3	2.94	0	0
0.00	10	9.80	0	0
0.00	0	0.00	0	0
0.00	0	0.00	0	0
0.00	0	0.00	0	0

	Other Orders as % of	
Total Other Orders	Non-Directed Orders	
11	3.11	

Non-Marketable Limit Orders(%)	Other Orders	Other Orders(%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)
0.00	218	86.17	0	0
0.00	9	3.56	0	0
0.00	1	0.40	0	0
0.00	24	9.49	0	0
0.00	0	0.00	0	0

0.00	1	0.40	0	0
0.00	0	0.00	0	0
0.00	0	0.00	0	0
33.33	0	0.00	0	0
33.33	0	0.00	0	0

Other Orders as % of
Total Other Orders Non-Directed Orders
 0 0.00

Non-Marketable Limit Orders(%)	Other Orders	Other Orders(%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)
75.00	0	0.00	0	0
0.00	0	0.00	0	0
0.00	0	0.00	0	0
0.00	0	0.00	0	0
0.00	0	0.00	0	0

25.00

0

0.00

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0

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)
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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)
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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)
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

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)
0	0	0	0	0
0	0	0	0	0

0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

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)
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0	0	0	0	0

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)
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
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**Net Payment
Paid/Received for
Other Orders(cents
per hundred shares)**

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**Net Payment
Paid/Received for
Other Orders(cents
per hundred shares)**

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**Net Payment
Paid/Received for
Other Orders(cents
per hundred shares)**

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**Net Payment
Paid/Received for
Other Orders(cents
per hundred shares)**

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**Net Payment
Paid/Received for
Other Orders(cents
per hundred shares)**

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**Net Payment
Paid/Received for
Other Orders(cents
per hundred shares)**

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**Net Payment
Paid/Received for
Other Orders(cents
per hundred shares)**

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**Net Payment
Paid/Received for
Other Orders(cents
per hundred shares)**

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**Net Payment
Paid/Received for
Other Orders(cents
per hundred shares)**

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