

RICD - Held NMS Stocks and Options Order Routing Public Report

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2nd Quarter, 2020

April 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
100.00	1.34	32.28	44.45	21.93

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)
Credit Suisse Securities (USA) (FBCO)	52.00	0.00	50.69	52.34	56.40	0.0000	0.0000	-524.0412	-1.2777	-1,116.2175	-2.7638	-833.9890	-2.9058
ATM EXECUTION LLC (ATMC)	17.09	0.00	16.19	16.71	20.24	0.0000	0.0000	1,107.7068	2.7008	550.8732	1.3640	571.2748	1.9905
Speedroute LLC (SPDR)	12.19	100.00	10.64	13.42	6.63	222.9260	41.4638	199.5399	0.4865	-619.7689	-1.5346	-565.2637	-1.9695
Convergex Execution Services, (ECUT)	9.81	0.00	2.04	12.66	16.09	0.0000	0.0000	3.9475	0.0096	960.8873	2.3792	641.3939	2.2348
Citadel Derivatives Group LLC (CCMX)	5.26	0.00	13.45	2.03	0.07	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CODA (CODA)	2.63	0.00	6.29	1.28	0.13	0.0000	0.0000	995.4920	2.4272	203.3480	0.5035	40.0000	0.1394
Maxim Group LLC (MAXM)	0.55	0.00	0.48	0.88	0.00	0.0000	0.0000	48.9342	0.1193	194.6350	0.4819	0.0000	0.0000
Bats Trading, Inc. (BYXX)	0.38	0.00	0.21	0.55	0.30	0.0000	0.0000	12.7006	0.0310	104.7650	0.2594	56.1269	0.1956
CBOE EDGX Exchange, Inc. (EDGX)	0.07	0.00	0.02	0.07	0.13	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-0.8400	-0.0029
NYSE Arca (ARCA)	0.01	0.00	0.00	0.03	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cboe BZX Exchange, Inc. (BATS)	0.01	0.00	0.00	0.02	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.01	0.00	0.00	0.02	0.00	0.0000	0.0000	0.0000	0.0000	-0.8500	-0.0021	0.0000	0.0000

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)
CLEARPOOL EXECUTION SERVICES, (CPEM)													

Material Aspects:

April 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
100.00	2.13	39.53	40.74	17.61

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)
Speedroute LLC (SPDR)	39.67	100.00	42.72	39.77	25.29	1,176.4060	41.5704	16,853.4801	12.0922	797.2235	0.8676	2,125.8088	2.2891
Credit Suisse Securities (USA) (FBCO)	19.94	0.00	21.91	20.19	17.34	0.0000	0.0000	-524.5395	-0.3764	-1,338.4897	-1.4566	-109.1223	-0.1175
Convergex Execution Services, (ECUT)	16.27	0.00	4.37	20.44	35.32	0.0000	0.0000	-355.6793	-0.2552	2,469.0738	2.6870	2,385.2583	2.5685
ATM EXECUTION LLC (ATMC)	15.23	0.00	14.07	16.01	17.87	0.0000	0.0000	2,019.5720	1.4490	721.4300	0.7851	398.0160	0.4286
CODA (CODA)	3.14	0.00	7.19	0.61	0.30	0.0000	0.0000	1,106.2610	0.7937	92.8180	0.1010	16.5320	0.0178
Bats Trading, Inc. (BYXX)	1.63	0.00	2.43	0.96	1.56	0.0000	0.0000	346.8011	0.2488	563.0211	0.6127	474.4909	0.5109
Citadel Derivatives Group LLC (CCMX)	1.58	0.00	3.42	0.37	0.44	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	31.3200	0.0337
Maxim Group LLC (MAXM)	1.12	0.00	2.30	0.32	0.48	0.0000	0.0000	909.2286	0.6524	34.0641	0.0371	-293.3541	-0.3159
CBOE EDGX Exchange, Inc. (EDGX)	0.66	0.00	1.15	0.31	0.45	0.0000	0.0000	-11.3900	-0.0082	-27.9300	-0.0304	-25.0635	-0.0270
	0.58	0.00	0.20	0.97	0.58	0.0000	0.0000	45.6309	0.0327	-387.3874	-0.4216	-476.0000	-0.5126

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)
CLEARPOOL EXECUTION SERVICES, (CPEM)													
NASDAQ Execution Services LLC (NQBX)	0.08	0.00	0.18	0.01	0.02	0.0000	0.0000	5.8400	0.0042	-26.7300	-0.0291	-8.5000	-0.0092
Cboe BZX Exchange, Inc. (BATS)	0.02	0.00	0.03	0.01	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NASDAQ OMX PHLX LLC (NQPX)	0.01	0.00	0.01	0.01	0.00	0.0000	0.0000	0.2800	0.0002	0.0000	0.0000	0.0000	0.0000
NYSE Arca (ARCA)	0.01	0.00	0.01	0.01	0.00	0.0000	0.0000	-3.4800	-0.0025	0.0000	0.0000	0.0000	0.0000

Material Aspects:

April 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
100.00	0.00	0.00	78.95	21.05

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)
SIG (SIG)	100.00	0.00	0.00	100.00	100.00	0.0000	0.0000	0.0000	0.0000	-75.0000	-9.1019	-30.0000	-9.5847

Material Aspects:

May 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
100.00	2.69	30.11	43.27	23.93

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)
Credit Suisse Securities (USA) (FBCO)	37.16	0.00	32.95	44.59	33.23	0.0000	0.0000	-84.2304	-0.6774	-281.0404	-2.0700	171.6196	1.5628
ATM EXECUTION LLC (ATMC)	19.59	0.00	16.56	19.64	25.52	0.0000	0.0000	302.2884	2.4310	218.3112	1.6080	192.9240	1.7568
Speedroute LLC (SPDR)	15.65	100.00	15.89	14.34	8.23	217.4940	36.2230	111.6563	0.8980	-114.5403	-0.8437	-77.6360	-0.7070
Maxim Group LLC (MAXM)	8.72	0.00	2.15	10.37	15.00	0.0000	0.0000	0.0000	0.0000	320.5832	2.3613	264.4616	2.4082
Citadel Derivatives Group LLC (CCMX)	8.37	0.00	23.10	2.94	0.62	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Convergex Execution Services, (ECUT)	7.55	0.00	7.45	4.49	14.06	0.0000	0.0000	169.5100	1.3632	49.9770	0.3681	73.2850	0.6673
CBOE EDGX Exchange, Inc. (EDGX)	1.60	0.00	0.83	1.90	2.19	0.0000	0.0000	-1.0500	-0.0084	-13.2300	-0.0974	-5.8800	-0.0535
Bats Trading, Inc. (BYXX)	1.20	0.00	0.75	1.61	1.15	0.0000	0.0000	4.8300	0.0388	188.3171	1.3871	28.4096	0.2587
CODA (CODA)	0.10	0.00	0.33	0.00	0.00	0.0000	0.0000	6.0000	0.0483	0.0000	0.0000	0.0000	0.0000
NYSE Arca (ARCA)	0.02	0.00	0.00	0.06	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CLEARPOOL EXECUTION SERVICES, (CPEM)	0.02	0.00	0.00	0.06	0.00	0.0000	0.0000	0.0000	0.0000	-4.3500	-0.0320	0.0000	0.0000

Material Aspects:

May 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
100.00	1.19	43.05	33.15	22.61

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)
Speedroute LLC (SPDR)	43.83	100.00	47.32	44.05	33.92	572.9560	39.6792	13,975.6978	13.6227	1,293.8829	3.0186	1,058.3317	1.0058
Credit Suisse Securities (USA) (FBCO)	17.91	0.00	21.80	15.83	14.48	0.0000	0.0000	679.1913	0.6620	-12.8950	-0.0301	95.3879	0.0906
Convergex Execution Services, (ECUT)	15.33	0.00	11.15	18.51	19.40	0.0000	0.0000	1,492.9630	1.4553	903.3035	2.1074	1,316.2385	1.2509
ATM EXECUTION LLC (ATMC)	13.46	0.00	10.86	14.70	17.33	0.0000	0.0000	724.1256	0.7058	229.0560	0.5344	370.1144	0.3517
Maxim Group LLC (MAXM)	3.88	0.00	0.60	3.99	10.16	0.0000	0.0000	3.7023	0.0036	404.1534	0.9429	-153.2644	-0.1457
Bats Trading, Inc. (BYXX)	1.80	0.00	2.83	0.55	1.78	0.0000	0.0000	155.2393	0.1513	214.9143	0.5014	103.4402	0.0983
Citadel Derivatives Group LLC (CCMX)	1.47	0.00	3.01	0.32	0.30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CBOE EDGX Exchange, Inc. (EDGX)	1.14	0.00	1.23	1.32	0.77	0.0000	0.0000	29.1660	0.0284	122.5474	0.2859	-12.8100	-0.0122
CLEARPOOL EXECUTION SERVICES, (CPEM)	0.54	0.00	0.69	0.45	0.42	0.0000	0.0000	49.8604	0.0486	-144.9489	-0.3382	-586.8400	-0.5577
CODA (CODA)	0.20	0.00	0.22	0.25	0.09	0.0000	0.0000	23.3420	0.0228	2.3100	0.0054	1.1000	0.0010
NASDAQ Execution Services LLC (NQBX)	0.07	0.00	0.12	0.04	0.03	0.0000	0.0000	3.5200	0.0034	0.0000	0.0000	-51.3723	-0.0488
Cboe BZX Exchange, Inc. (BATS)	0.06	0.00	0.15	0.00	0.00	0.0000	0.0000	-16.8000	-0.0164	0.0000	0.0000	0.0000	0.0000
NYSE Arca (ARCA)	0.01	0.00	0.02	0.00	0.00	0.0000	0.0000	-0.0600	-0.0001	0.0000	0.0000	0.0000	0.0000

Material Aspects:

May 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
100.00	0.00	0.00	65.38	34.62

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)
SIG (SIG)	100.00	0.00	0.00	100.00	100.00	0.0000	0.0000	0.0000	0.0000	-157.5000	-8.2331	-75.0000	-7.6531

Material Aspects:

June 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
100.00	0.03	20.93	53.25	25.79

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)
Credit Suisse Securities (USA) (FBCO)	48.65	0.00	44.15	47.82	54.08	0.0000	0.0000	-441.6343	-2.2762	-615.4599	-2.1206	-8.1222	-0.0397
ATM EXECUTION LLC (ATMC)	21.74	0.00	11.70	23.94	25.37	0.0000	0.0000	181.0452	0.9331	486.7092	1.6769	585.9140	2.8631
Speedroute LLC (SPDR)	13.25	100.00	15.54	14.98	7.72	8.0000	26.6667	-430.8233	-2.2205	-1,166.5408	-4.0193	-490.4673	-2.3967
Maxim Group LLC (MAXM)	6.00	0.00	1.92	4.90	11.60	0.0000	0.0000	8.2827	0.0427	349.0434	1.2026	703.4600	3.4375
Citadel Derivatives Group LLC (CCMX)	5.99	0.00	20.74	2.99	0.22	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Convergex Execution Services, (ECUT)	2.46	0.00	5.20	2.37	0.44	0.0000	0.0000	186.1470	0.9594	194.2415	0.6693	7.3500	0.0359
Bats Trading, Inc. (BYXX)	1.13	0.00	0.68	1.86	0.00	0.0000	0.0000	68.0248	0.3506	288.6914	0.9947	0.0000	0.0000
CBOE EDGX Exchange, Inc. (EDGX)	0.60	0.00	0.00	1.00	0.28	0.0000	0.0000	0.0000	0.0000	-16.1700	-0.0557	-2.5200	-0.0123
CLEARPOOL EXECUTION SERVICES, (CPEM)	0.11	0.00	0.00	0.13	0.17	0.0000	0.0000	0.0000	0.0000	-14.4730	-0.0499	-87.9500	-0.4298
CODA (CODA)	0.06	0.00	0.07	0.03	0.11	0.0000	0.0000	0.0000	0.0000	6.3500	0.0219	15.0000	0.0733

Material Aspects:

June 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
100.00	0.63	36.93	33.80	28.65

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)
Speedroute LLC (SPDR)	38.38	100.00	41.45	34.72	37.41	626.9300	35.1781	19,306.7162	13.3887	1,937.7761	2.3990	11,333.2525	5.2028
Credit Suisse Securities (USA) (FBCO)	23.94	0.00	24.86	27.81	18.70	0.0000	0.0000	213.9038	0.1483	-267.9914	-0.3318	447.3344	0.2054
ATM EXECUTION LLC (ATMC)	13.45	0.00	13.14	12.92	14.77	0.0000	0.0000	1,280.7376	0.8882	711.6544	0.8810	848.0016	0.3893
Convergex Execution Services, (ECUT)	12.95	0.00	10.23	12.20	17.63	0.0000	0.0000	2,148.2564	1.4898	2,023.8150	2.5055	4,965.6719	2.2796
CBOE EDGX Exchange, Inc. (EDGX)	3.67	0.00	3.24	4.86	2.88	0.0000	0.0000	-756.6716	-0.5247	-879.8559	-1.0893	-1,586.9311	-0.7285
Maxim Group LLC (MAXM)	3.58	0.00	0.59	4.85	6.02	0.0000	0.0000	-1.3000	-0.0009	1,267.1169	1.5687	511.5419	0.2348
Citadel Derivatives Group LLC (CCMX)	1.79	0.00	3.36	1.32	0.36	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Bats Trading, Inc. (BYXX)	1.51	0.00	2.44	0.70	1.28	0.0000	0.0000	260.9460	0.1810	282.3689	0.3496	312.1448	0.1433
CODA (CODA)	0.24	0.00	0.30	0.36	0.01	0.0000	0.0000	4.8000	0.0033	176.5680	0.2186	9.0000	0.0041
CLEARPOOL EXECUTION SERVICES, (CPEM)	0.21	0.00	0.27	0.18	0.17	0.0000	0.0000	68.6502	0.0476	-77.0804	-0.0954	-222.0000	-0.1019
NASDAQ Execution Services LLC (NQBX)	0.06	0.00	0.09	0.03	0.04	0.0000	0.0000	52.0600	0.0361	20.7900	0.0257	16.5000	0.0076
Choe BZX Exchange, Inc. (BATS)	0.03	0.00	0.02	0.03	0.03	0.0000	0.0000	0.0000	0.0000	-26.4600	-0.0328	-21.0000	-0.0096

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
NYSE Arca (ARCA)	0.01	0.00	0.01	0.02	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Material Aspects:

June 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
100.00	0.00	0.00	100.00	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)
Maxim Group LLC (MAXM)	52.38	0.00	0.00	52.38	0.00	0.0000	0.0000	0.0000	0.0000	-1.1419	-0.1468	0.0000	0.0000
SIG (SIG)	47.62	0.00	0.00	47.62	0.00	0.0000	0.0000	0.0000	0.0000	-5.1000	-0.6555	0.0000	0.0000

Material Aspects: