

October 28 - November 1, 2013

PROGRAM TRADING PURCHASES AND SALES

Trading on NYSE
(Average Daily - Millions)

Current
Week

| | |
|---|---------|
| Total Buy Programs | 193.4 |
| Total Sell Programs | 195.8 |
| Total CS2 Programs | 70.1 |
| Total Programs | 459.4 |
| Total NYSE Volume* | 1,658.6 |
| Program Trading as % of Total NYSE Buy + Sell Volume | 27.7% |

NYSE Program Trading - 20 Most Active Member Firms

(Millions of Shares)

| | Index Arbitrage | Non-Index Arbitrage | Non-CS2 Total | Principal | Agency | Crossing Session 2 | Grand Total |
|--|--------------------|------------------------|------------------|--------------|--------------|-----------------------|----------------|
| MORGAN STANLEY & CO. LLC | - | 291.1 | 291.1 | 81.8 | 209.2 | 20.9 | 312.0 |
| MERRILL LYNCH, PIERCE, FENNER & SMITH | - | 204.6 | 204.6 | 154.1 | 50.4 | 98.5 | 303.0 |
| BARCLAYS CAPITAL INC. | - | 261.4 | 261.4 | 95.2 | 166.2 | 27.7 | 289.2 |
| DEUTSCHE BANK SECURITIES INC. | - | 142.2 | 142.2 | 79.2 | 63.0 | 89.7 | 231.9 |
| GOLDMAN, SACHS & CO. | - | 175.9 | 175.9 | 165.2 | 10.7 | 38.4 | 214.4 |
| SG AMERICAS SECURITIES, LLC | 5.9 | 146.4 | 152.2 | 94.0 | 58.2 | - | 152.2 |
| LATOUR TRADING LLC | - | 145.5 | 145.5 | 145.5 | - | - | 145.5 |
| J.P. MORGAN SECURITIES LLC | - | 110.8 | 110.8 | 50.6 | 60.2 | 6.6 | 117.4 |
| UBS SECURITIES LLC | - | 80.2 | 80.2 | 4.4 | 75.9 | 16.8 | 97.0 |
| CITIGROUP GLOBAL MARKETS INC. | - | 34.2 | 34.2 | 9.7 | 24.6 | 52.1 | 86.3 |
| CREDIT SUISSE SECURITIES (USA) LLC | 1.1 | 76.0 | 77.1 | 58.4 | 18.7 | - | 77.1 |
| INSTINET, LLC | - | 58.1 | 58.1 | 6.1 | 52.1 | - | 58.1 |
| RBC CAPITAL MARKETS, LLC | 7.8 | 40.9 | 48.8 | 48.8 | - | - | 48.8 |
| ITG INC. | - | 40.3 | 40.3 | - | 40.3 | - | 40.3 |
| SIG BROKERAGE, LP | - | 25.8 | 25.8 | - | 25.8 | - | 25.8 |
| SANFORD C. BERNSTEIN & CO., LLC | - | 22.9 | 22.9 | - | 22.9 | - | 22.9 |
| BNP PARIBAS PRIME BROKERAGE, INC. | - | 17.4 | 17.4 | - | 17.4 | - | 17.4 |
| INTERACTIVE BROKERS LLC | 0.4 | 14.9 | 15.3 | - | 15.3 | - | 15.3 |
| ROSENBLATT SECURITIES INC. | - | 15.3 | 15.3 | - | 15.3 | - | 15.3 |
| GOLDMAN SACHS EXECUTION & CLEARING, L.P. | - | 9.3 | 9.3 | - | 9.3 | - | 9.3 |
| Total for 20 Member Firms | 15.2 | 1,913.2 | 1,928.4 | 993.0 | 935.5 | 350.7 | 2,279.2 |
| Total for All Firms Reporting | 15.2 | 1,931.0 | 1,946.2 | 999.5 | 946.9 | 350.7 | 2,297.0 |
| % of Total | 0.7% | 84.1% | 84.7% | 43.5% | 41.2% | 15.3% | 100.0% |

+ Total NYSE volume is the sum of shares bought, sold and sold short on the NYSE, during regular NYSE trading hours, plus crossing session 2.

Totals may not sum exactly due to rounding.

(** See Appendix)

Note 1: NYSE program trading totals include purchases and sales during regular trading hours, plus crossing session 2.

Note 2: Program Trading Totals in this report were compiled from member firms executed volume from NYSE's orders database.

NYSE Strategic Analysis

November 2013