

April 29 - May 3, 2013

**PROGRAM TRADING PURCHASES AND SALES**

Trading on NYSE  
(Average Daily - Millions)

Current  
Week

|   |         |
|---|---------|
| Total Buy Programs                                      | 198.8   |
| Total Sell Programs                                     | 180.6   |
| Total CS2 Programs                                      | 36.8    |
| Total Programs  | 416.2   |
| Total NYSE Volume*                                      | 1,537.8 |
| Program Trading as % of<br>Total NYSE Buy + Sell Volume | 27.1%   |

**NYSE Program Trading - 20 Most Active Member Firms**

(Millions of Shares)

|                                       | Index<br>Arbitrage | Non-Index<br>Arbitrage | Non-CS2<br>Total | Principal    | Agency         | Crossing<br>Session 2 | Grand<br>Total |
|---------------------------------------|--------------------|------------------------|------------------|--------------|----------------|-----------------------|----------------|
| MORGAN STANLEY & CO. LLC              | -                  | 393.2                  | 393.2            | 84.7         | 308.5          | 19.5                  | 412.7          |
| BARCLAYS CAPITAL INC.                 | -                  | 234.0                  | 234.0            | 76.3         | 157.7          | 39.5                  | 273.5          |
| MERRILL LYNCH, PIERCE, FENNER & SMITH | -                  | 141.8                  | 141.8            | 113.2        | 28.6           | 66.3                  | 208.1          |
| GOLDMAN, SACHS & CO.                  | -                  | 133.5                  | 133.5            | 123.7        | 9.8            | 32.5                  | 166.0          |
| LATOUR TRADING LLC                    | -                  | 149.1                  | 149.1            | 149.1        | -              | -                     | 149.1          |
| DEUTSCHE BANK SECURITIES INC.         | -                  | 132.2                  | 132.2            | 43.6         | 88.6           | -                     | 132.2          |
| SG AMERICAS SECURITIES, LLC           | 12.2               | 95.8                   | 108.0            | 77.0         | 30.9           | -                     | 108.0          |
| J.P. MORGAN SECURITIES LLC            | -                  | 84.8                   | 84.8             | 29.1         | 55.7           | -                     | 84.8           |
| CREDIT SUISSE SECURITIES (USA) LLC    | 1.1                | 83.0                   | 84.1             | 60.3         | 23.8           | -                     | 84.1           |
| INSTINET, LLC                         | -                  | 77.2                   | 77.2             | 9.9          | 67.3           | -                     | 77.2           |
| CITIGROUP GLOBAL MARKETS INC.         | -                  | 53.9                   | 53.9             | 2.1          | 51.8           | 21.7                  | 75.6           |
| UBS SECURITIES LLC                    | -                  | 66.5                   | 66.5             | 11.6         | 54.9           | 4.6                   | 71.1           |
| RBC CAPITAL MARKETS, LLC              | 7.9                | 39.5                   | 47.3             | 47.3         | -              | -                     | 47.3           |
| SIG BROKERAGE, LP                     | -                  | 43.2                   | 43.2             | -            | 43.2           | -                     | 43.2           |
| BNP PARIBAS SECURITIES CORP.          | -                  | 32.7                   | 32.7             | -            | 32.7           | -                     | 32.7           |
| INTERACTIVE BROKERS LLC               | 0.1                | 31.5                   | 31.6             | -            | 31.6           | -                     | 31.6           |
| ITG INC.                              | -                  | 26.8                   | 26.8             | -            | 26.8           | -                     | 26.8           |
| WEDBUSH SECURITIES INC.               | -                  | 8.5                    | 8.5              | 8.5          | -              | -                     | 8.5            |
| BNP PARIBAS PRIME BROKERAGE, INC.     | -                  | 7.9                    | 7.9              | -            | 7.9            | -                     | 7.9            |
| TWO SIGMA SECURITIES, LLC             | -                  | 7.7                    | 7.7              | -            | 7.7            | -                     | 7.7            |
| <b>Total for 20 Member Firms</b>      | <b>21.3</b>        | <b>1,842.8</b>         | <b>1,864.0</b>   | <b>836.4</b> | <b>1,027.5</b> | <b>184.1</b>          | <b>2,048.1</b> |
| <b>Total for All Firms Reporting</b>  | <b>21.3</b>        | <b>1,875.3</b>         | <b>1,896.5</b>   | <b>844.4</b> | <b>1,052.1</b> | <b>184.1</b>          | <b>2,080.6</b> |
| <b>% of Total</b>                     | <b>1.0%</b>        | <b>90.1%</b>           | <b>91.2%</b>     | <b>40.6%</b> | <b>50.6%</b>   | <b>8.8%</b>           | <b>100.0%</b>  |

+ 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

May 2013