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FINAL

# Asset Services Sigma- Agent Performance Report

September 2019 Data

# Executive Summary

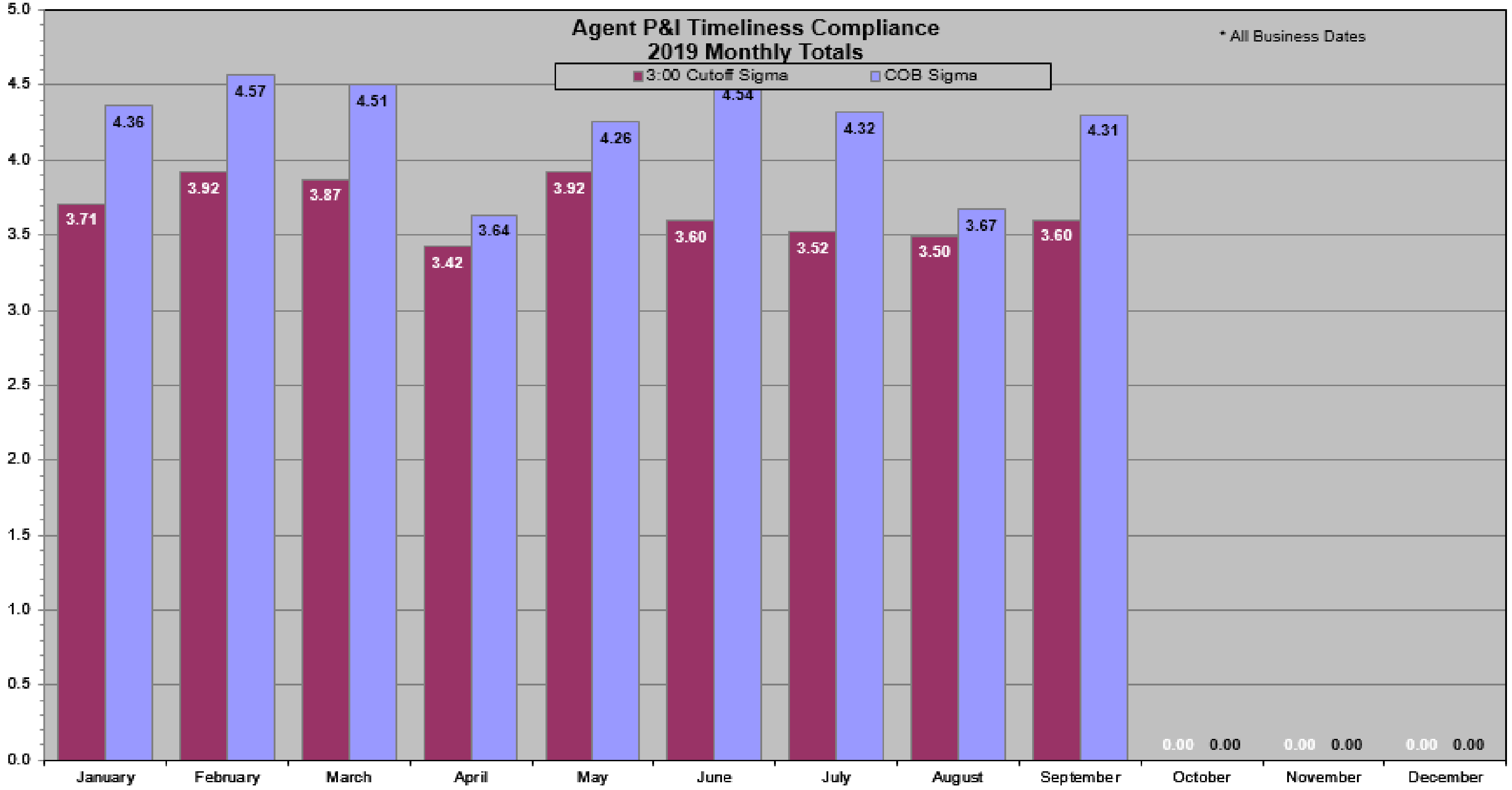
**This report highlights the September 2019 performance of the top agents vs. industry targets. This report focuses on the following metrics:**

**Principal and Interest payment timeliness compliance - percentage of funds received from agents at cut-off (3:00pm ET) and at close of business (6:00pm ET), relative to the total dollars paid for the month. The Agent sigma performance for September 2019 was 3.60σ 98.23%. This month's performance is below the target of 3.67σ (98.50)%.**

**Principal and Interest allocations on payable date - percentage of allocated dollars and CUSIPS, relative to the total expected dollars and CUSIPs allocated. The Agent sigma performance for September 2019 was 4.32σ 99.76%%. This month's performance is above the target of 3.83σ (99.00%).**

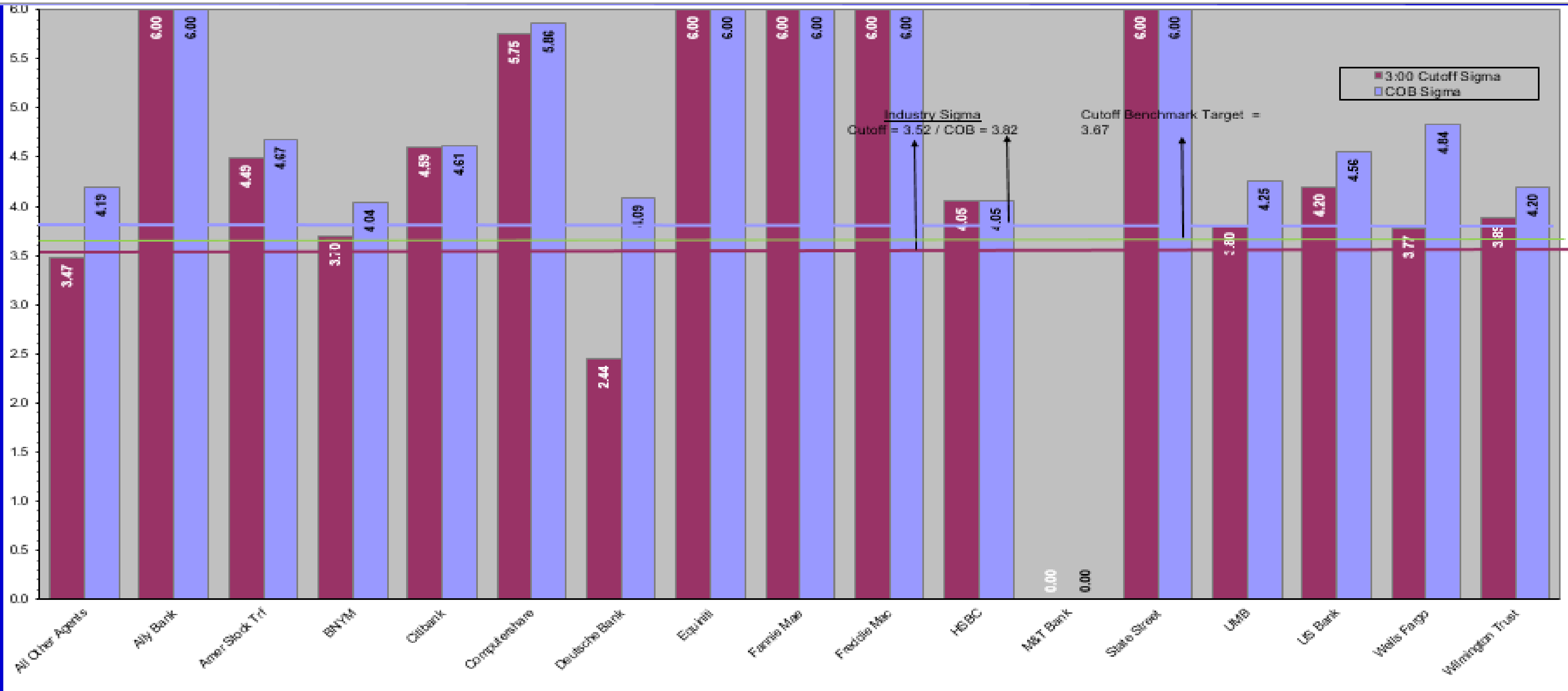
Please visit DTCC's web-site http://dtcc.com/asset-services/asset-services-performance-metrics.aspx for more detailed metric definitions and agent trend charts.

# P&I Allocations Monthly Trend



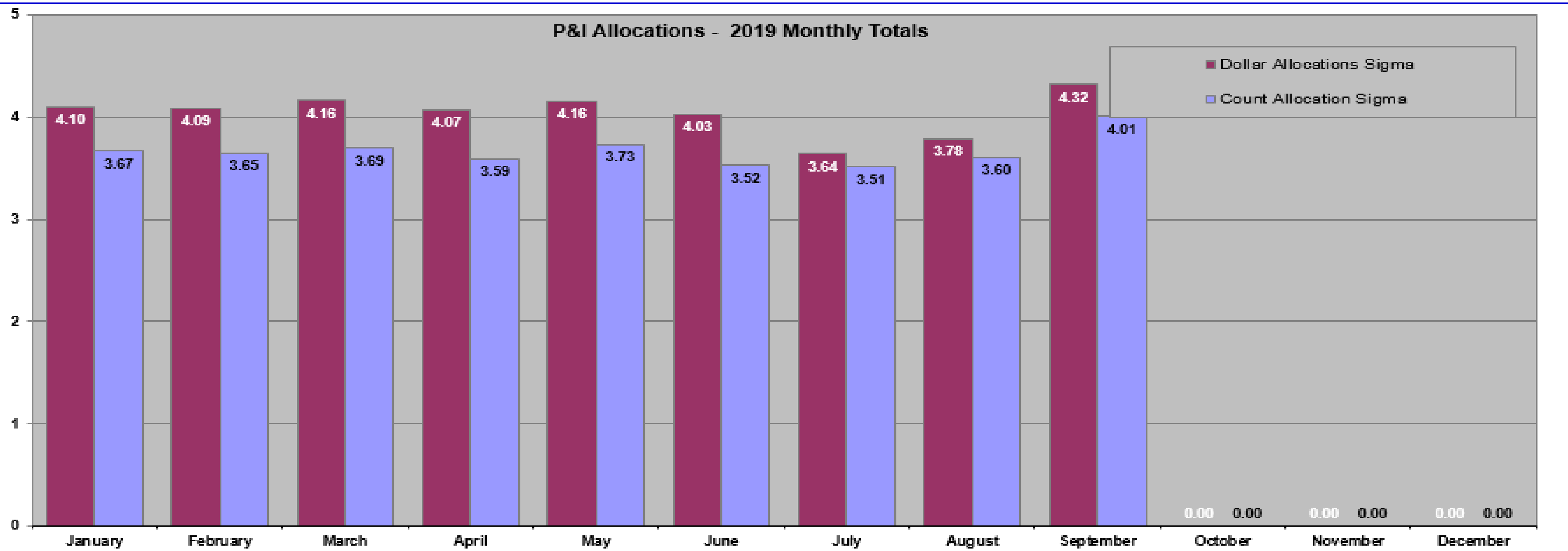

| | January | February | March | April | May | June | July | August | September | October | November | December | YTD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Percent by 3:00 Cut-off | 98.65% | 99.23% | 99.12% | 97.27% | 99.22% | 98.19% | 97.84% | 97.71% | 98.23% | | | | 98.37% |
| Cutoff Sigma | 3.71 | 3.92 | 3.87 | 3.42 | 3.92 | 3.60 | 3.52 | 3.50 | 3.60 | | | | 3.64 |
| Percent by COB | 99.79% | 99.89% | 99.87% | 98.37% | 99.71% | 99.88% | 99.76% | 98.52% | 99.75% | | | | 99.52% |
| COB Sigma | 4.36 | 4.57 | 4.51 | 3.64 | 4.26 | 4.54 | 4.32 | 3.67 | 4.31 | | | | 4.09 |

# P&I Timeliness Compliance – Agent Performance



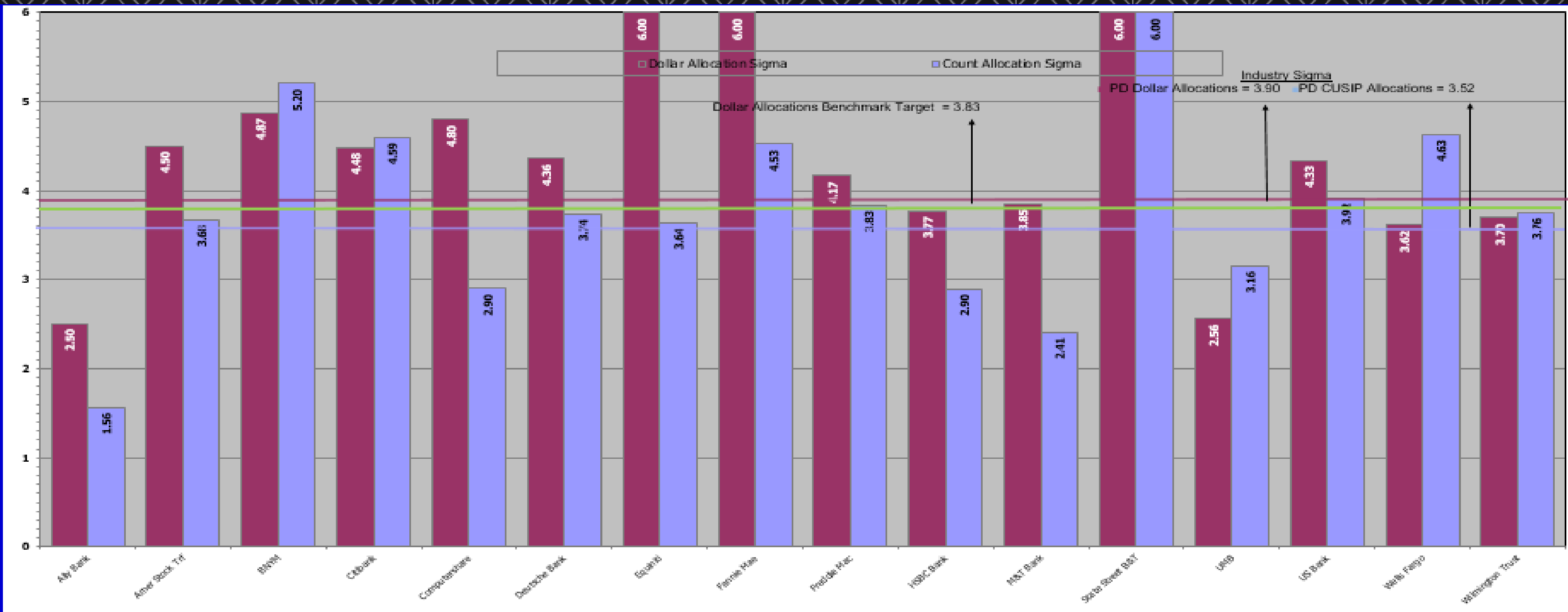

| | All Other Agents | Ally Bank | Amer Stock Trf | BNYM | Citibank | Computer share | Deutsche Bank | Equiniti | Fannie Mae | Freddie Mac | HSBC | M&T Bank | State Street | US Bank | Wells Fargo | Wilmingt on Trust |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % of Total Allocations | 14.12% | 0.12% | 1.32% | 26.55% | 6.89% | 20.82% | 5.37% | 3.70% | 0.08% | 0.92% | 0.47% | 0.00% | 1.87% | 10.14% | 6.02% | 1.43% |
| Percent by 3:00 Cut-off | 97.57% | 100.00% | 99.86% | 98.61% | 99.90% | 100.00% | 82.74% | 100.00% | 100.00% | 100.00% | 99.46% | 0.00% | 100.00% | 99.65% | 98.83% | 99.15% |
| Cutoff Sigma | 3.47 | 6.00 | 4.49 | 3.70 | 4.59 | 5.75 | 2.44 | 6.00 | 6.00 | 6.00 | 4.05 | 0.00 | 6.00 | 4.20 | 3.77 | 3.89 |
| Variance from Industry Cutoff | -0.13 | 2.40 | 0.88 | 0.10 | 0.99 | 2.15 | -1.16 | 2.40 | 2.40 | 2.40 | 0.45 | -3.60 | 2.40 | 0.59 | 0.16 | 0.29 |
| Percent by COB | 99.64% | 100.00% | 99.92% | 99.45% | 99.91% | 100.00% | 99.52% | 100.00% | 100.00% | 100.00% | 99.46% | 0.00% | 100.00% | 99.89% | 99.96% | 99.65% |
| COB Sigma | 4.19 | 6.00 | 4.67 | 4.04 | 4.61 | 5.86 | 4.09 | 6.00 | 6.00 | 6.00 | 4.05 | 0.00 | 6.00 | 4.56 | 4.84 | 4.20 |

# P&I Allocations Monthly Trend




| | January | February | March | April | May | June | July | August | September | October | November | December | YTD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Expected Allocations (Billions) | $273.662 | $258.606 | $333.572 | $281.044 | $304.396 | $351.944 | $324.640 | $307.729 | $400.526 | | | | $2836.120 |
| Allocation $ Percent | 99.54% | 99.52% | 99.61% | 99.49% | 99.60% | 99.42% | 98.37% | 98.88% | 99.76% | | | | 99.36% |
| Allocation $ Sigma | 4.10 | 4.09 | 4.16 | 4.07 | 4.16 | 4.03 | 3.64 | 3.78 | 4.32 | | | | 3.99 |
| Unallocated Impact (Billions $) | $1.272 | $1.253 | $1.296 | $1.423 | $1.204 | $2.032 | $5.288 | $3.437 | $0.964 | | | | $18.169 |
| Total CUSIP Expected | 273,962 | 367,084 | 300,356 | 268,925 | 270,102 | 353,786 | 287,170 | 369,275 | 691,765 | | | | 3,182,425 |
| CUSIP Allocations % | 98.49% | 98.41% | 98.58% | 98.18% | 98.72% | 97.85% | 97.78% | 98.22% | 99.39% | | | | 98.51% |
| CUSIP Allocations Sigma | 3.67 | 3.65 | 3.69 | 3.59 | 3.73 | 3.52 | 3.51 | 3.60 | 4.01 | | | | 3.67 |
| Unallocated Impact (Count) | 4,131 | 5,853 | 4,255 | 4,885 | 3,450 | 7,594 | 6,381 | 6,564 | 4,222 | | | | 47,335 |

# P&I Allocations – Agent Performance




| AGENT | All Other Agents | Ally Bank | Amer Stock Trf | BNYM | Citibank | Computer share | Deutsche Bank | Equiniti | Fannie Mae | Freddie Mac | HSBC Bank | M&T Bank | State Street B&T | US Bank | Wells Fargo | Wilmington Trust |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Expected / % of Industry | $58.522 | $0.562 | $5.358 | $105.675 | $27.313 | $84.305 | $21.255 | $14.960 | $0.331 | $3.727 | $1.211 | $0.004 | $7.571 | $40.300 | $23.667 | $5.514 |
| | 14.60% | 0.14% | 1.34% | 26.36% | 6.81% | 21.03% | 5.30% | 3.73% | 0.08% | 0.93% | 0.30% | 0.00% | 1.89% | 10.05% | 5.90% | 1.38% |
| Allocation $ Percent | 99.43% | 84.16% | 99.87% | 99.96% | 99.86% | 99.95% | 99.79% | 100.00% | 100.00% | 99.62% | 98.85% | 99.06% | 100.00% | 99.77% | 98.28% | 98.60% |
| Allocation $ Sigma | 4.03 | 2.50 | 4.50 | 4.87 | 4.48 | 4.80 | 4.36 | 6.00 | 6.00 | 4.17 | 3.77 | 3.85 | 6.00 | 4.33 | 3.62 | 3.70 |
| Variance from Industry $ Sigma | -0.20 | -1.73 | 0.27 | 0.64 | 0.25 | 0.57 | 0.14 | 1.77 | 1.77 | -0.06 | -0.45 | -0.38 | 1.77 | 0.11 | -0.61 | -0.53 |
| CUSIP Allocations % | 97.20% | 52.38% | 98.52% | 99.99% | 99.90% | 91.97% | 98.75% | 98.39% | 99.88% | 99.02% | 91.90% | 81.82% | 100.00% | 99.22% | 99.91% | 98.80% |
| CUSIP Allocations Sigma | 3.41 | 1.56 | 3.68 | 5.20 | 4.59 | 2.90 | 3.74 | 3.64 | 4.53 | 3.83 | 2.90 | 2.41 | 6.00 | 3.92 | 4.63 | 3.76 |
| Variance from Industry CUSIP Sigma | -0.58 | -2.43 | -0.31 | 1.21 | 0.60 | -1.09 | -0.25 | -0.35 | 0.54 | -0.16 | -1.09 | -1.58 | 2.01 | -0.07 | 0.64 | -0.23 |