DTCC

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FINAL

Asset Services Sigma- Agent Performance Report

May 2020 Data

Executive Summary

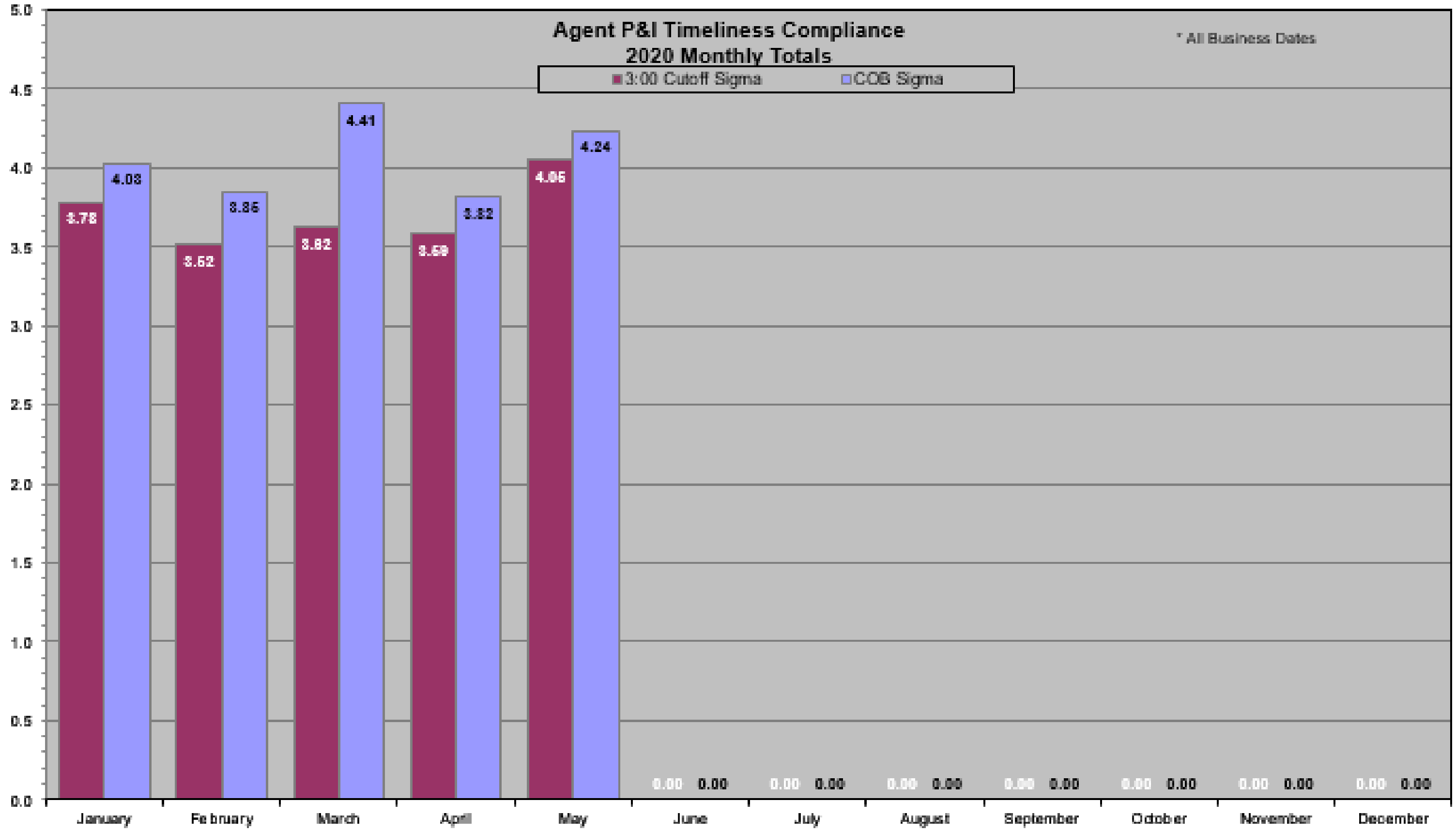
This report highlights the May 2020 performance of the top agents vs. industry targets. This report focuses on the following metrics:

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 May 2020 was 4.05σ 99.46%. This month's performance is above 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 May 2020 4.28σ 99.73%. This month's performance is above the target of 3.83σ (99.00%).

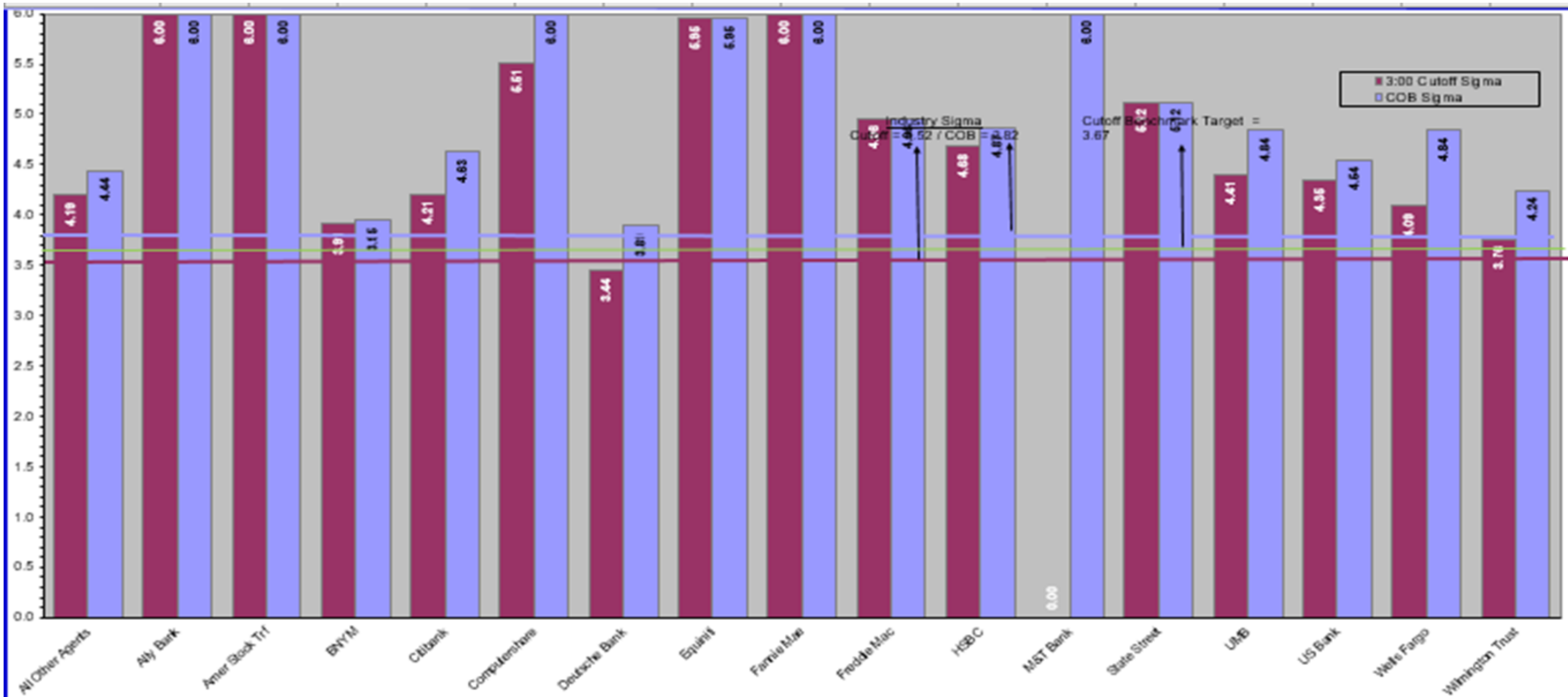
Please visit DTCC's web-site http://dtcc.com/asset-services/asset-services-performance-metrics.aspx for more detailed metric definitions and agent trend charts.

P&I Allocations Monthly Trend



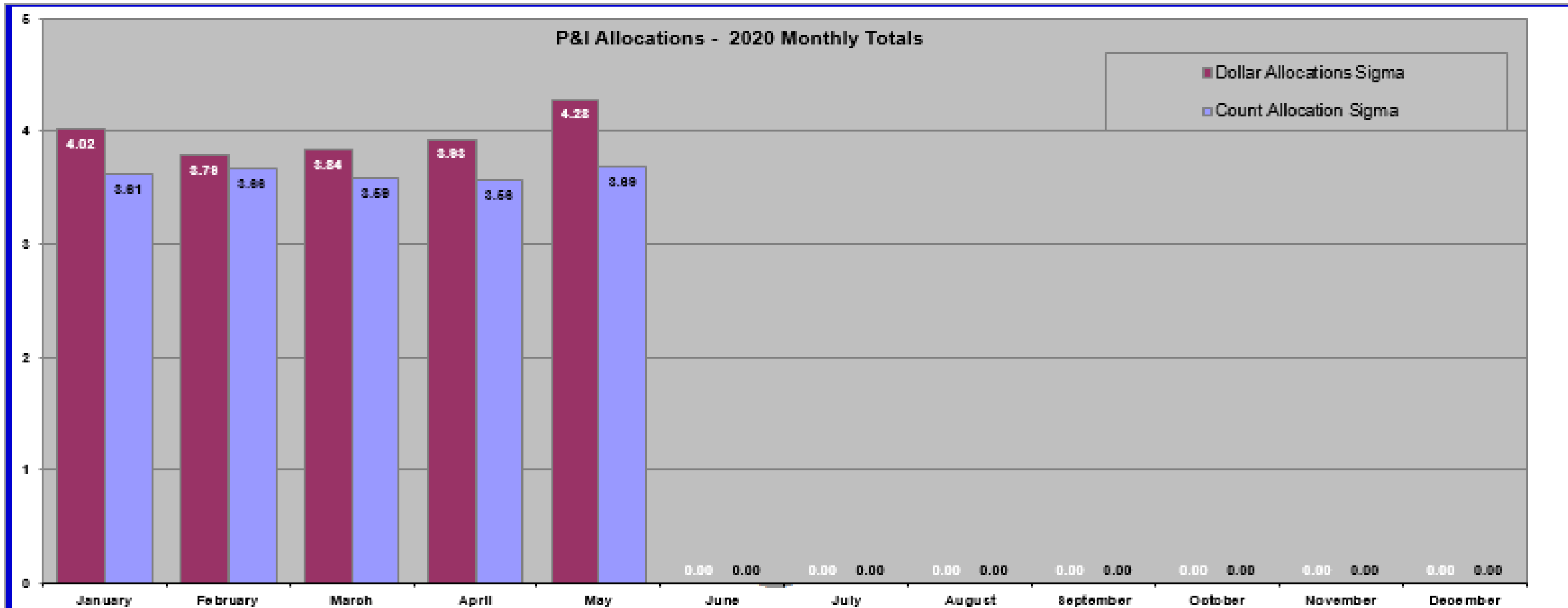
	January	February	March	April	May	June	July	August	September	October	November	December	YTD
Percent by 3:00 Cut-off	98.88%	97.83%	98.32%	98.15%	99.46%								98.53%
Cutoff Sigma	3.78	3.52	3.62	3.59	4.05								3.68
Percent by COB	99.43%	99.07%	99.82%	98.98%	99.69%								99.43%
COB Sigma	4.03	3.85	4.41	3.82	4.24								4.03

P&I Timeliness Compliance – Agent Performance



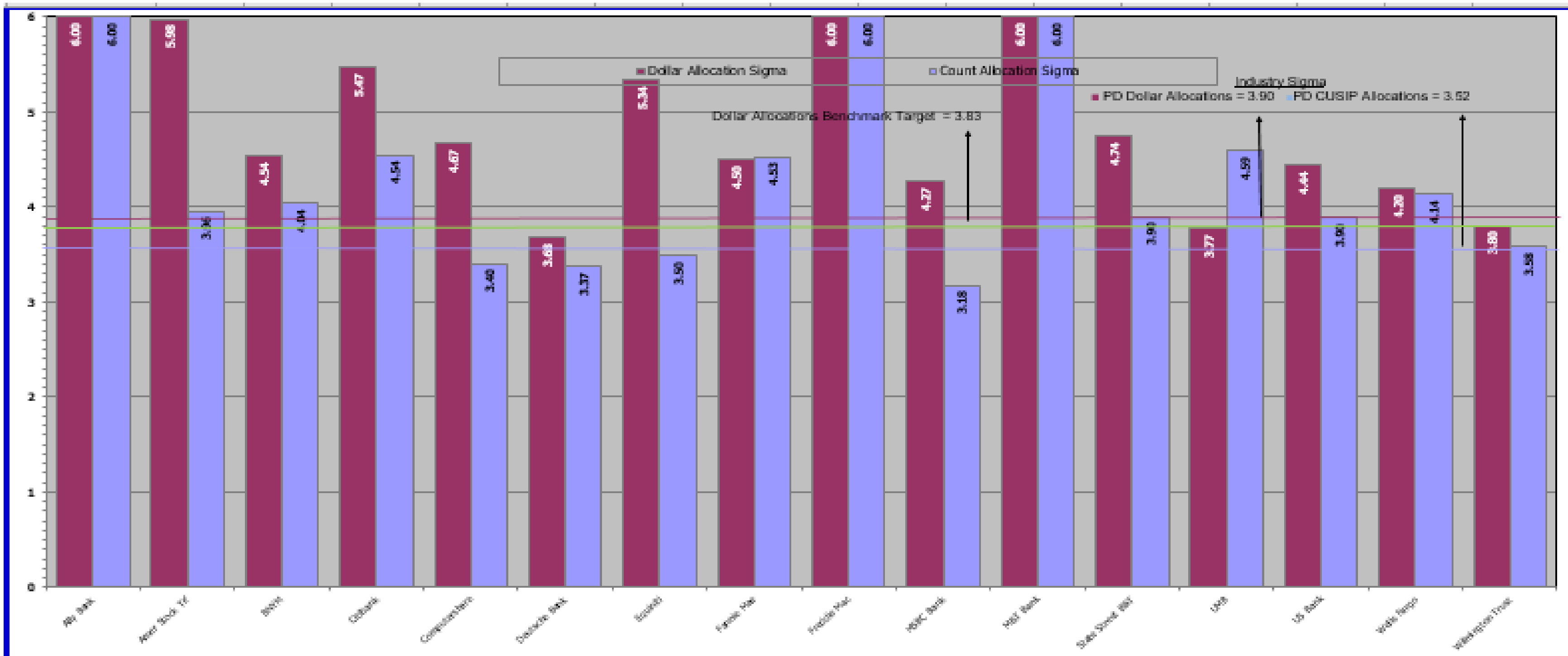
	All Other Agents	Ally Bank	Amer Stock	BNYM	Citibank	Computershare	Deutsche Bank	Equiniti	Fannie Mae	Freddie Mac	HSBC	M&T Bank	State Street	US Bank	Wells Fargo	Wilmington Trust
% of Total Allocations	18.54%	0.21%	1.33%	28.46%	6.51%	8.22%	4.02%	3.22%	0.11%	1.09%	1.17%	0.00%	0.50%	15.22%	7.95%	3.04%
Percent by 3:00 Cut-off	99.65%	100.00%	100.00%	99.20%	99.66%	100.00%	97.41%	100.00%	100.00%	99.97%	99.93%	0.00%	99.99%	99.78%	99.52%	98.81%
Cutoff Sigma	4.19	6.00	6.00	3.91	4.21	5.51	3.44	5.95	6.00	4.96	4.68	0.00	5.12	4.35	4.09	3.76
Variance from Industry Cutoff	0.14	1.94	1.94	-0.15	0.15	1.46	-0.61	1.89	1.94	0.91	0.63	-4.06	1.06	0.29	0.03	-0.29
Percent by COB	99.84%	100.00%	100.00%	99.29%	99.91%	100.00%	99.17%	100.00%	100.00%	99.97%	99.96%	100.00%	99.99%	99.88%	99.96%	99.70%
COB Sigma	4.44	6.00	6.00	3.95	4.63	6.00	3.89	5.95	6.00	4.96	4.87	6.00	5.12	4.54	4.84	4.24

P&I Allocations Monthly Trend



	January	February	March	April	May	June	July	August	September	October	November	December	YTD
Total Expected Allocations (Billions)	$337.341	$288.366	$405.857	$267.961	$288.269								$1587.794
Allocation $ Percent	99.42%	98.90%	99.04%	99.24%	99.73%								99.25%
Allocation $ Sigma	4.02	3.79	3.84	3.93	4.28								3.93
Unallocated Impact (Billions $)	$1.958	$3.170	$3.902	$2.031	$0.786								$11.847
Total CUSIP Expected	274,559	364,811	307,013	265,310	264,778								1,476,471
CUSIP Allocations %	98.28%	98.47%	98.16%	98.04%	98.56%								98.31%
CUSIP Allocations Sigma	3.61	3.66	3.59	3.56	3.69								3.62
Unallocated Impact (Count)	4,736	5,586	5,651	5,193	3,807								24,973

P&I Allocations – Agent Performance



AGENT	All Other Agents	Ally Bank	Amer Stock Trf	BHTM	Citibank	Computershare	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	$55.946	$0.629	$3.918	$80.227	$19.152	$23.876	$11.681	$9.728	$0.315	$2.834	$1.188	$0.009	$1.491	$44.610	$23.230	$8.612
	19.41%	0.22%	1.36%	27.83%	6.64%	8.28%	4.05%	3.37%	0.11%	0.98%	0.41%	0.00%	0.52%	15.48%	8.06%	2.99%
Allocation $ Percent	99.57%	100.00%	100.00%	99.88%	100.00%	99.92%	98.54%	99.99%	99.87%	100.00%	99.72%	100.00%	99.94%	99.84%	99.65%	98.93%
Allocation $ Sigma	4.13	6.00	5.98	4.54	5.47	4.67	3.68	5.34	4.50	6.00	4.27	6.00	4.74	4.44	4.20	3.80
Variance from Industry $ Sigma	-0.15	1.72	1.70	0.26	1.19	0.39	-0.60	1.06	0.22	1.72	-0.01	1.72	0.46	0.16	-0.08	-0.48
CUSIP Allocations %	96.83%	100.00%	99.30%	99.45%	99.88%	97.14%	96.95%	97.70%	99.88%	100.00%	95.31%	100.00%	99.17%	99.17%	99.59%	98.12%
CUSIP Allocations Sigma	3.36	6.00	3.96	4.04	4.54	3.40	3.37	3.50	4.53	6.00	3.18	6.00	3.90	3.90	4.14	3.58
Variance from Industry CUSIP Sigma	-0.33	2.31	0.27	0.36	0.86	-0.29	-0.31	-0.19	0.84	2.31	-0.51	2.31	0.21	0.21	0.46	-0.11