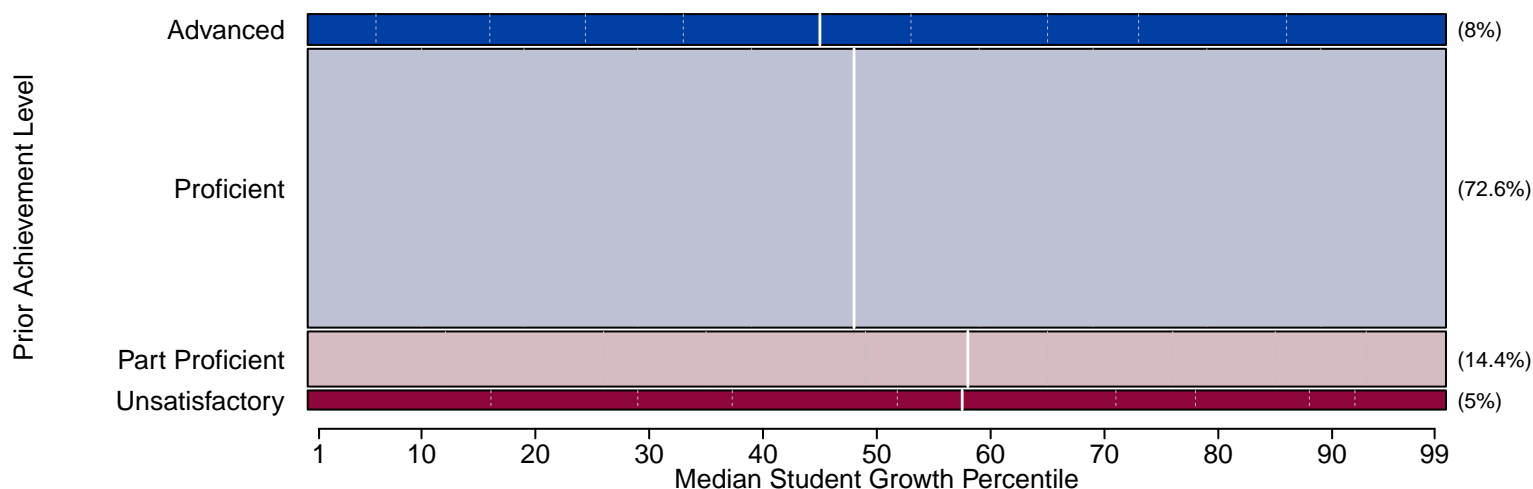# Student Growth Percentile Goodness–of–Fit Descriptives

2014–2015 Reading SGP SIMEX Ranked, Grade 4 (N = 3,845)

SGP Deciles by Prior Achievement Level (Reading)

Prior Achievement Level (y-axis):
- Advanced (8%)
- Proficient (72.6%)
- Part Proficient (14.4%)
- Unsatisfactory (5%)

Median Student Growth Percentile (x-axis): 1, 10, 20, 30, 40, 50, 60, 70, 80, 90, 99

Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[180,412)	40.0	8.0	16.0	20.0	12.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 25
	[412,450]	24.0	0.0	32.0	4.0	16.0	4.0	12.0	8.0	0.0	0.0	0.0	0.0	N = 25
Highest OSS:	[710,719]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	32.1	14.3	50.0	N = 28
	[719,762]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.6	6.9	65.5	N = 29

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[150,493]	5.76	7.85	9.42	8.90	7.07	13.35	8.38	13.35	10.21	15.71	(9.9%)
2nd/[493,526]	6.91	8.01	7.46	9.67	9.67	9.67	10.22	11.60	11.05	15.75	(9.4%)
3rd/[526,544]	6.57	10.10	10.10	10.10	9.34	10.35	7.83	9.60	13.13	12.88	(10.3%)
4th/[544,560]	11.52	6.02	8.64	10.99	8.38	9.42	13.87	8.90	10.73	11.52	(9.9%)
5th/[560,575]	10.58	10.33	8.82	8.06	10.33	11.34	10.08	9.07	11.08	10.33	(10.3%)
6th/[575,588]	8.74	10.11	10.66	9.02	9.56	11.20	10.66	11.20	9.02	9.84	(9.5%)
7th/[588,604]	8.42	11.88	9.90	10.89	10.64	8.91	11.88	8.17	10.40	8.91	(10.5%)
8th/[604,622]	10.82	14.51	9.23	13.19	11.08	8.71	8.71	9.23	6.33	8.18	(9.9%)
9th/[622,649]	12.50	11.22	13.78	9.44	12.50	6.63	9.18	9.69	7.14	7.91	(10.2%)
10th/[649,795]	13.25	8.57	12.73	10.13	10.65	10.13	10.65	9.09	10.13	4.68	(10%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution (x-axis): 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100

Empirical SGP Distribution (y-axis): 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100