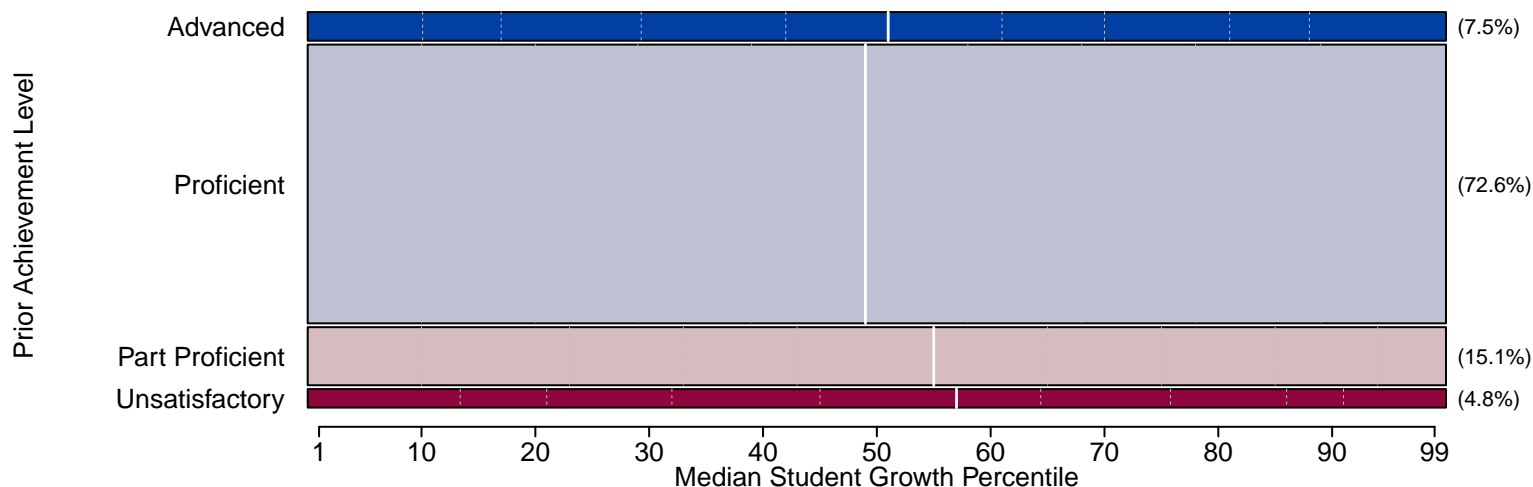# Student Growth Percentile Goodness–of–Fit Descriptives

2016–2017 Reading SGP SIMEX Ranked, Grade 4 (N = 4,046)

SGP Deciles by Prior Achievement Level (Reading)

Prior Achievement Level:
- Advanced (7.5%)
- Proficient (72.6%)
- Part Proficient (15.1%)
- Unsatisfactory (4.8%)

X-axis: Median Student Growth Percentile (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:	[180,410]	45.8	16.7	29.2	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 24
	[410,445]	29.6	11.1	11.1	18.5	22.2	0.0	7.4	0.0	0.0	0.0	0.0	0.0	N = 27
Highest OSS:	[713,728]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.0	20.0	48.0	N = 25
	[728,791]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	88.0	N = 25

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/[150,496)	8.02	8.77	9.52	9.02	9.27	9.52	10.28	9.77	10.28	15.54	(9.9%)
2nd/[496,526)	9.80	7.35	9.56	8.58	10.54	8.58	9.31	9.07	10.78	16.42	(10.1%)
3rd/[526,545)	10.63	9.37	10.89	9.87	9.87	9.87	7.85	8.61	9.87	13.16	(9.8%)
4th/[545,561)	9.09	9.58	9.83	10.07	9.34	8.60	9.09	12.04	13.27	9.09	(10.1%)
5th/[561,576)	10.03	9.27	10.78	8.27	11.28	10.53	10.53	8.52	11.28	9.52	(9.9%)
6th/[576,590)	8.54	10.49	10.00	13.41	7.80	12.93	10.00	10.24	8.78	7.80	(10.1%)
7th/[590,603)	8.74	11.57	7.46	12.34	10.54	8.74	12.08	11.57	8.74	8.23	(9.6%)
8th/[603,620)	10.26	11.19	11.19	11.89	10.72	9.32	7.69	10.02	7.93	9.79	(10.6%)
9th/[620,645)	10.71	12.24	10.71	6.89	11.73	10.71	11.73	9.69	7.40	8.16	(9.7%)
10th/[645,795]	8.37	11.00	10.05	9.09	8.61	11.96	11.00	10.77	10.77	8.37	(10.3%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution (0 to 100) vs Empirical SGP Distribution (0 to 100)