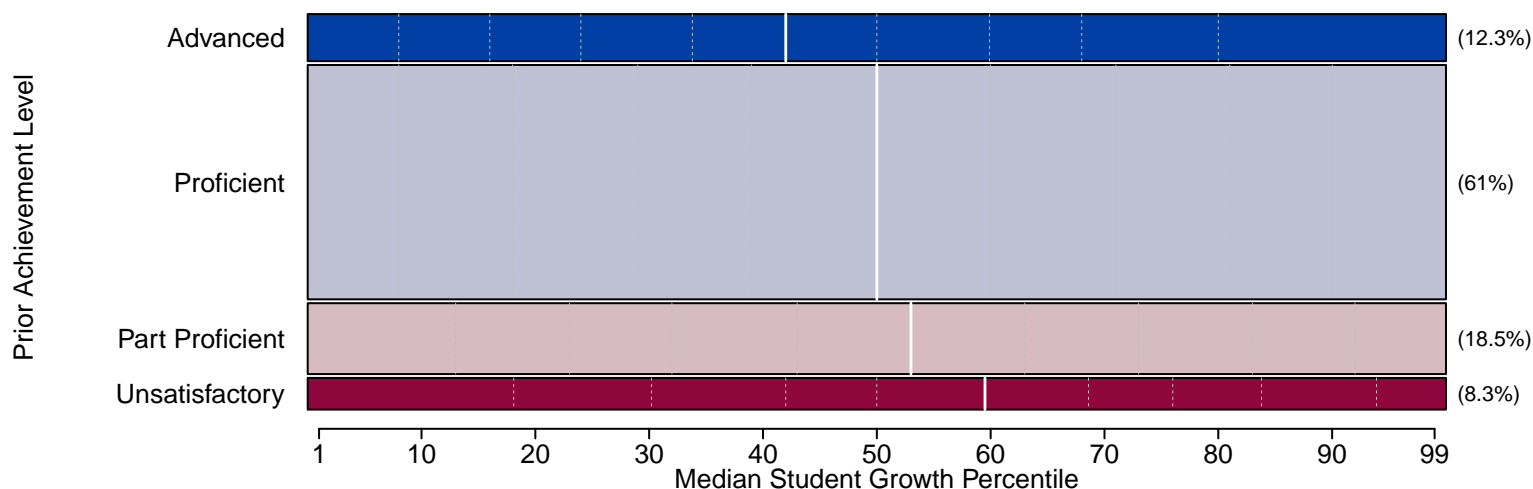# Student Growth Percentile Goodness–of–Fit Descriptives

2014–2015 Reading SGP SIMEX Ranked, Grade 9 (N = 4,144)

SGP Deciles by Prior Achievement Level (Reading)

Prior Achievement Level (top to bottom):
- Advanced (12.3%)
- Proficient (61%)
- Part Proficient (18.5%)
- Unsatisfactory (8.3%)

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:	[350,526]	34.8	13.0	26.1	21.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 23
	[526,543]	7.1	14.3	28.6	7.1	10.7	17.9	10.7	3.6	0.0	0.0	0.0	0.0	N = 28
Highest OSS:	[760,769]	0.0	4.2	0.0	0.0	0.0	8.3	16.7	8.3	16.7	29.2	8.3	8.3	N = 24
	[769,813]	0.0	0.0	0.0	0.0	0.0	3.7	3.7	14.8	11.1	18.5	22.2	25.9	N = 27

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/[330,587]	4.37	6.07	8.98	9.47	11.65	10.44	11.89	12.38	10.68	14.08	(9.9%)
2nd/[587,619]	6.30	10.90	10.65	7.51	12.59	9.44	8.72	10.17	11.38	12.35	(10%)
3rd/[619,637]	7.50	10.50	9.25	9.25	9.25	11.00	10.25	8.50	10.75	13.75	(9.7%)
4th/[637,654]	8.35	9.05	9.74	10.67	7.89	9.98	8.58	11.14	10.90	13.69	(10.4%)
5th/[654,668]	10.12	10.12	8.89	8.89	9.88	8.89	7.65	10.12	12.59	12.84	(9.8%)
6th/[668,679]	10.05	9.30	8.29	10.55	10.80	9.80	11.56	9.55	11.56	8.54	(9.6%)
7th/[679,692]	12.08	10.63	10.87	8.94	8.45	9.42	9.90	11.11	9.18	9.42	(10%)
8th/[692,708]	13.27	10.30	11.90	9.84	7.32	8.92	10.76	8.92	11.67	7.09	(10.5%)
9th/[708,729]	13.66	10.98	10.24	7.80	10.00	10.73	9.51	9.76	7.56	9.76	(9.9%)
10th/[729,870]	12.26	13.44	10.14	11.32	14.39	10.14	10.38	7.78	5.66	4.48	(10.2%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution (x-axis: 0 to 100)
Empirical SGP Distribution (y-axis: 0 to 100)