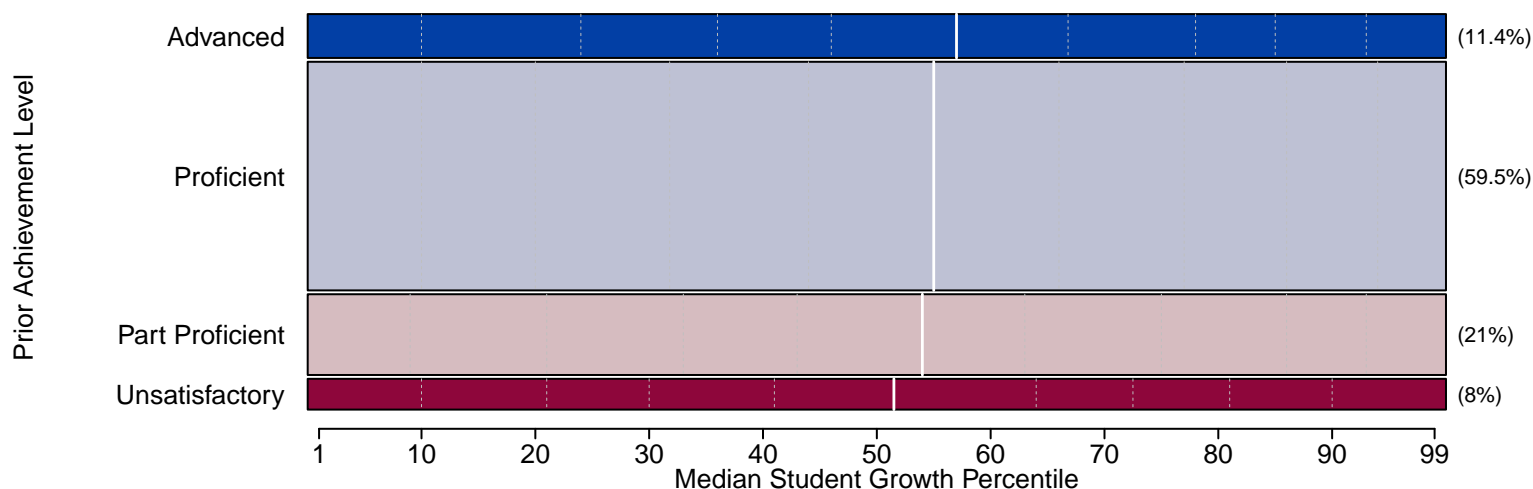# Student Growth Percentile Goodness–of–Fit Descriptives
2015–2016 Reading SGP SIMEX, Grade 9 (N = 4,194)

SGP Deciles by Prior Achievement Level (Reading)

Prior Achievement Level:
- Advanced (11.4%)
- Proficient (59.5%)
- Part Proficient (21%)
- Unsatisfactory (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:	[350,512]	68.0	4.0	12.0	4.0	8.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	N = 25
	[512,530]	48.0	16.0	20.0	12.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	N = 25
Highest OSS:	[780,792]	0.0	0.0	0.0	0.0	0.0	4.0	4.0	8.0	16.0	12.0	20.0	36.0	N = 25
	[792,836]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	15.4	11.5	61.5	N = 26

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/[330,586]	10.19	9.22	10.44	8.98	10.68	7.77	10.68	10.92	9.71	11.41	(9.8%)
2nd/[586,615]	11.71	7.96	8.90	7.73	9.37	9.60	8.43	9.84	12.88	13.58	(10.2%)
3rd/[615,633]	9.73	8.23	7.73	9.23	10.47	9.48	9.48	9.23	10.22	16.21	(9.6%)
4th/[633,649]	11.44	11.44	7.78	8.01	8.47	8.70	7.09	10.30	10.53	16.25	(10.4%)
5th/[649,664]	8.56	10.33	7.30	9.32	8.56	10.83	11.59	10.08	9.07	14.36	(9.5%)
6th/[664,677]	9.26	10.69	8.55	6.89	9.98	9.26	10.21	7.84	11.64	15.68	(10%)
7th/[677,690]	9.22	8.27	9.46	6.38	8.51	9.93	8.51	9.22	12.53	17.97	(10.1%)
8th/[690,706]	9.49	9.72	10.19	6.48	12.27	6.48	9.95	7.41	10.42	17.59	(10.3%)
9th/[706,727]	9.69	8.72	8.23	10.41	7.99	9.69	9.44	7.51	11.86	16.46	(9.8%)
10th/[727,838]	9.28	6.73	8.82	8.12	9.98	9.98	8.12	11.60	14.15	13.23	(10.3%)

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

QQ–Plot: Student Growth Percentiles

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