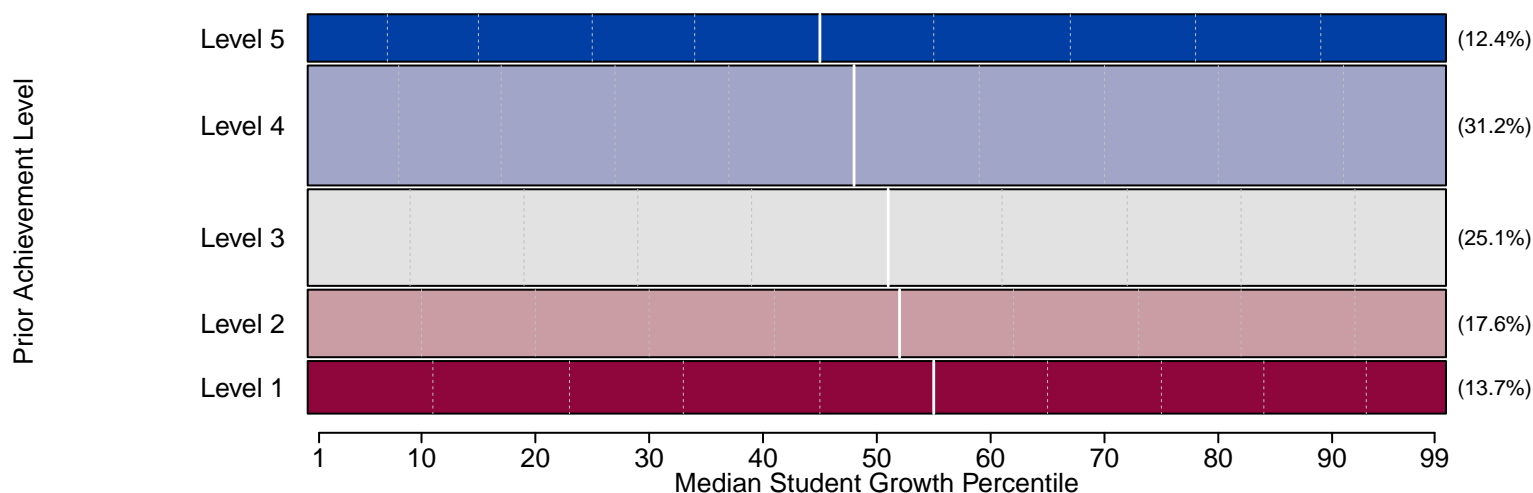# Student Growth Percentile Goodness–of–Fit Descriptives
2015–2016.2 ELA SS SGP SIMEX, Grade 8 (N = 395,857)

SGP Deciles by Prior Achievement Level (ELA SS)

Prior Achievement Level (y-axis) vs Median Student Growth Percentile (x-axis, 1 to 99):

- Level 5 (12.4%)
- Level 4 (31.2%)
- Level 3 (25.1%)
- Level 2 (17.6%)
- Level 1 (13.7%)

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:	[650]	75.9	24.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 1847
Highest OSS:	[850]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1	14.4	17.9	57.6	N = 821

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/[650,692)	8.24	8.70	8.73	8.75	9.59	9.70	10.24	11.11	11.49	13.45	(9.7%)
2nd/[692,710)	9.43	9.04	9.26	9.43	9.29	9.81	9.64	10.26	10.78	13.07	(9.9%)
3rd/[710,723)	10.04	9.80	9.58	9.35	9.71	9.63	9.40	9.40	10.80	12.28	(9.9%)
4th/[723,734)	10.52	10.37	9.52	9.39	9.22	8.98	9.60	9.19	10.46	12.73	(10.1%)
5th/[734,743)	10.46	10.42	9.69	9.06	9.18	9.37	9.41	9.67	10.47	12.29	(9.4%)
6th/[743,753)	11.10	10.01	9.93	9.44	9.24	9.18	9.24	9.73	10.15	11.98	(10.7%)
7th/[753,763)	11.43	10.49	9.77	9.73	9.25	8.94	9.27	9.73	9.64	11.76	(10.2%)
8th/[763,774)	12.11	10.35	9.94	9.64	9.40	9.36	9.04	9.29	9.49	11.39	(9.9%)
9th/[774,789)	12.08	10.70	10.56	9.85	9.59	9.34	8.84	9.07	9.20	10.77	(10%)
10th/[789,850]	12.92	11.55	10.68	10.11	9.74	9.09	8.83	9.45	8.57	9.06	(10.1%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution (x-axis) vs Empirical SGP Distribution (y-axis)