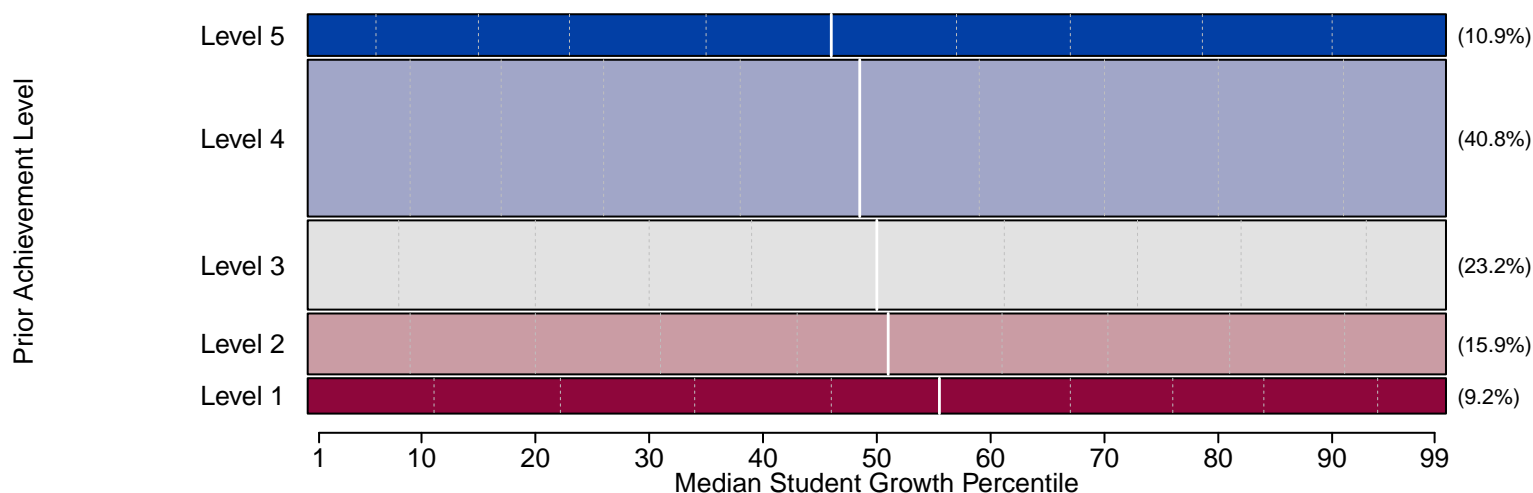# Student Growth Percentile Goodness–of–Fit Descriptives

2016–2017.1 ELA SGP SIMEX, Grade 9 (N = 4,036)

SGP Deciles by Prior Achievement Level (ELA)

Prior Achievement Level	
Level 5	(10.9%)
Level 4	(40.8%)
Level 3	(23.2%)
Level 2	(15.9%)
Level 1	(9.2%)

Median Student Growth Percentile

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:	[−15,−2.06)	75.9	20.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 29
	[−2.06,−2.03]	33.3	16.7	30.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 30
Highest OSS:	[2.52,2.71]	0.0	0.0	0.0	4.8	0.0	4.8	9.5	0.0	14.3	14.3	19.0	33.3	N = 21
	[2.71,3.99]	0.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	10.3	10.3	20.7	51.7	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/[−3.91,−1.24)	8.57	8.57	9.87	4.68	11.69	10.65	8.83	11.43	10.39	15.32	(9.7%)
2nd/[−1.24,−0.71)	10.53	7.89	10.77	8.61	9.81	11.24	11.48	8.13	11.96	9.57	(10.2%)
3rd/[−0.71,−0.36)	9.65	8.42	10.15	9.65	8.42	9.41	9.41	9.65	10.64	14.60	(10%)
4th/[−0.36,−0.05)	11.68	10.46	9.73	8.76	10.46	9.00	9.73	10.22	7.79	12.17	(9.7%)
5th/[−0.05,0.23)	12.50	8.75	8.75	11.75	8.75	7.75	7.50	9.00	10.50	14.75	(10.4%)
6th/[0.23,0.48)	8.70	11.59	11.59	8.21	10.14	9.42	8.45	9.66	11.11	11.11	(9.9%)
7th/[0.48,0.78)	10.08	10.88	12.73	7.16	9.81	8.49	8.22	10.61	10.08	11.94	(10.1%)
8th/[0.78,1.1)	10.17	12.59	6.78	9.44	8.47	11.14	9.93	10.90	8.72	11.86	(9.8%)
9th/[1.1,1.53)	12.95	11.51	11.27	9.11	10.79	6.47	8.15	11.51	7.91	10.31	(10%)
10th/[1.53,3.77)	15.11	11.34	8.06	11.34	10.08	9.07	9.07	6.80	9.32	9.82	(10.2%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution

Empirical SGP Distribution