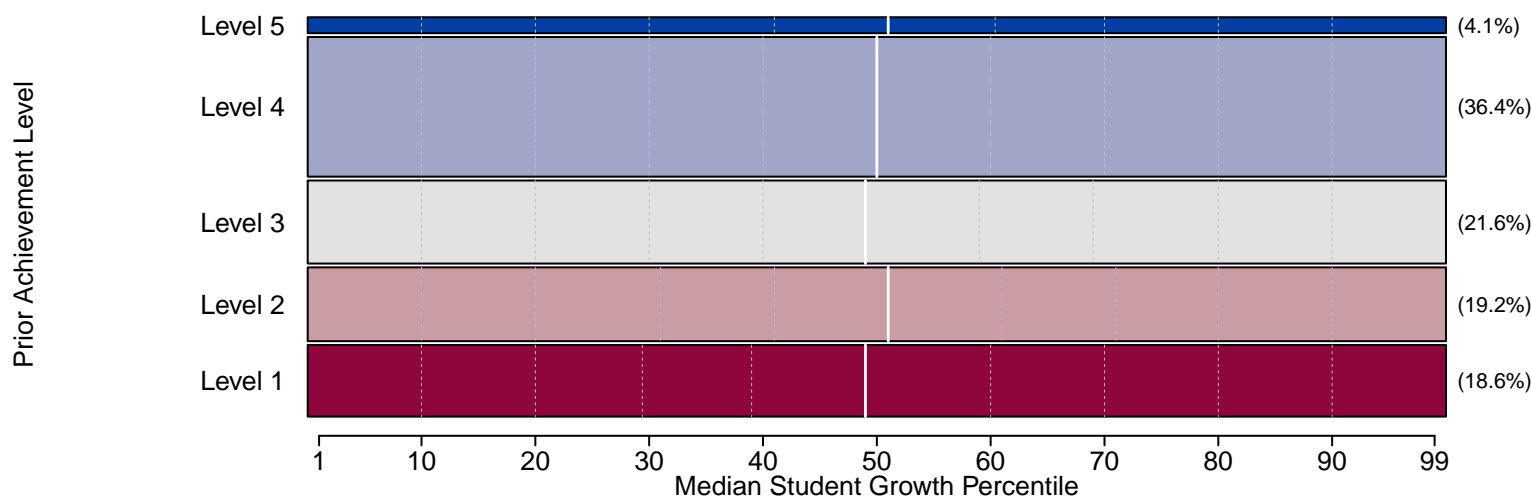# Student Growth Percentile Goodness–of–Fit Descriptives

2017–2018.2 ELA SGP, Grade 4 (N = 328,358)

SGP Deciles by Prior Achievement Level (ELA)

Prior Achievement Level	
Level 5	(4.1%)
Level 4	(36.4%)
Level 3	(21.6%)
Level 2	(19.2%)
Level 1	(18.6%)

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,−4.337)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 33
	[−4.337,−4.195]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 41
Highest OSS:	[4.669,4.707)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	0.0	93.3	N = 15
	[4.707,15]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 37

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/[−15,−1.393)	9.34	9.81	10.61	10.31	10.00	10.35	10.36	9.58	9.70	9.93	(9.8%)
2nd/[−1.393,−0.9307)	10.08	10.51	9.45	9.72	9.89	9.66	9.29	10.40	10.15	10.87	(10.1%)
3rd/[−0.9307,−0.5368)	9.35	9.58	9.43	9.67	9.88	9.66	10.52	10.06	10.62	11.23	(9.8%)
4th/[−0.5368,−0.1857)	9.63	9.92	10.45	10.32	9.86	10.37	9.79	10.00	9.61	10.05	(10.3%)
5th/[−0.1857,0.1023)	9.15	10.38	9.93	10.30	10.35	9.93	10.20	9.76	9.75	10.25	(9.7%)
6th/[0.1023,0.4026)	9.33	9.86	10.25	9.69	10.40	10.18	9.76	10.06	9.91	10.55	(10.3%)
7th/[0.4026,0.7247)	9.83	9.81	9.68	9.93	9.77	9.83	10.18	10.11	10.13	10.73	(9.8%)
8th/[0.7247,1.053)	9.28	9.97	9.97	10.16	9.53	10.01	10.22	10.13	10.29	10.43	(10.1%)
9th/[1.053,1.522)	9.76	10.30	10.28	10.00	10.37	9.80	9.69	9.49	9.93	10.38	(9.9%)
10th/[1.522,15]	9.45	9.83	9.97	9.95	9.89	10.20	10.08	10.25	9.88	10.50	(10.1%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution

Empirical SGP Distribution