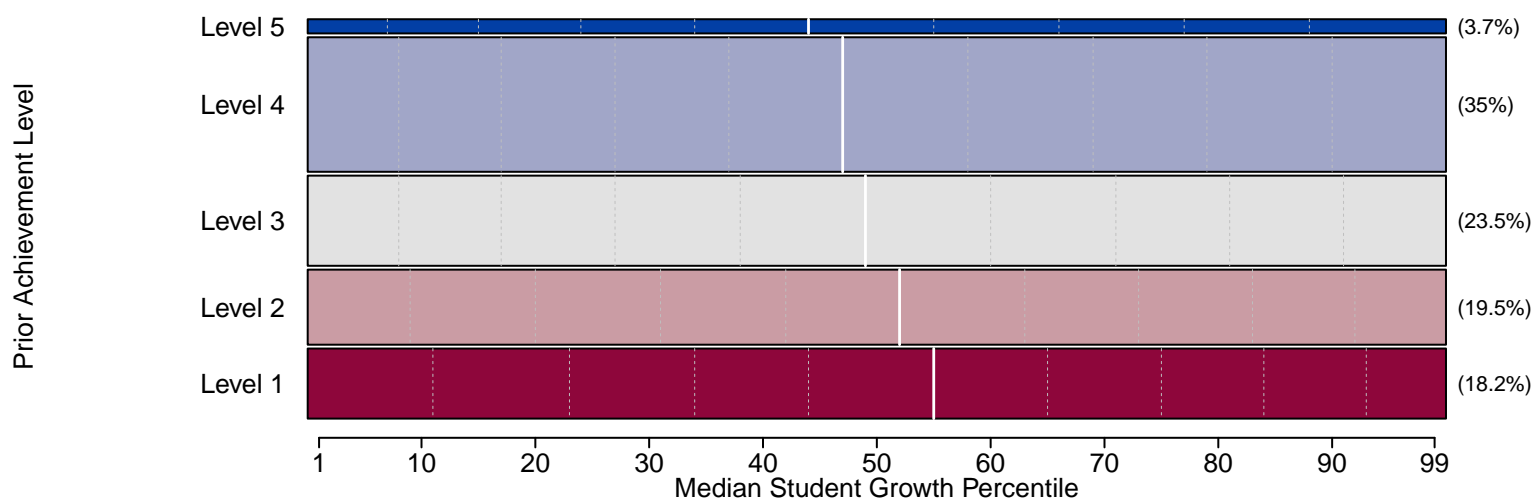# Student Growth Percentile Goodness–of–Fit Descriptives

2015–2016.2 ELA SGP SIMEX, Grade 4 (N = 418,864)

SGP Deciles by Prior Achievement Level (ELA)

Prior Achievement Level		Percent
Level 5		(3.7%)
Level 4		(35%)
Level 3		(23.5%)
Level 2		(19.5%)
Level 1		(18.2%)

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,−5.301)	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 = 26
	[−5.301,−4.389]	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 = 27
Highest OSS:	[4.202,4.364)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	3.2	90.3	N = 31
	[4.364,7.724]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	97.1	N = 35

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/[−6,−1.383)	7.90	9.07	9.28	9.26	9.48	9.83	9.73	10.20	11.48	13.78	(9.9%)
2nd/[−1.383,−0.9119)	8.98	8.87	8.80	9.06	9.15	9.56	9.97	10.52	11.02	14.07	(10.1%)
3rd/[−0.9119,−0.5445)	9.74	8.98	8.79	9.36	9.52	9.83	9.89	10.19	10.58	13.12	(10%)
4th/[−0.5445,−0.2177)	10.91	10.15	9.71	9.26	9.24	9.46	9.53	9.41	10.05	12.28	(10%)
5th/[−0.2177,0.0761)	11.96	10.85	9.49	9.54	9.24	8.87	9.36	8.97	10.00	11.72	(10%)
6th/[0.0761,0.3671)	11.34	10.70	9.32	9.44	9.60	9.22	9.45	9.66	9.92	11.34	(10%)
7th/[0.3671,0.664)	11.22	10.03	9.79	9.65	9.90	9.62	9.36	9.66	9.62	11.15	(10%)
8th/[0.664,1.019)	11.88	10.34	10.00	9.52	9.54	9.16	9.43	9.65	9.55	10.92	(10%)
9th/[1.019,1.503)	12.35	10.95	10.21	9.80	9.72	9.04	9.37	9.46	9.24	9.87	(10%)
10th/[1.503,10]	13.00	11.42	10.45	9.86	10.06	8.92	9.29	8.90	8.81	9.28	(10%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution