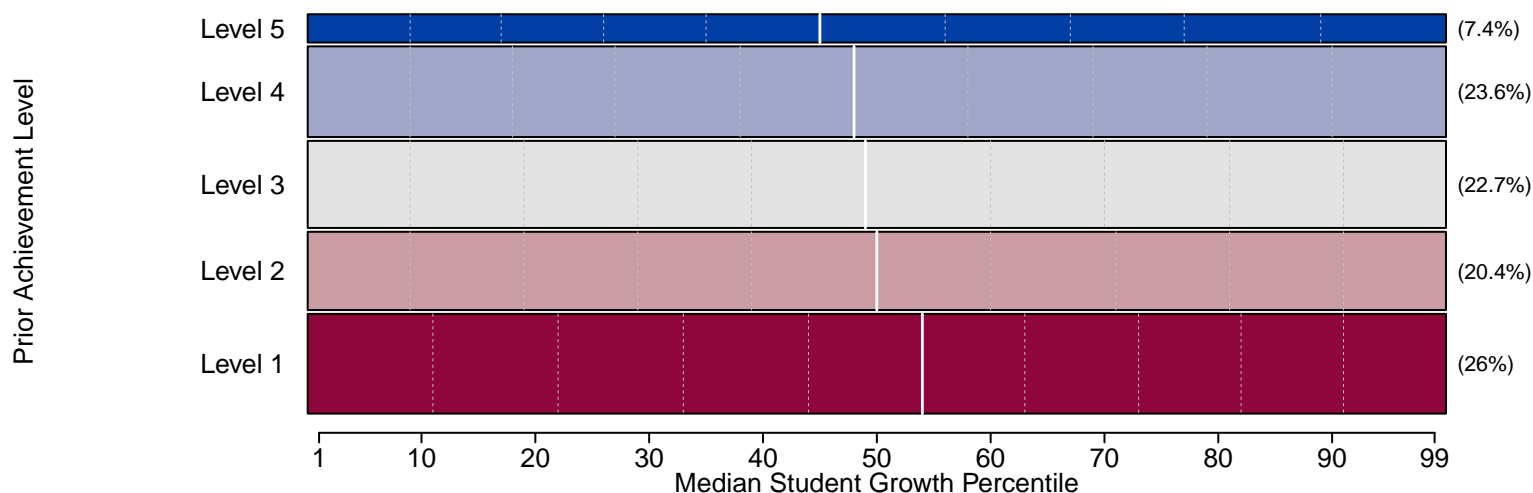# Student Growth Percentile Goodness–of–Fit Descriptives

2015–2016.2 ELA SGP SIMEX, Grade 11 (N = 86,252)

SGP Deciles by Prior Achievement Level (ELA)

Prior Achievement Level	
Level 5	(7.4%)
Level 4	(23.6%)
Level 3	(22.7%)
Level 2	(20.4%)
Level 1	(26%)

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:	[−15,−4.432)	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
	[−4.432,−3.929]	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:	[3.864,4.12)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	12.5	12.5	70.8	N = 24
	[4.12,6.109]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	3.7	14.8	77.8	N = 27

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,−1.48)	8.19	8.52	9.45	8.95	10.19	10.21	10.94	10.94	10.86	11.76	(10%)
2nd/[−1.48,−1.044)	8.90	9.32	9.71	9.17	9.17	9.56	10.15	10.92	11.06	12.04	(10%)
3rd/[−1.044,−0.7022)	9.39	9.53	8.95	9.12	9.68	9.40	10.34	10.56	10.81	12.22	(10%)
4th/[−0.7022,−0.4124)	10.24	10.35	10.18	9.59	9.42	9.13	10.09	10.06	9.70	11.24	(10%)
5th/[−0.4124,−0.1505)	10.67	10.31	10.69	10.07	10.00	9.49	9.13	9.52	9.21	10.92	(10%)
6th/[−0.1505,0.1017)	10.25	10.48	9.95	9.93	9.10	9.68	9.43	9.68	10.01	11.48	(10%)
7th/[0.1017,0.3718)	10.51	9.89	9.63	10.37	10.02	9.27	9.49	9.68	9.86	11.28	(10%)
8th/[0.3718,0.7051)	11.04	10.83	10.02	9.53	9.59	9.34	9.70	9.97	9.15	10.83	(10%)
9th/[0.7051,1.179)	10.05	11.56	10.19	10.05	10.25	9.93	9.00	9.03	9.42	10.53	(10%)
10th/[1.179,5.752]	10.71	12.11	10.55	10.93	9.52	9.05	9.11	9.46	8.84	9.72	(10%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution: 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100

Empirical SGP Distribution: 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100