

Appendix A to the 2017 PARCC Consortium Growth
Model Report:
Growth Model Fit Plots

February 2018

1 Student Growth Percentile Fit Plots

A goodness of fit plot is produced for each unique Spring 2017 Student Growth Percentile (SGP) analysis. All fit plots will contain at least four panels. Each panel is a different depiction of the distribution of the SGPs calculated in that analysis relative to the students' prior or current achievement (i.e. the test scores used as the independent and dependent variables in the model).

The top panel is a mosaic plot that shows the percentage of students that fall into each prior proficiency level, and the location of the 10th through 90th quantiles of the SGP distribution represented as dashed white lines (with the exception of the solid white line for the median/50th percentile). Ideally the median SGP will be at or near 50 for all prior achievement level groups. The top panel is excluded when students' prior achievement level data is unavailable.

The "Ceiling/Floor Effects Test" panel helps identify problems in SGP estimation at the Highest and Lowest Obtainable/Observed Scale Scores (HOSS and LOSS). Appendix C provides a more detailed description of ceiling and floor effects and their causes. The table of values shows whether the current year scores at both extremes yield expected SGP values. The expectation is that the majority of SGPs for students scoring at or near the LOSS will be low (preferably less than 5 and not higher than 20), and that SGPs for students scoring at or near the HOSS will be high (preferably higher than 95 and not less than 80). Because few students may score *exactly* at the HOSS/LOSS, the top/bottom 50 students are selected and any student scoring within their range of scores are selected for inclusion in these tables. Consequently, there may be a range of scores at the HOSS/LOSS rather than a single score, and there may be more than 50 students included in the HOSS/LOSS row if the 50 students at the extremes only contain the single HOSS/LOSS score.

The "Student Growth Percentile Range" panel at bottom left shows the empirical distribution of SGPs given prior scale score deciles in the form of a 10 by 10 cell grid. Percentages of student growth percentiles between the 10th, 20th, 30th, 40th, 50th, 60th, 70th, 80th, and 90th percentiles were calculated based upon the empirical decile of the cohort's prior year scaled score distribution¹. Deviations from perfect fit are indicated by red and blue shading. The further above 10 the darker the red, and the further below 10 the darker the blue. A more detailed discussion about the reasons for and implications of model misfit can be found in the "Goodness of Fit" section of the 2017 PARCC Student Growth Model report.

The bottom right panel of each plot is a **Q-Q plot** which compares the observed distribution of SGPs with the theoretical (uniform) distribution. An ideal plot here will show black step function lines that do not deviate from the ideal, red line which traces the 45 degree angle of perfect fit.

Goodness of fit plots for SIMEX measurement error corrected models are also presented here for each analysis. The expectations in the SGP distribution panels are different for these models, where lower attaining students will receive higher SGPs and vice versa. This typically shifts the median lines in the mosaic plot panel and causes a red shift (more SGPs than expected) in the upper-right and lower-left quadrants of the "Student Growth Percentile Range" panel.

¹The total students in each analysis varies depending on grade and subject, and prior score deciles are based only on scores for students used in the SGP calculations.

2 End-of-Grade Analyses

2.1 ELA

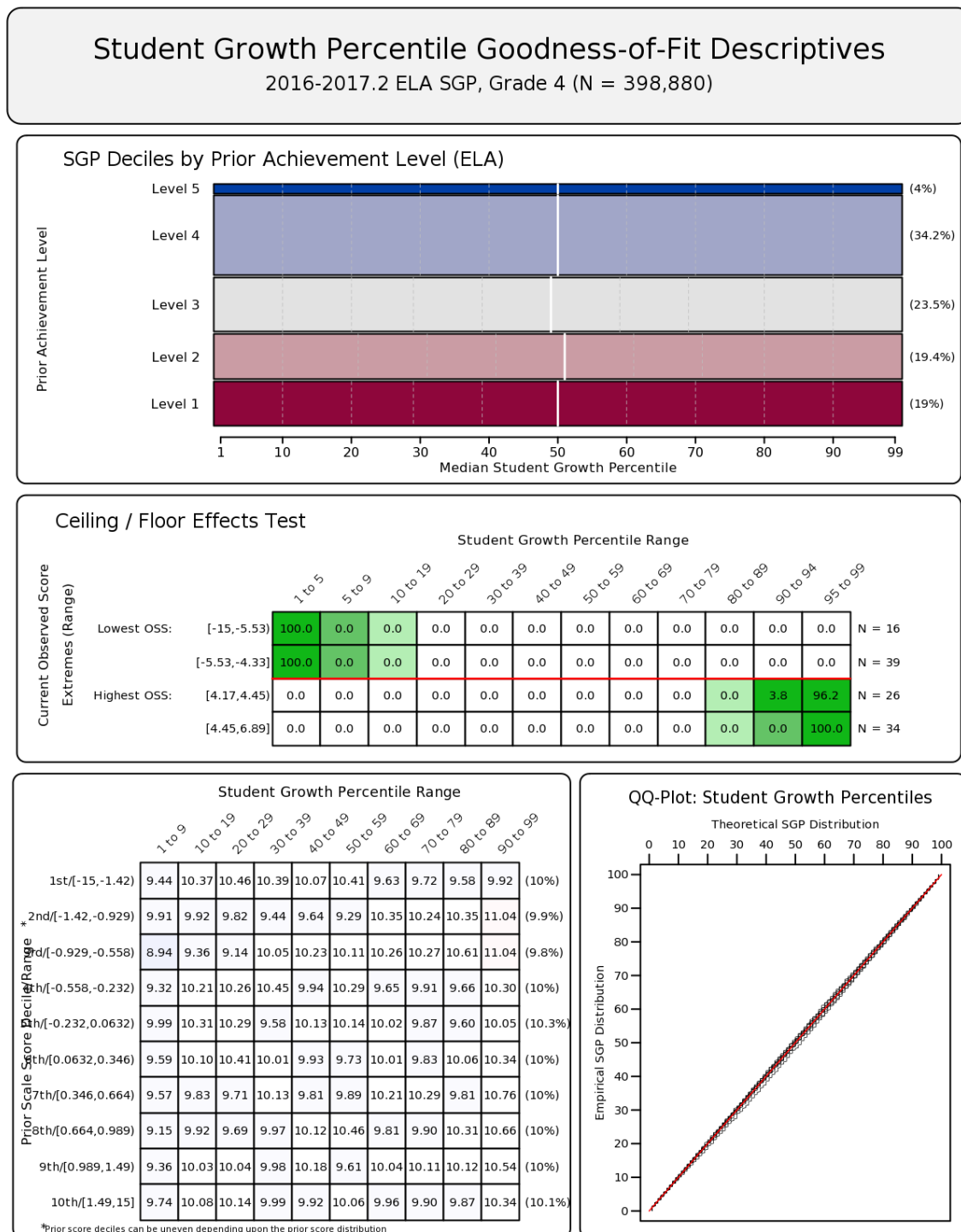
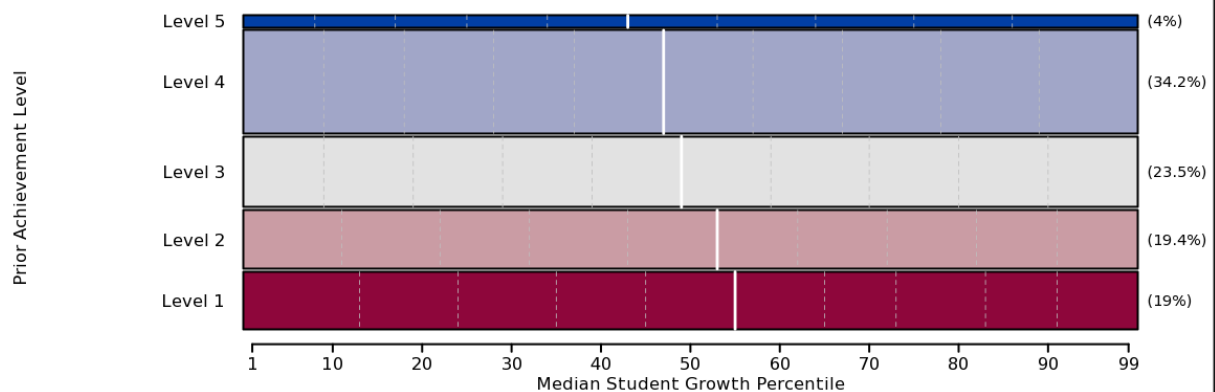


Figure 1: Goodness of Fit Plot for Grade 4 ELA, 2017 (Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 ELA SGP SIMEX Ranked, Grade 4 (N = 398,880)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

		Student Growth Percentile 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	
Current Observed Score Extremes (Range)	Lowest OSS:	[-15,-5.53]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 16
		[-5.53,-4.33]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 39
	Highest OSS:	[4.17,4.45]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8	3.8	88.5	N = 26
		[4.45,6.89]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 34

		Student Growth Percentile 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	
Prior Scale Score Decile Range	1st/[-15,-1.42]	6.88	8.11	9.39	9.75	10.24	10.22	11.88	10.42	11.22	11.89	(10%)
	2nd/[-1.42,-0.929]	7.87	8.59	9.53	8.98	9.58	9.98	10.94	10.28	11.48	12.77	(9.9%)
	3rd/[-0.929,-0.558]	8.08	8.92	8.79	9.17	10.01	10.67	10.62	10.75	10.56	12.43	(9.8%)
	4th/[-0.558,-0.232]	9.28	9.83	10.34	9.91	10.56	9.74	9.52	9.97	9.58	11.26	(10%)
	5th/[-0.232,0.0632]	10.21	10.48	10.25	9.81	9.81	10.03	9.33	10.15	9.74	10.19	(10.3%)
	6th/[0.0632,0.346]	10.08	10.16	9.91	10.58	9.61	9.81	9.68	9.91	9.99	10.27	(10%)
	7th/[0.346,0.664]	10.03	10.26	10.23	9.87	9.94	9.80	9.61	10.26	9.92	10.09	(10%)
	8th/[0.664,0.989]	10.07	10.67	10.11	10.24	9.87	10.24	9.54	9.94	9.64	9.67	(10%)
	9th/[0.989,1.49]	10.81	11.04	10.80	10.50	10.12	10.18	9.24	9.41	9.15	8.75	(10%)
	10th/[1.49,15]	11.79	11.65	11.20	10.48	10.30	9.76	9.22	9.37	8.63	7.60	(10.1%)

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

QQ-Plot: Student Growth Percentiles

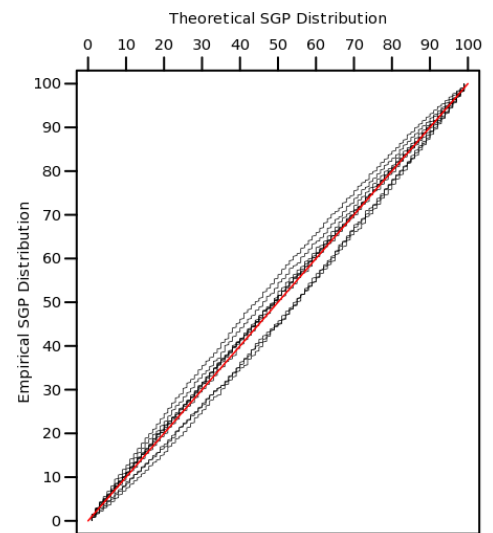
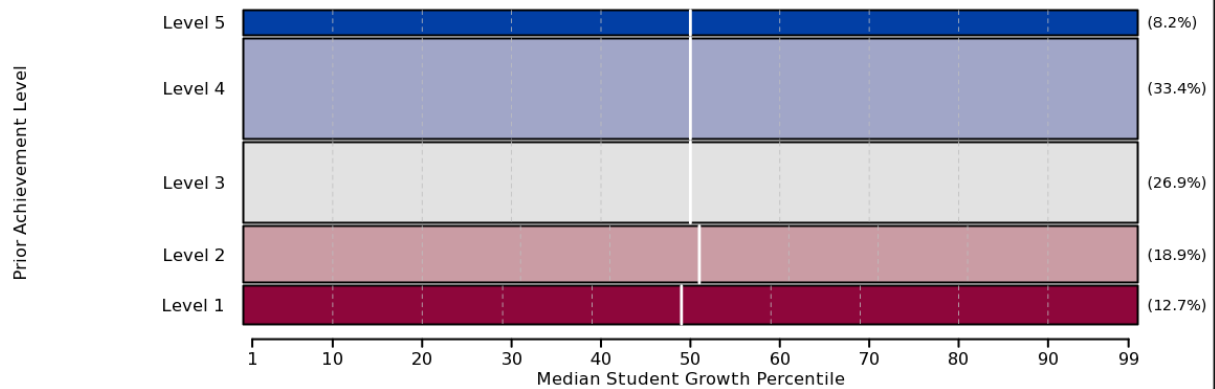


Figure 2: Goodness of Fit Plot for Grade 4 ELA, 2017 (SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 ELA SGP, Grade 5 (N = 391,395)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

		Student Growth Percentile 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	
Current Observed Score Extremes (Range)	Lowest OSS:	[-15,-5.62]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 15
		[-5.62,-5.59]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 35
	Highest OSS:	[4.15,4.3]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.4	84.6	N = 26
		[4.3,5.32]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	96.9	N = 32

		Student Growth Percentile 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	
Prior Scale Score Decile/Range *	1st/[-15,-1.47]	9.71	10.17	10.18	10.21	10.17	10.02	10.03	9.68	9.62	10.21	(10%)
	2nd/[-1.47,-0.94]	9.54	9.78	9.89	9.77	9.62	9.80	9.83	10.26	10.42	11.09	(9.7%)
	3rd/[-0.94,-0.56]	8.98	9.87	9.59	9.82	10.09	10.02	10.05	10.27	10.33	10.99	(10.1%)
	4th/[-0.56,-0.239]	9.81	10.22	10.09	9.97	9.88	10.08	9.88	9.92	9.82	10.33	(9.7%)
	5th/[-0.239,0.0386]	9.33	9.92	10.04	10.32	10.09	9.96	10.17	10.00	9.99	10.17	(10.3%)
	6th/[0.0386,0.325]	9.78	10.09	10.15	9.90	10.02	9.88	9.98	9.89	9.79	10.51	(10%)
	7th/[0.325,0.624]	9.52	9.77	9.78	9.92	9.91	9.92	10.04	10.11	10.27	10.77	(9.9%)
	8th/[0.624,0.97]	9.25	10.02	9.99	10.15	9.89	10.21	9.97	9.92	9.98	10.63	(10%)
	9th/[0.97,1.43]	9.63	10.02	9.96	9.74	10.17	10.11	9.79	10.11	9.98	10.48	(10.2%)
	10th/[1.43,7.72]	9.51	9.99	10.09	10.09	9.92	9.82	10.16	9.95	9.89	10.57	(10.2%)

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

QQ-Plot: Student Growth Percentiles

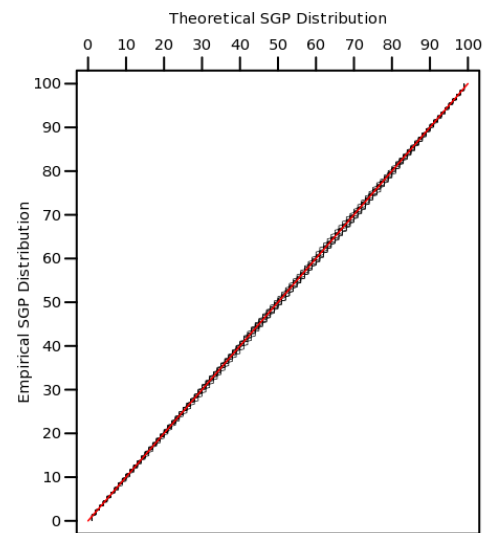
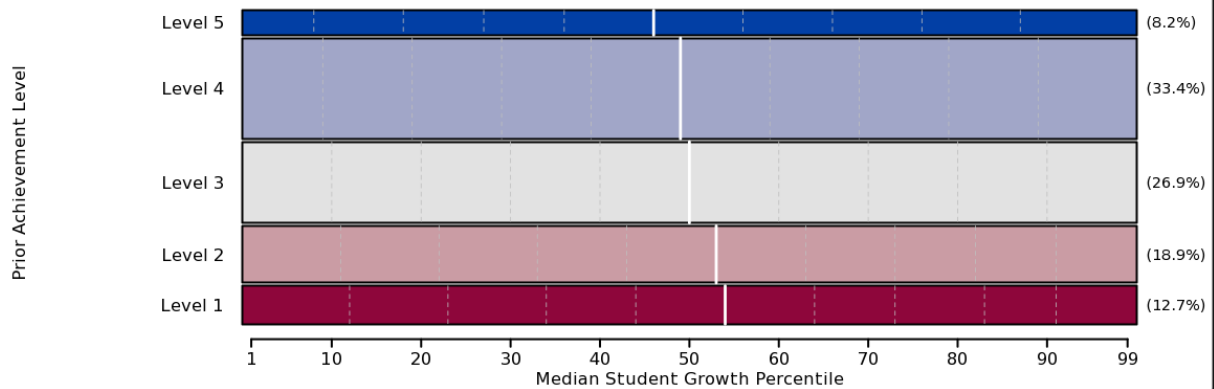


Figure 3: Goodness of Fit Plot for Spring 2017 Grade 5 ELA (Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 ELA SGP SIMEX Ranked, Grade 5 (N = 391,395)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

		Student Growth Percentile 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	
Current Observed Score Extremes (Range)	Lowest OSS: [-15,-5.62]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 15
	[-5.62,-5.59]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 35
	Highest OSS: [4.15,4.3]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	23.1	N = 26
	[4.3,5.32]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	N = 32

		Student Growth Percentile 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	
Prior Scale Score Decile/Range *	1st/[-15,-1.47]	7.81	9.02	9.26	9.65	9.98	10.32	10.29	10.46	11.16	12.06	(10%)
	2nd/[-1.47,-0.94]	8.26	8.86	9.46	9.27	9.55	10.07	10.09	10.66	11.32	12.47	(9.7%)
	3rd/[-0.94,-0.56]	8.18	9.44	9.52	9.55	10.01	10.05	10.26	10.58	10.65	11.76	(10.1%)
	4th/[-0.56,-0.239]	9.36	10.06	10.26	9.84	10.02	9.91	10.06	10.01	9.81	10.64	(9.7%)
	5th/[-0.239,0.0386]	9.22	10.01	10.28	10.19	10.11	9.91	10.21	9.92	9.85	10.29	(10.3%)
	6th/[0.0386,0.325]	10.00	10.22	10.15	10.06	9.90	9.88	9.89	9.76	9.69	10.46	(10%)
	7th/[0.325,0.624]	10.00	9.88	9.83	9.95	9.82	10.07	9.81	10.10	10.10	10.43	(9.9%)
	8th/[0.624,0.97]	9.98	10.24	10.13	10.25	9.97	10.09	9.78	10.03	9.43	10.09	(10%)
	9th/[0.97,1.43]	10.64	10.51	10.30	10.25	9.97	10.21	9.56	9.79	9.42	9.35	(10.2%)
	10th/[1.43,7.72]	11.09	11.04	11.15	10.38	10.04	10.09	9.74	9.41	8.75	8.30	(10.2%)

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

QQ-Plot: Student Growth Percentiles

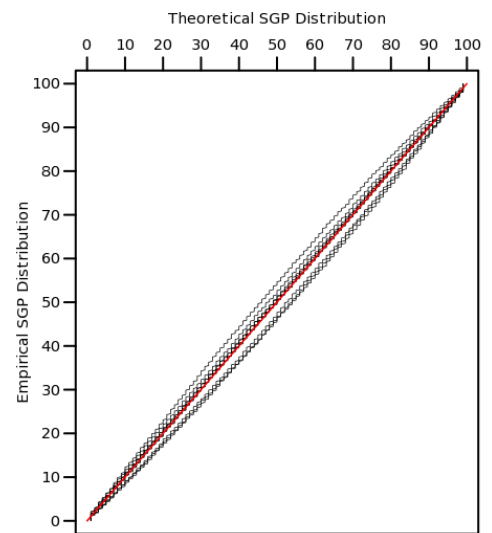


Figure 4: Goodness of Fit Plot for Spring 2017 Grade 5 ELA (SIMEX Corrected).

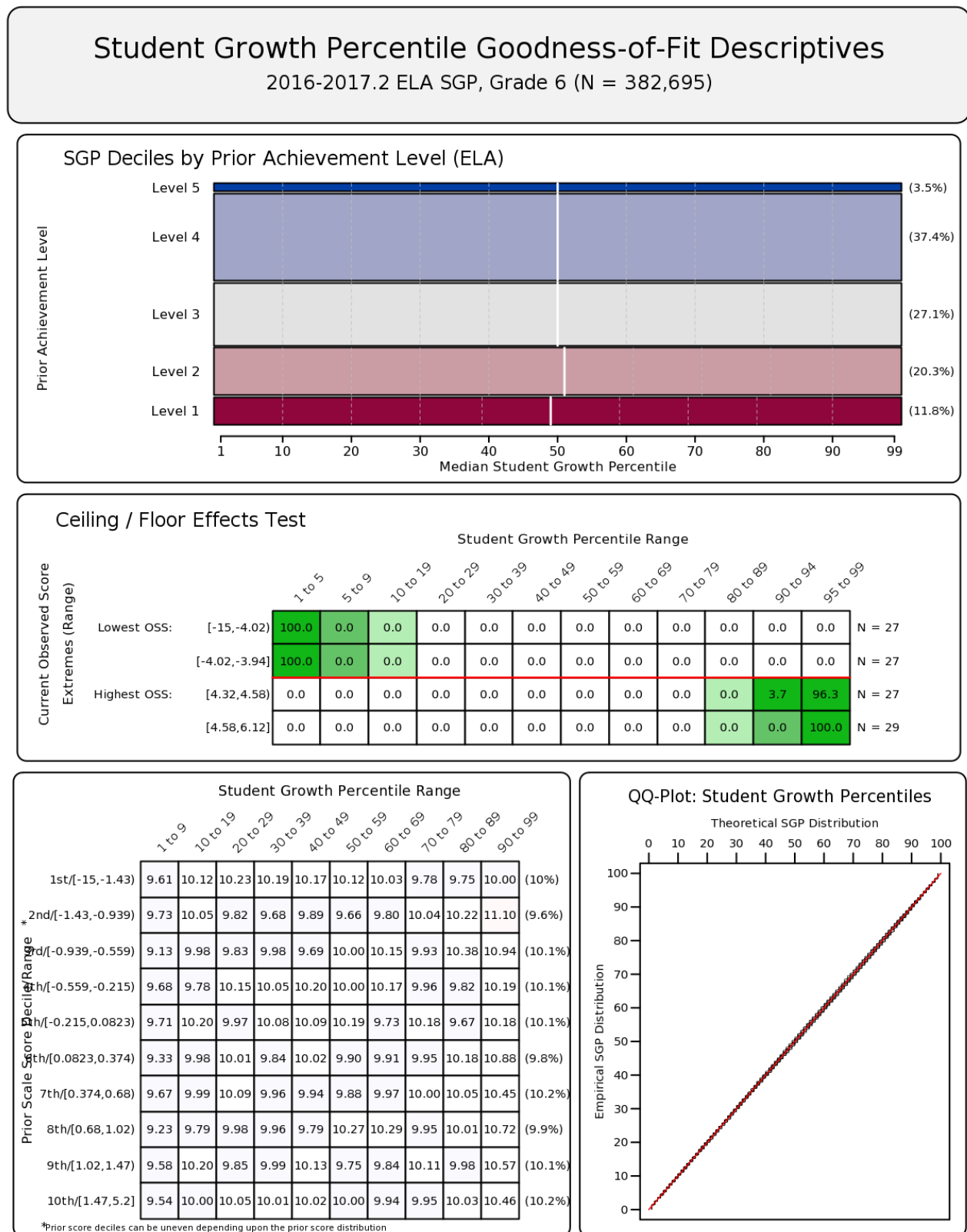
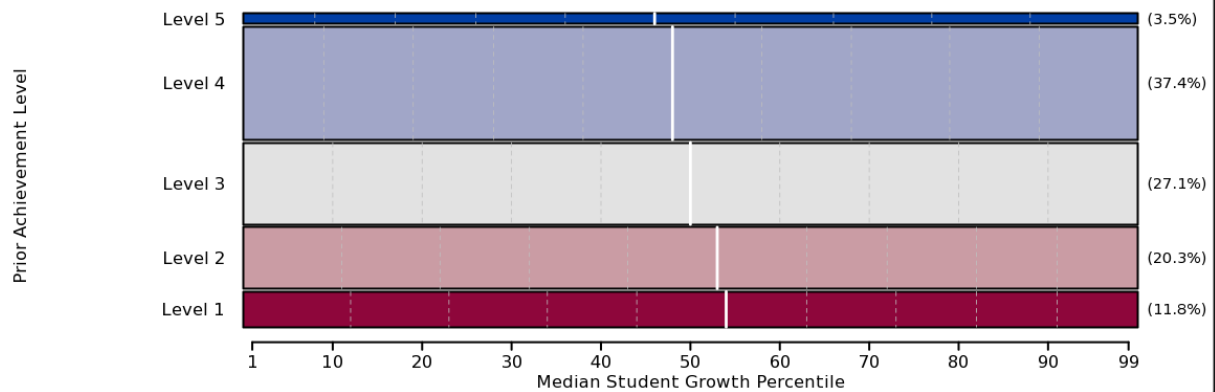


Figure 5: Goodness of Fit Plot for Spring 2017 Grade 6 ELA (Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 ELA SGP SIMEX Ranked, Grade 6 (N = 382,695)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

		Student Growth Percentile 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	
Current Observed Score Extremes (Range)	Lowest OSS: [-15,-4.02]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 27
	[-4.02,-3.94]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 27
	Highest OSS: [4.32,4.58]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	N = 27
	[4.58,6.12]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 29

		Student Growth Percentile 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	
Prior Scale Score Decile Range	1st/[-15,-1.43]	7.47	9.02	9.42	9.51	9.92	10.51	10.68	10.45	11.26	11.77	(10%)
	2nd/[-1.43,-0.939]	8.15	9.13	9.39	9.55	9.67	10.07	10.20	10.56	10.88	12.40	(9.6%)
	3rd/[-0.939,-0.559]	8.21	9.55	9.69	9.79	9.92	9.96	10.17	10.43	10.42	11.85	(10.1%)
	4th/[-0.559,-0.215]	9.41	9.51	10.16	10.24	10.15	10.06	9.96	10.10	9.85	10.55	(10.1%)
	5th/[-0.215,0.0823]	9.78	10.21	10.03	10.12	10.07	9.99	9.78	10.17	9.51	10.34	(10.1%)
	6th/[0.0823,0.374]	9.53	10.09	10.22	9.63	10.07	9.93	9.66	10.05	10.01	10.81	(9.8%)
	7th/[0.374,0.68]	10.00	10.22	10.35	9.75	9.96	9.72	9.91	9.97	9.83	10.29	(10.2%)
	8th/[0.68,1.02]	9.94	10.24	10.26	9.88	9.90	10.16	10.07	9.80	9.61	10.14	(9.9%)
	9th/[1.02,1.47]	10.73	10.80	10.39	10.09	10.18	9.68	9.51	9.65	9.43	9.55	(10.1%)
	10th/[1.47,5.2]	11.38	10.88	10.76	10.50	10.16	9.75	9.73	9.24	8.91	8.70	(10.2%)

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

QQ-Plot: Student Growth Percentiles

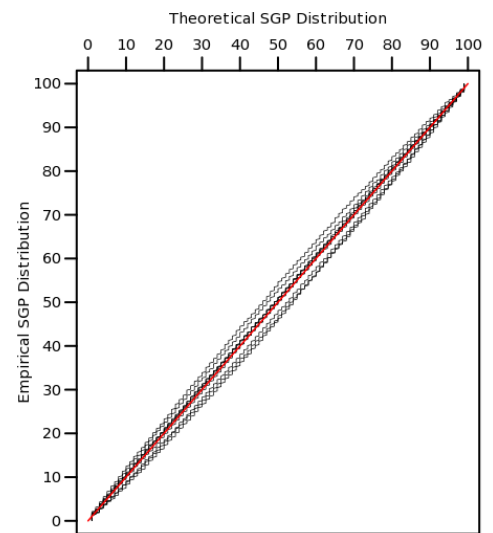


Figure 6: Goodness of Fit Plot for Spring 2017 Grade 6 ELA (SIMEX Corrected).

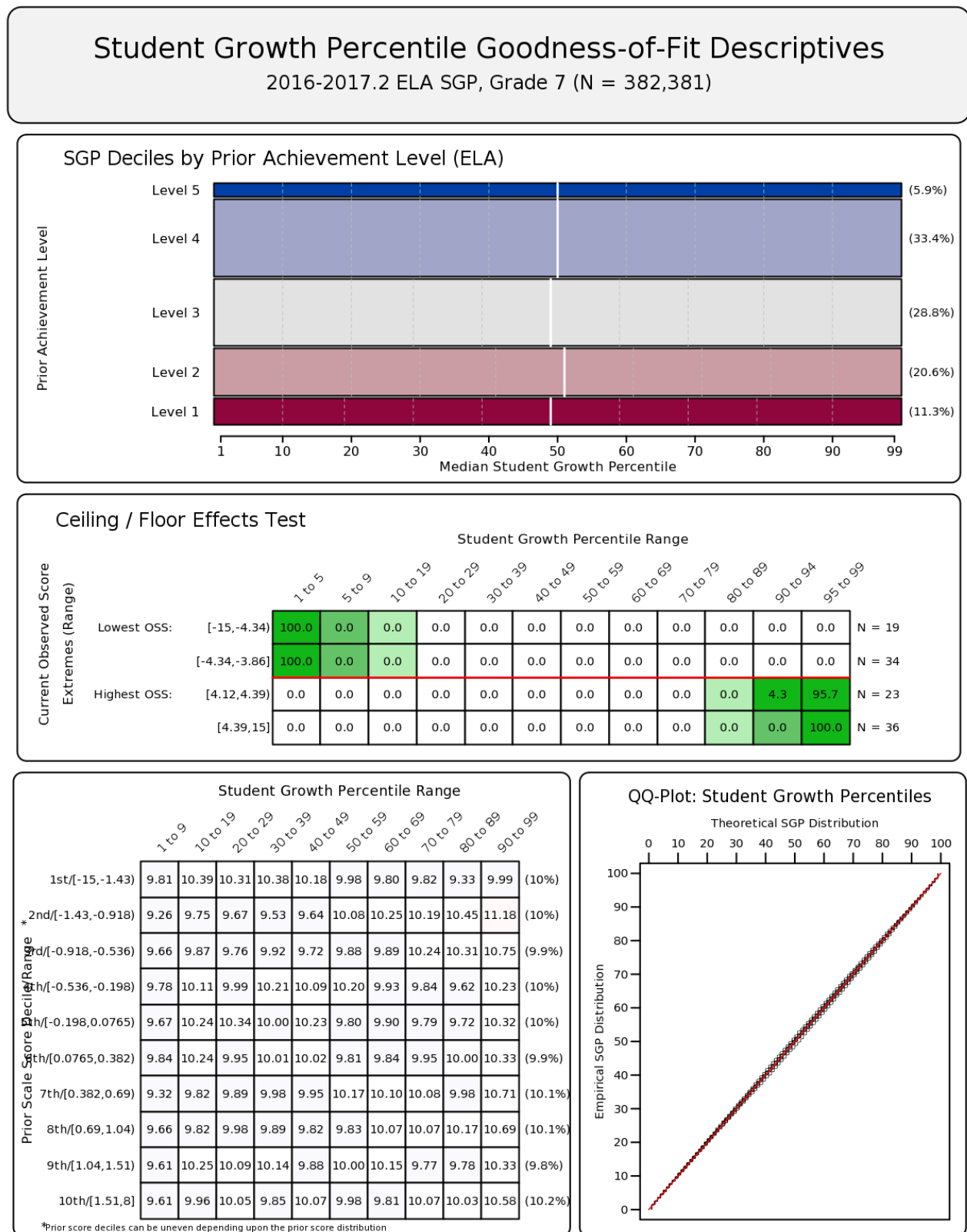
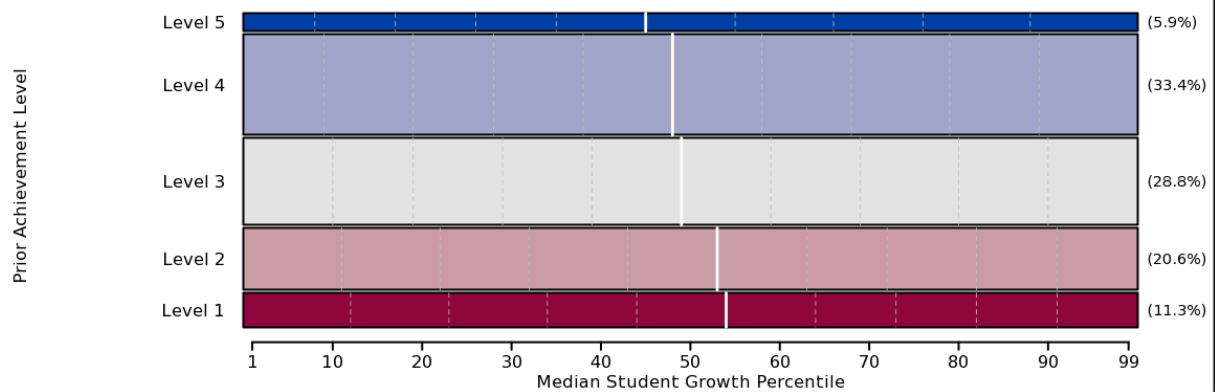


Figure 7: Goodness of Fit Plot for Spring 2017 Grade 7 ELA (Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 ELA SGP SIMEX Ranked, Grade 7 (N = 382,381)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

		Student Growth Percentile 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	
Current Observed Score Extremes (Range)	Lowest OSS: [-15,-4.34]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 19
	[-4.34,-3.86]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 34
	Highest OSS: [4.12,4.39]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	N = 23
	[4.39,15]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 36

		Student Growth Percentile 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	
Prior Scale Score Decile Range	1st/[-15,-1.43]	7.50	9.07	9.12	9.66	10.03	10.14	10.83	10.97	10.84	11.85	(10%)
	2nd/[-1.43,-0.918]	7.77	9.11	9.16	9.38	9.59	10.01	10.66	10.89	11.16	12.28	(10%)
	3rd/[-0.918,-0.536]	8.80	9.49	9.56	9.82	9.95	9.90	10.06	10.30	10.69	11.44	(9.9%)
	4th/[-0.536,-0.198]	9.46	10.07	9.91	10.26	10.23	9.93	9.99	9.80	9.69	10.66	(10%)
	5th/[-0.198,0.0765]	9.67	10.47	10.32	9.90	10.20	9.90	9.66	9.71	9.74	10.43	(10%)
	6th/[0.0765,0.382]	10.19	10.33	10.09	10.06	9.84	9.78	9.87	9.80	9.86	10.18	(9.9%)
	7th/[0.382,0.69]	9.90	10.12	9.91	9.85	10.00	10.10	9.96	10.04	9.84	10.30	(10.1%)
	8th/[0.69,1.04]	10.28	10.24	10.12	9.94	9.91	9.75	10.02	9.83	9.67	10.23	(10.1%)
	9th/[1.04,1.51]	10.52	10.91	10.46	10.16	10.41	9.89	9.72	9.31	9.03	9.59	(9.8%)
	10th/[1.51,8]	11.39	11.24	10.79	10.38	10.52	9.64	9.25	9.42	8.60	8.76	(10.2%)

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

QQ-Plot: Student Growth Percentiles

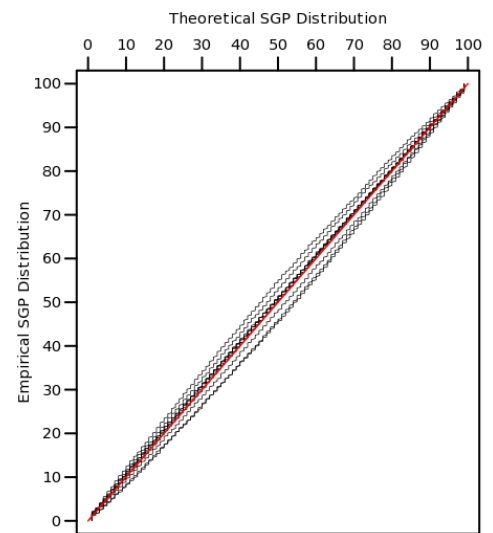
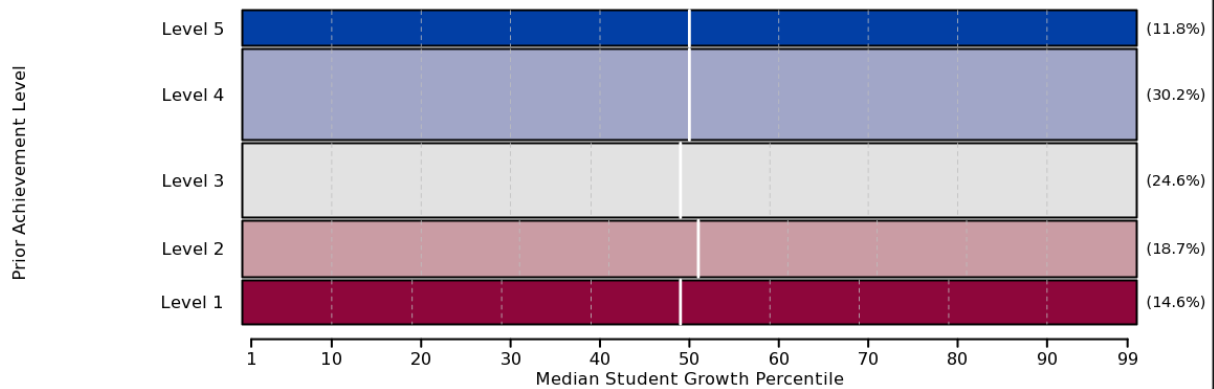


Figure 8: Goodness of Fit Plot for Spring 2017 Grade 7 ELA (SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 ELA SGP, Grade 8 (N = 375,306)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

		Student Growth Percentile 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	
Current Observed Score Extremes (Range)	Lowest OSS: [-15,-4.79]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 23
	[-4.79,-4.14]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 27
	Highest OSS: [4.47,4.88]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5	9.1	N = 22
	[4.88,8.74]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	N = 35

		Student Growth Percentile 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	
Prior Scale Score Decile Range	1st/[-15,-1.49]	9.77	10.46	10.22	10.34	10.21	10.19	9.82	9.61	9.40	9.98	(10%)
	2nd/[-1.49,-0.983]	9.56	9.69	10.11	9.85	9.72	9.73	9.95	10.00	10.40	10.99	(9.9%)
	3rd/[-0.983,-0.602]	9.41	9.84	9.70	9.61	9.70	9.84	10.29	10.44	10.36	10.83	(10%)
	4th/[-0.602,-0.303]	9.78	10.19	9.87	9.86	10.07	10.26	9.83	10.01	9.76	10.38	(9.7%)
	5th/[-0.303,-0.0001]	9.46	10.20	10.28	10.38	10.14	9.90	9.86	9.47	9.85	10.45	(10.4%)
	6th/[-0.0001,0.265]	9.44	10.02	10.04	10.11	9.84	10.06	10.02	10.23	9.90	10.34	(9.7%)
	7th/[0.265,0.566]	9.57	9.87	10.10	9.76	9.87	9.84	10.11	9.94	10.12	10.81	(10%)
	8th/[0.566,0.91]	9.60	9.83	9.59	10.08	10.12	10.10	9.80	10.20	10.14	10.53	(10.3%)
	9th/[0.91,1.37]	9.85	10.22	10.20	9.79	9.99	9.92	10.02	9.95	9.69	10.36	(9.9%)
	10th/[1.37,15]	9.41	9.97	10.04	10.08	9.96	9.95	9.98	9.95	10.08	10.57	(10.1%)

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

QQ-Plot: Student Growth Percentiles

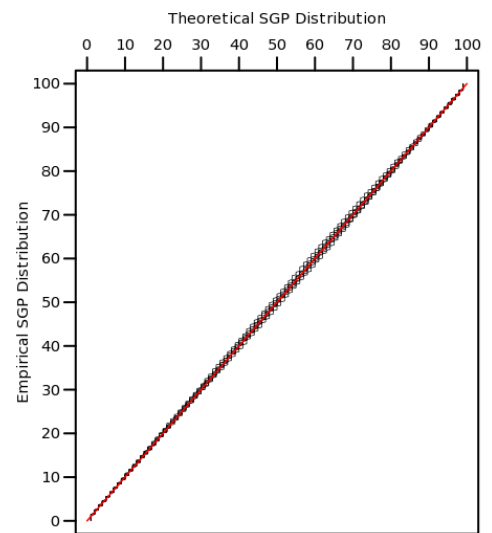
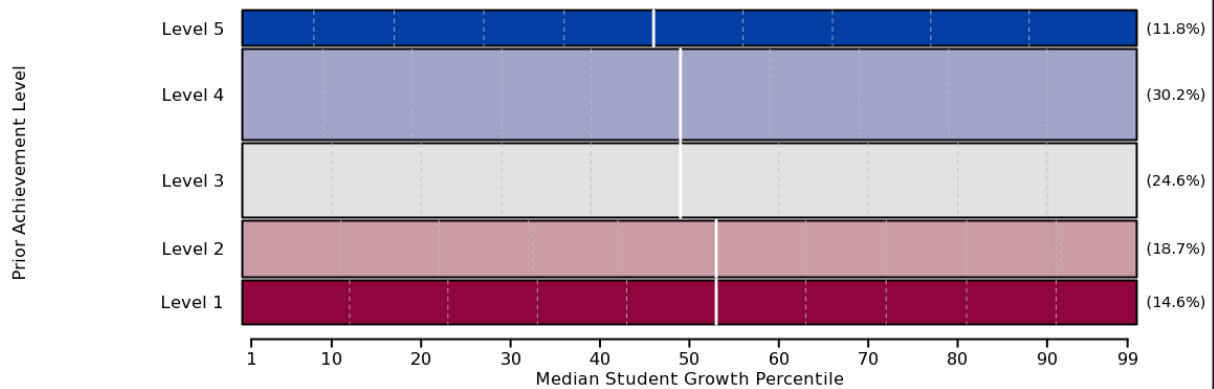


Figure 9: Goodness of Fit Plot for Spring 2017 Grade 8 ELA (Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 ELA SGP SIMEX Ranked, Grade 8 (N = 375,306)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

		Student Growth Percentile 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	
Current Observed Score Extremes (Range)	Lowest OSS: [-15,-4.79]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 23
	[-4.79,-4.14]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 27
	Highest OSS: [4.47,4.88]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	9.1	N = 22
	[4.88,8.74]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	N = 35

		Student Growth Percentile 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	
Prior Scale Score Decile Range	1st/[-15,-1.49]	7.62	9.12	9.48	9.62	10.24	10.52	10.65	10.80	10.73	11.22	(10%)
	2nd/[-1.49,-0.983]	8.15	8.92	9.48	9.62	10.05	10.06	10.31	10.58	11.04	11.79	(9.9%)
	3rd/[-0.983,-0.602]	8.60	9.40	9.52	9.57	9.89	9.96	10.19	10.81	10.75	11.32	(10%)
	4th/[-0.602,-0.303]	9.40	10.14	9.92	9.99	9.88	10.18	9.74	10.17	9.86	10.73	(9.7%)
	5th/[-0.303,-0.0001]	9.41	10.44	10.24	10.34	10.03	9.75	9.75	9.49	9.85	10.69	(10.4%)
	6th/[-0.0001,0.265]	9.64	10.17	10.03	10.05	9.75	10.00	9.91	10.09	9.93	10.42	(9.7%)
	7th/[0.265,0.566]	10.00	10.03	10.01	9.87	9.73	9.80	10.12	9.66	9.99	10.76	(10%)
	8th/[0.566,0.91]	10.28	10.16	9.69	10.31	9.92	10.17	9.43	9.99	9.86	10.19	(10.3%)
	9th/[0.91,1.37]	10.79	11.05	10.25	10.21	10.06	9.91	9.64	9.33	9.18	9.58	(9.9%)
	10th/[1.37,15]	11.31	11.17	10.72	10.36	10.30	9.87	9.32	9.26	8.94	8.76	(10.1%)

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

QQ-Plot: Student Growth Percentiles

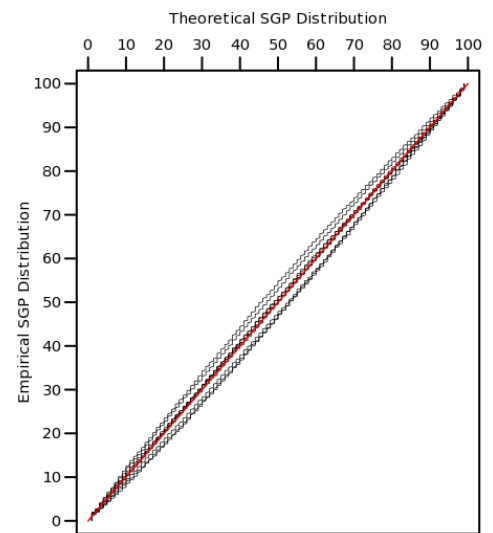


Figure 10: Goodness of Fit Plot for Spring 2017 Grade 8 ELA (SIMEX Corrected).

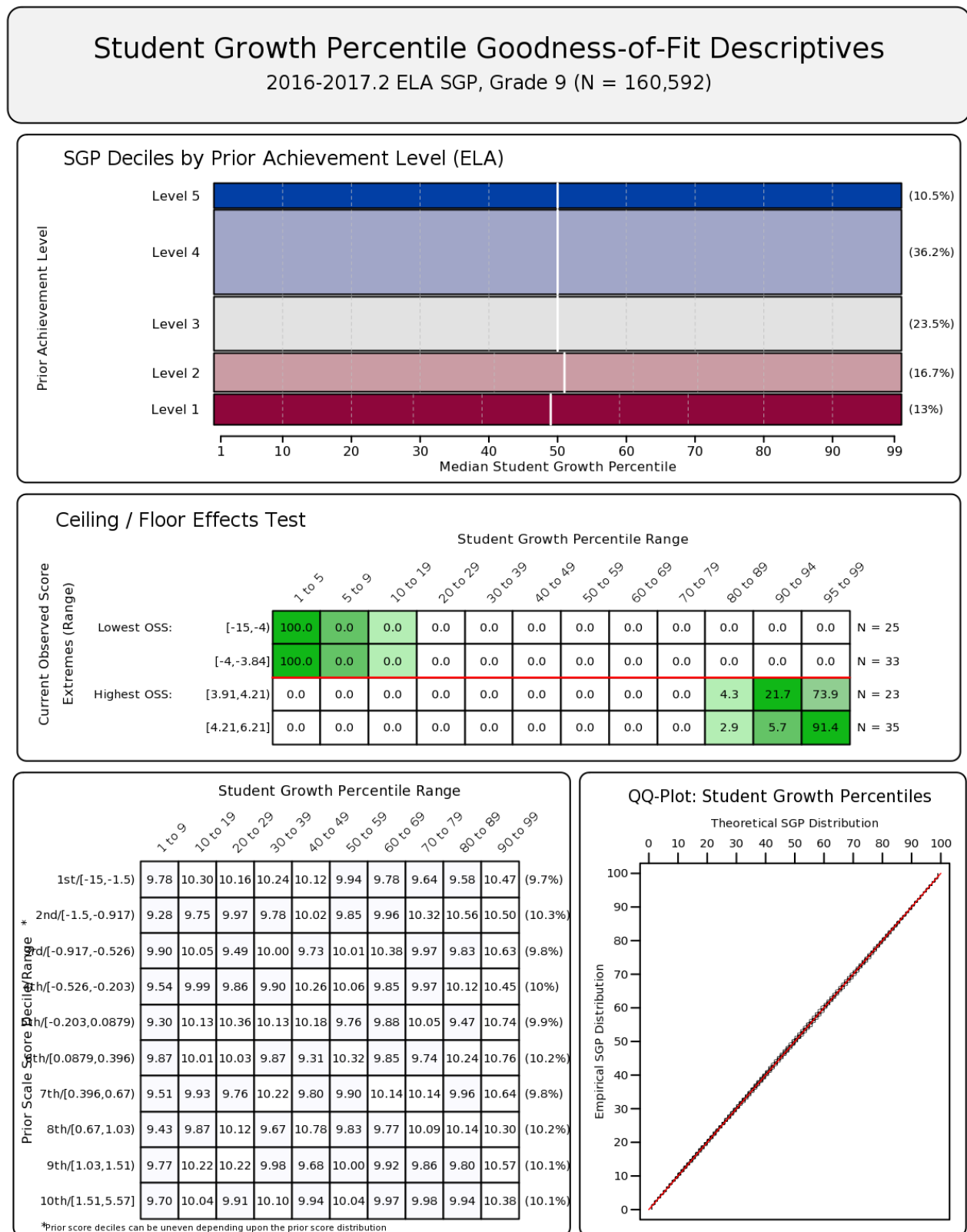
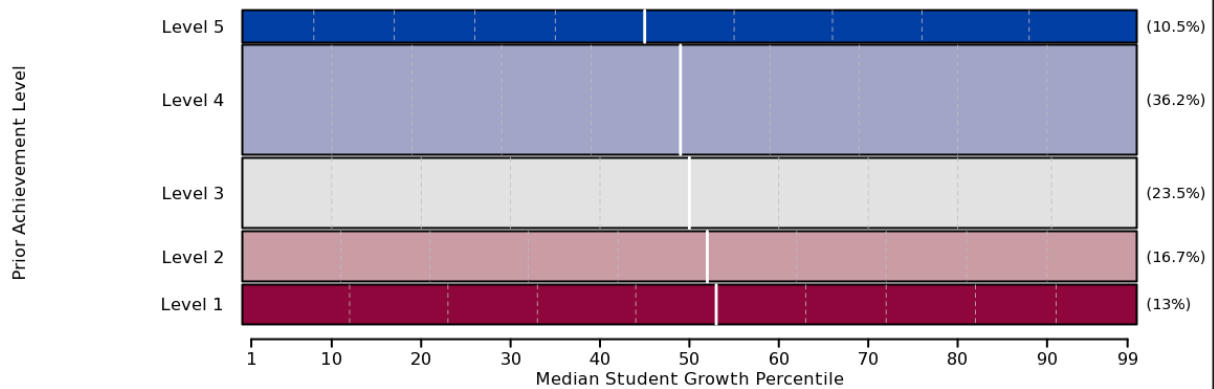


Figure 11: Goodness of Fit Plot for Spring 2017 Grade 9 ELA (Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 ELA SGP SIMEX Ranked, Grade 9 (N = 160,592)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

		Student Growth Percentile 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	
Current Observed Score Extremes (Range)	Lowest OSS:	[-15,-4]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 25
		[-4,-3.84]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 33
	Highest OSS:	[3.91,4.21]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	26.1	65.2	N = 23
		[4.21,6.21]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.7	91.4	N = 35

		Student Growth Percentile 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	
Prior Scale Score Decile Range *	1st/[-15,-1.5]	7.97	9.00	9.24	9.43	10.55	10.06	10.54	10.72	11.02	11.46	(9.7%)
	2nd/[-1.5,-0.917]	8.15	9.13	9.60	9.65	10.05	9.98	10.53	10.64	11.03	11.24	(10.3%)
	3rd/[-0.917,-0.526]	9.23	9.82	9.28	9.92	9.83	10.09	10.46	10.26	10.06	11.05	(9.8%)
	4th/[-0.526,-0.203]	9.05	10.01	9.84	10.03	10.08	10.14	9.92	9.95	10.16	10.82	(10%)
	5th/[-0.203,0.0879]	9.04	10.27	10.29	10.12	10.10	9.99	9.74	9.96	9.55	10.94	(9.9%)
	6th/[0.0879,0.396]	9.79	10.07	10.10	9.65	9.17	10.34	9.80	9.90	10.07	11.10	(10.2%)
	7th/[0.396,0.67]	9.60	9.98	9.84	10.12	9.79	9.86	9.97	10.36	9.59	10.88	(9.8%)
	8th/[0.67,1.03]	9.92	10.10	10.20	9.88	10.46	9.88	9.65	9.90	9.64	10.37	(10.2%)
	9th/[1.03,1.51]	10.67	10.82	10.74	10.20	9.61	10.00	9.56	9.23	9.19	10.00	(10.1%)
	10th/[1.51,5.57]	11.97	10.73	10.78	10.58	10.17	9.92	9.47	9.26	8.54	8.58	(10.1%)

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

QQ-Plot: Student Growth Percentiles

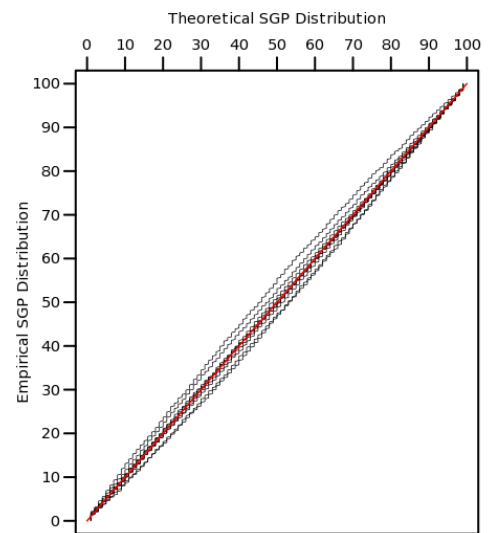
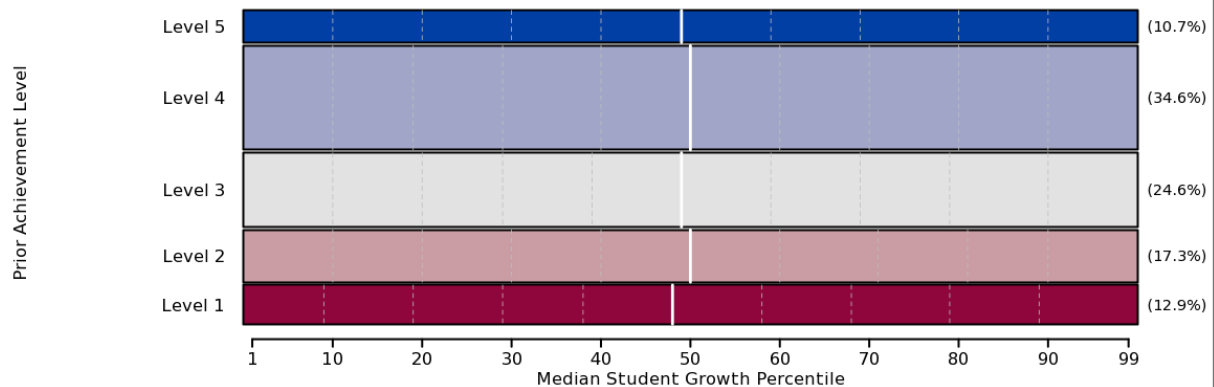


Figure 12: Goodness of Fit Plot for Spring 2017 Grade 9 ELA (SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 ELA SGP, Grade 10 (N = 103,452)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

		Student Growth Percentile 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	
Current Observed Score Extremes (Range)	Lowest OSS:	[-15,-4.48]	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 = 23
		[-4.48,-3.92]	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 = 28
	Highest OSS:	[3.42,3.56]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0	87.0	N = 23
		[3.56,4.87]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	9.8	85.4	N = 41

		Student Growth Percentile 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	
Prior Scale Score Decile Range	1st/[-15,-1.35]	10.02	10.20	10.52	10.21	10.42	10.39	9.94	9.46	9.19	9.66	(9.6%)
	2nd/[-1.35,-0.831]	9.89	10.32	10.03	9.94	9.62	9.80	9.63	9.60	10.61	10.55	(10.3%)
	3rd/[-0.831,-0.443]	9.56	10.00	9.96	10.04	9.60	9.82	9.76	10.42	9.92	10.92	(9.9%)
	4th/[-0.443,-0.119]	10.18	10.38	10.12	10.05	10.36	9.90	10.11	9.44	9.54	9.92	(10%)
	5th/[-0.119,0.158]	9.55	9.91	10.26	10.42	9.96	10.00	10.32	9.79	9.55	10.24	(10%)
	6th/[0.158,0.419]	9.80	9.99	9.75	10.11	10.06	9.72	9.89	9.84	10.19	10.66	(9.8%)
	7th/[0.419,0.717]	10.29	10.39	9.85	9.67	9.41	9.97	9.84	9.99	10.21	10.38	(10.1%)
	8th/[0.717,1.06]	10.18	9.65	10.25	9.96	10.17	10.10	10.00	9.55	9.82	10.31	(10%)
	9th/[1.06,1.55]	9.35	10.59	10.10	10.04	9.79	9.83	9.94	10.09	9.68	10.58	(10.2%)
	10th/[1.55,5.66]	9.70	9.89	10.02	10.14	10.22	10.06	9.86	9.79	10.07	10.25	(10%)

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

QQ-Plot: Student Growth Percentiles

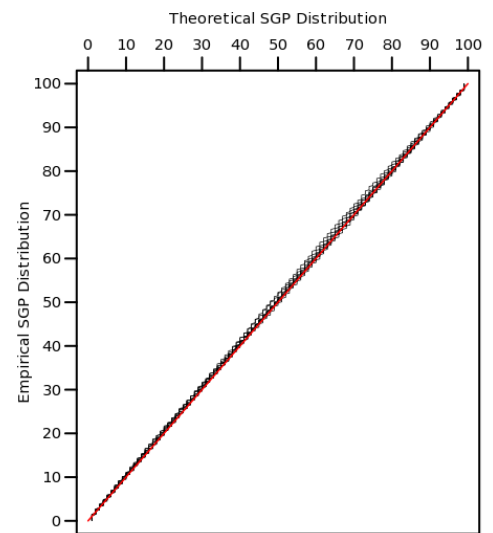
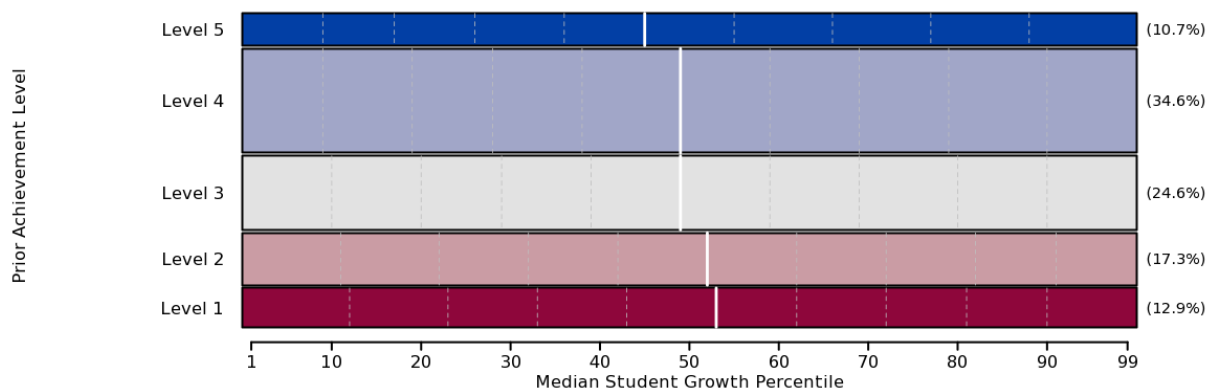


Figure 13: Goodness of Fit Plot for Spring 2017 Grade 10 ELA (Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 ELA SGP SIMEX Ranked, Grade 10 (N = 103,452)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

		Student Growth Percentile 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	
Current Observed Score Extremes (Range)	Lowest OSS:	[-15,-4.48]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 23
		[-4.48,-3.92]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 28
	Highest OSS:	[3.42,3.56]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.7	78.3	N = 23
		[3.56,4.87]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	7.3	80.5	N = 41

		Student Growth Percentile 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	
Prior Scale Score Decile Range	1st/[-15,-1.35]	7.98	8.94	9.41	9.56	10.19	10.40	10.95	11.17	10.68	10.71	(9.6%)
	2nd/[-1.35,-0.831]	8.42	9.34	9.05	9.91	10.09	9.92	10.25	10.38	11.18	11.46	(10.3%)
	3rd/[-0.831,-0.443]	8.83	9.31	9.57	9.87	9.81	9.78	10.24	10.83	10.25	11.50	(9.9%)
	4th/[-0.443,-0.119]	10.00	10.24	10.01	10.05	10.47	9.72	9.93	9.65	9.67	10.24	(10%)
	5th/[-0.119,0.158]	9.62	10.08	10.71	10.17	9.77	10.04	9.91	9.64	9.62	10.45	(10%)
	6th/[0.158,0.419]	9.97	10.03	10.18	10.12	9.71	9.85	9.50	9.90	10.21	10.53	(9.8%)
	7th/[0.419,0.717]	10.55	10.60	9.98	9.73	9.36	9.77	9.72	9.79	10.19	10.30	(10.1%)
	8th/[0.717,1.06]	10.54	9.95	10.31	10.30	10.22	9.94	9.94	9.34	9.34	10.11	(10%)
	9th/[1.06,1.55]	10.31	11.16	10.32	10.27	9.72	9.56	10.07	9.56	8.95	10.08	(10.2%)
	10th/[1.55,5.66]	11.32	11.00	10.77	10.55	10.68	9.83	9.38	8.84	9.08	8.55	(10%)

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

QQ-Plot: Student Growth Percentiles

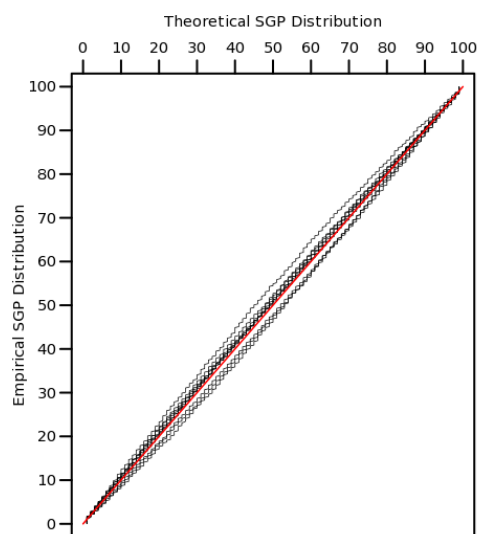


Figure 14: Goodness of Fit Plot for Spring 2017 Grade 10 ELA (SIMEX Corrected).

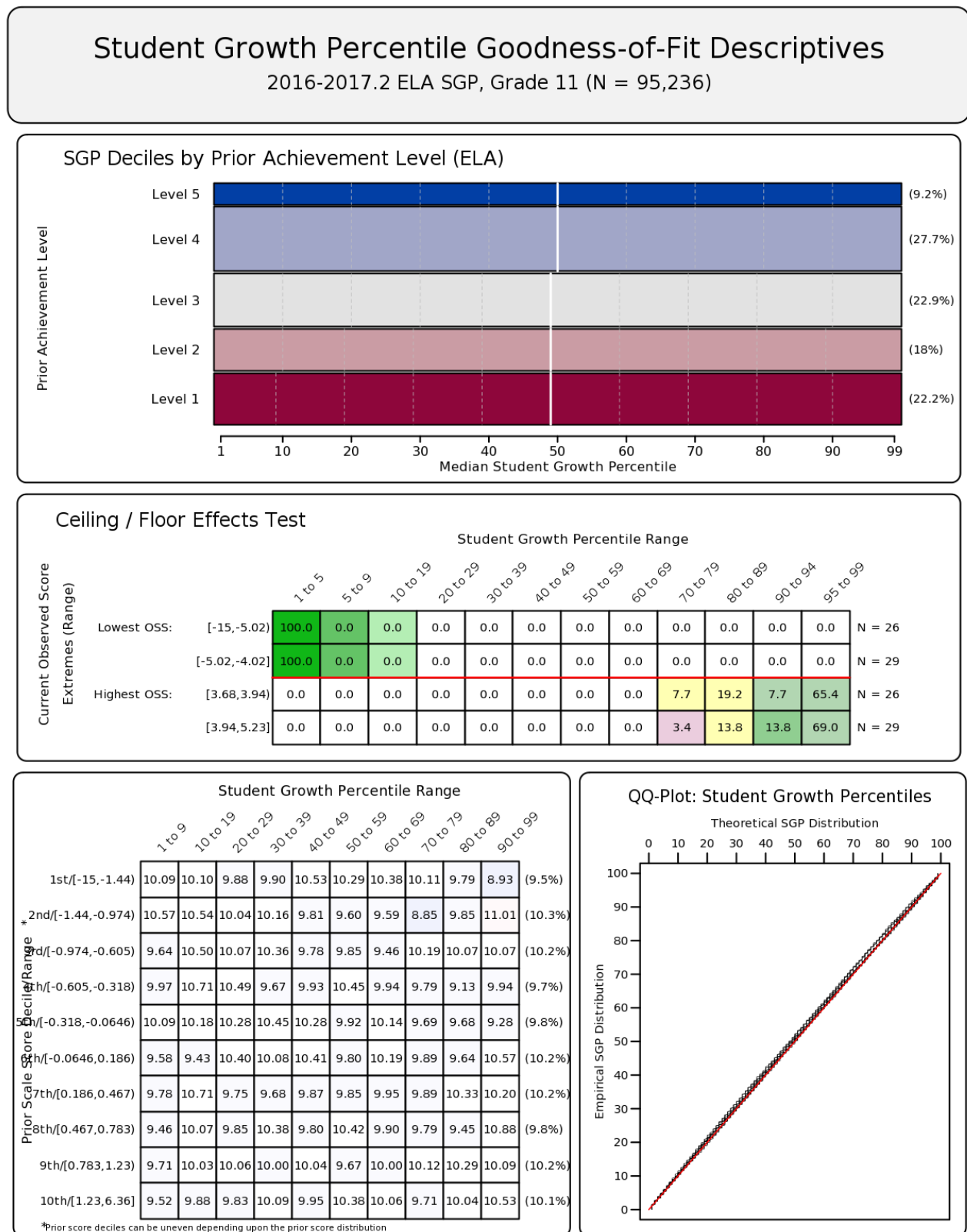
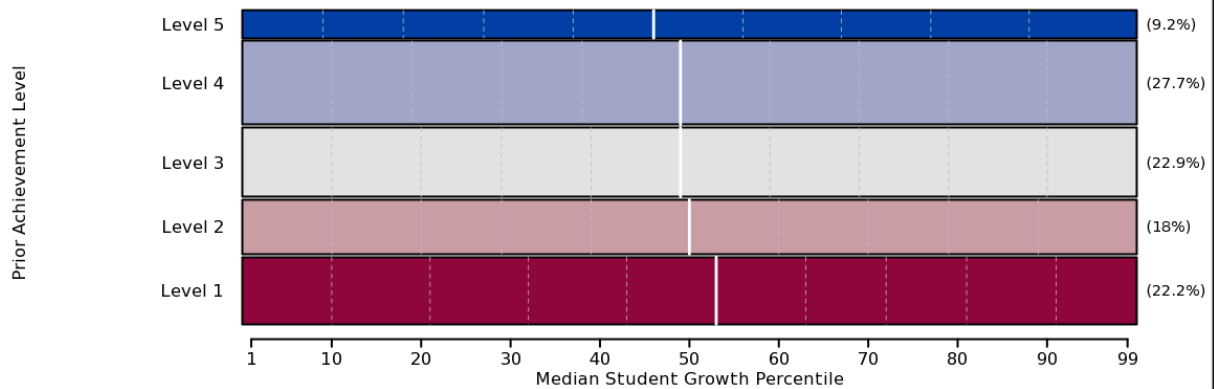


Figure 15: Goodness of Fit Plot for Spring 2017 Grade 11 ELA (Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 ELA SGP SIMEX Ranked, Grade 11 (N = 95,236)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

		Student Growth Percentile 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	
Current Observed Score Extremes (Range)	Lowest OSS: [-15,-5.02]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 26
	[-5.02,-4.02]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 29
	Highest OSS: [3.68,3.94]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	19.2	15.4	N = 26
	[3.94,5.23]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	13.8	17.2	N = 29

		Student Growth Percentile 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	
Prior Scale Score Decile Range	1st/[-15,-1.44]	8.80	8.77	8.81	8.45	10.61	10.22	11.26	11.66	11.21	10.21	(9.5%)
	2nd/[-1.44,-0.974]	9.32	9.54	9.69	9.46	9.36	9.95	10.63	9.53	10.60	11.91	(10.3%)
	3rd/[-0.974,-0.605]	9.25	9.72	9.95	10.06	9.54	9.90	9.75	10.79	10.55	10.50	(10.2%)
	4th/[-0.605,-0.318]	9.91	10.38	10.55	9.68	9.88	10.41	9.80	10.06	9.44	9.88	(9.7%)
	5th/[-0.318,-0.0646]	10.10	10.25	10.22	10.83	10.16	9.82	10.11	9.38	9.90	9.22	(9.8%)
	6th/[-0.0646,0.186]	9.70	9.73	10.26	10.08	10.50	9.99	9.89	9.49	9.79	10.56	(10.2%)
	7th/[0.186,0.467]	9.99	11.02	9.76	9.76	9.64	9.78	9.99	9.57	9.98	10.50	(10.2%)
	8th/[0.467,0.783]	9.65	10.55	9.96	10.52	10.03	10.52	9.60	9.19	9.15	10.84	(9.8%)
	9th/[0.783,1.23]	10.09	10.71	10.50	10.42	10.03	9.68	9.64	9.92	9.50	9.51	(10.2%)
	10th/[1.23,6.36]	10.59	10.88	11.05	10.24	10.76	10.01	9.20	9.47	8.82	8.99	(10.1%)

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

QQ-Plot: Student Growth Percentiles

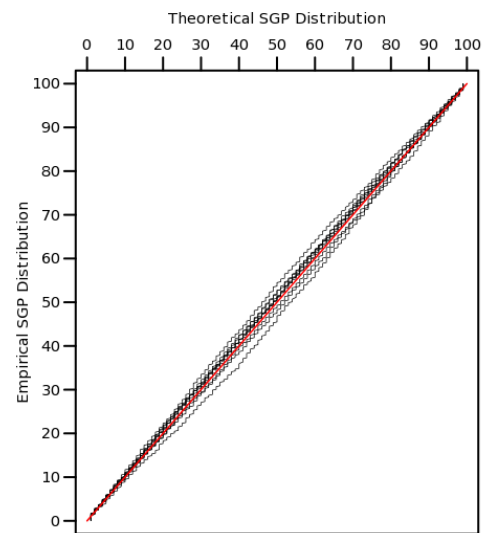


Figure 16: Goodness of Fit Plot for Spring 2017 Grade 11 ELA (SIMEX Corrected).

2.2 Mathematics

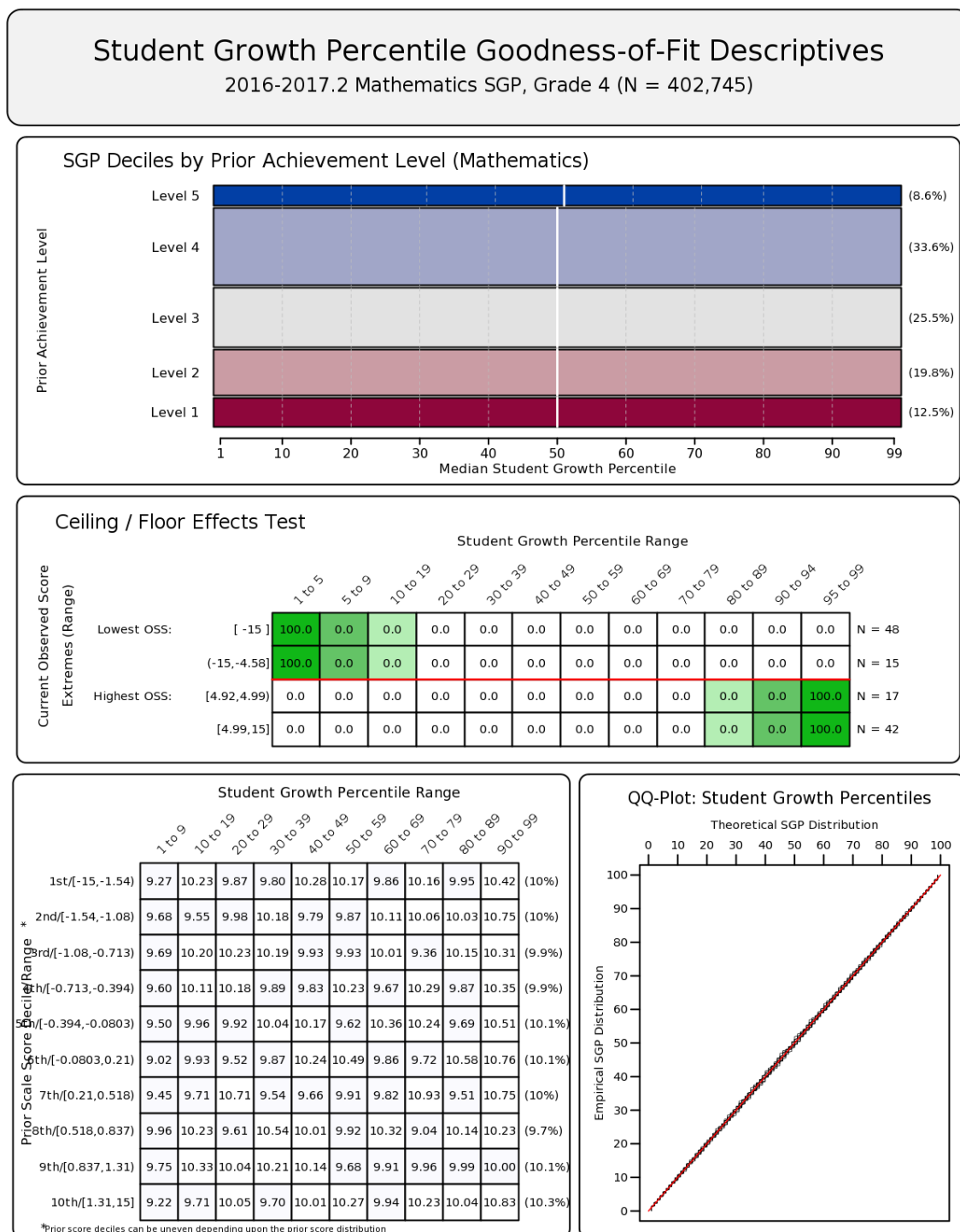
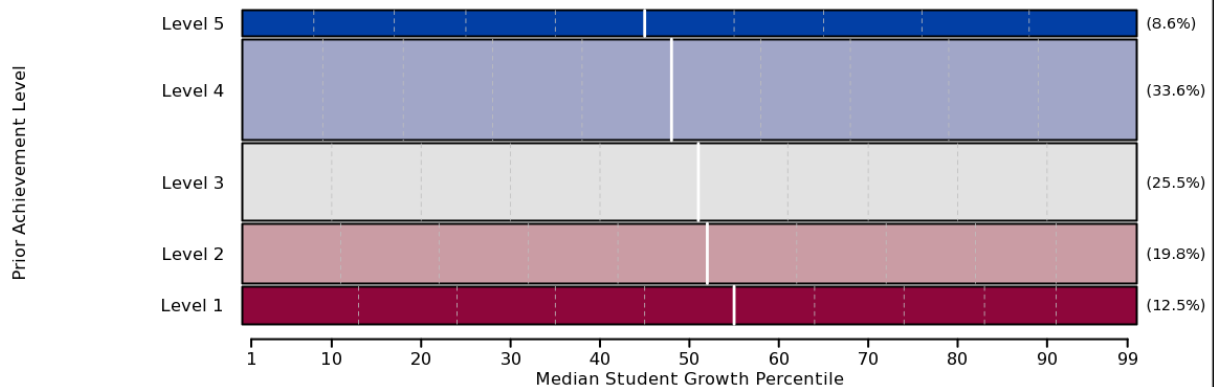


Figure 17: Goodness of Fit Plot for Grade 4 Mathematics, 2017 (Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 Mathematics SGP SIMEX Ranked, Grade 4 (N = 402,745)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

		Student Growth Percentile 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	
Current Observed Score Extremes (Range)	Lowest OSS: [-15]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 48
	(-15,-4.58]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 15
	Highest OSS: [4.92,4.99]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 17
	[4.99,15]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 42

		Student Growth Percentile 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	
Prior Scale Score Decile Range *	1st/[-15,-1.54]	6.99	7.99	8.91	10.29	10.22	9.69	10.83	11.26	11.44	12.37	(10%)
	2nd/[-1.54,-1.08]	7.72	9.11	9.20	9.29	9.84	10.95	10.39	9.81	11.57	12.11	(10%)
	3rd/[-1.08,-0.713]	8.88	9.64	9.44	9.98	9.76	10.62	10.74	9.32	10.78	10.85	(9.9%)
	4th/[-0.713,-0.394]	9.08	9.86	10.12	10.31	9.16	10.62	9.67	10.60	10.02	10.57	(9.9%)
	5th/[-0.394,-0.0803]	9.27	10.26	9.29	10.31	10.07	9.64	10.07	10.69	9.98	10.43	(10.1%)
	6th/[-0.0803,0.21]	9.36	10.01	9.37	9.53	10.67	9.87	10.06	9.96	9.85	11.30	(10.1%)
	7th/[0.21,0.518]	9.58	10.34	10.63	9.66	9.83	9.89	9.30	10.47	9.74	10.55	(10%)
	8th/[0.518,0.837]	10.74	10.71	10.58	9.72	10.49	9.62	9.27	9.74	9.52	9.62	(9.7%)
	9th/[0.837,1.31]	11.53	10.58	11.13	10.39	10.03	9.41	9.90	8.99	9.27	8.77	(10.1%)
	10th/[1.31,15]	11.59	11.62	11.02	10.23	10.14	9.96	9.29	9.20	8.63	8.33	(10.3%)

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

QQ-Plot: Student Growth Percentiles

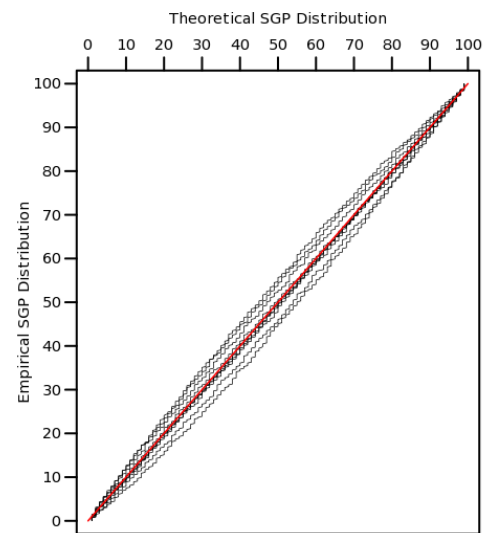
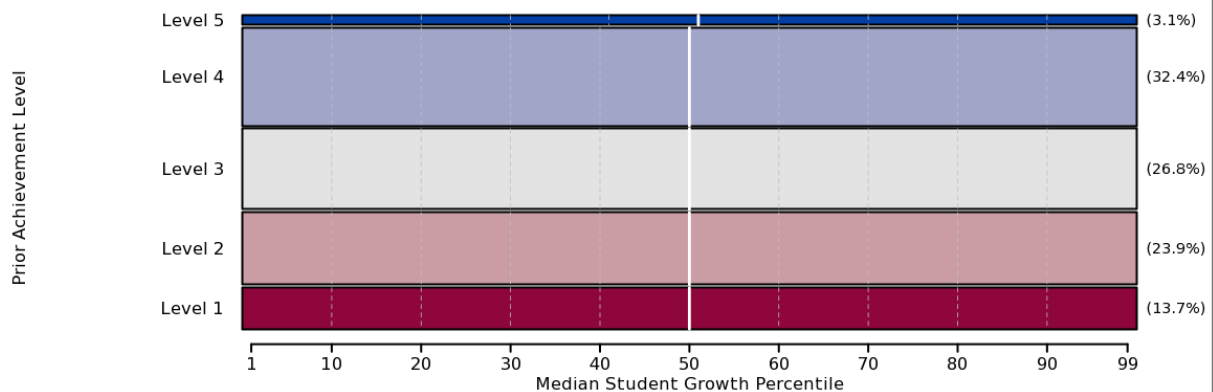


Figure 18: Goodness of Fit Plot for Grade 4 Mathematics, Spring 2017 (SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 Mathematics SGP, Grade 5 (N = 393,845)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

		Student Growth Percentile 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	
Current Observed Score Extremes (Range)	Lowest OSS: [-15,-4.8]	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 = 22
	[-4.7978]	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 = 32
	Highest OSS: [4.88,5.24]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 8
	[5.24,15]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	93.8	N = 48

		Student Growth Percentile 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	
Prior Scale Score Decile Range *	1st/[-15,-1.59]	10.01	10.16	9.97	10.00	9.84	9.94	9.99	9.90	9.95	10.23	(9.7%)
	2nd/[-1.59,-1.13]	9.14	9.95	9.91	10.07	10.17	9.94	10.11	10.04	9.93	10.73	(10%)
	3rd/[-1.13,-0.795]	9.31	9.83	10.11	9.97	9.76	10.07	9.90	10.03	10.19	10.84	(10.2%)
	4th/[-0.795,-0.487]	9.57	10.11	9.97	9.73	10.09	10.02	9.86	10.05	9.95	10.65	(10%)
	5th/[-0.487,-0.171]	9.85	10.18	9.89	10.05	9.99	9.77	10.07	10.02	9.98	10.20	(10%)
	6th/[-0.171,0.153]	9.22	9.61	10.02	10.28	10.11	9.98	10.12	9.93	10.19	10.54	(9.9%)
	7th/[0.153,0.442]	9.31	10.01	10.06	9.79	10.02	10.08	9.83	10.08	10.04	10.78	(10.1%)
	8th/[0.442,0.788]	9.69	10.14	9.98	9.89	9.82	10.09	10.00	9.87	9.89	10.64	(9.9%)
	9th/[0.788,1.26]	9.88	10.25	10.15	9.92	9.99	9.77	9.92	10.04	9.81	10.28	(10%)
	10th/[1.26,15]	9.21	9.77	9.80	10.14	10.06	10.07	10.08	10.00	10.20	10.67	(10.1%)

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

QQ-Plot: Student Growth Percentiles

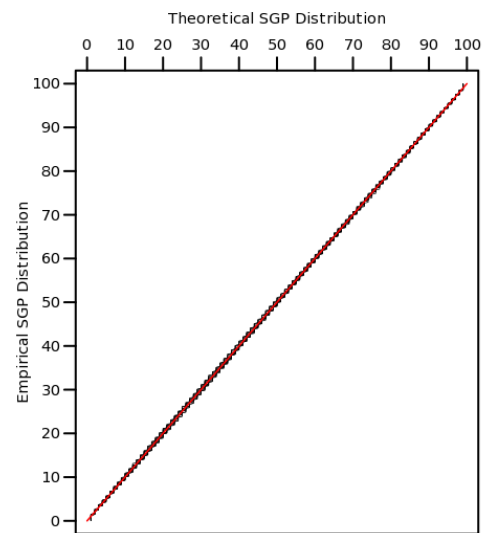
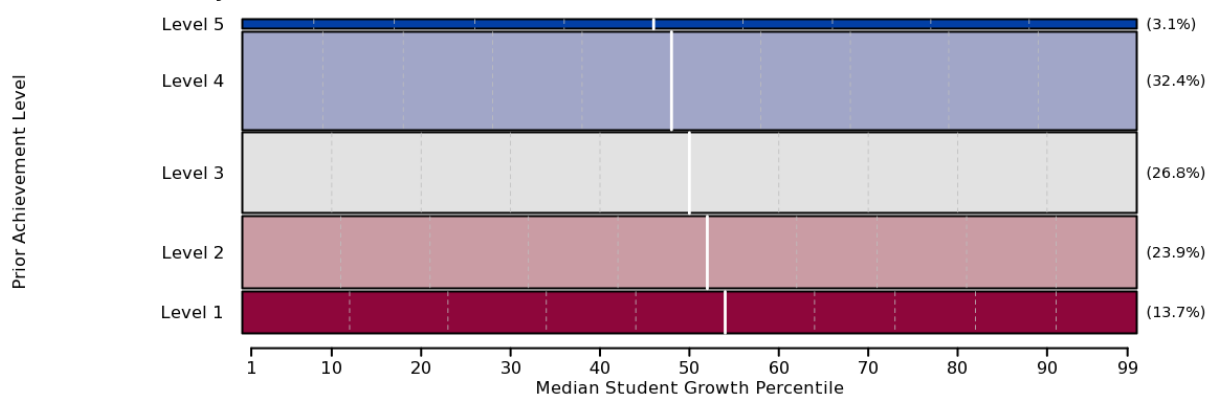


Figure 19: Goodness of Fit Plot for Spring 2017 Grade 5 Mathematics (Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 Mathematics SGP SIMEX Ranked, Grade 5 (N = 393,845)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

		Student Growth Percentile 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	
Current Observed Score Extremes (Range)	Lowest OSS:	[-15,-4.8]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 22
		[-4.7978]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 32
	Highest OSS:	[4.88,5.24]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 8
		[5.24,15]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	93.8	N = 48

		Student Growth Percentile 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	
Prior Scale Score Decile Range *	1st/[-15,-1.59]	7.77	8.89	9.37	9.72	9.58	10.39	10.70	10.84	11.08	11.66	(9.7%)
	2nd/[-1.59,-1.13]	7.72	9.09	9.68	9.76	10.08	10.33	10.40	10.62	10.62	11.71	(10%)
	3rd/[-1.13,-0.795]	8.51	9.48	9.80	9.91	9.58	10.32	10.08	10.31	10.65	11.35	(10.2%)
	4th/[-0.795,-0.487]	9.45	9.66	9.90	9.69	10.17	10.01	9.98	10.30	9.94	10.90	(10%)
	5th/[-0.487,-0.171]	10.03	10.07	9.78	10.15	9.92	9.75	10.13	9.97	9.93	10.27	(10%)
	6th/[-0.171,0.153]	9.30	9.88	10.04	10.15	10.27	9.75	10.14	9.78	10.17	10.54	(9.9%)
	7th/[0.153,0.442]	9.55	10.30	10.03	9.94	10.18	9.98	9.67	9.80	9.92	10.62	(10.1%)
	8th/[0.442,0.788]	10.26	10.65	10.00	9.99	10.07	9.82	9.82	9.54	9.58	10.26	(9.9%)
	9th/[0.788,1.26]	11.10	10.97	10.22	10.31	9.87	9.47	9.78	9.46	9.32	9.50	(10%)
	10th/[1.26,15]	11.28	10.75	10.46	10.44	9.80	10.10	9.67	9.51	9.14	8.84	(10.1%)

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

QQ-Plot: Student Growth Percentiles

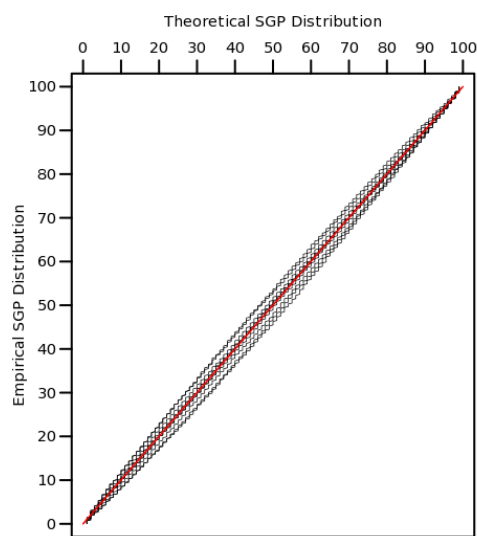


Figure 20: Goodness of Fit Plot for Spring 2017 Grade 5 Mathematics (SIMEX Corrected).

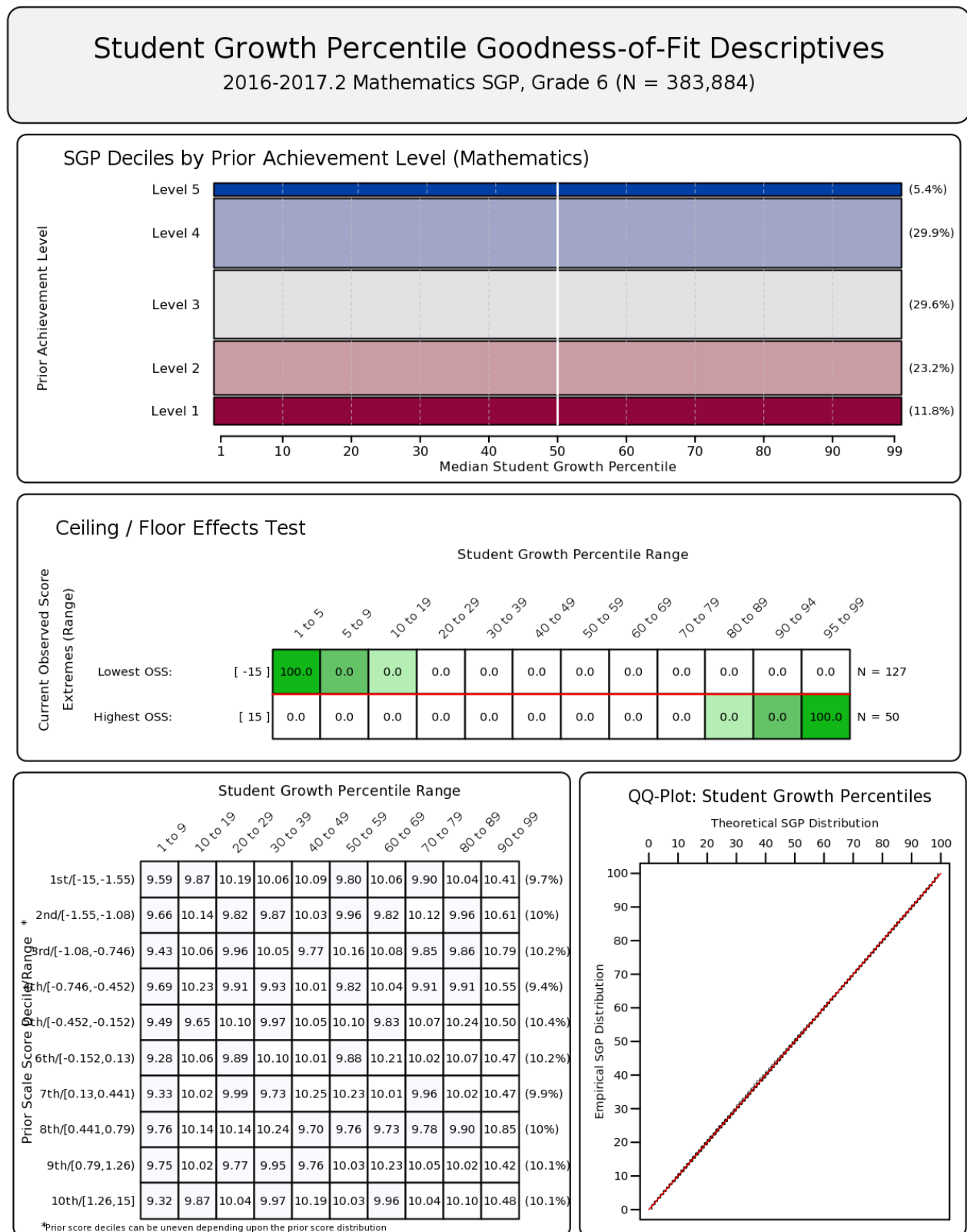


Figure 21: Goodness of Fit Plot for Spring 2017 Grade 6 Mathematics (Uncorrected).

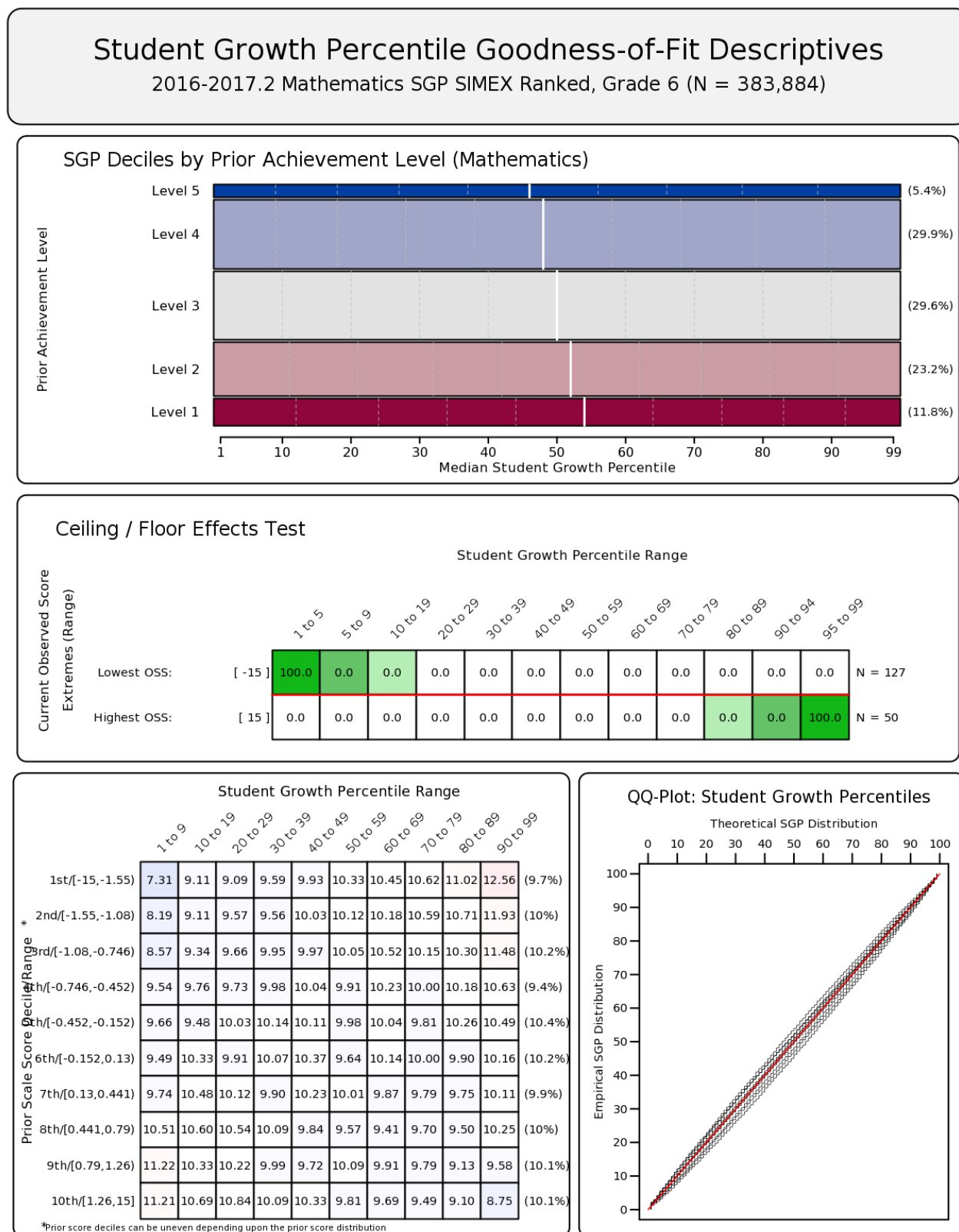


Figure 22: Goodness of Fit Plot for Spring 2017 Grade 6 Mathematics (SIMEX Corrected).

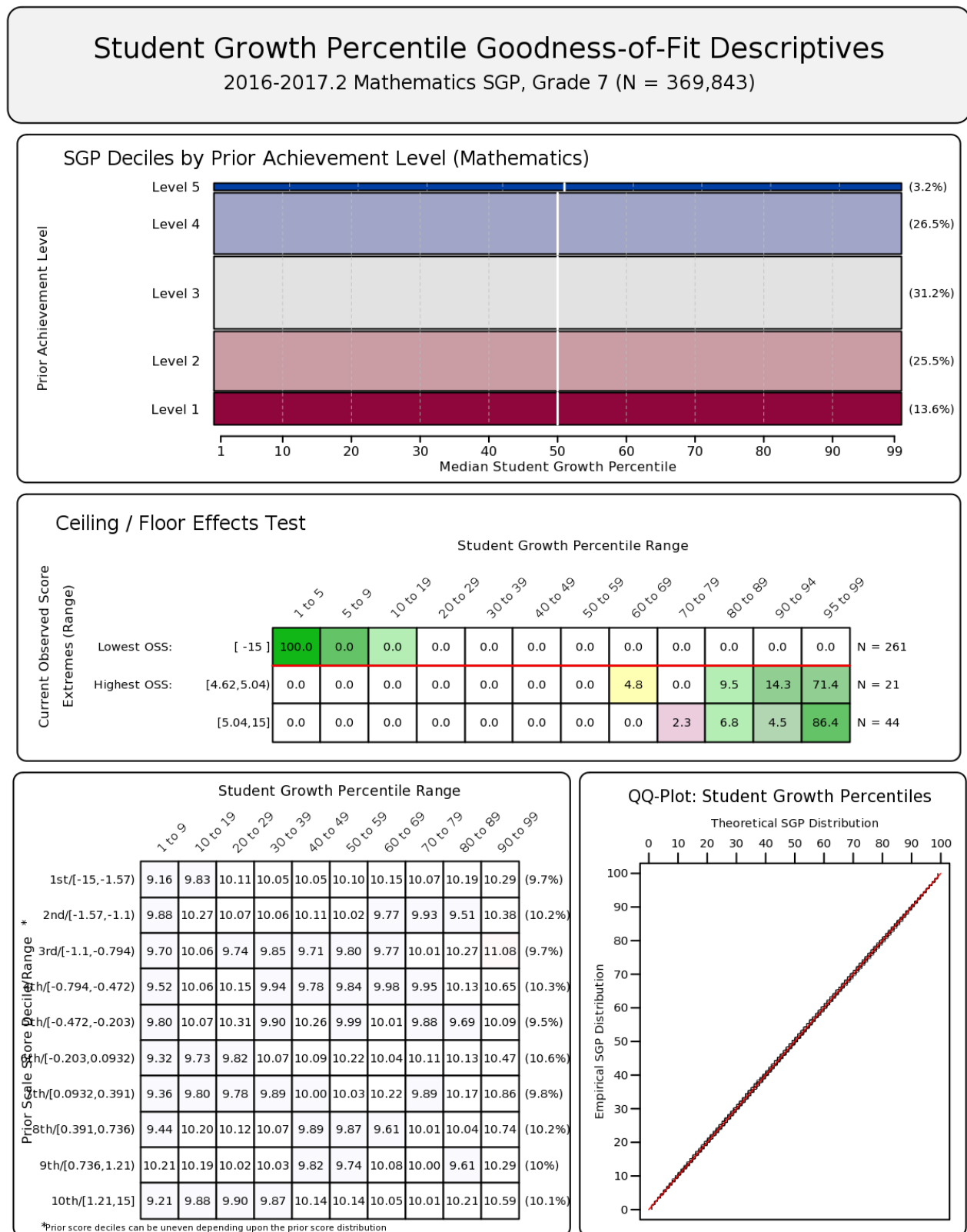


Figure 23: Goodness of Fit Plot for Spring 2017 Grade 7 Mathematics (Uncorrected).

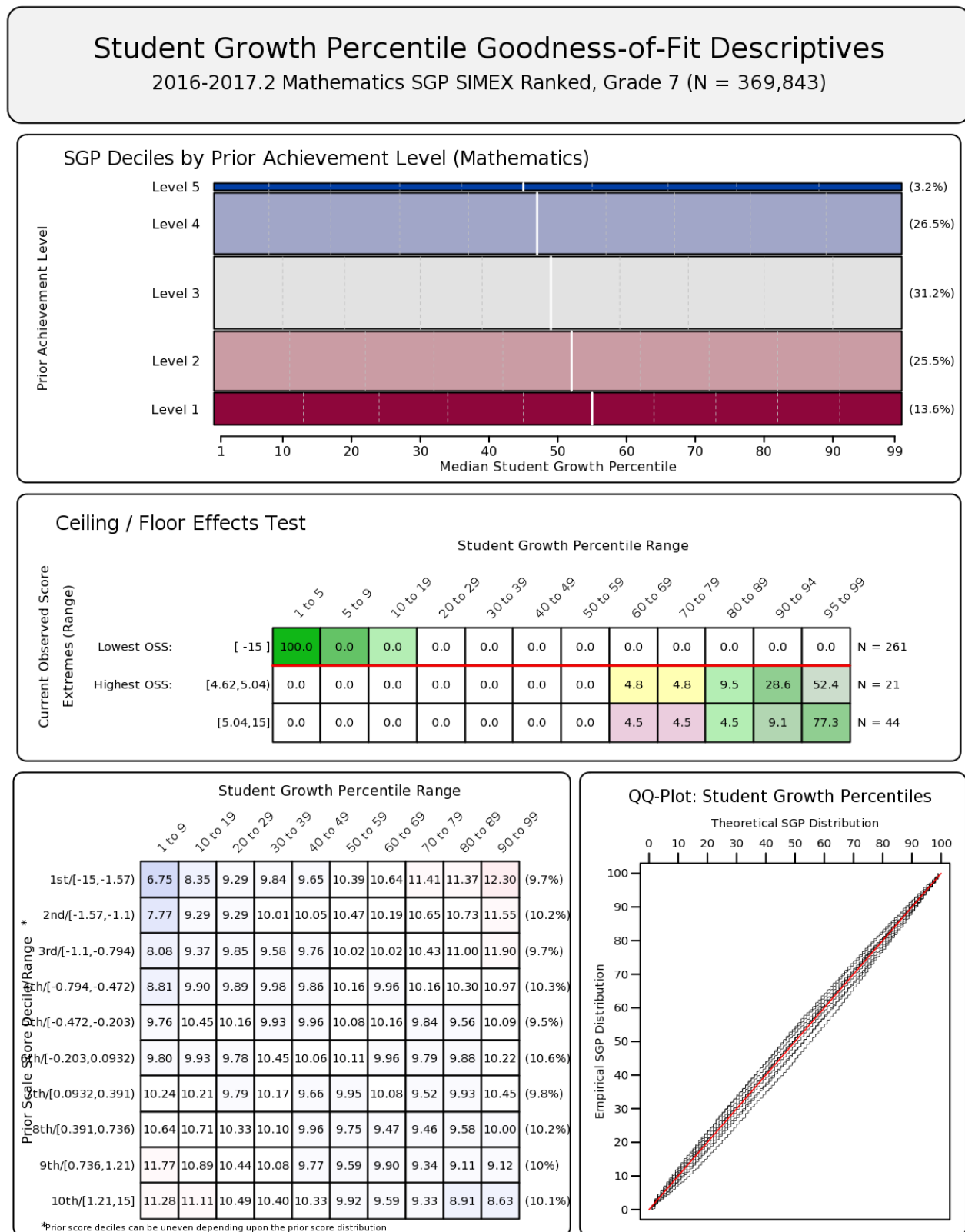


Figure 24: Goodness of Fit Plot for Spring 2017 Grade 7 Mathematics (SIMEX Corrected).

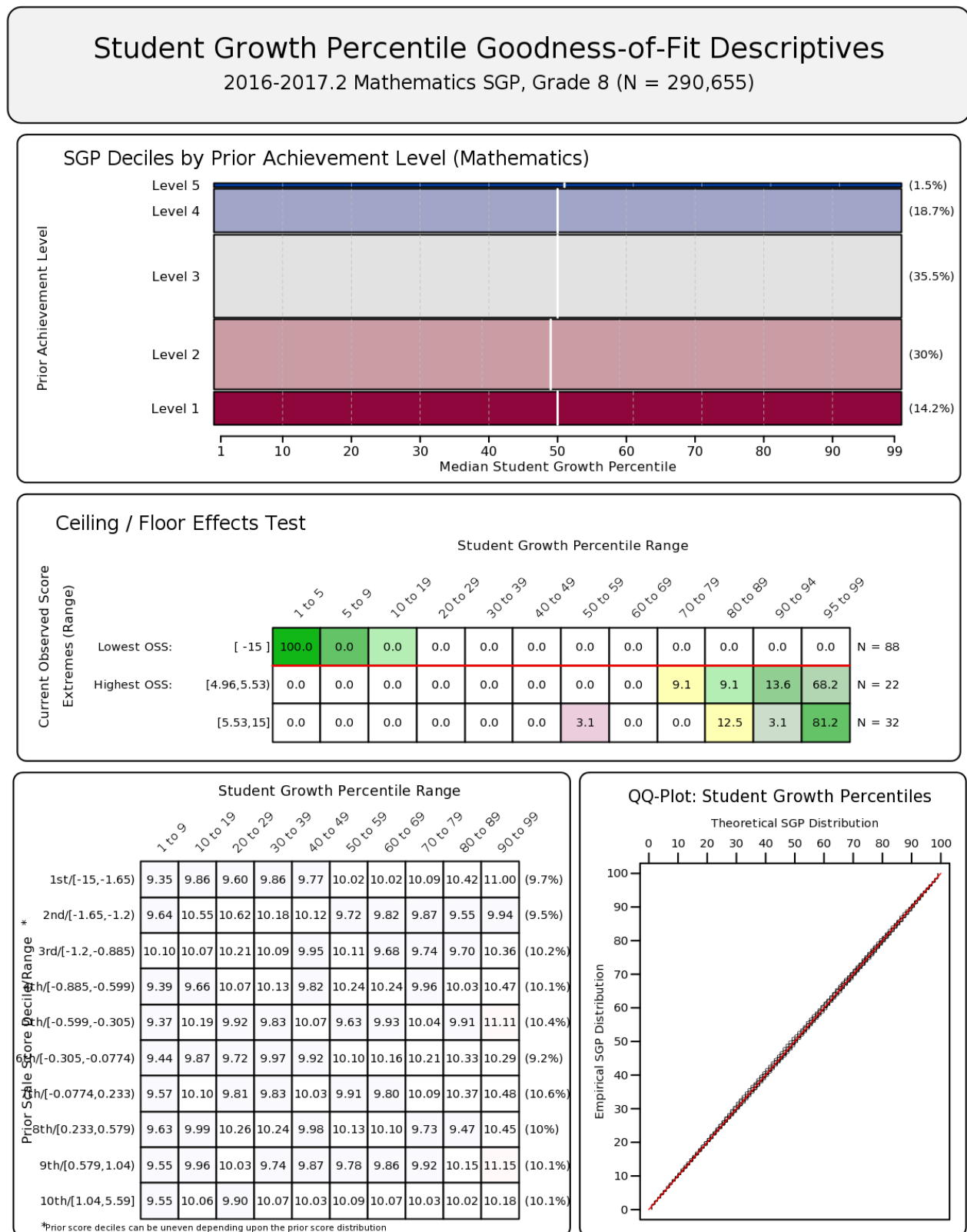


Figure 25: Goodness of Fit Plot for Spring 2017 Grade 8 Mathematics (Uncorrected).

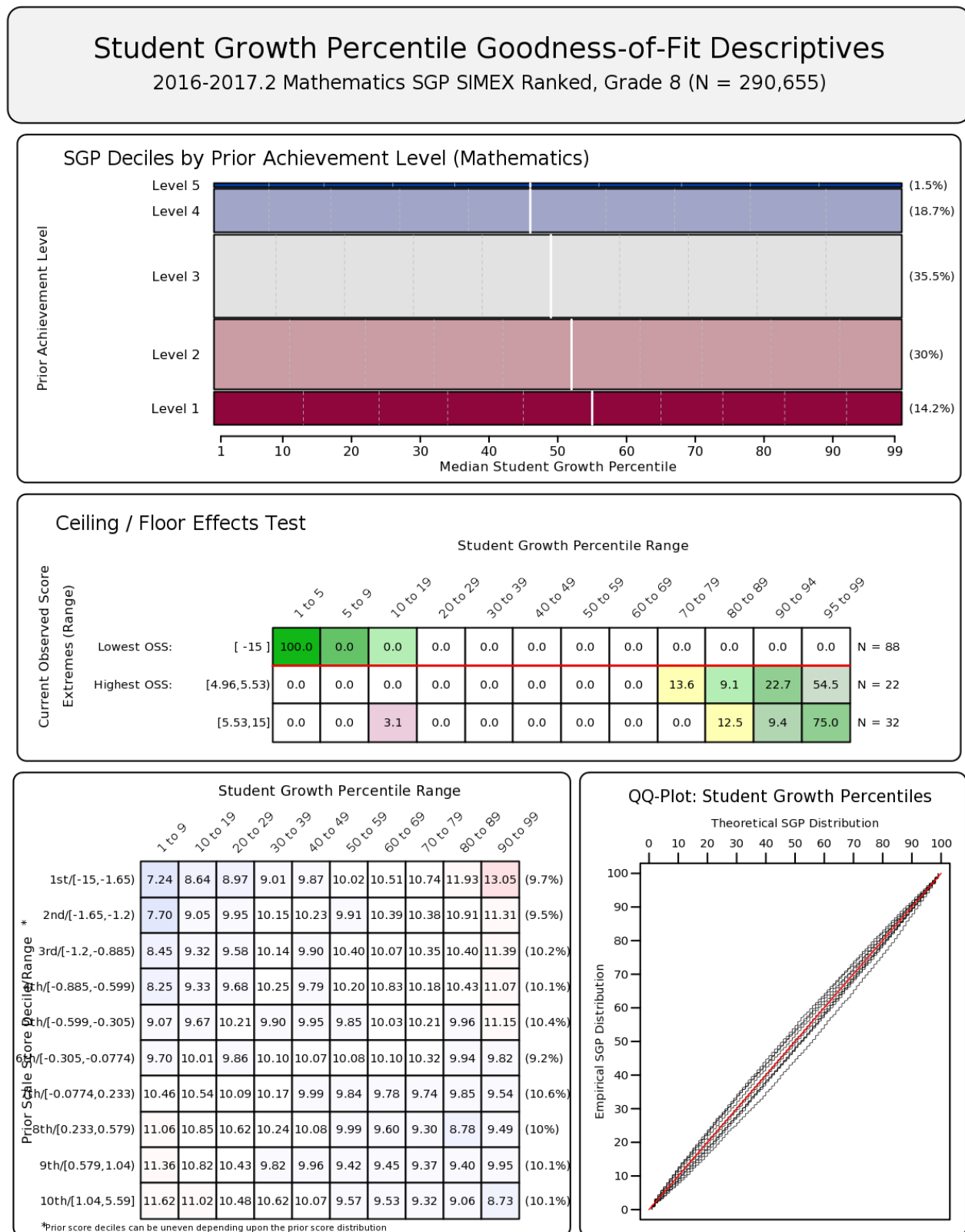
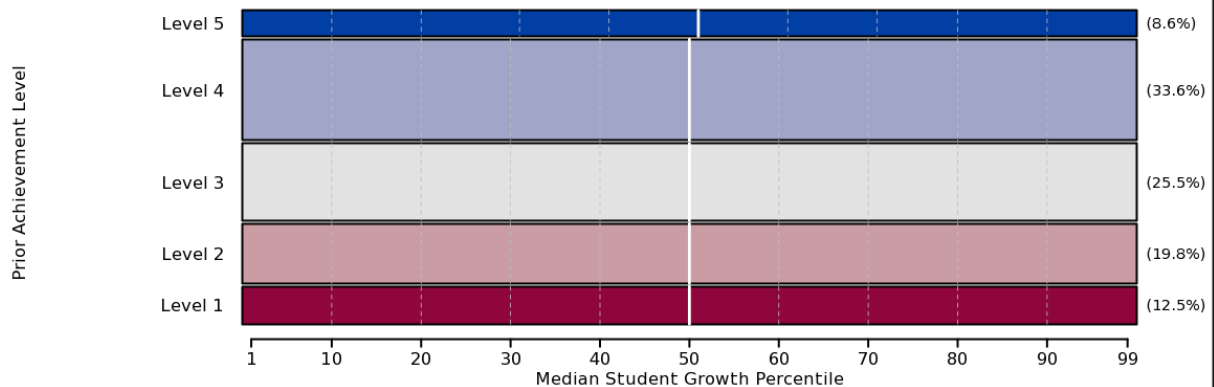


Figure 26: Goodness of Fit Plot for Spring 2017 Grade 8 Mathematics (SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 Mathematics SGP, Grade 4 (N = 402,745)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

		Student Growth Percentile 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	
Current Observed Score Extremes (Range)	Lowest OSS: [-15]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 48
	(-15,-4.58]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 15
	Highest OSS: [4.92,4.99]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 17
	[4.99,15]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 42

		Student Growth Percentile 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	
Prior Scale Score Decile Range *	1st/[-15,-1.54]	9.27	10.23	9.87	9.80	10.28	10.17	9.86	10.16	9.95	10.42	(10%)
	2nd/[-1.54,-1.08]	9.68	9.55	9.98	10.18	9.79	9.87	10.11	10.06	10.03	10.75	(10%)
	3rd/[-1.08,-0.713]	9.69	10.20	10.23	10.19	9.93	9.93	10.01	9.36	10.15	10.31	(9.9%)
	4th/[-0.713,-0.394]	9.60	10.11	10.18	9.89	9.83	10.23	9.67	10.29	9.87	10.35	(9.9%)
	5th/[-0.394,-0.0803]	9.50	9.96	9.92	10.04	10.17	9.62	10.36	10.24	9.69	10.51	(10.1%)
	6th/[-0.0803,0.21]	9.02	9.93	9.52	9.87	10.24	10.49	9.86	9.72	10.58	10.76	(10.1%)
	7th/[0.21,0.518]	9.45	9.71	10.71	9.54	9.66	9.91	9.82	10.93	9.51	10.75	(10%)
	8th/[0.518,0.837]	9.96	10.23	9.61	10.54	10.01	9.92	10.32	9.04	10.14	10.23	(9.7%)
	9th/[0.837,1.31]	9.75	10.33	10.04	10.21	10.14	9.68	9.91	9.96	9.99	10.00	(10.1%)
	10th/[1.31,15]	9.22	9.71	10.05	9.70	10.01	10.27	9.94	10.23	10.04	10.83	(10.3%)

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

QQ-Plot: Student Growth Percentiles

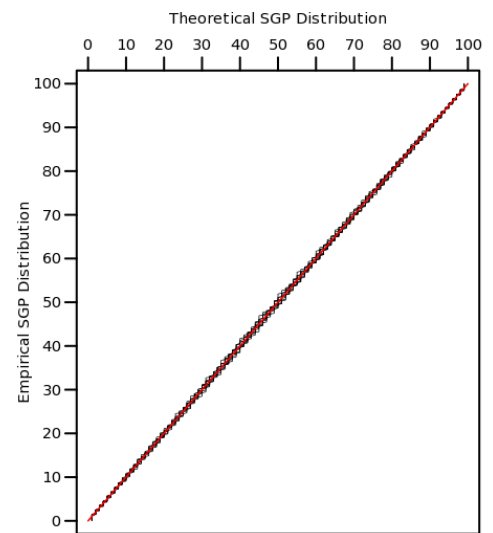
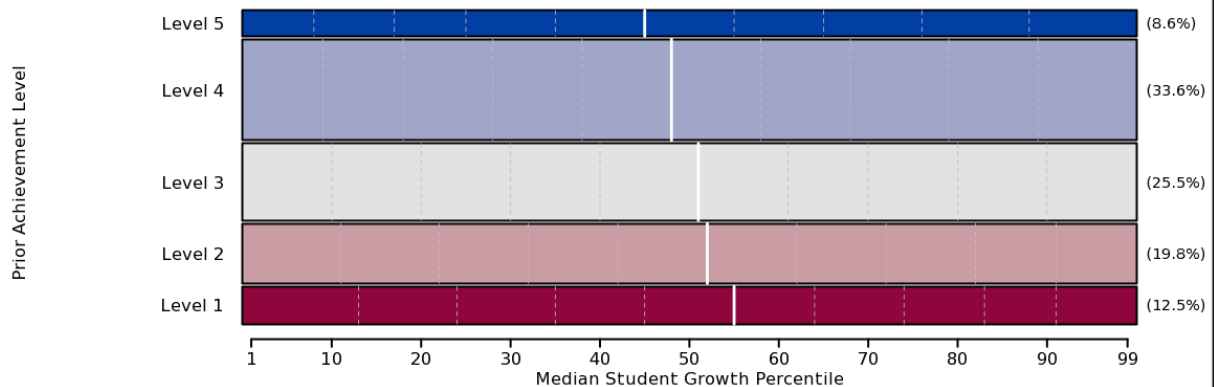


Figure 27: Goodness of Fit Plot for Spring 2017 Grade 4 Mathematics (Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 Mathematics SGP SIMEX Ranked, Grade 4 (N = 402,745)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

		Student Growth Percentile 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	
Current Observed Score Extremes (Range)	Lowest OSS:	[-15]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 48
		(-15,-4.58]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 15
	Highest OSS:	[4.92,4.99]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.4	70.6	N = 17
		[4.99,15]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	90.5	N = 42

		Student Growth Percentile 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	
Prior Scale Score Decile Range *	1st/[-15,-1.54]	6.99	7.99	8.91	10.29	10.22	9.69	10.83	11.26	11.44	12.37	(10%)
	2nd/[-1.54,-1.08]	7.72	9.11	9.20	9.29	9.84	10.95	10.39	9.81	11.57	12.11	(10%)
	3rd/[-1.08,-0.713]	8.88	9.64	9.44	9.98	9.76	10.62	10.74	9.32	10.78	10.85	(9.9%)
	4th/[-0.713,-0.394]	9.08	9.86	10.12	10.31	9.16	10.62	9.67	10.60	10.02	10.57	(9.9%)
	5th/[-0.394,-0.0803]	9.27	10.26	9.29	10.31	10.07	9.64	10.07	10.69	9.98	10.43	(10.1%)
	6th/[-0.0803,0.21]	9.36	10.01	9.37	9.53	10.67	9.87	10.06	9.96	9.85	11.30	(10.1%)
	7th/[0.21,0.518]	9.58	10.34	10.63	9.66	9.83	9.89	9.30	10.47	9.74	10.55	(10%)
	8th/[0.518,0.837]	10.74	10.71	10.58	9.72	10.49	9.62	9.27	9.74	9.52	9.62	(9.7%)
	9th/[0.837,1.31]	11.53	10.58	11.13	10.39	10.03	9.41	9.90	8.99	9.27	8.77	(10.1%)
	10th/[1.31,15]	11.59	11.62	11.02	10.23	10.14	9.96	9.29	9.20	8.63	8.33	(10.3%)

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

QQ-Plot: Student Growth Percentiles

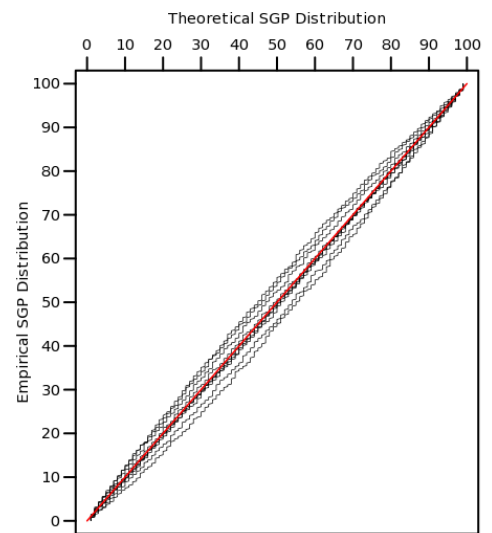
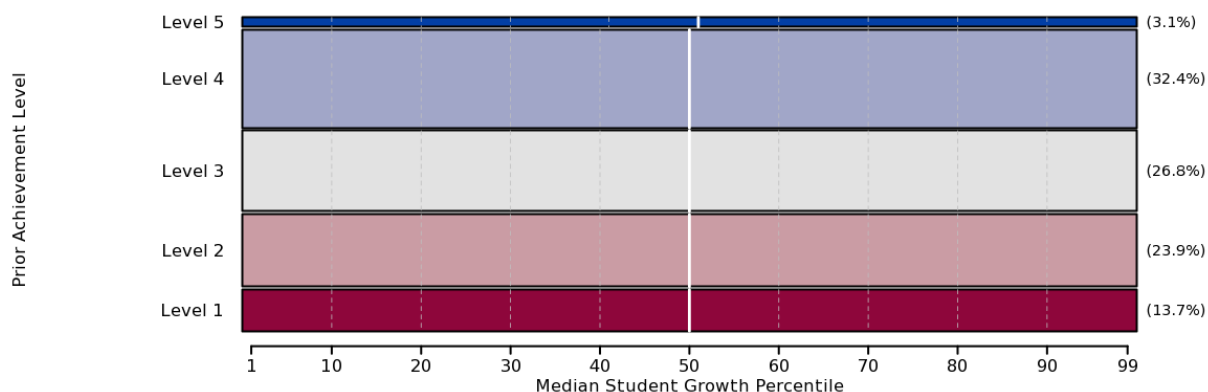


Figure 28: Goodness of Fit Plot for Spring 2017 Grade 4 Mathematics (SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 Mathematics SGP, Grade 5 (N = 393,845)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

		Student Growth Percentile 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	
Current Observed Score Extremes (Range)	Lowest OSS: [-15, -4.8]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 22
	[-4.7978]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 32
	Highest OSS: [4.88, 5.24]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 8
	[5.24, 15]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	93.8	N = 48

		Student Growth Percentile 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	
Prior Scale Score Decile Range *	1st/[-15, -1.59]	10.01	10.16	9.97	10.00	9.84	9.94	9.99	9.90	9.95	10.23	(9.7%)
	2nd/[-1.59, -1.13]	9.14	9.95	9.91	10.07	10.17	9.94	10.11	10.04	9.93	10.73	(10%)
	3rd/[-1.13, -0.795]	9.31	9.83	10.11	9.97	9.76	10.07	9.90	10.03	10.19	10.84	(10.2%)
	4th/[-0.795, -0.487]	9.57	10.11	9.97	9.73	10.09	10.02	9.86	10.05	9.95	10.65	(10%)
	5th/[-0.487, -0.171]	9.85	10.18	9.89	10.05	9.99	9.77	10.07	10.02	9.98	10.20	(10%)
	6th/[-0.171, 0.153]	9.22	9.61	10.02	10.28	10.11	9.98	10.12	9.93	10.19	10.54	(9.9%)
	7th/[0.153, 0.442]	9.31	10.01	10.06	9.79	10.02	10.08	9.83	10.08	10.04	10.78	(10.1%)
	8th/[0.442, 0.788]	9.69	10.14	9.98	9.89	9.82	10.09	10.00	9.87	9.89	10.64	(9.9%)
	9th/[0.788, 1.26]	9.88	10.25	10.15	9.92	9.99	9.77	9.92	10.04	9.81	10.28	(10%)
	10th/[1.26, 15]	9.21	9.77	9.80	10.14	10.06	10.07	10.08	10.00	10.20	10.67	(10.1%)

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

QQ-Plot: Student Growth Percentiles

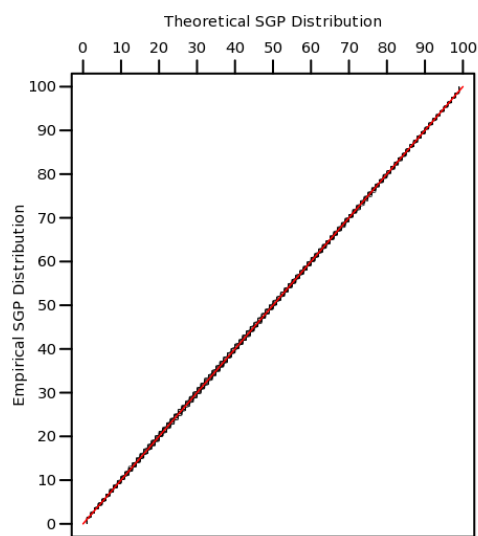
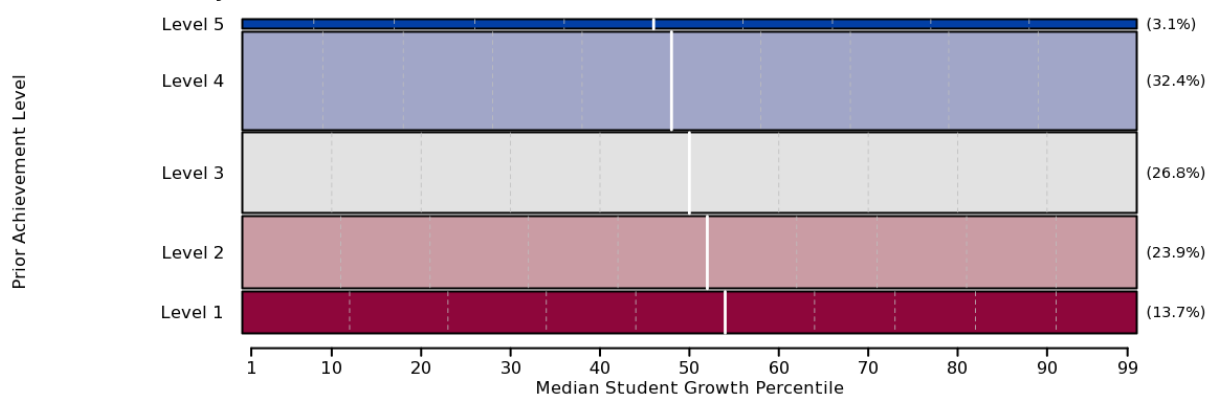


Figure 29: Goodness of Fit Plot for Spring 2017 Grade 5 Mathematics (Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 Mathematics SGP SIMEX Ranked, Grade 5 (N = 393,845)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Ceiling / Floor Effects Test

		Student Growth Percentile 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	
Current Observed Score Extremes (Range)	Lowest OSS:	[-15,-4.8]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 22
		[-4.7978]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 32
	Highest OSS:	[4.88,5.24]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 8
		[5.24,15]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	93.8	N = 48

		Student Growth Percentile 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	
Prior Scale Score Decile Range *	1st/[-15,-1.59]	7.77	8.89	9.37	9.72	9.58	10.39	10.70	10.84	11.08	11.66	(9.7%)
	2nd/[-1.59,-1.13]	7.72	9.09	9.68	9.76	10.08	10.33	10.40	10.62	10.62	11.71	(10%)
	3rd/[-1.13,-0.795]	8.51	9.48	9.80	9.91	9.58	10.32	10.08	10.31	10.65	11.35	(10.2%)
	4th/[-0.795,-0.487]	9.45	9.66	9.90	9.69	10.17	10.01	9.98	10.30	9.94	10.90	(10%)
	5th/[-0.487,-0.171]	10.03	10.07	9.78	10.15	9.92	9.75	10.13	9.97	9.93	10.27	(10%)
	6th/[-0.171,0.153]	9.30	9.88	10.04	10.15	10.27	9.75	10.14	9.78	10.17	10.54	(9.9%)
	7th/[0.153,0.442]	9.55	10.30	10.03	9.94	10.18	9.98	9.67	9.80	9.92	10.62	(10.1%)
	8th/[0.442,0.788]	10.26	10.65	10.00	9.99	10.07	9.82	9.82	9.54	9.58	10.26	(9.9%)
	9th/[0.788,1.26]	11.10	10.97	10.22	10.31	9.87	9.47	9.78	9.46	9.32	9.50	(10%)
	10th/[1.26,15]	11.28	10.75	10.46	10.44	9.80	10.10	9.67	9.51	9.14	8.84	(10.1%)

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

QQ-Plot: Student Growth Percentiles

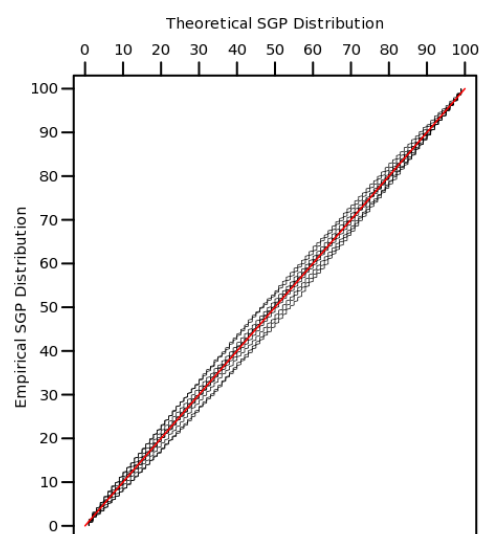
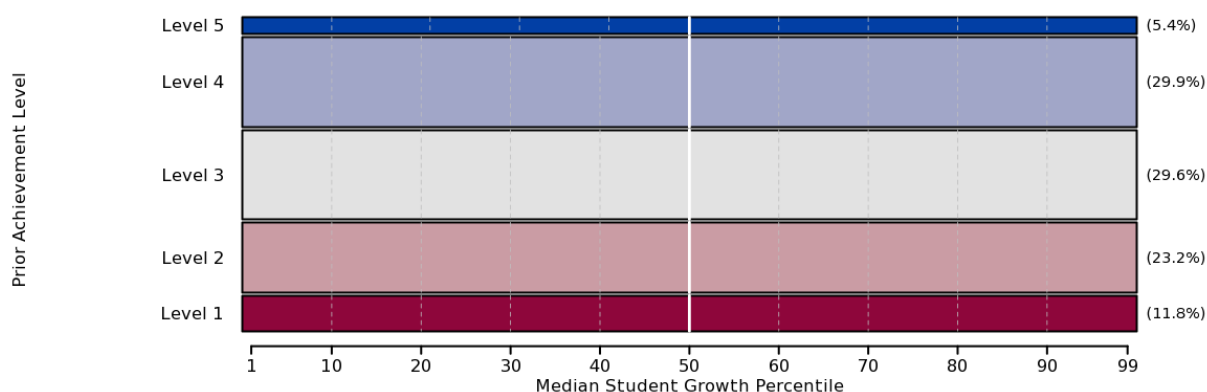


Figure 30: Goodness of Fit Plot for Spring 2017 Grade 5 Mathematics (SIMEX Corrected).

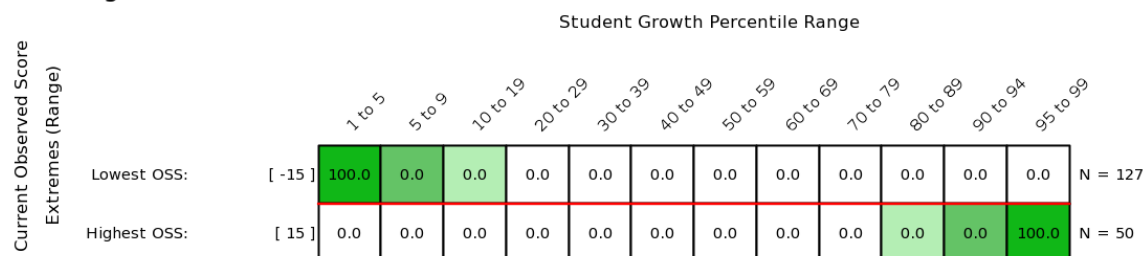
Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 Mathematics SGP, Grade 6 (N = 383,884)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test



		Student Growth Percentile 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	
Prior Scale Score Decile Range *	1st/[-15,-1.55]	9.59	9.87	10.19	10.06	10.09	9.80	10.06	9.90	10.04	10.41	(9.7%)
	2nd/[-1.55,-1.08]	9.66	10.14	9.82	9.87	10.03	9.96	9.82	10.12	9.96	10.61	(10%)
	3rd/[-1.08,-0.746]	9.43	10.06	9.96	10.05	9.77	10.16	10.08	9.85	9.86	10.79	(10.2%)
	4th/[-0.746,-0.452]	9.69	10.23	9.91	9.93	10.01	9.82	10.04	9.91	9.91	10.55	(9.4%)
	5th/[-0.452,-0.152]	9.49	9.65	10.10	9.97	10.05	10.10	9.83	10.07	10.24	10.50	(10.4%)
	6th/[-0.152,0.13]	9.28	10.06	9.89	10.10	10.01	9.88	10.21	10.02	10.07	10.47	(10.2%)
	7th/[0.13,0.441]	9.33	10.02	9.99	9.73	10.25	10.23	10.01	9.96	10.02	10.47	(9.9%)
	8th/[0.441,0.79]	9.76	10.14	10.14	10.24	9.70	9.76	9.73	9.78	9.90	10.85	(10%)
	9th/[0.79,1.26]	9.75	10.02	9.77	9.95	9.76	10.03	10.23	10.05	10.02	10.42	(10.1%)
	10th/[1.26,15]	9.32	9.87	10.04	9.97	10.19	10.03	9.96	10.04	10.10	10.48	(10.1%)

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

QQ-Plot: Student Growth Percentiles

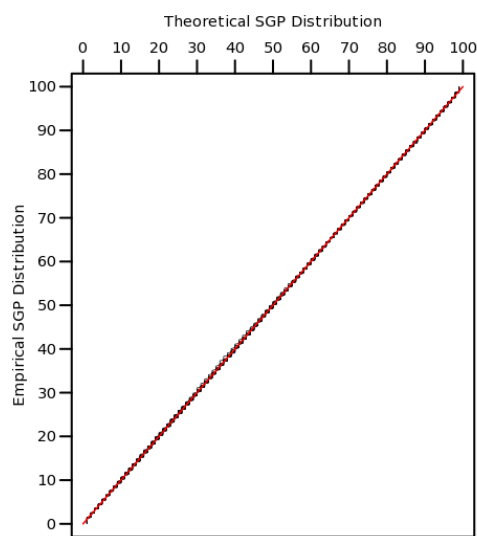


Figure 31: Goodness of Fit Plot for Spring 2017 Grade 6 Mathematics (Uncorrected).

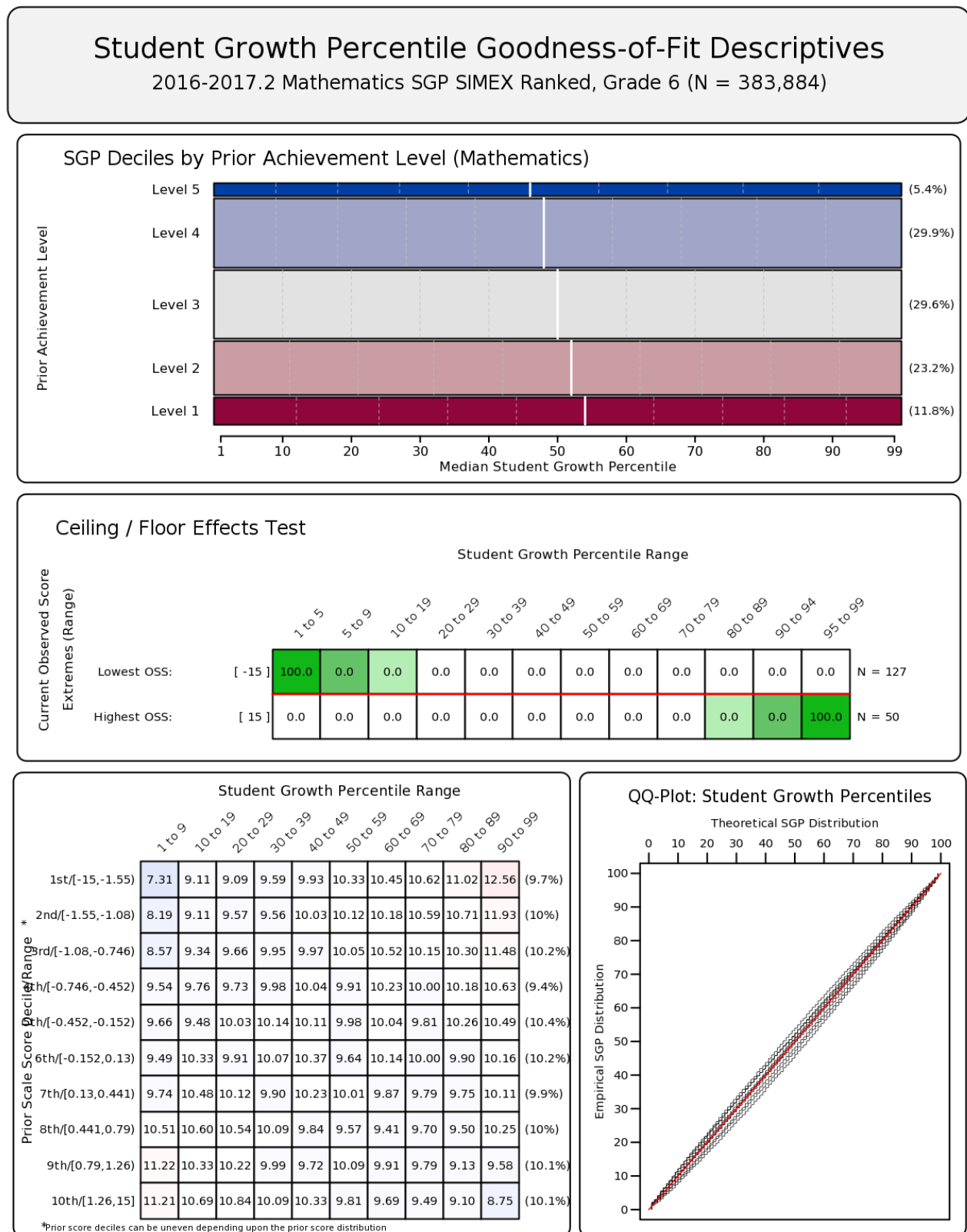


Figure 32: Goodness of Fit Plot for Spring 2017 Grade 6 Mathematics (SIMEX Corrected).

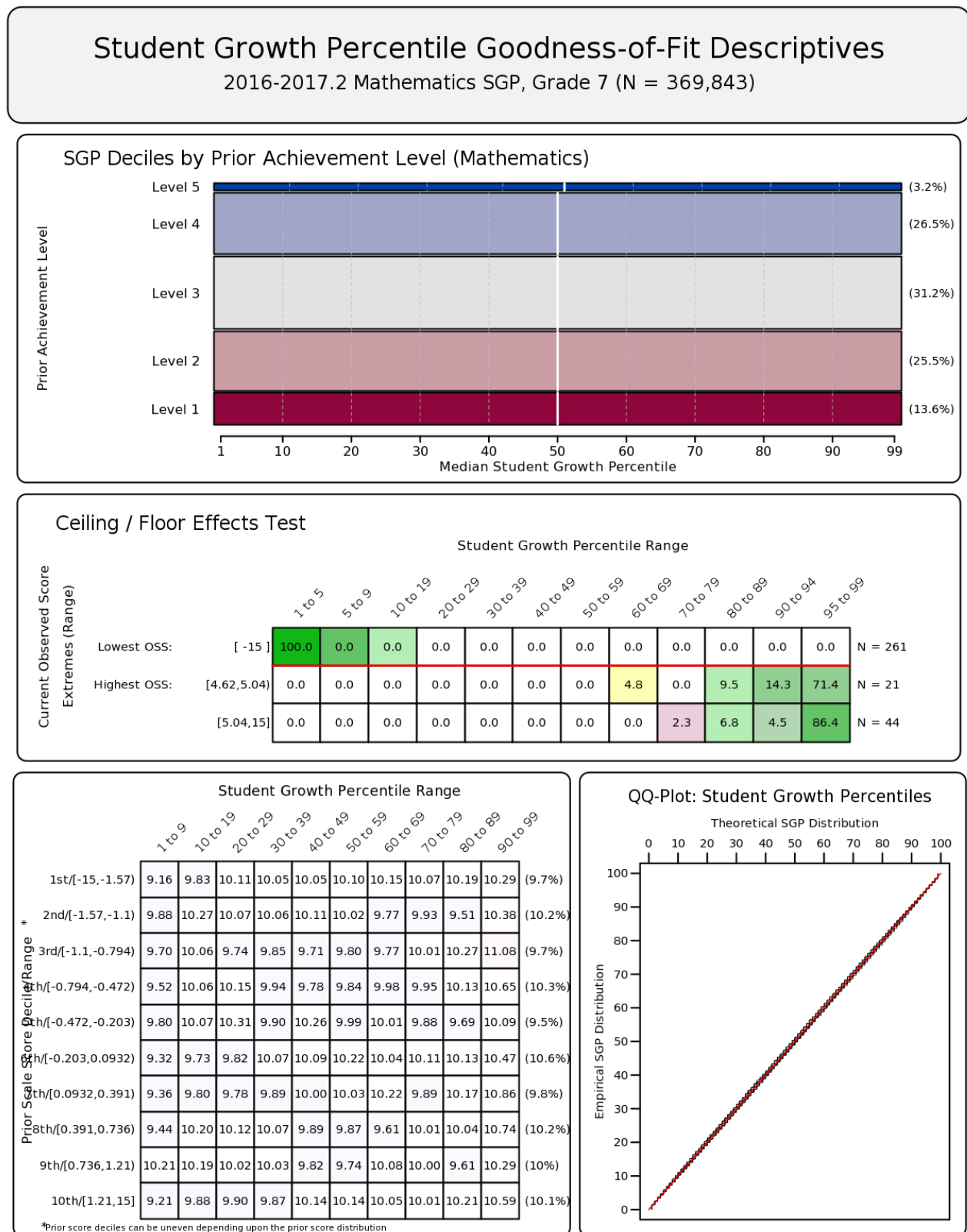


Figure 33: Goodness of Fit Plot for Spring 2017 Grade 7 Mathematics (Uncorrected).

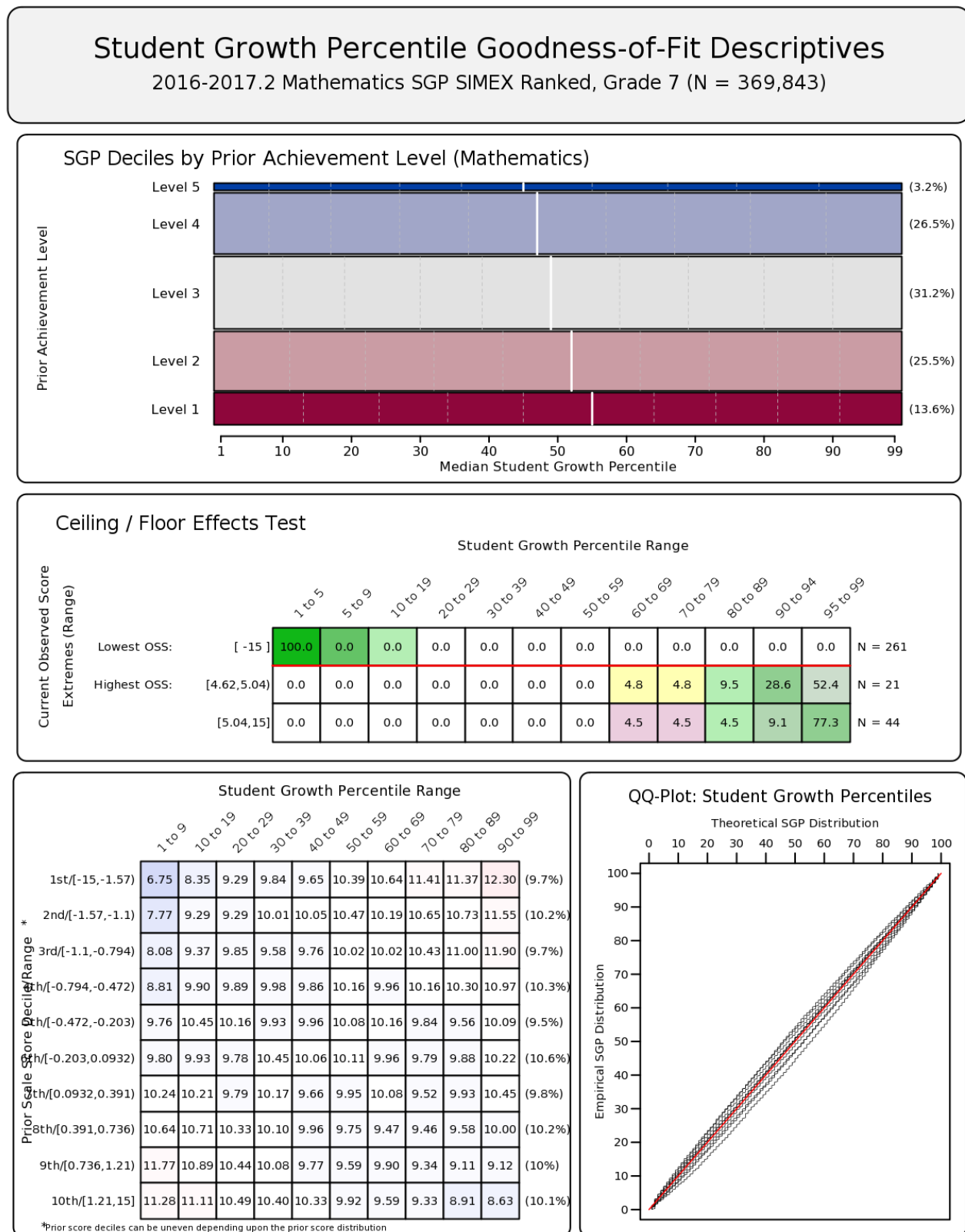


Figure 34: Goodness of Fit Plot for Spring 2017 Grade 7 Mathematics (SIMEX Corrected).

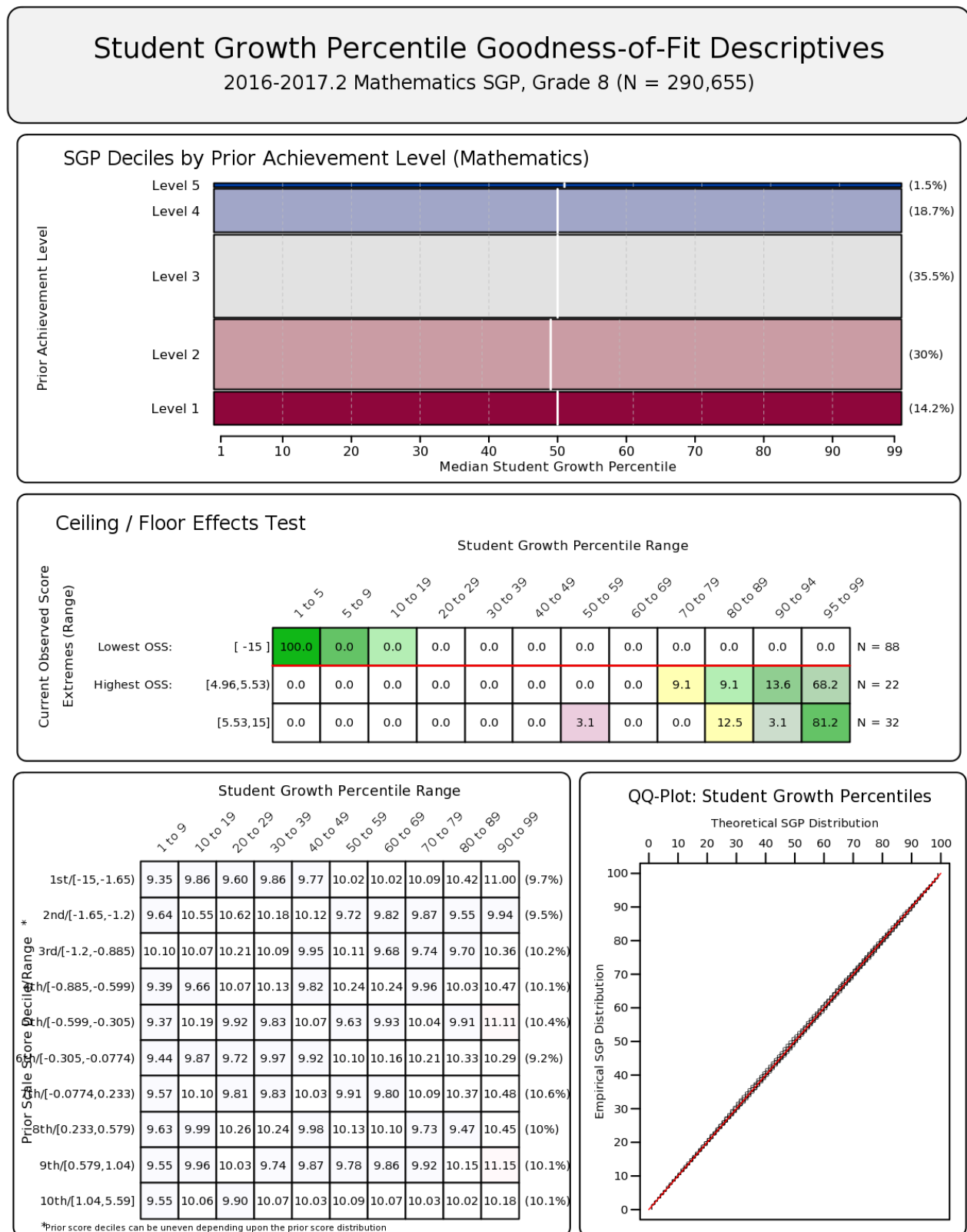


Figure 35: Goodness of Fit Plot for Spring 2017 Grade 8 Mathematics (Uncorrected).

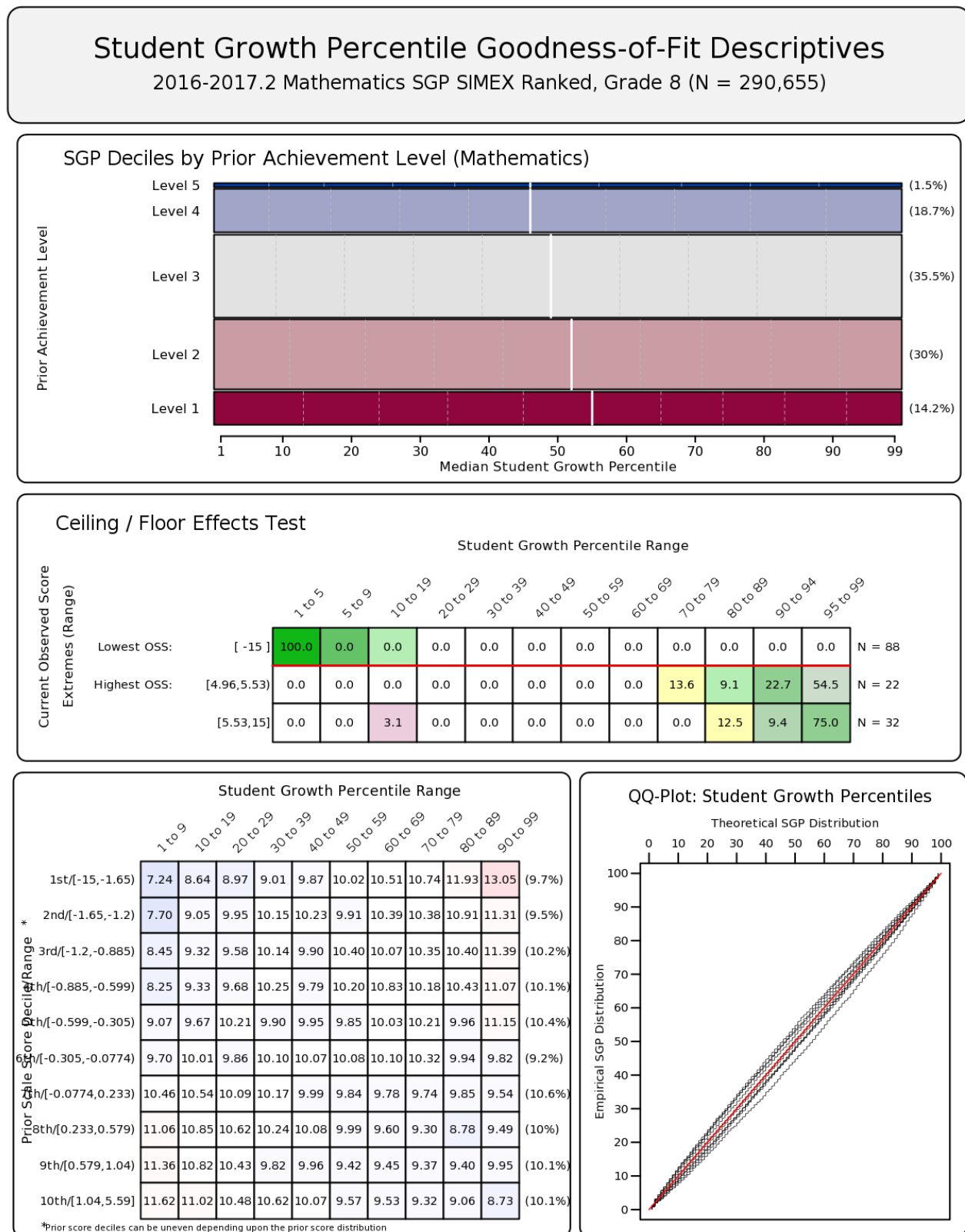


Figure 36: Goodness of Fit Plot for Spring 2017 Grade 8 Mathematics (SIMEX Corrected).

3 End-of-Course Analyses (by Course Progression)

3.1 Algebra I

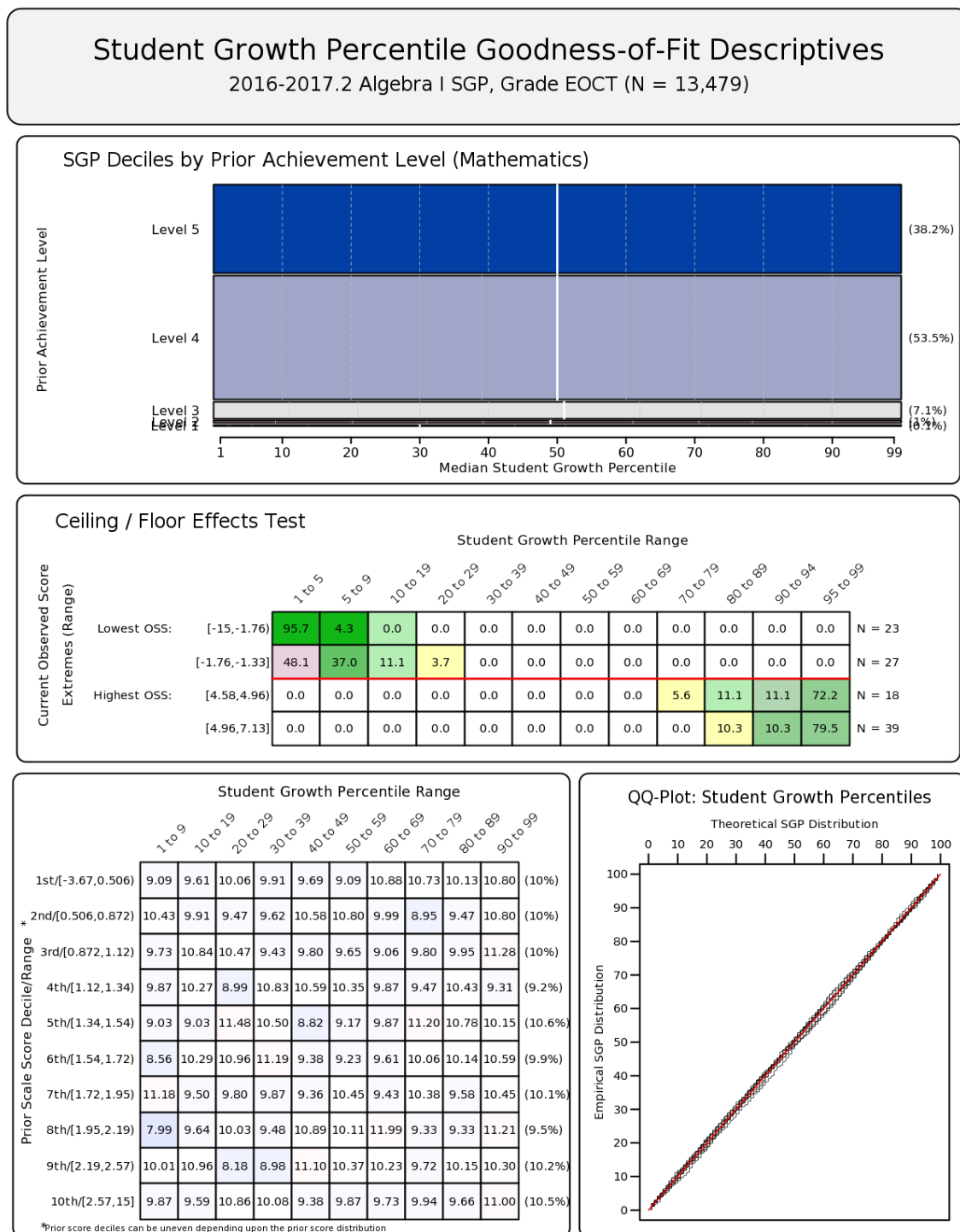


Figure 37: Goodness of Fit Plot for Spring 2017 Algebra I (Priors: Spring 2016 Math Grade 7, Spring 2015 Math Grade 6 - Uncorrected).

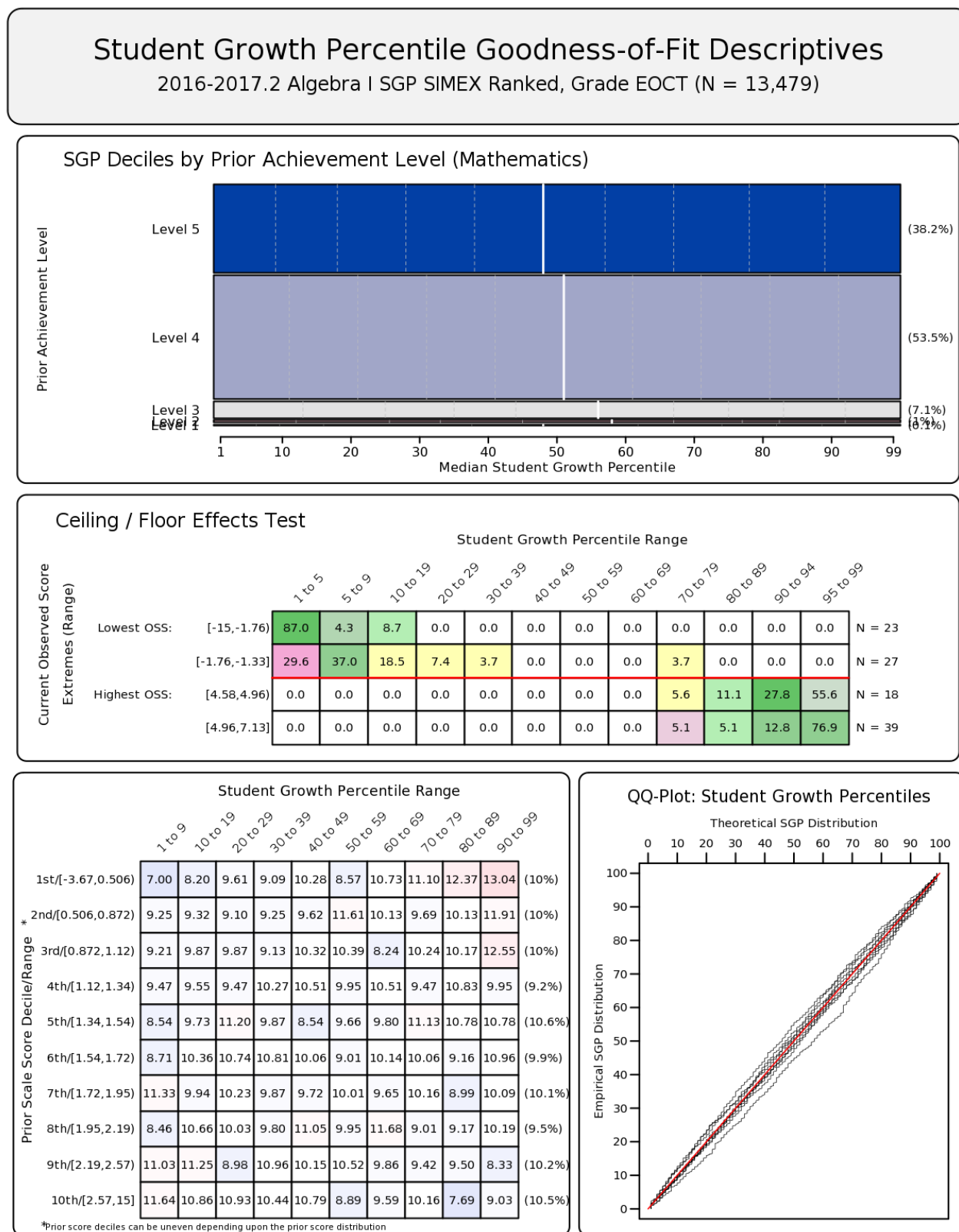


Figure 38: Goodness of Fit Plot for Spring 2017 Algebra I (Priors: Spring 2016 Math Grade 7, Spring 2015 Math Grade 6 - SIMEX Corrected).

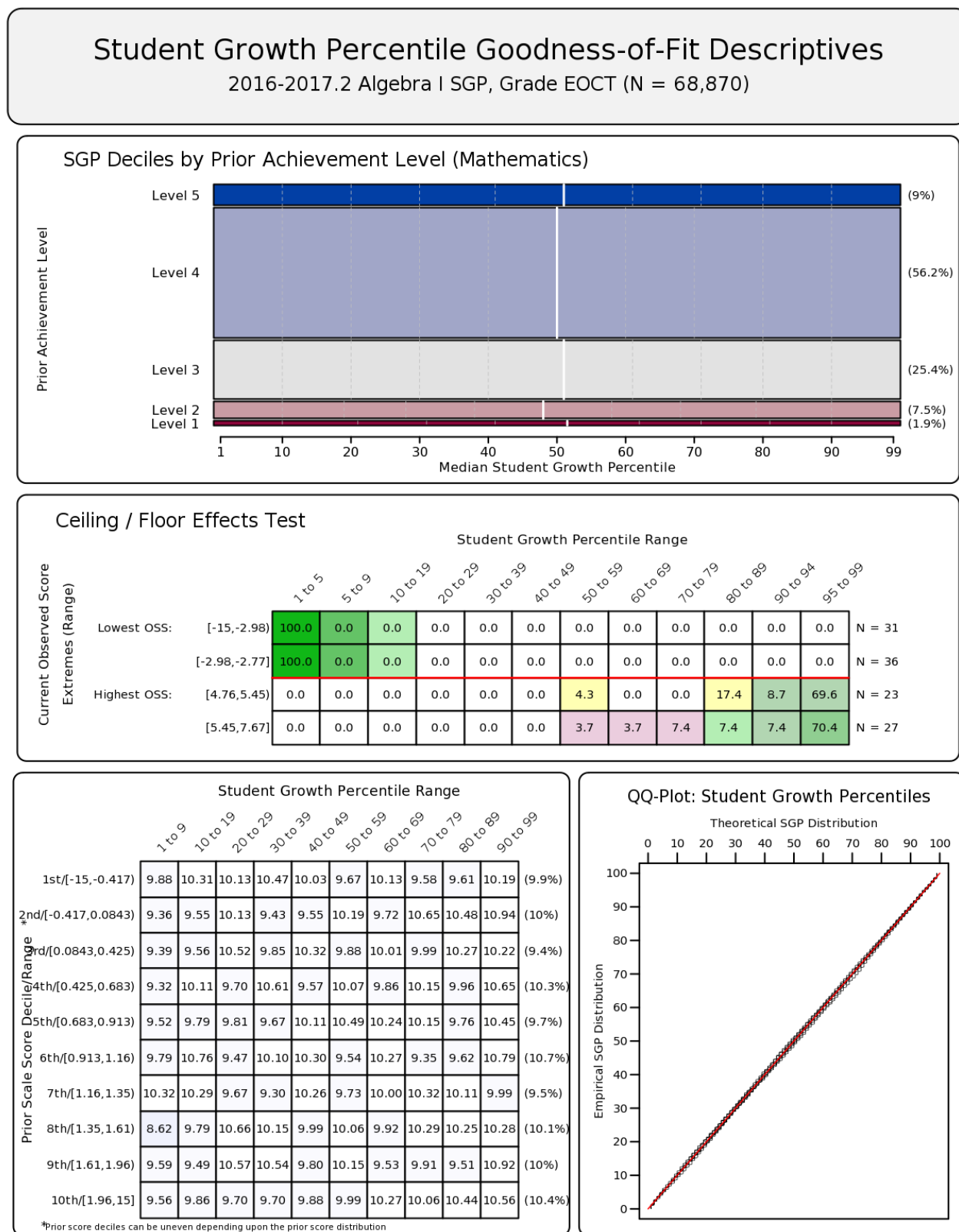
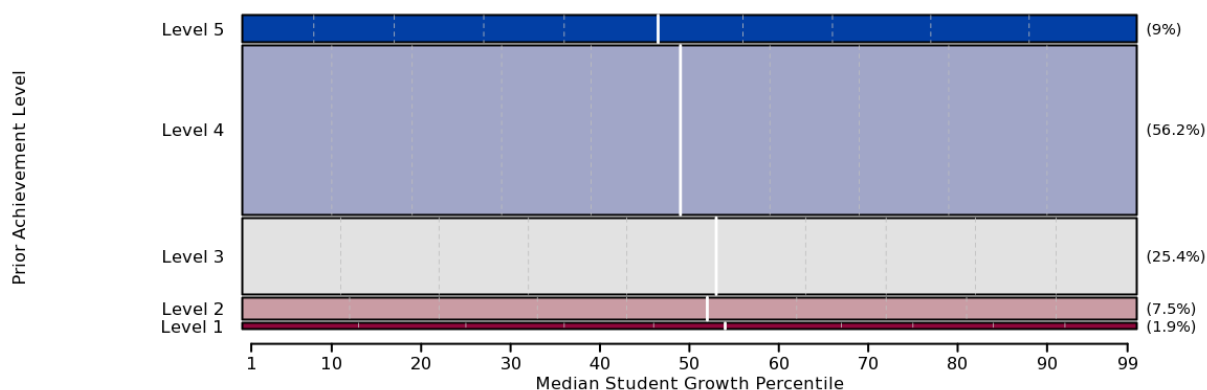


Figure 39: Goodness of Fit Plot for Spring 2017 Algebra I (Priors: Spring 2016 Math Grade 7, Spring 2015 Math Grade 6 - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 Algebra I SGP SIMEX Ranked, Grade EOCT (N = 68,870)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

		Student Growth Percentile 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	
Current Observed Score Extremes (Range)	Lowest OSS: [-15,-2.98]	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 = 31
	[-2.98,-2.77]	97.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 36
	Highest OSS: [4.76,5.45]	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0	8.7	13.0	13.0	60.9	N = 23
	[5.45,7.67]	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	18.5	3.7	7.4	66.7	N = 27

		Student Growth Percentile 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	
Prior Scale Score Decile/Range	1st/[-15,-0.417]	7.54	9.20	9.48	9.69	10.38	10.39	9.16	11.31	10.56	12.29	(9.9%)
	2nd/[-0.417,0.0843]	7.98	8.81	9.69	8.91	9.69	10.01	10.27	10.87	11.14	12.61	(10%)
	3rd/[0.0843,0.425]	8.49	9.31	9.94	10.10	10.11	9.64	10.30	10.28	10.98	10.84	(9.4%)
	4th/[0.425,0.683]	8.91	9.65	9.96	10.59	9.60	10.06	10.06	10.22	10.28	10.68	(10.3%)
	5th/[0.683,0.913]	9.37	9.93	9.46	9.96	10.14	10.26	10.40	10.33	9.87	10.29	(9.7%)
	6th/[0.913,1.16]	10.07	10.69	9.32	10.14	10.15	9.77	10.25	9.46	9.43	10.71	(10.7%)
	7th/[1.16,1.35]	10.64	10.31	9.99	9.21	9.85	9.99	10.26	10.28	9.80	9.67	(9.5%)
	8th/[1.35,1.61]	9.23	10.32	10.78	10.19	10.13	10.03	9.96	9.86	9.78	9.72	(10.1%)
	9th/[1.61,1.96]	10.38	10.76	11.28	10.28	10.00	10.07	9.23	9.34	8.94	9.72	(10%)
	10th/[1.96,15]	11.58	10.83	10.49	10.35	9.95	9.44	10.91	8.87	9.01	8.57	(10.4%)

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

QQ-Plot: Student Growth Percentiles

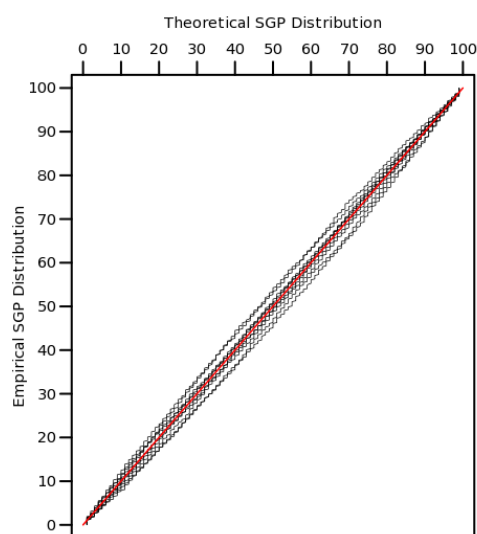


Figure 40: Goodness of Fit Plot for Spring 2017 Algebra I (Priors: Spring 2016 Math Grade 7, Spring 2015 Math Grade 6 - SIMEX Corrected).

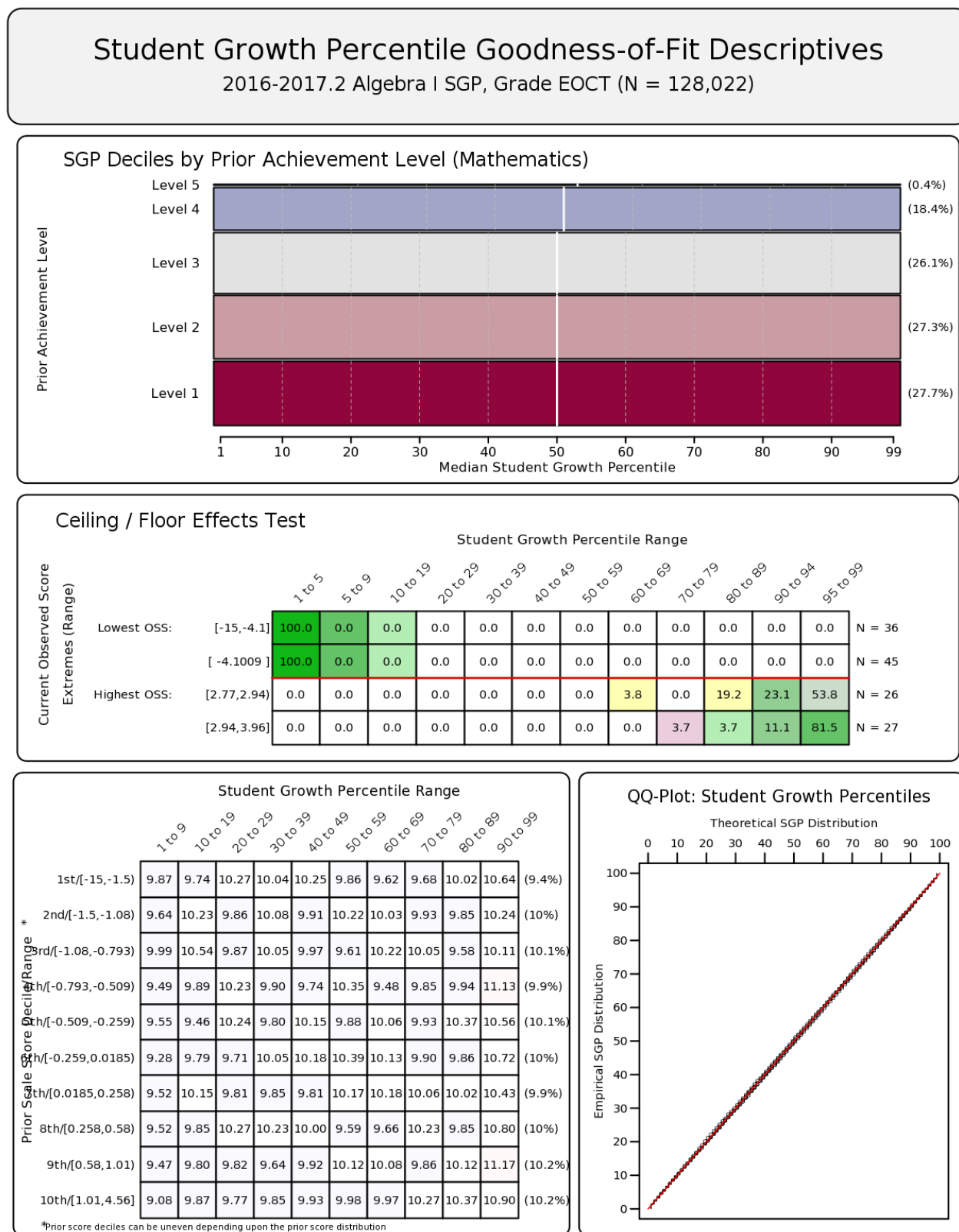


Figure 41: Goodness of Fit Plot for Spring 2017 Algebra I (Priors: Spring 2016 Math Grade 8, Spring 2015 Math Grade 7 - Uncorrected).

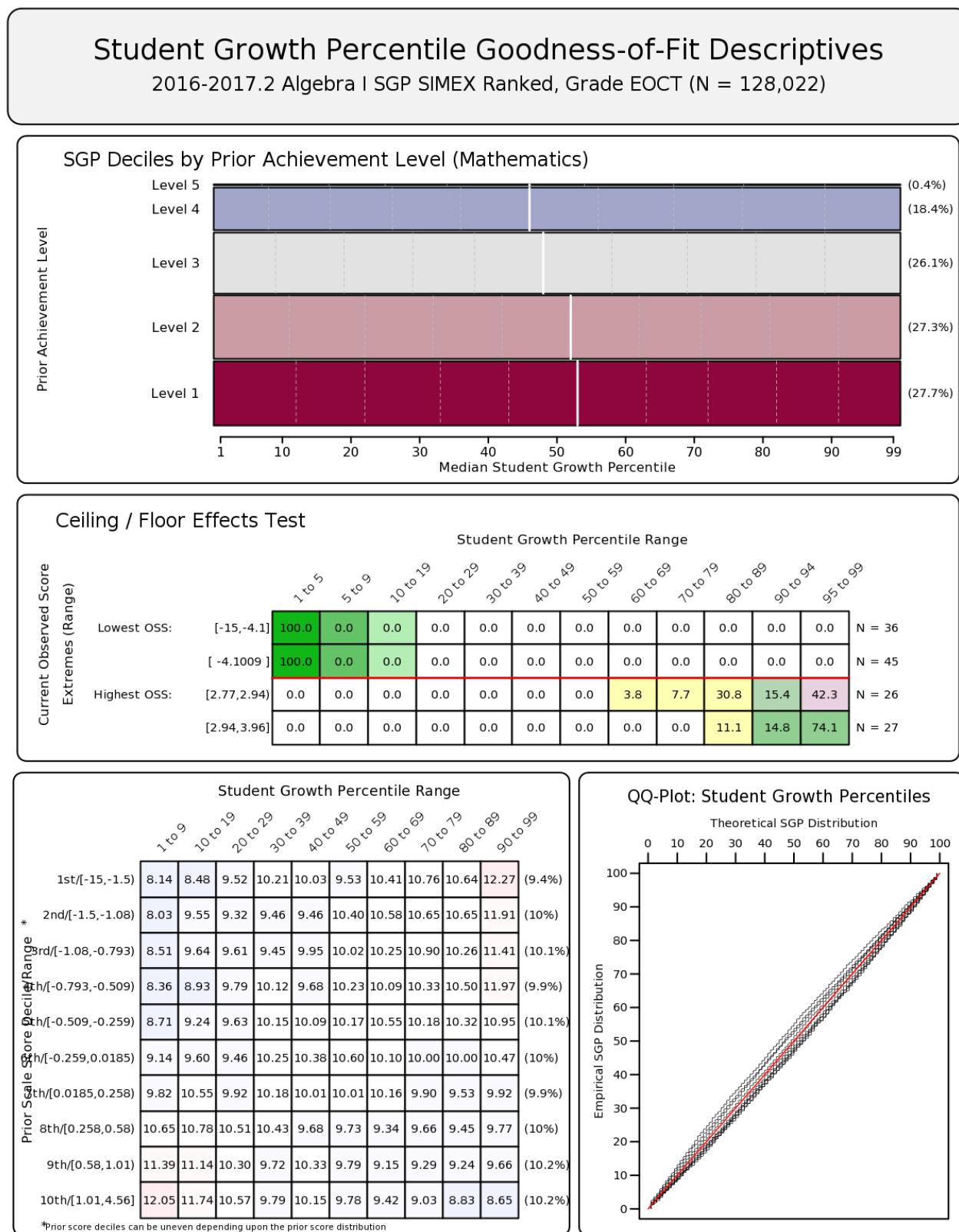
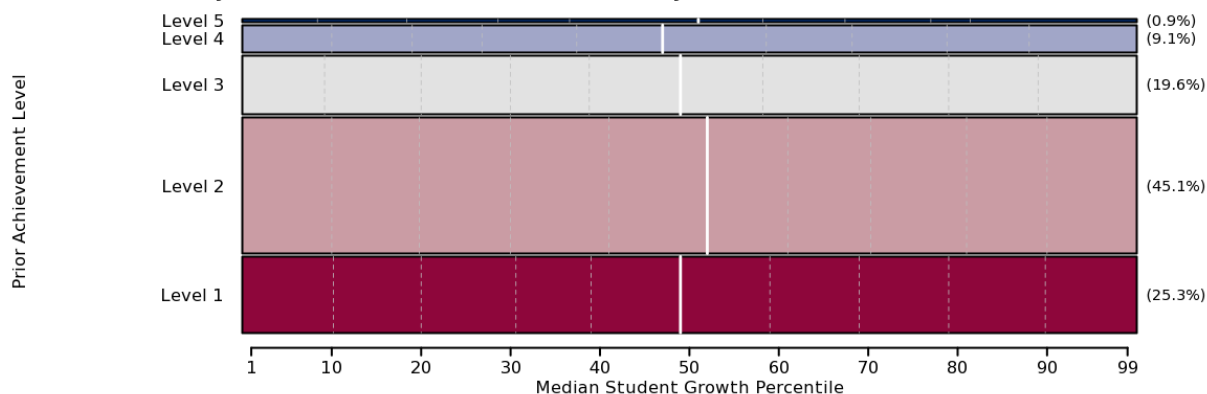


Figure 42: Goodness of Fit Plot for Spring 2017 Algebra I (Priors: Spring 2016 Math Grade 8, Spring 2015 Math Grade 7 - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 Algebra I SGP, Grade EOCT (N = 1,396)

SGP Deciles by Prior Achievement Level (Geometry)



Ceiling / Floor Effects Test

		Student Growth Percentile 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	
Current Observed Score Extremes (Range)	Lowest OSS: [-15,-2.43]	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 = 29
	[-2.43,-2.17]	72.4	27.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 29
	Highest OSS: [2.09,2.51]	0.0	4.2	4.2	0.0	4.2	8.3	16.7	20.8	12.5	25.0	0.0	4.2	N = 24
	[2.51,4.03]	0.0	0.0	0.0	3.8	3.8	0.0	7.7	7.7	19.2	23.1	15.4	19.2	N = 26

		Student Growth Percentile 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	
Prior Score Decile/Range *	1st/[-15,-1.77]	10.07	10.07	9.35	10.07	10.07	10.79	9.35	8.63	9.35	12.23	(10%)
	2nd/[-1.77,-1.47]	7.96	7.08	13.27	10.62	11.50	6.19	10.62	14.16	8.85	9.73	(8.1%)
	3rd/[-1.47,-1.23]	9.82	11.04	7.36	14.72	7.98	11.04	7.98	11.66	10.43	7.98	(11.7%)
	4th/[-1.23,-1.05]	11.76	9.24	12.61	2.52	10.08	12.61	13.45	8.40	10.08	9.24	(8.5%)
	5th/[-1.05,-0.796]	16.56	11.92	6.62	9.93	6.62	10.60	9.93	6.62	9.27	11.92	(10.8%)
	6th/[-0.796,-0.61]	3.97	9.93	10.60	11.92	15.89	8.61	9.27	9.93	11.26	8.61	(10.8%)
	7th/[-0.61,-0.36]	8.53	7.75	10.85	6.98	6.98	10.85	9.30	13.18	10.85	14.73	(9.2%)
	8th/[-0.36,-0.0701]	10.00	11.33	10.00	12.00	9.33	10.00	10.00	8.67	9.33	9.33	(10.7%)
	9th/[-0.0701,0.619]	9.93	9.22	8.51	9.93	11.35	10.64	9.93	10.64	9.22	10.64	(10.1%)
	10th/[0.619,2.54]	10.00	11.43	11.43	10.71	8.57	10.00	9.29	9.29	10.71	8.57	(10%)

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

QQ-Plot: Student Growth Percentiles

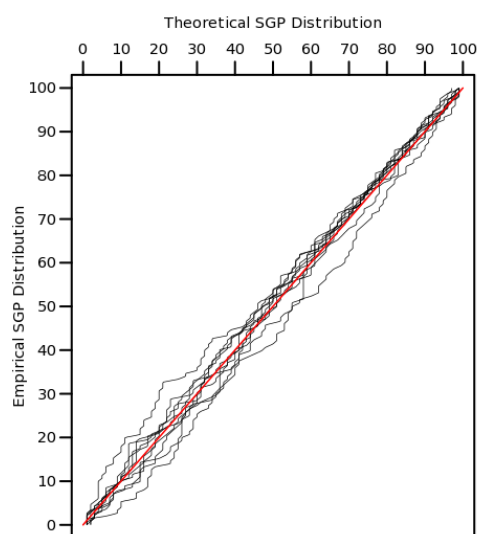
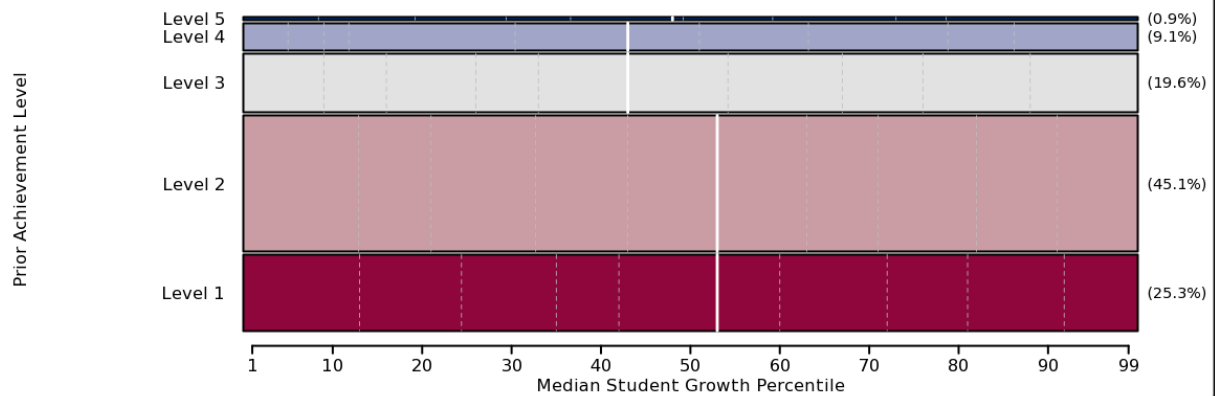


Figure 43: Goodness of Fit Plot for Spring 2017 Algebra I (Priors: Spring 2016 Geometry - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 Algebra I SGP SIMEX Ranked, Grade EOCT (N = 1,396)

SGP Deciles by Prior Achievement Level (Geometry)



Ceiling / Floor Effects Test

Current Observed Score Extremes (Range)	Student Growth Percentile 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,-2.43]	96.6	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 29
[-2.43,-2.17]	27.6	58.6	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 29
Highest OSS: [2.09,2.51]	0.0	4.2	4.2	0.0	8.3	4.2	25.0	12.5	20.8	16.7	0.0	4.2	N = 24
[2.51,4.03]	0.0	0.0	0.0	3.8	3.8	7.7	3.8	11.5	15.4	23.1	15.4	15.4	N = 26

Prior Score Decile/Range *	Student Growth Percentile 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,-1.77]	5.76	7.19	9.35	12.23	12.23	10.79	7.19	12.23	7.19	15.83	(10%)
2nd/[-1.77,-1.47]	6.19	8.85	8.85	6.19	15.04	9.73	9.73	9.73	14.16	11.50	(8.1%)
3rd/[-1.47,-1.23]	7.36	12.88	7.98	9.82	10.43	12.27	7.36	10.43	11.66	9.82	(11.7%)
4th/[-1.23,-1.05]	9.24	10.08	10.08	5.88	9.24	6.72	16.81	11.76	9.24	10.92	(8.5%)
5th/[-1.05,-0.796]	13.91	10.60	9.93	8.61	7.95	9.27	10.60	7.95	9.27	11.92	(10.8%)
6th/[-0.796,-0.61]	2.65	6.62	11.26	12.58	14.57	7.95	13.91	10.60	10.60	9.27	(10.8%)
7th/[-0.61,-0.36]	6.98	6.98	12.40	8.53	6.98	10.85	10.08	12.40	11.63	13.18	(9.2%)
8th/[-0.36,-0.0701]	11.33	12.67	8.67	12.00	9.33	10.00	10.00	9.33	8.00	8.67	(10.7%)
9th/[-0.0701,0.619]	9.22	14.18	13.48	12.06	7.80	9.93	8.51	8.51	7.80	8.51	(10.1%)
10th/[0.619,2.54]	23.57	7.86	6.43	11.43	7.14	12.14	5.71	7.86	10.71	7.14	(10%)

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

QQ-Plot: Student Growth Percentiles

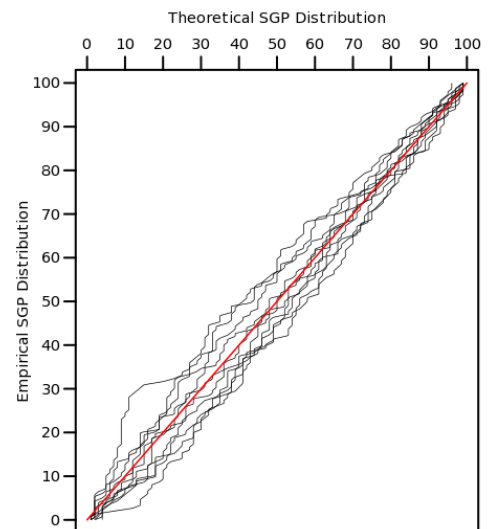


Figure 44: Goodness of Fit Plot for Spring 2017 Algebra I (Priors: Spring 2016 Geometry - SIMEX Corrected).

3.2 Geometry

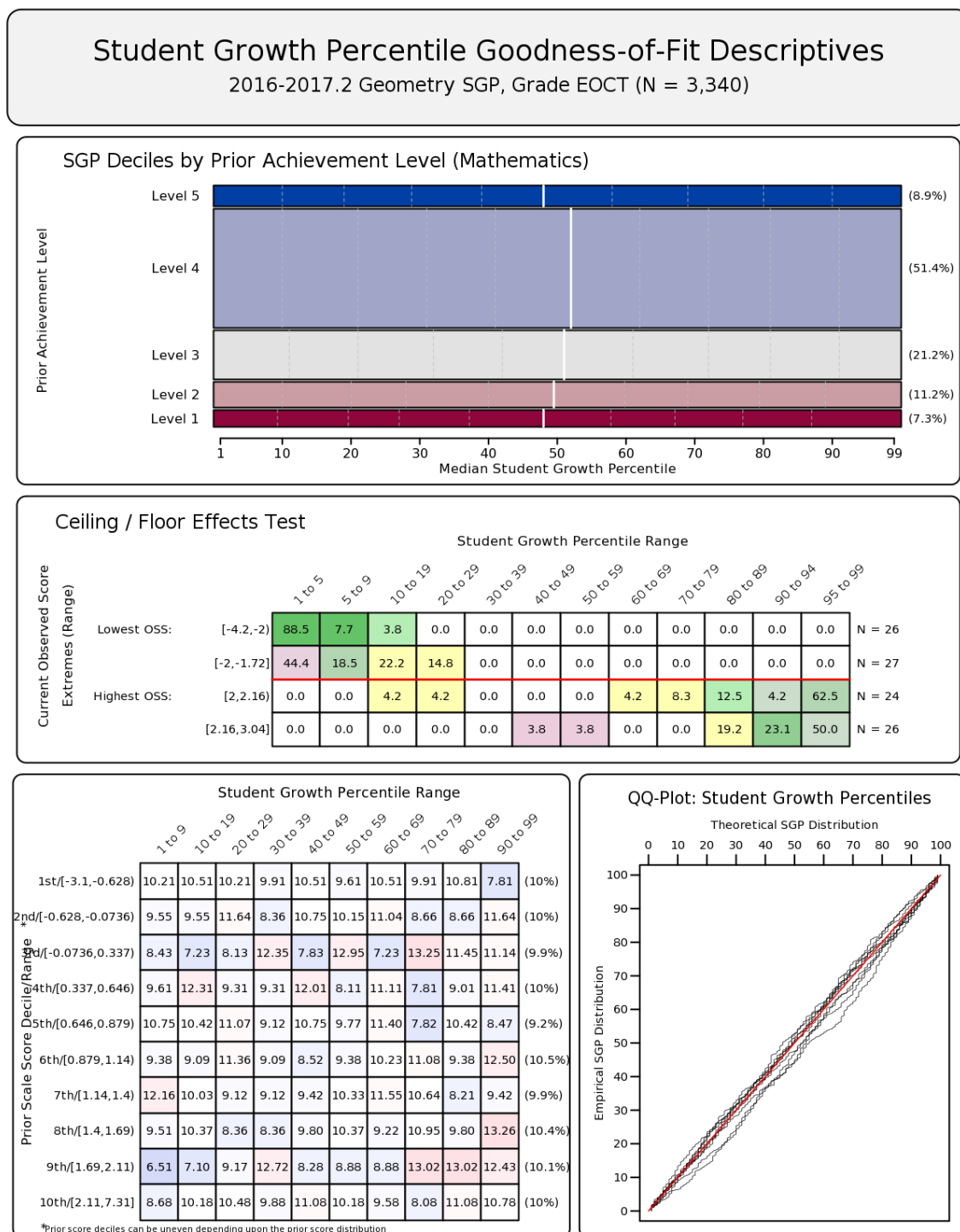


Figure 45: Goodness of Fit Plot for Spring 2017 Geometry (Priors: Spring 2016 Math Grade 8, Spring 2015 Math Grade 7 - Uncorrected).

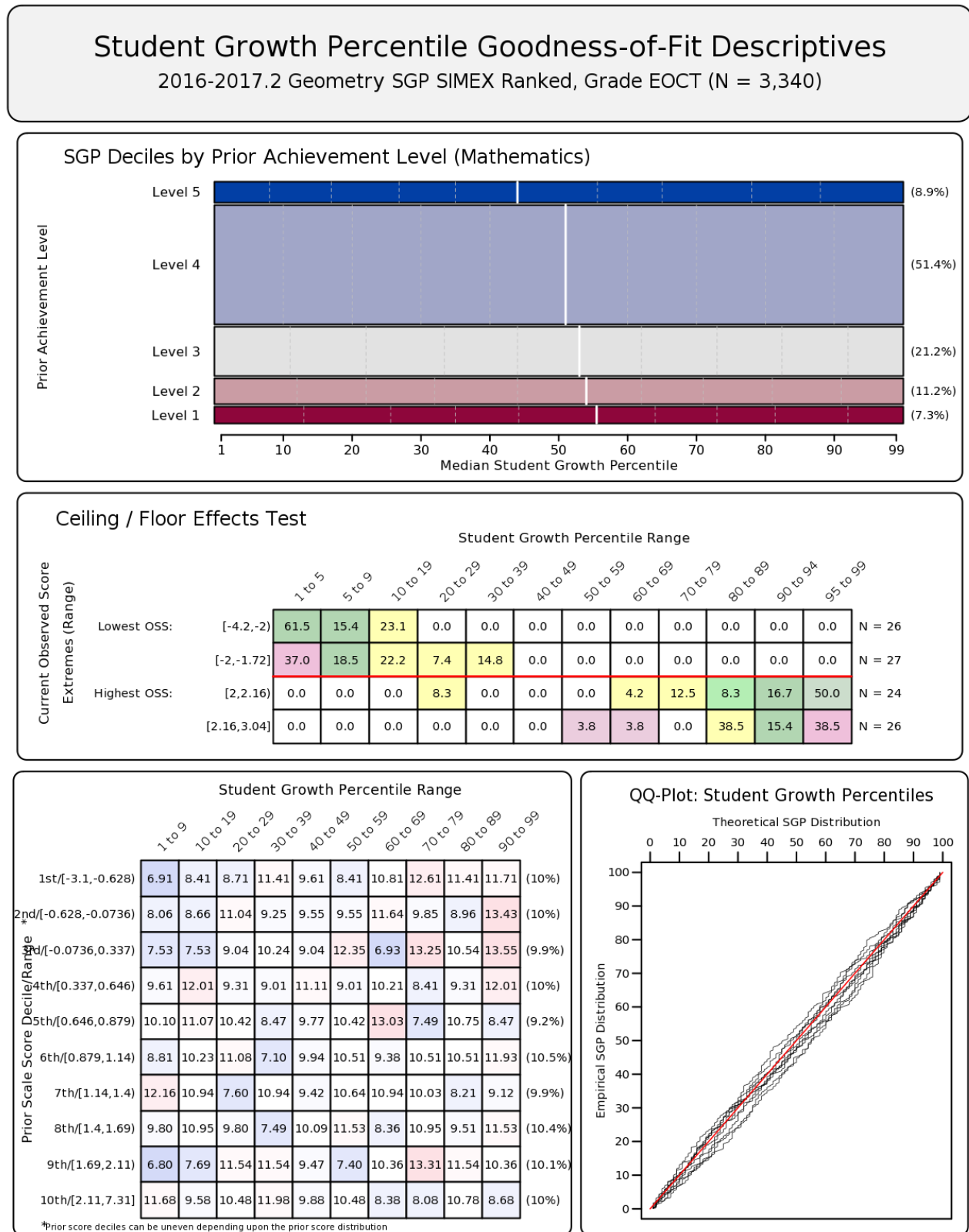


Figure 46: Goodness of Fit Plot for Spring 2017 Geometry (Priors: Spring 2016 Math Grade 8, Spring 2015 Math Grade 7 - SIMEX Corrected).

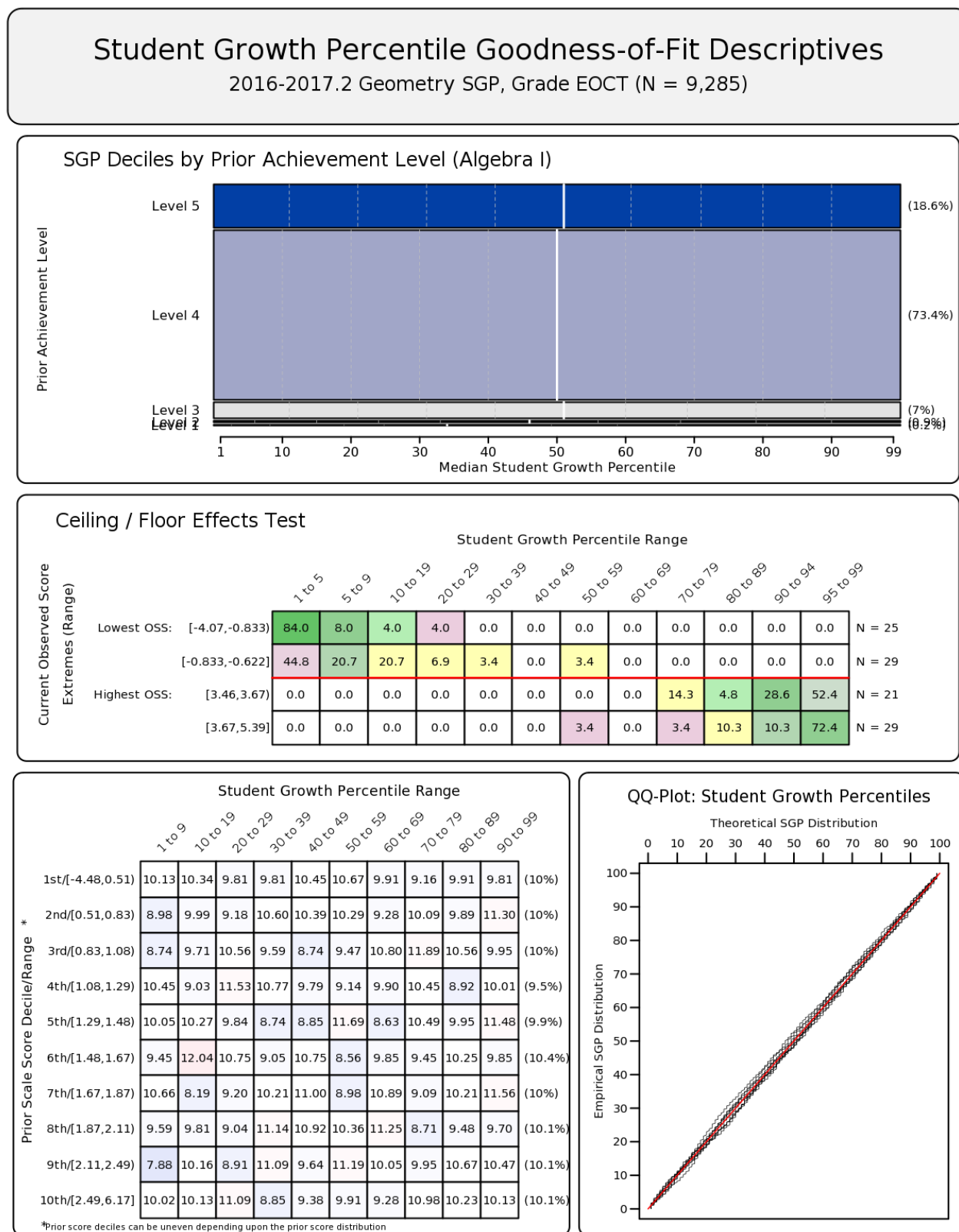


Figure 47: Goodness of Fit Plot for Spring 2017 Geometry (Priors: Spring 2016 Algebra I, Spring 2015 Math Grade 6 - Uncorrected).

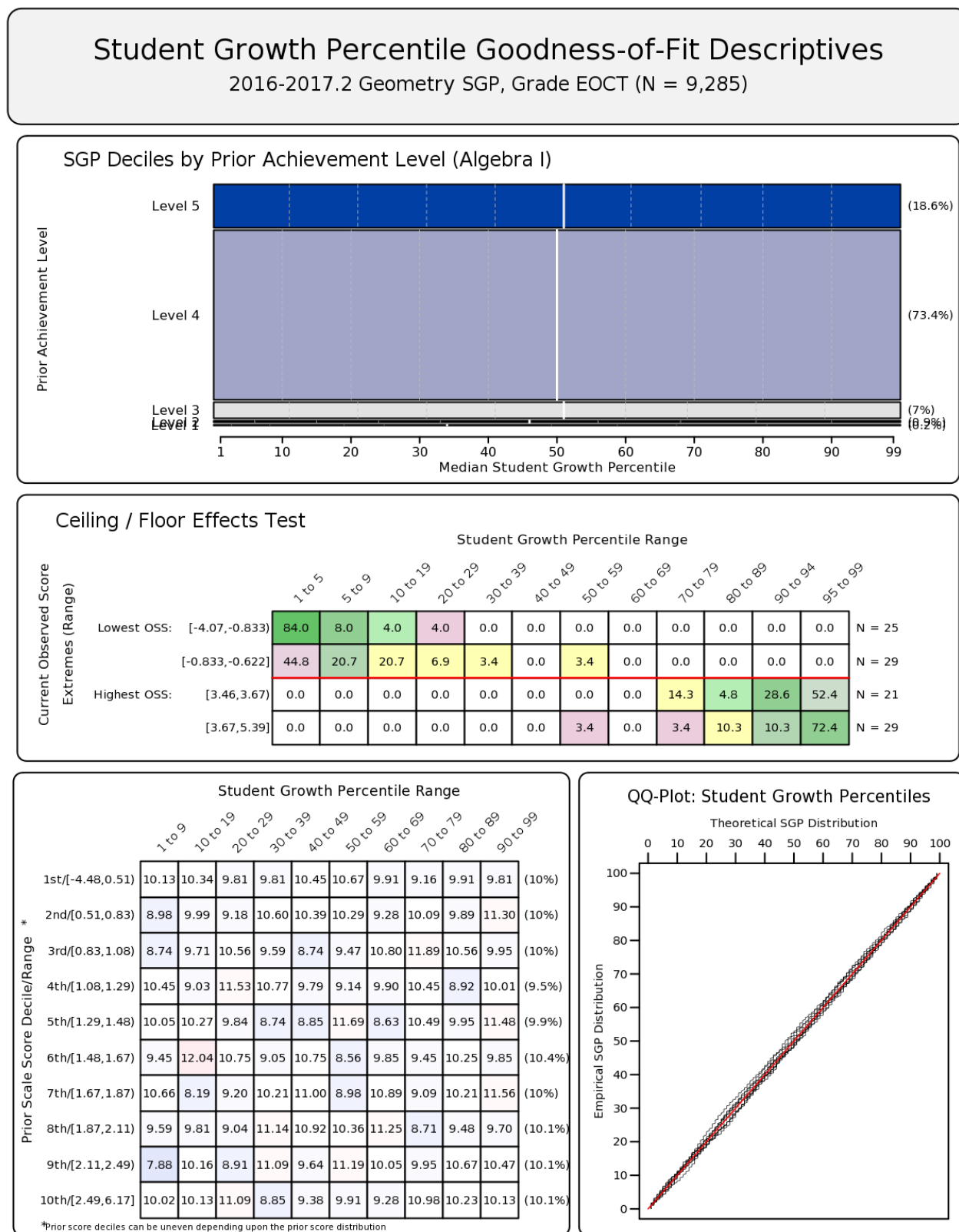
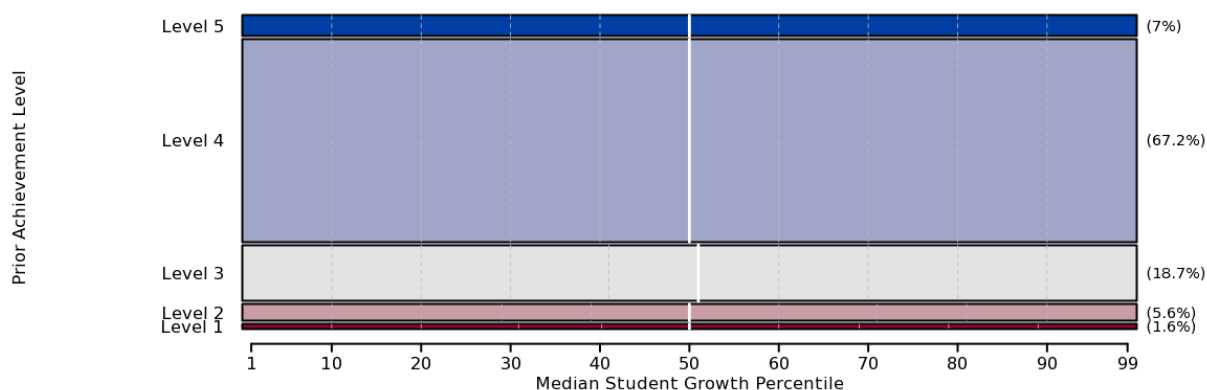


Figure 48: Goodness of Fit Plot for Spring 2017 Geometry (Priors: Spring 2016 Algebra I, Spring 2015 Math Grade 6 - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 Geometry SGP, Grade EOCT (N = 32,109)

SGP Deciles by Prior Achievement Level (Algebra I)



Ceiling / Floor Effects Test

		Student Growth Percentile 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	
Current Observed Score Extremes (Range)	Lowest OSS: [-15,-2.44]	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
	[-2.44,-2.11]	75.0	21.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 28
	Highest OSS: [3.02,3.16]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.1	9.1	77.3	N = 22
	[3.16,4.88]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.9	17.9	64.3	N = 28

		Student Growth Percentile 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	
Prior Scale Score Decile/Range *	1st/[-4.89,-0.21]	9.72	9.46	10.17	10.40	9.97	9.78	9.94	9.88	10.04	10.65	(9.6%)
	2nd/[-0.21,0.25]	9.45	10.84	9.77	8.82	10.17	10.20	10.63	9.94	9.94	10.23	(10.2%)
	3rd/[0.25,0.52]	9.44	9.73	9.76	10.57	10.02	10.83	8.73	10.41	10.35	10.15	(10.2%)
	4th/[0.52,0.75]	8.62	10.01	10.18	10.57	10.08	9.01	10.60	10.14	10.24	10.57	(9.7%)
	5th/[0.75,0.98]	10.19	9.45	9.69	10.35	9.85	9.18	10.88	9.50	9.71	11.20	(10.1%)
	6th/[0.98,1.17]	9.91	10.05	11.38	9.59	9.20	10.50	9.45	9.94	9.38	10.61	(9.7%)
	7th/[1.17,1.39]	9.73	10.45	9.03	10.19	10.98	10.39	9.10	10.32	9.89	9.92	(10.3%)
	8th/[1.39,1.64]	9.98	10.60	9.95	9.69	9.85	10.18	9.82	9.92	9.85	10.15	(10.2%)
	9th/[1.64,2]	9.18	9.65	10.55	10.20	9.30	10.05	10.02	10.23	10.34	10.49	(10.1%)
	10th/[2,7.51]	9.03	9.89	9.55	9.74	10.54	10.05	10.48	9.77	10.29	10.66	(10.1%)

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

QQ-Plot: Student Growth Percentiles

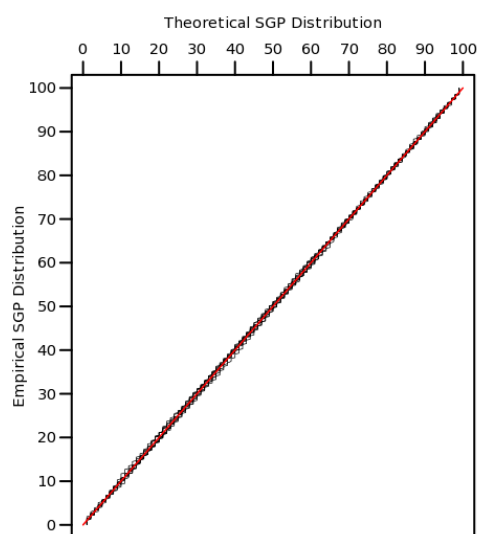


Figure 49: Goodness of Fit Plot for Spring 2017 Geometry (Priors: Spring 2016 Algebra I, Spring 2015 Math Grade 7 - Uncorrected).

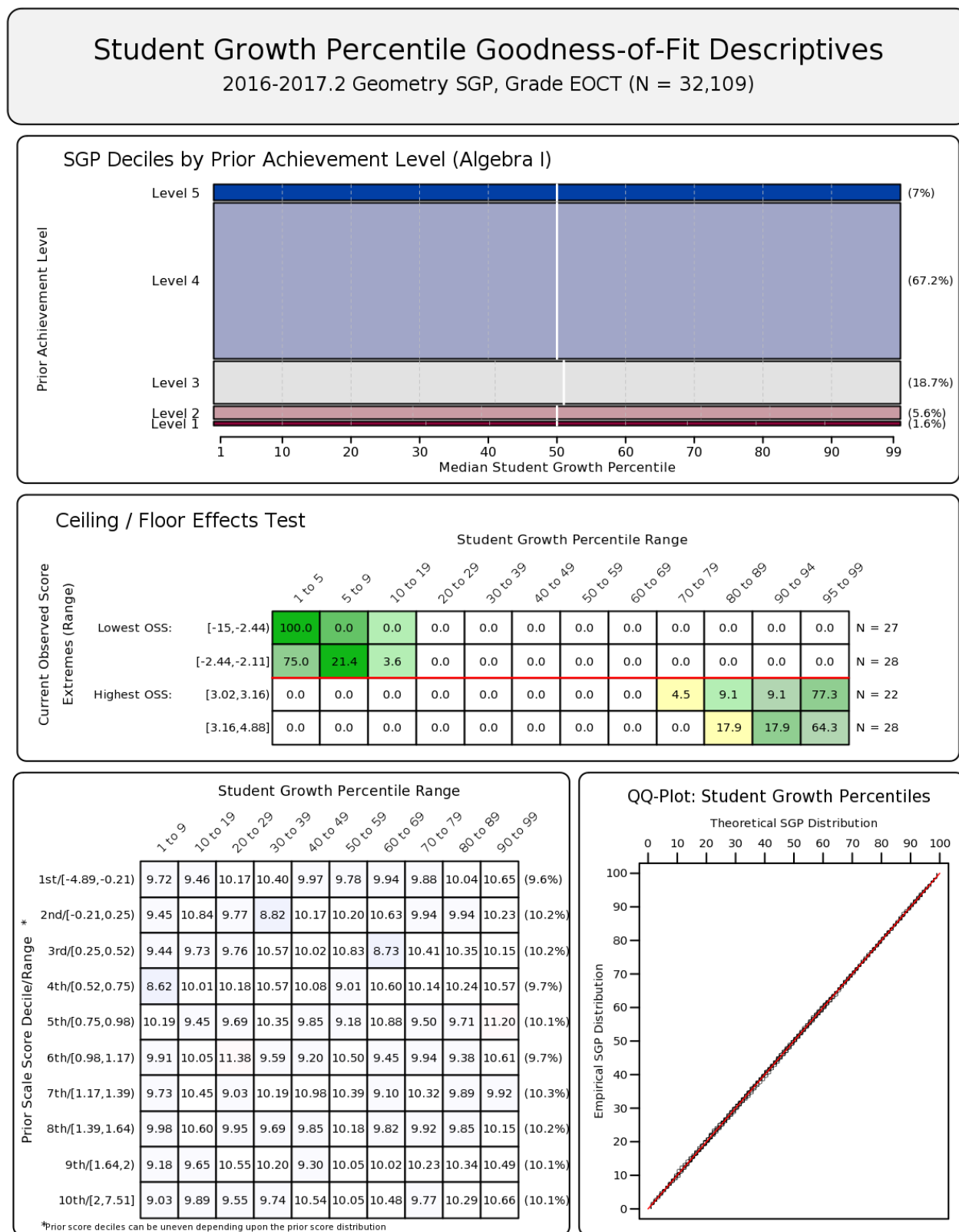


Figure 50: Goodness of Fit Plot for Spring 2017 Geometry (Priors: Spring 2016 Algebra I, Spring 2015 Math Grade 7 - SIMEX Corrected).

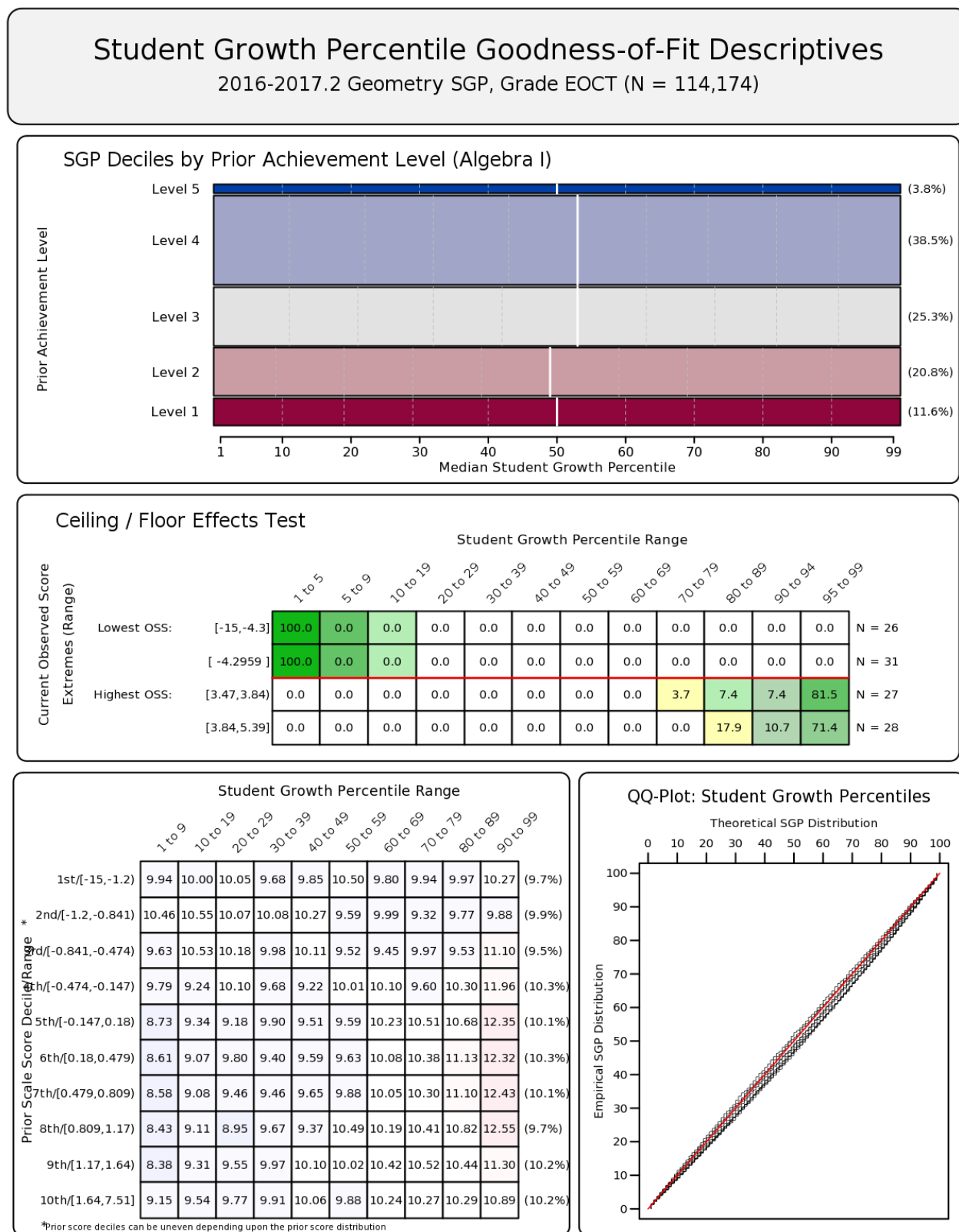


Figure 51: Goodness of Fit Plot for Spring 2017 Geometry (Priors: Spring 2016 Algebra I, Spring 2015 Math Grade 8 - Uncorrected).

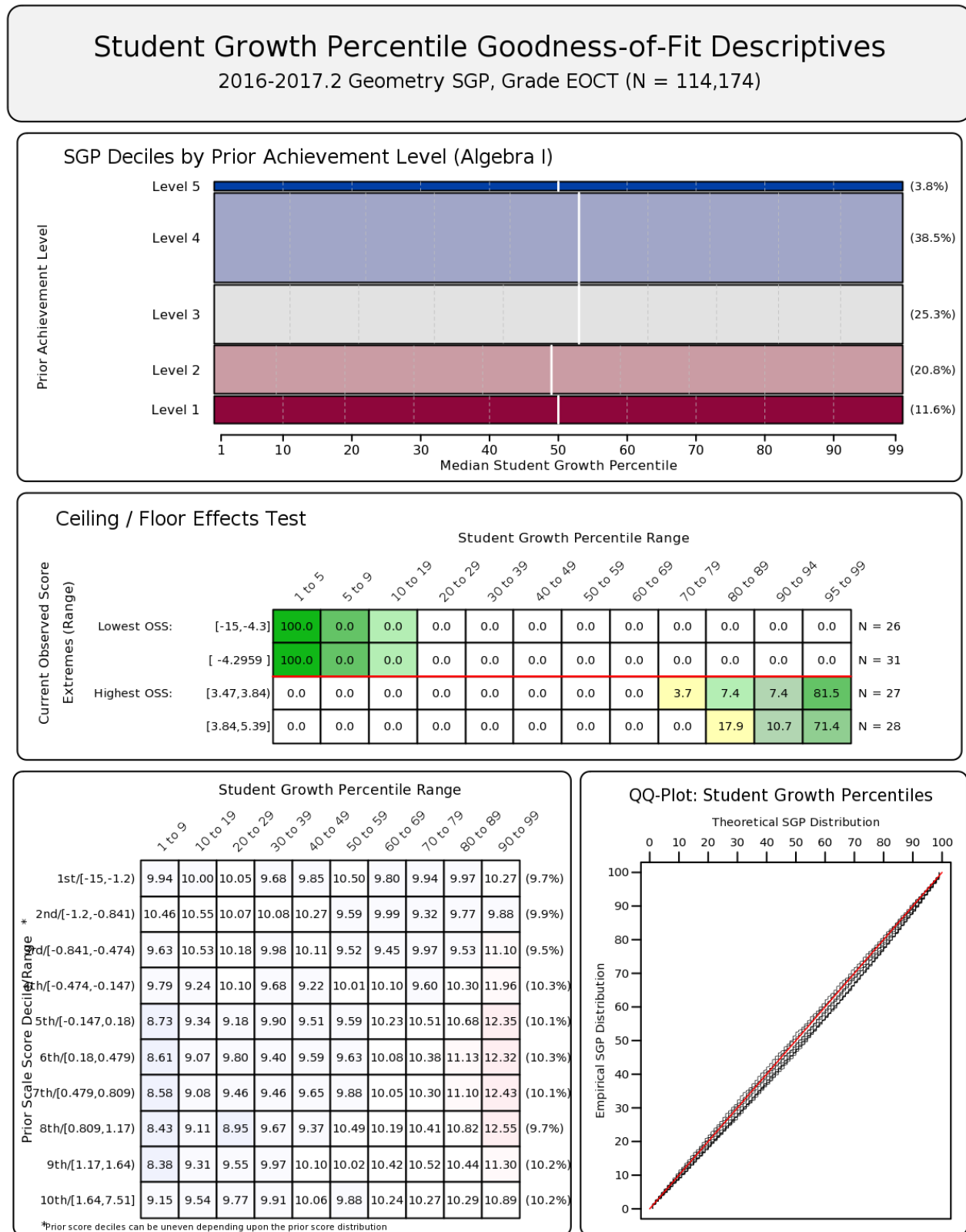


Figure 52: Goodness of Fit Plot for Spring 2017 Geometry (Priors: Spring 2016 Algebra I, Spring 2015 Math Grade 8 - SIMEX Corrected).

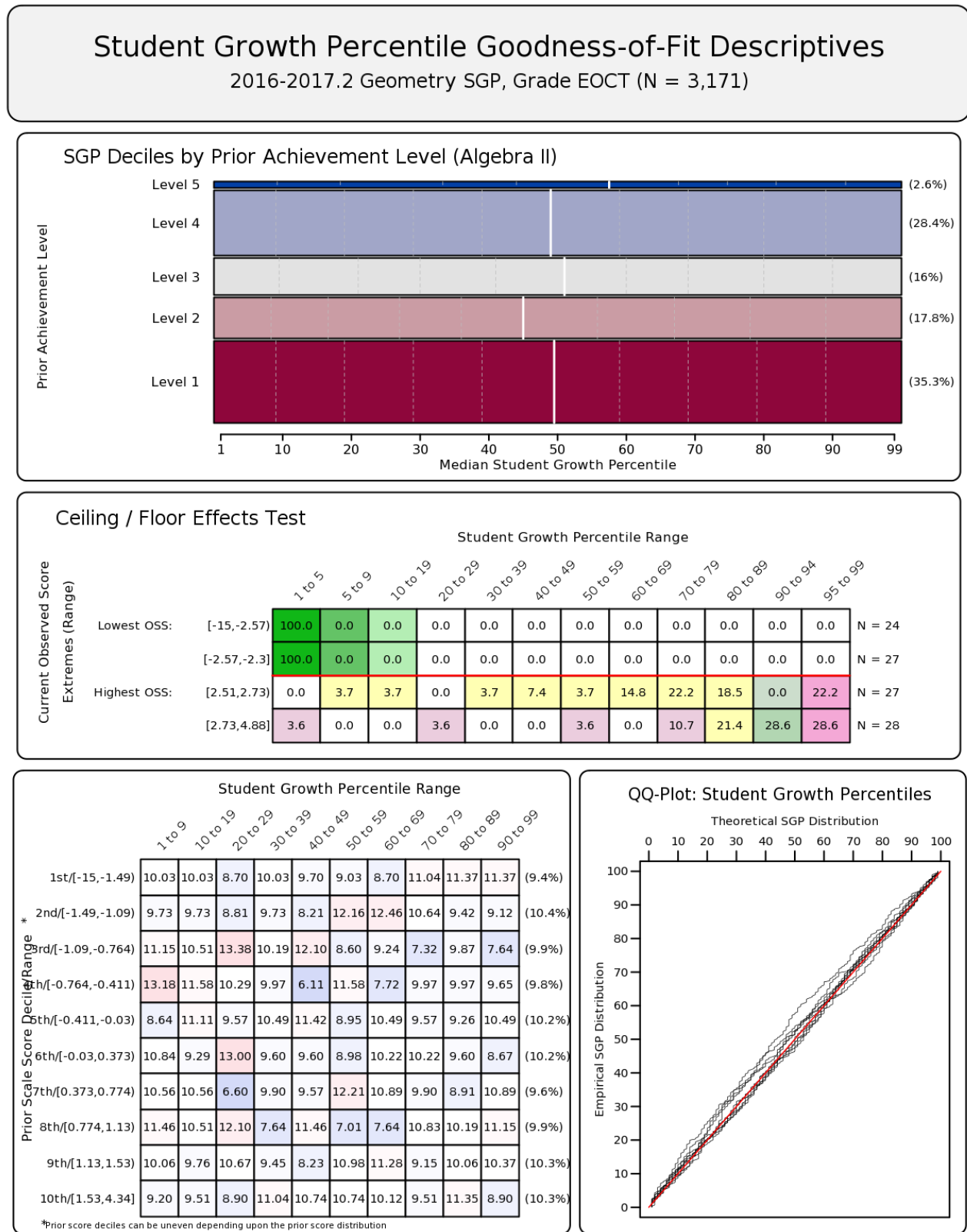


Figure 53: Goodness of Fit Plot for Spring 2017 Geometry (Priors: Spring 2016 Algebra II, Spring 2015 Algebra I - Uncorrected).

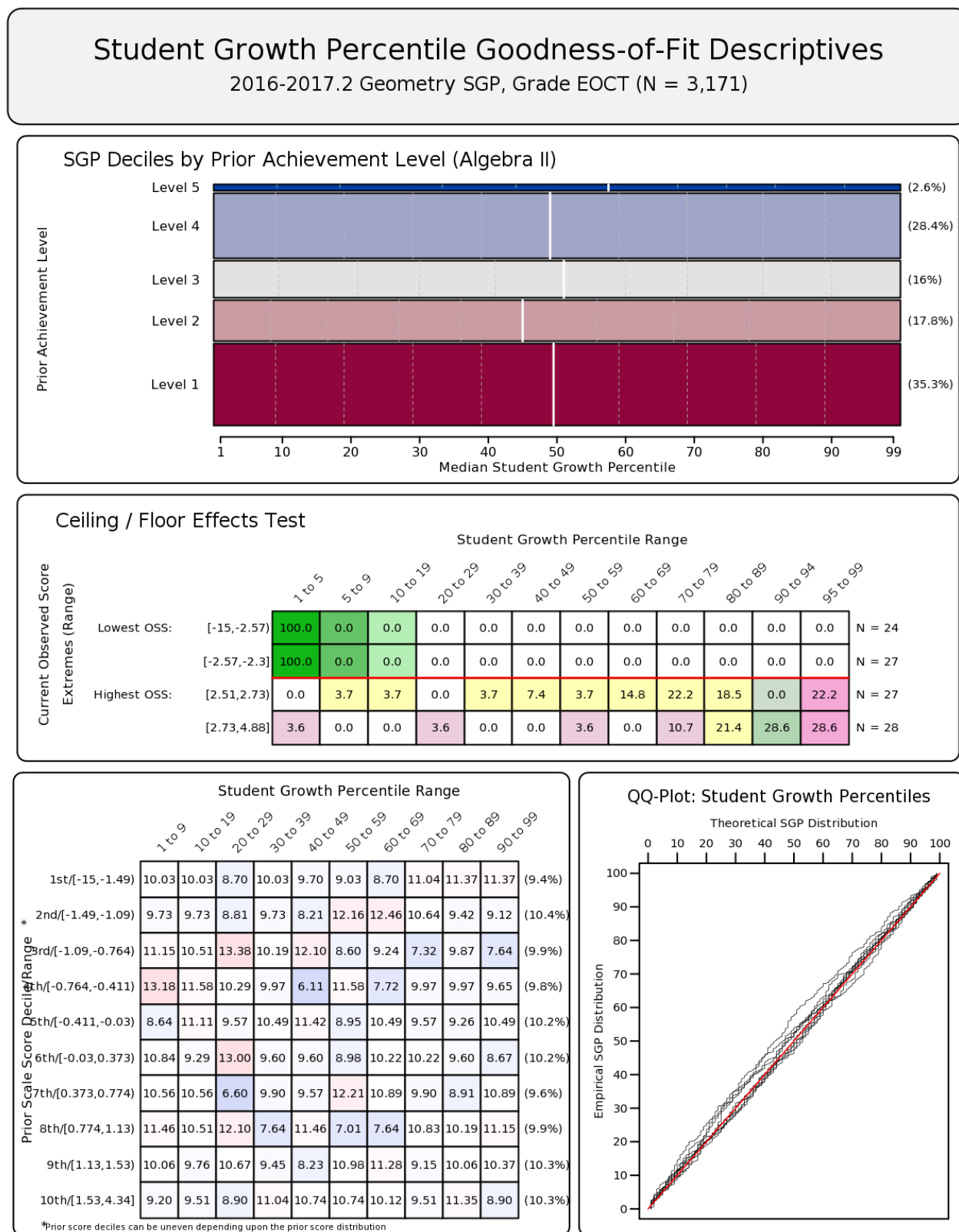


Figure 54: Goodness of Fit Plot for Spring 2017 Geometry (Priors: Spring 2016 Algebra II, Spring 2015 Algebra I - SIMEX Corrected).

3.3 Algebra II

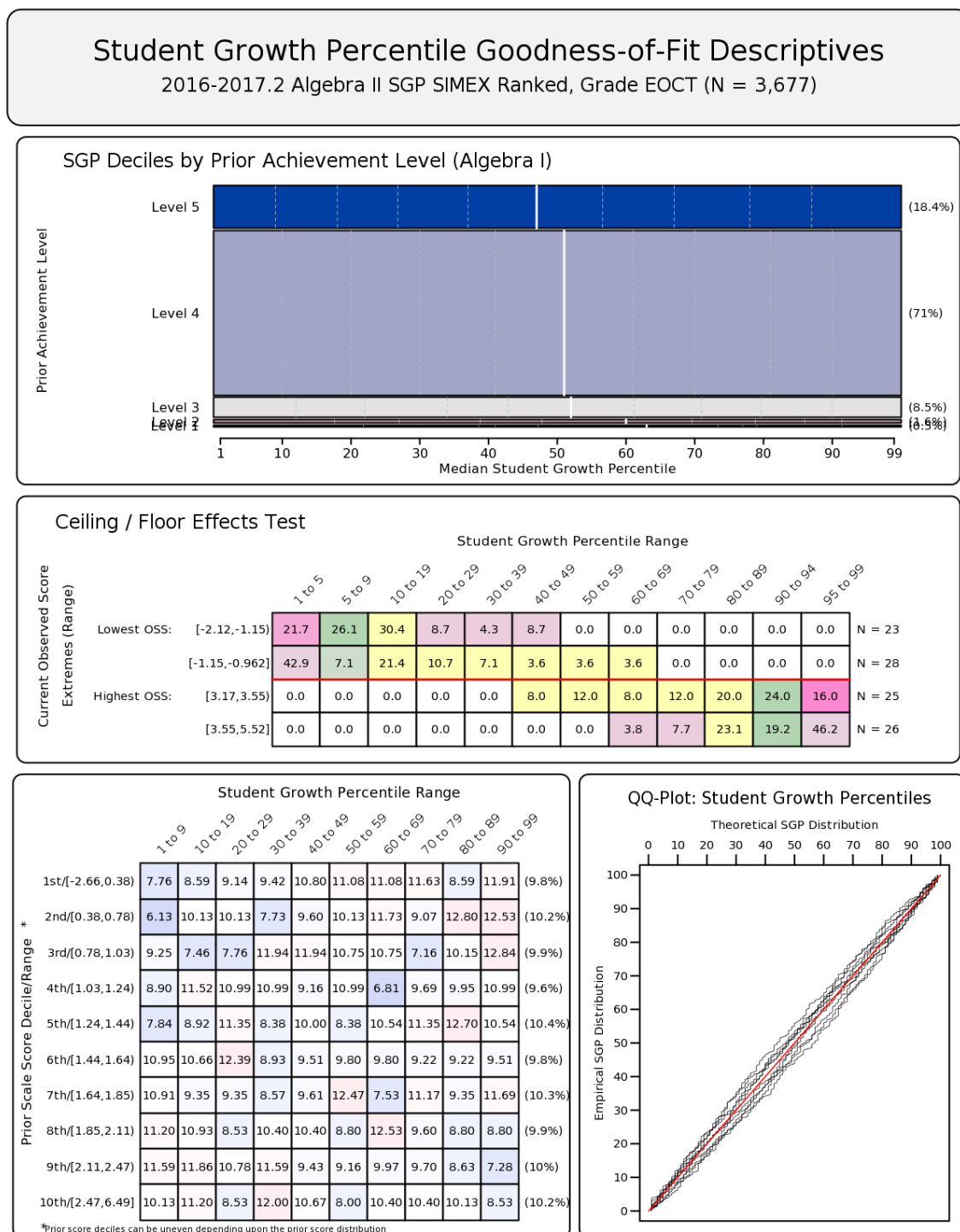


Figure 55: Goodness of Fit Plot for Spring 2017 Algebra II (Priors: Spring 2016 Algebra I, Spring 2015 Math Grade 7 - Uncorrected).

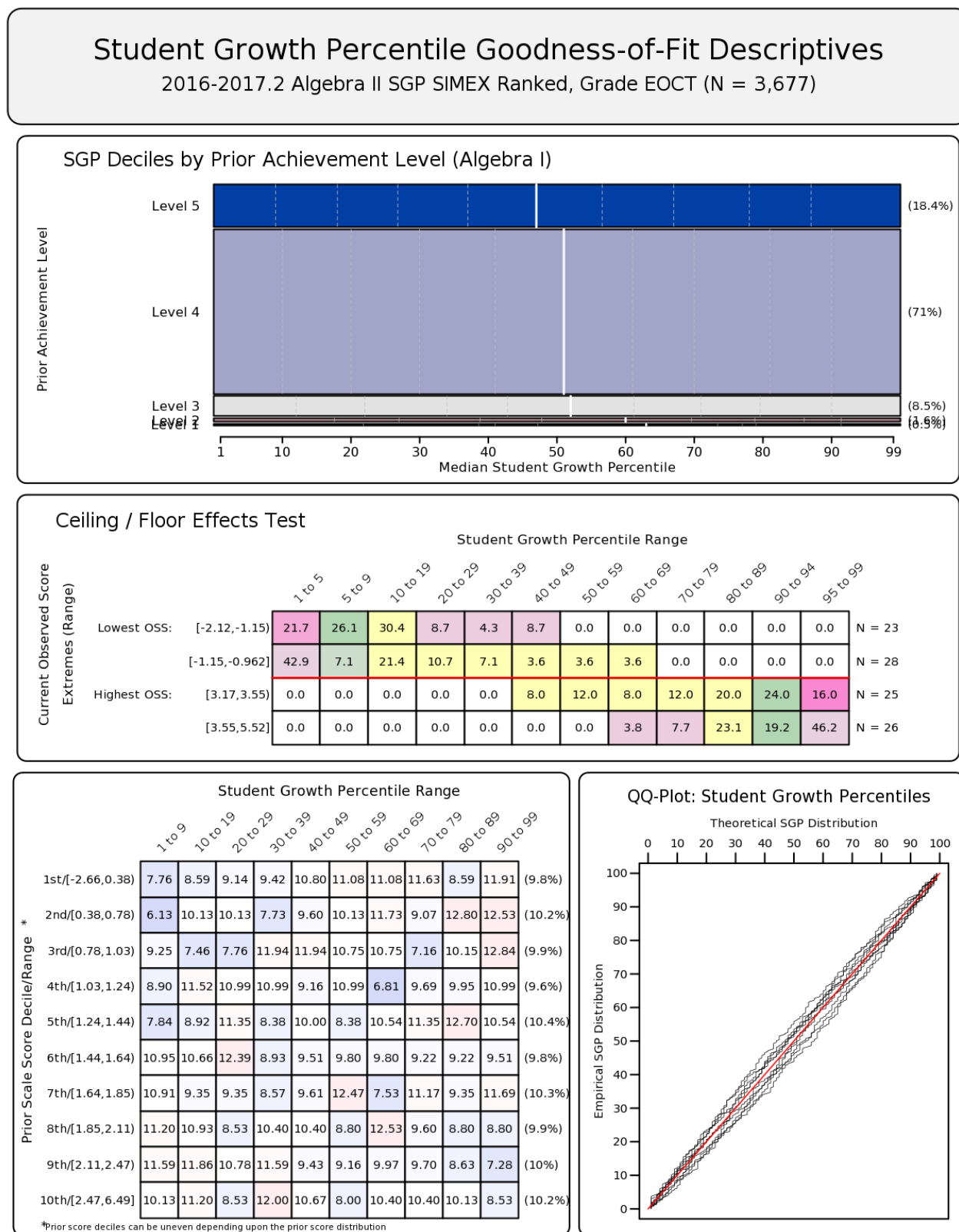
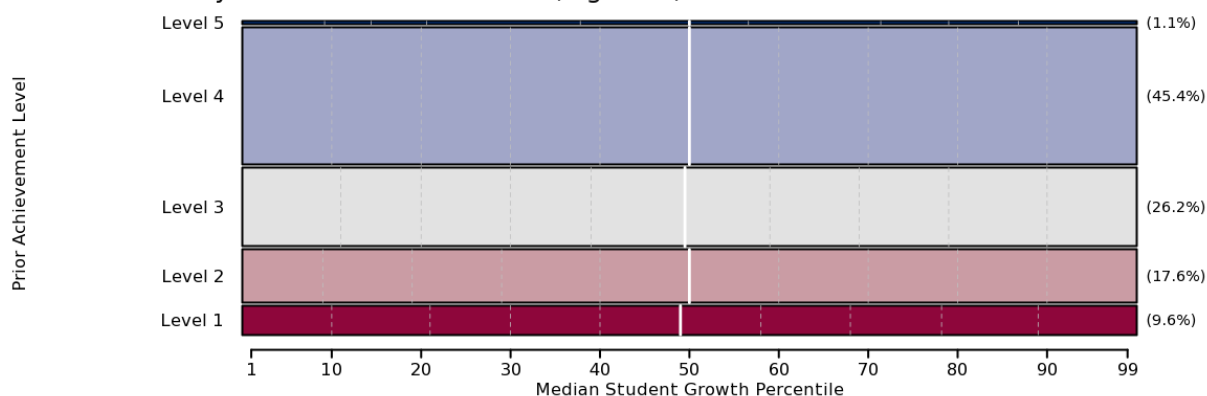


Figure 56: Goodness of Fit Plot for Spring 2017 Algebra II (Priors: Spring 2016 Algebra I, Spring 2015 Math Grade 7 - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 Algebra II SGP, Grade EOCT (N = 5,546)

SGP Deciles by Prior Achievement Level (Algebra I)



Ceiling / Floor Effects Test

		Student Growth Percentile 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	
Current Observed Score Extremes (Range)	Lowest OSS: [-4.56,-2.99]	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
	[-2.99,-2.38]	84.4	15.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 32
	Highest OSS: [2.02,2.22]	0.0	0.0	4.0	0.0	4.0	0.0	0.0	4.0	8.0	24.0	16.0	40.0	N = 25
	[2.22,2.97]	0.0	0.0	0.0	0.0	12.0	0.0	4.0	0.0	8.0	8.0	12.0	56.0	N = 25

		Student Growth Percentile 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	
Prior Scale Score Decile/Range *	1st/[-4.75,-1.16]	9.16	9.72	10.47	10.28	10.84	11.03	9.35	10.09	9.16	9.91	(9.6%)
	2nd/[-1.16,-0.71]	10.88	9.73	9.73	9.73	8.40	8.78	10.31	10.88	10.50	11.07	(10.3%)
	3rd/[-0.71,-0.3]	9.52	11.13	9.69	9.16	10.77	9.87	10.05	9.87	9.87	10.05	(9.3%)
	4th/[-0.3,0.03]	9.64	8.12	9.48	12.18	9.81	10.32	10.32	8.63	10.15	11.34	(10.7%)
	5th/[0.03,0.34]	8.41	11.53	11.06	9.97	9.19	10.90	9.03	10.90	10.12	8.88	(9.9%)
	6th/[0.34,0.57]	10.34	9.91	9.91	8.19	10.34	8.84	10.78	9.27	9.70	12.72	(9.8%)
	7th/[0.57,0.82]	10.12	9.25	9.42	9.95	10.65	10.12	9.95	10.99	9.25	10.30	(10%)
	8th/[0.82,1.06]	9.24	10.33	11.23	8.88	9.78	9.06	10.69	9.24	10.14	11.41	(9.6%)
	9th/[1.06,1.39]	10.53	10.89	7.99	11.62	8.89	11.25	9.26	10.16	11.25	8.17	(10.6%)
	10th/[1.39,4.02]	9.16	9.16	10.95	9.87	10.95	9.69	9.87	10.23	9.34	10.77	(10%)

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

QQ-Plot: Student Growth Percentiles

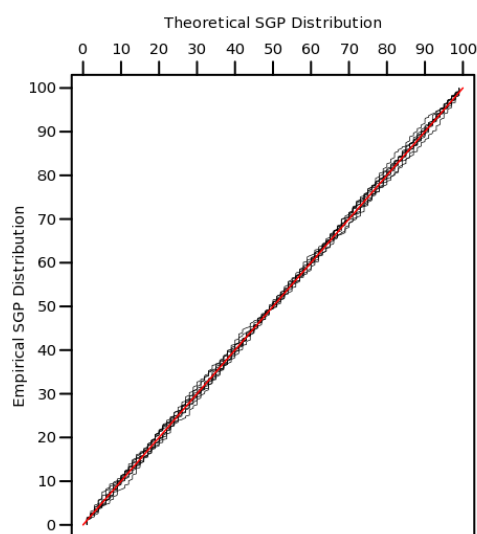


Figure 57: Goodness of Fit Plot for Spring 2017 Algebra II (Priors: Spring 2016 Algebra I, Spring 2015 Math Grade 8 - Uncorrected).

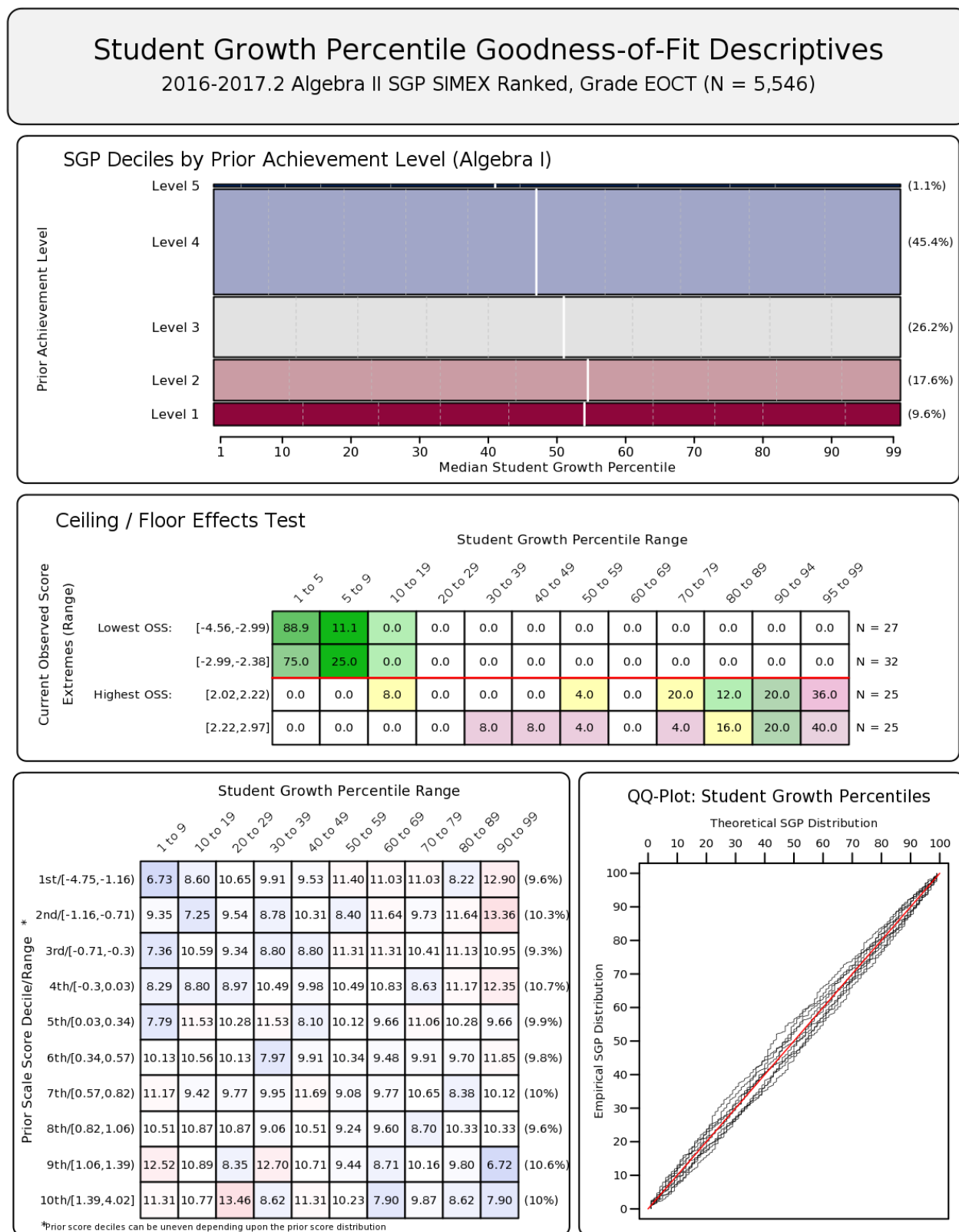


Figure 58: Goodness of Fit Plot for Spring 2017 Algebra II (Priors: Spring 2016 Algebra I, Spring 2015 Math Grade 8 - SIMEX Corrected).

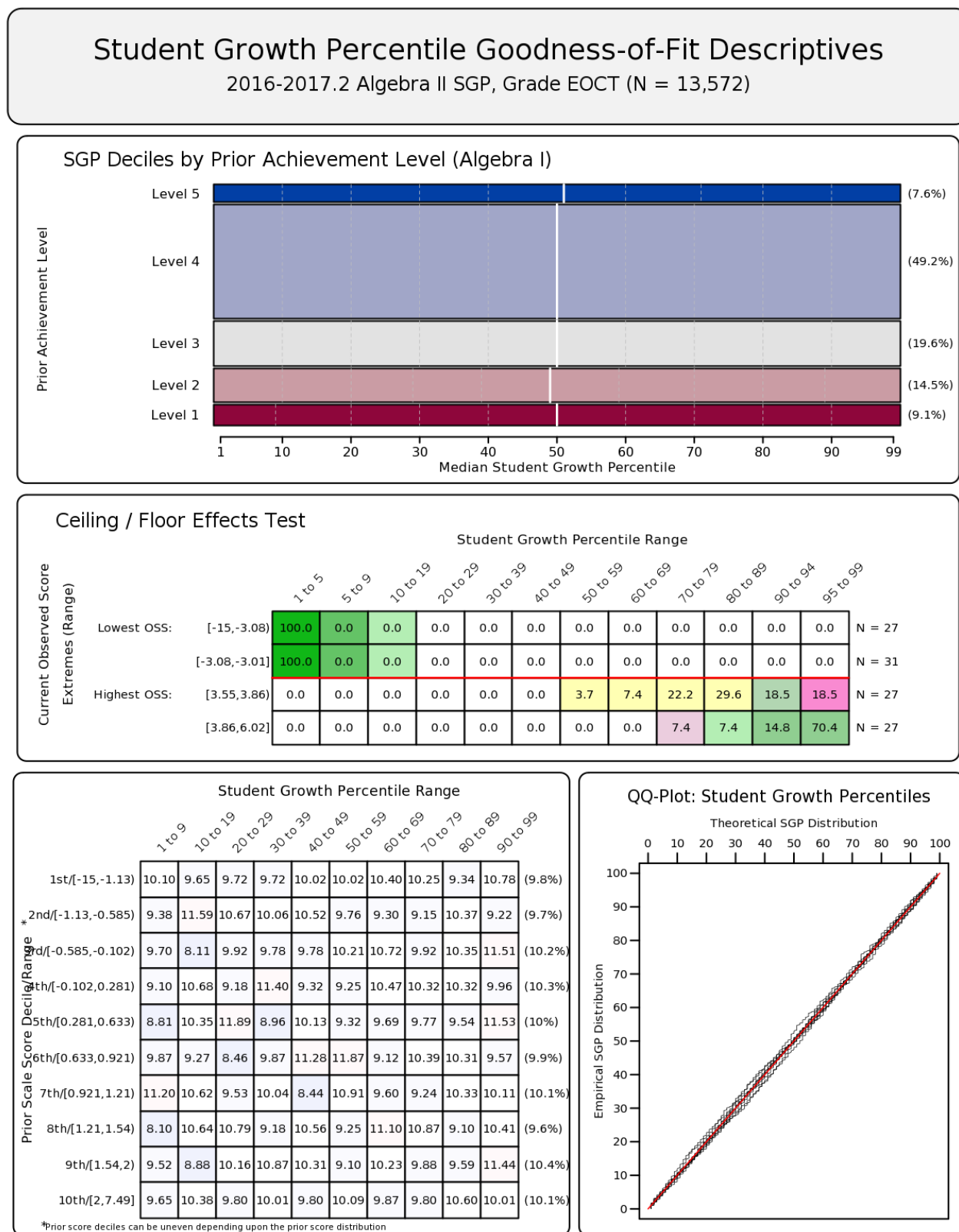


Figure 59: Goodness of Fit Plot for Spring 2017 Algebra II (Priors: Spring 2016 Algebra I - Uncorrected).

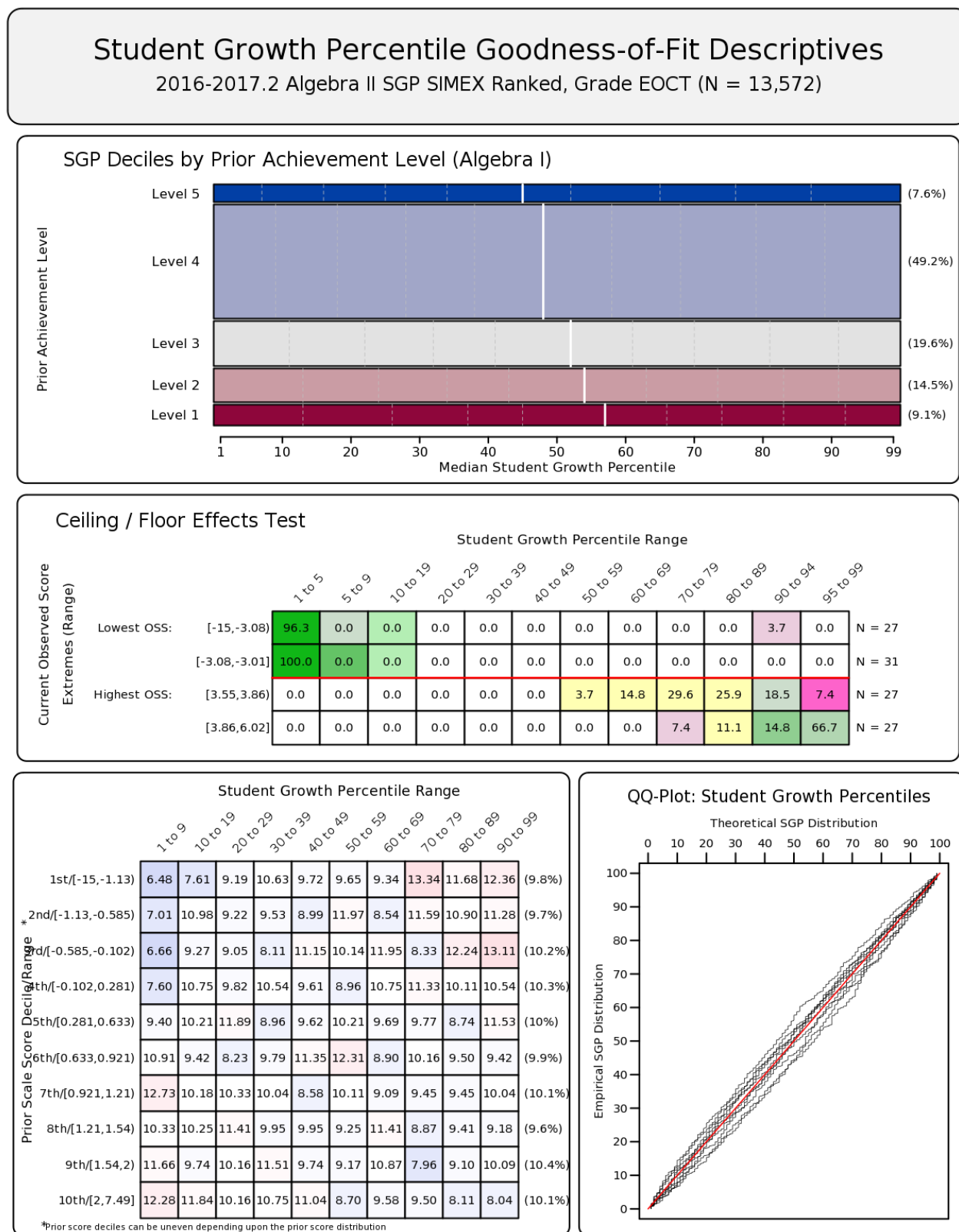
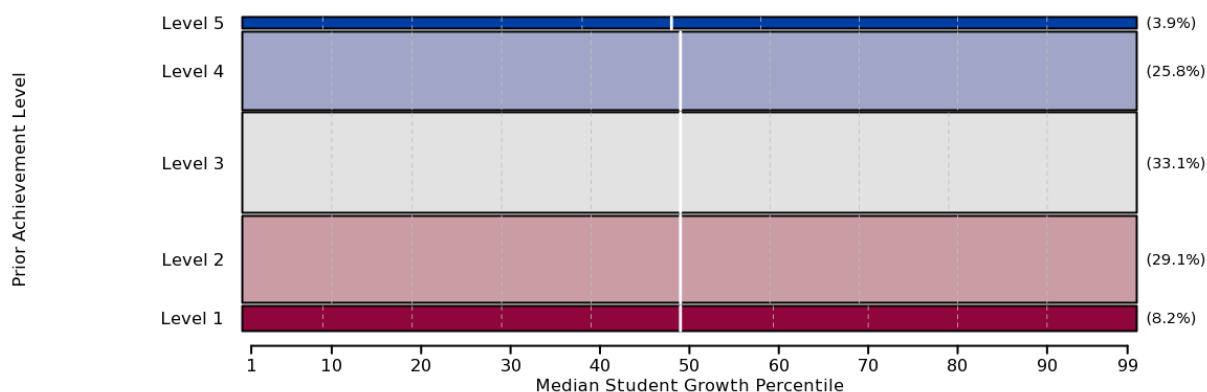


Figure 60: Goodness of Fit Plot for Spring 2017 Algebra II (Priors: Spring 2016 Algebra I - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 Algebra II SGP, Grade EOCT (N = 79,483)

SGP Deciles by Prior Achievement Level (Geometry)



Ceiling / Floor Effects Test

		Student Growth Percentile 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		
Current Observed Score Extremes (Range)	Lowest OSS: [-15,-4.221]	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	
	[-4.221,-4.216]	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 = 29	
	Highest OSS: [3.97,4.18]	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	8.0	20.0	12.0	56.0	N = 25	
	[4.18,5.54]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	13.8	82.8	N = 29	

		Student Growth Percentile 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		
Prior Scale Score Decile/Range	1st/[-15,-1.27]	10.07	10.05	10.34	10.07	9.71	9.62	9.93	9.57	10.29	10.36	(9.1%)	
	2nd/[-1.27,-0.837]	10.00	10.62	10.11	10.41	9.84	9.77	10.18	9.90	9.14	10.04	(10.8%)	
	3rd/[-0.837,-0.534]	10.11	10.35	10.46	9.90	9.67	10.40	9.65	9.75	9.89	9.82	(9.2%)	
	4th/[-0.534,-0.274]	9.72	9.92	10.00	9.71	10.09	9.54	10.12	9.92	10.19	10.80	(10.7%)	
	5th/[-0.274,-0.002]	10.25	10.58	9.89	9.97	10.38	9.76	9.48	10.06	9.80	9.83	(9.5%)	
	6th/[-0.002,0.295]	9.52	9.51	10.41	10.70	9.91	9.95	10.08	9.77	9.94	10.21	(10.4%)	
	7th/[0.295,0.604]	10.12	10.72	9.94	9.80	9.81	10.04	10.00	9.80	9.55	10.22	(10.1%)	
	8th/[0.604,0.968]	9.71	10.32	9.96	9.70	10.08	10.07	10.04	9.86	9.75	10.52	(10.1%)	
	9th/[0.968,1.43]	10.24	10.08	10.11	10.16	10.26	9.52	10.06	9.47	9.71	10.41	(10.1%)	
	10th/[1.43,4.75]	9.83	10.63	10.06	10.47	9.57	10.03	9.45	9.94	10.02	10.01	(10%)	

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

QQ-Plot: Student Growth Percentiles

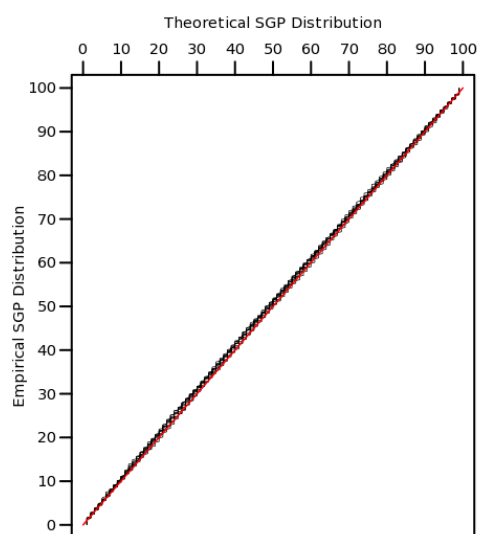
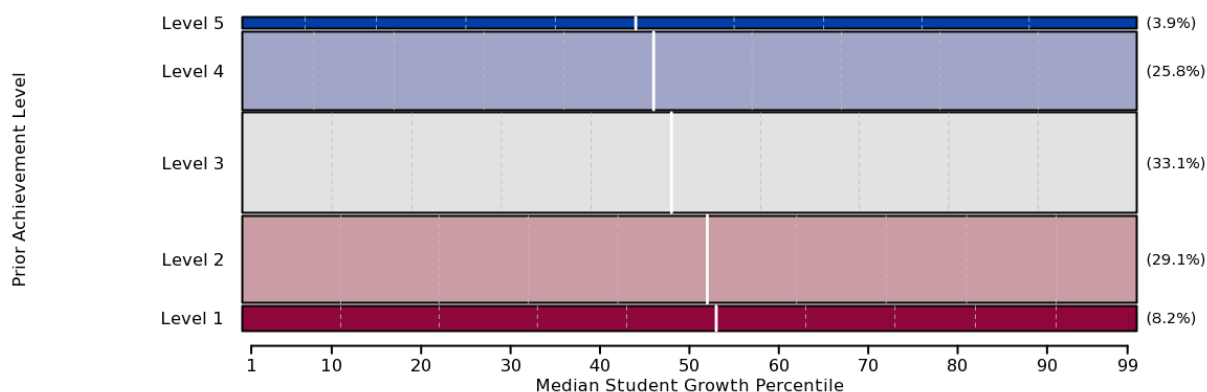


Figure 61: Goodness of Fit Plot for Spring 2017 Algebra II (Priors: Spring 2016 Geometry, Spring 2015 Algebra I - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 Algebra II SGP SIMEX Ranked, Grade EOCT (N = 79,483)

SGP Deciles by Prior Achievement Level (Geometry)



Ceiling / Floor Effects Test

		Student Growth Percentile 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	
Current Observed Score Extremes (Range)	Lowest OSS: [-15,-4.221]	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
	[-4.221,-4.216]	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 = 29
	Highest OSS: [3.97,4.18]	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	12.0	12.0	24.0	48.0	N = 25
	[4.18,5.54]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	3.4	10.3	82.8	N = 29

		Student Growth Percentile 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	
Prior Scale Score Decile/Range	1st/[-15,-1.27]	7.97	8.57	9.33	10.44	9.33	10.88	10.29	9.90	11.25	12.04	(9.1%)
	2nd/[-1.27,-0.837]	8.62	9.17	9.84	9.79	9.87	9.89	10.20	10.95	10.04	11.63	(10.8%)
	3rd/[-0.837,-0.534]	8.29	9.78	9.91	10.04	9.59	10.13	10.01	10.71	10.81	10.73	(9.2%)
	4th/[-0.534,-0.274]	8.35	9.60	9.75	9.62	10.15	10.01	9.86	10.70	10.46	11.49	(10.7%)
	5th/[-0.274,-0.002]	9.67	10.42	9.83	10.17	10.46	9.93	9.47	10.42	9.75	9.89	(9.5%)
	6th/[-0.002,0.295]	9.53	9.89	10.62	10.51	10.28	10.46	9.69	9.67	9.58	9.78	(10.4%)
	7th/[0.295,0.604]	10.97	11.65	9.99	9.69	10.16	10.14	9.46	9.29	9.15	9.50	(10.1%)
	8th/[0.604,0.968]	11.11	11.12	10.40	9.65	10.19	9.76	9.67	9.04	9.36	9.68	(10.1%)
	9th/[0.968,1.43]	11.87	10.87	10.97	9.99	9.78	9.20	9.63	8.90	9.20	9.61	(10.1%)
	10th/[1.43,4.75]	12.20	11.16	10.80	10.23	9.67	9.34	9.79	9.51	8.91	8.38	(10%)

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

QQ-Plot: Student Growth Percentiles

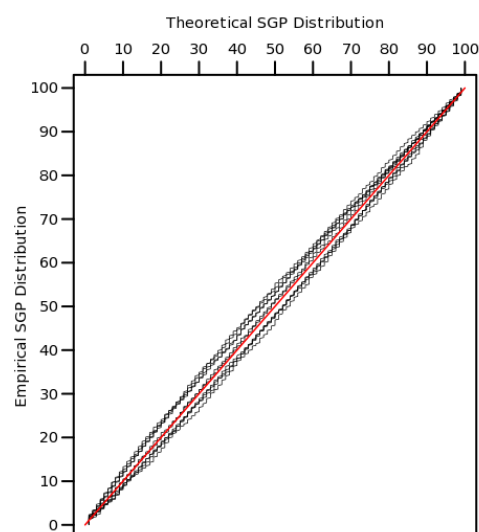
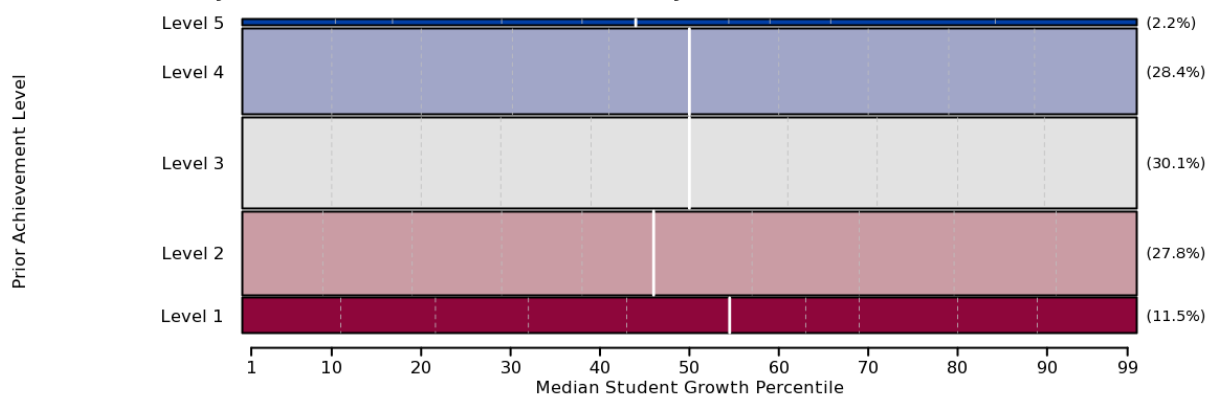


Figure 62: Goodness of Fit Plot for Spring 2017 Algebra II (Priors: Spring 2016 Geometry, Spring 2015 Algebra I - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 Algebra II SGP, Grade EOCT (N = 1,144)

SGP Deciles by Prior Achievement Level (Geometry)



Ceiling / Floor Effects Test

		Student Growth Percentile 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	
Current Observed Score Extremes (Range)	Lowest OSS: [-4.19,-1.96]	96.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 27
	[-1.96,-1.65]	27.3	45.5	27.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 33
	Highest OSS: [1.9,2.07]	0.0	0.0	0.0	7.4	3.7	11.1	3.7	7.4	11.1	18.5	18.5	18.5	N = 27
	[2.07,3.55]	0.0	0.0	0.0	0.0	0.0	7.4	11.1	14.8	18.5	11.1	7.4	29.6	N = 27

		Student Growth Percentile 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	
Prior Scale Score Decile/Range *	1st/[-4.31,-1.47]	10.84	10.84	12.05	10.84	10.84	9.64	13.25	7.23	6.02	8.43	(7.4%)
	2nd/[-1.47,-0.95]	10.88	10.20	8.84	9.52	9.52	8.16	10.88	10.20	11.56	10.20	(12.3%)
	3rd/[-0.95,-0.66]	7.20	11.20	12.00	8.00	16.00	7.20	8.00	8.80	9.60	12.00	(7.1%)
	4th/[-0.66,-0.31]	10.75	7.53	6.45	13.98	7.53	11.83	10.75	8.60	10.75	11.83	(12.5%)
	5th/[-0.31,-0.01]	9.09	10.61	11.36	9.85	5.30	13.64	11.36	12.88	9.09	6.82	(9.4%)
	6th/[-0.01,0.31]	8.14	10.47	9.30	4.65	13.95	4.65	8.14	11.63	16.28	12.79	(9.7%)
	7th/[0.31,0.64]	11.19	9.09	12.59	11.19	9.79	9.79	9.79	6.29	8.39	11.89	(11%)
	8th/[0.64,0.97]	8.18	10.00	6.36	11.82	12.73	11.82	12.73	13.64	5.45	7.27	(9%)
	9th/[0.97,1.3]	12.77	10.64	12.77	6.38	6.38	9.57	10.64	6.38	11.70	12.77	(10.3%)
	10th/[1.3,2.82]	10.08	9.30	9.30	10.08	11.63	10.08	8.53	10.85	11.63	8.53	(11.3%)

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

QQ-Plot: Student Growth Percentiles

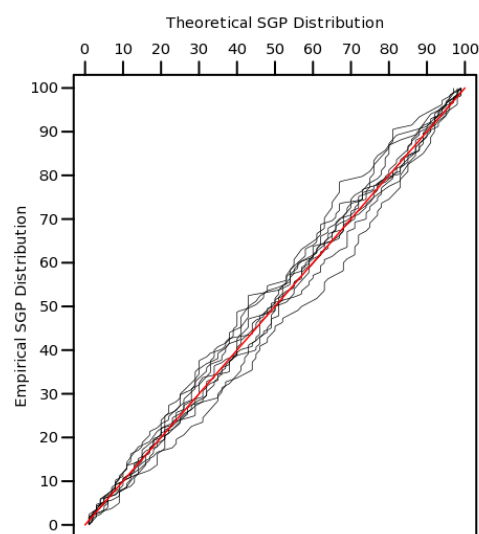
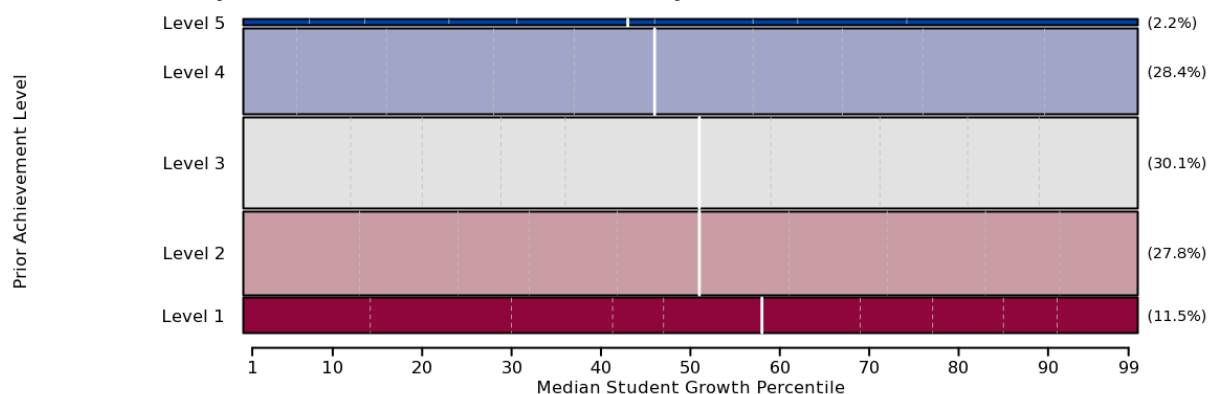


Figure 63: Goodness of Fit Plot for Spring 2017 Algebra II (Priors: Fall 2016 Geometry - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 Algebra II SGP SIMEX Ranked, Grade EOCT (N = 1,144)

SGP Deciles by Prior Achievement Level (Geometry)



Ceiling / Floor Effects Test

		Student Growth Percentile 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	
Current Observed Score Extremes (Range)	Lowest OSS: [-4.19,-1.96]	70.4	25.9	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 27
	[-1.96,-1.65]	12.1	21.2	66.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 33
	Highest OSS: [1.9,2.07]	0.0	0.0	3.7	7.4	3.7	11.1	7.4	11.1	7.4	11.1	18.5	18.5	N = 27
	[2.07,3.55]	0.0	0.0	0.0	0.0	0.0	11.1	11.1	22.2	18.5	3.7	7.4	25.9	N = 27

		Student Growth Percentile 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	
Prior Scale Score Decile/Range *	1st/[-4.31,-1.47]	7.23	12.05	4.82	10.84	18.07	10.84	8.43	6.02	12.05	9.64	(7.4%)
	2nd/[-1.47,-0.95]	6.80	12.24	9.52	5.44	8.84	10.20	10.88	10.88	12.24	12.93	(12.3%)
	3rd/[-0.95,-0.66]	4.00	9.60	11.20	8.80	13.60	10.40	10.40	6.40	10.40	15.20	(7.1%)
	4th/[-0.66,-0.31]	6.45	8.60	8.60	10.75	7.53	11.83	13.98	9.68	10.75	11.83	(12.5%)
	5th/[-0.31,-0.01]	6.82	10.61	11.36	9.09	6.06	15.91	10.61	11.36	12.12	6.06	(9.4%)
	6th/[-0.01,0.31]	5.81	12.79	8.14	6.98	11.63	5.81	13.95	17.44	11.63		(9.7%)
	7th/[0.31,0.64]	9.09	9.09	16.78	13.99	5.59	11.89	6.29	9.79	6.99	10.49	(11%)
	8th/[0.64,0.97]	10.00	11.82	5.45	14.55	12.73	8.18	14.55	11.82	4.55	6.36	(9%)
	9th/[0.97,1.3]	19.15	9.57	10.64	5.32	10.64	6.38	8.51	5.32	8.51	15.96	(10.3%)
	10th/[1.3,2.82]	19.38	4.65	7.75	14.73	10.08	7.75	10.08	11.63	5.43	8.53	(11.3%)

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

QQ-Plot: Student Growth Percentiles

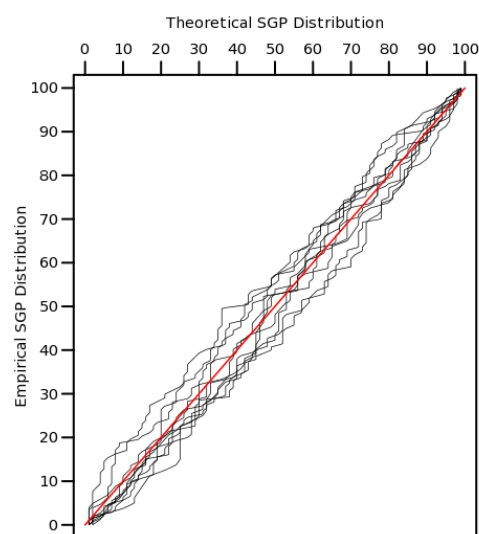
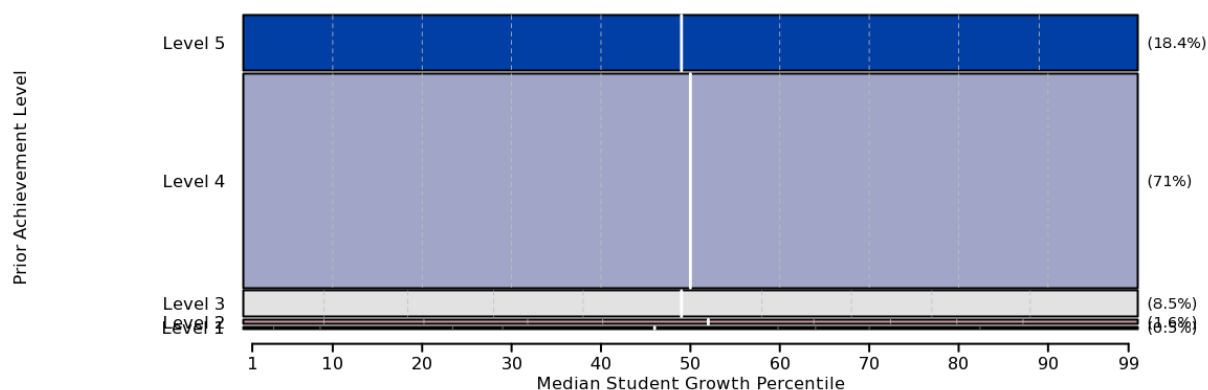


Figure 64: Goodness of Fit Plot for Spring 2017 Algebra II (Priors: Fall 2016 Geometry - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 Algebra II SGP, Grade EOCT (N = 3,677)

SGP Deciles by Prior Achievement Level (Algebra I)



Ceiling / Floor Effects Test

Current Observed Score Extremes (Range)	Student Growth Percentile 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: [-2.12,-1.15]	56.5	17.4	17.4	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 23
[-1.15,-0.962]	57.1	14.3	10.7	14.3	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	N = 28
Highest OSS: [3.17,3.55]	0.0	0.0	0.0	0.0	0.0	4.0	8.0	12.0	12.0	12.0	28.0	24.0	N = 25
[3.55,5.52]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.7	15.4	15.4	57.7	N = 26

Prior Scale Score Decile/Range *	Student Growth Percentile 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/[-2.66,0.38]	11.36	9.70	10.53	9.14	10.25	11.08	10.53	9.70	8.86	8.86	(9.8%)
2nd/[0.38,0.78]	9.07	9.60	9.60	8.80	9.87	8.80	10.93	11.47	10.93	10.93	(10.2%)
3rd/[0.78,1.03]	10.15	7.76	8.66	11.64	11.64	10.15	10.75	7.46	10.45	11.34	(9.9%)
4th/[1.03,1.24]	8.90	12.57	10.99	11.78	9.69	9.69	6.28	9.42	9.69	10.99	(9.6%)
5th/[1.24,1.44]	7.84	9.19	10.54	10.81	8.92	8.65	10.81	10.54	11.89	10.81	(10.4%)
6th/[1.44,1.64]	10.37	11.53	11.53	9.22	8.93	11.53	9.51	9.80	7.20	10.37	(9.8%)
7th/[1.64,1.85]	11.43	8.31	9.61	7.53	9.09	11.95	9.87	10.91	9.61	11.69	(10.3%)
8th/[1.85,2.11]	9.60	10.93	8.27	10.13	10.40	9.33	12.00	10.93	9.07	9.33	(9.9%)
9th/[2.11,2.47]	9.43	11.32	10.51	10.78	10.51	9.16	9.97	9.16	9.97	9.16	(10%)
10th/[2.47,6.49]	9.07	8.80	10.40	9.60	10.67	9.87	9.33	10.40	11.47	10.40	(10.2%)

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

QQ-Plot: Student Growth Percentiles

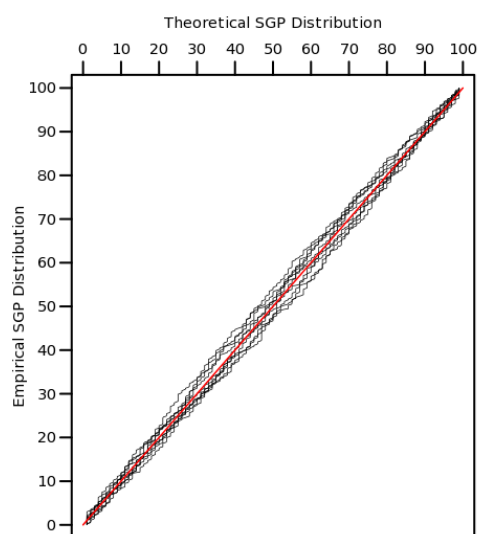
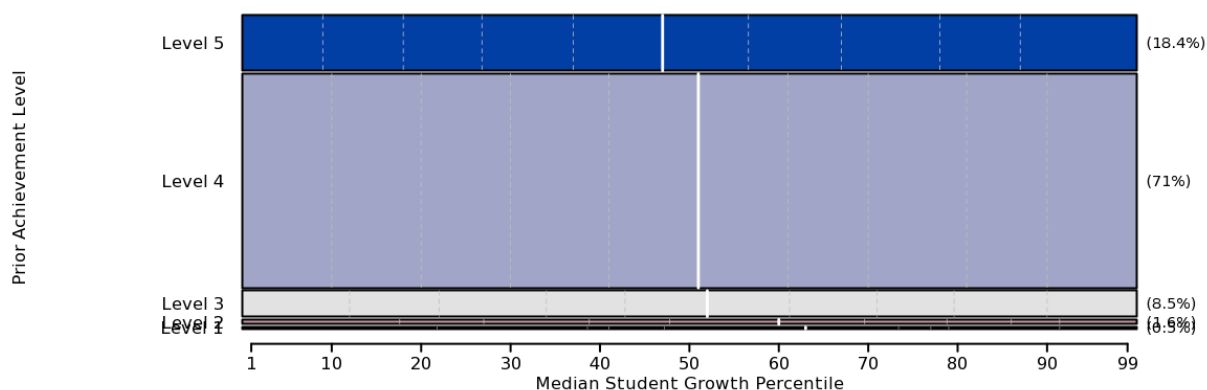


Figure 65: Goodness of Fit Plot for Spring 2017 Algebra II (Priors: Spring 2016 Algebra I, Spring 2015 Math Grade 7 - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 Algebra II SGP SIMEX Ranked, Grade EOCT (N = 3,677)

SGP Deciles by Prior Achievement Level (Algebra I)



Ceiling / Floor Effects Test

Current Observed Score Extremes (Range)	Student Growth Percentile 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: [-2.12,-1.15]	21.7	26.1	30.4	8.7	4.3	8.7	0.0	0.0	0.0	0.0	0.0	0.0	N = 23
[-1.15,-0.962]	42.9	7.1	21.4	10.7	7.1	3.6	3.6	3.6	0.0	0.0	0.0	0.0	N = 28
Highest OSS: [3.17,3.55]	0.0	0.0	0.0	0.0	0.0	8.0	12.0	8.0	12.0	20.0	24.0	16.0	N = 25
[3.55,5.52]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.7	23.1	19.2	46.2	N = 26

Prior Scale Score Decile/Range *	Student Growth Percentile 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/[-2.66,0.38]	7.76	8.59	9.14	9.42	10.80	11.08	11.08	11.63	8.59	11.91	(9.8%)
2nd/[0.38,0.78]	6.13	10.13	10.13	7.73	9.60	10.13	11.73	9.07	12.80	12.53	(10.2%)
3rd/[0.78,1.03]	9.25	7.46	7.76	11.94	11.94	10.75	10.75	7.16	10.15	12.84	(9.9%)
4th/[1.03,1.24]	8.90	11.52	10.99	10.99	9.16	10.99	6.81	9.69	9.95	10.99	(9.6%)
5th/[1.24,1.44]	7.84	8.92	11.35	8.38	10.00	8.38	10.54	11.35	12.70	10.54	(10.4%)
6th/[1.44,1.64]	10.95	10.66	12.39	8.93	9.51	9.80	9.80	9.22	9.22	9.51	(9.8%)
7th/[1.64,1.85]	10.91	9.35	9.35	8.57	9.61	12.47	7.53	11.17	9.35	11.69	(10.3%)
8th/[1.85,2.11]	11.20	10.93	8.53	10.40	10.40	8.80	12.53	9.60	8.80	8.80	(9.9%)
9th/[2.11,2.47]	11.59	11.86	10.78	11.59	9.43	9.16	9.97	9.70	8.63	7.28	(10%)
10th/[2.47,6.49]	10.13	11.20	8.53	12.00	10.67	8.00	10.40	10.40	10.13	8.53	(10.2%)

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

QQ-Plot: Student Growth Percentiles

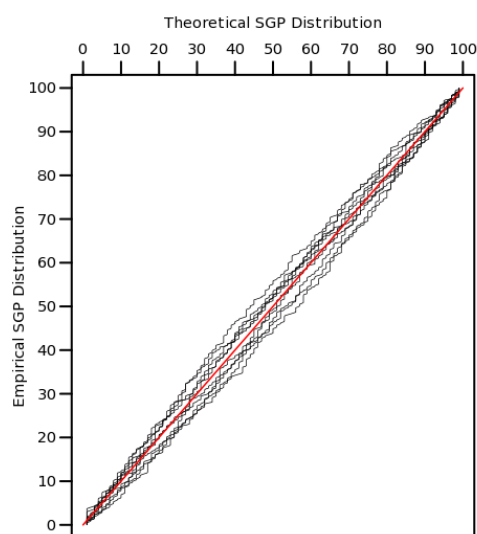


Figure 66: Goodness of Fit Plot for Spring 2017 Algebra II (Priors: Spring 2016 Algebra I, Spring 2015 Math Grade 7 - SIMEX Corrected).

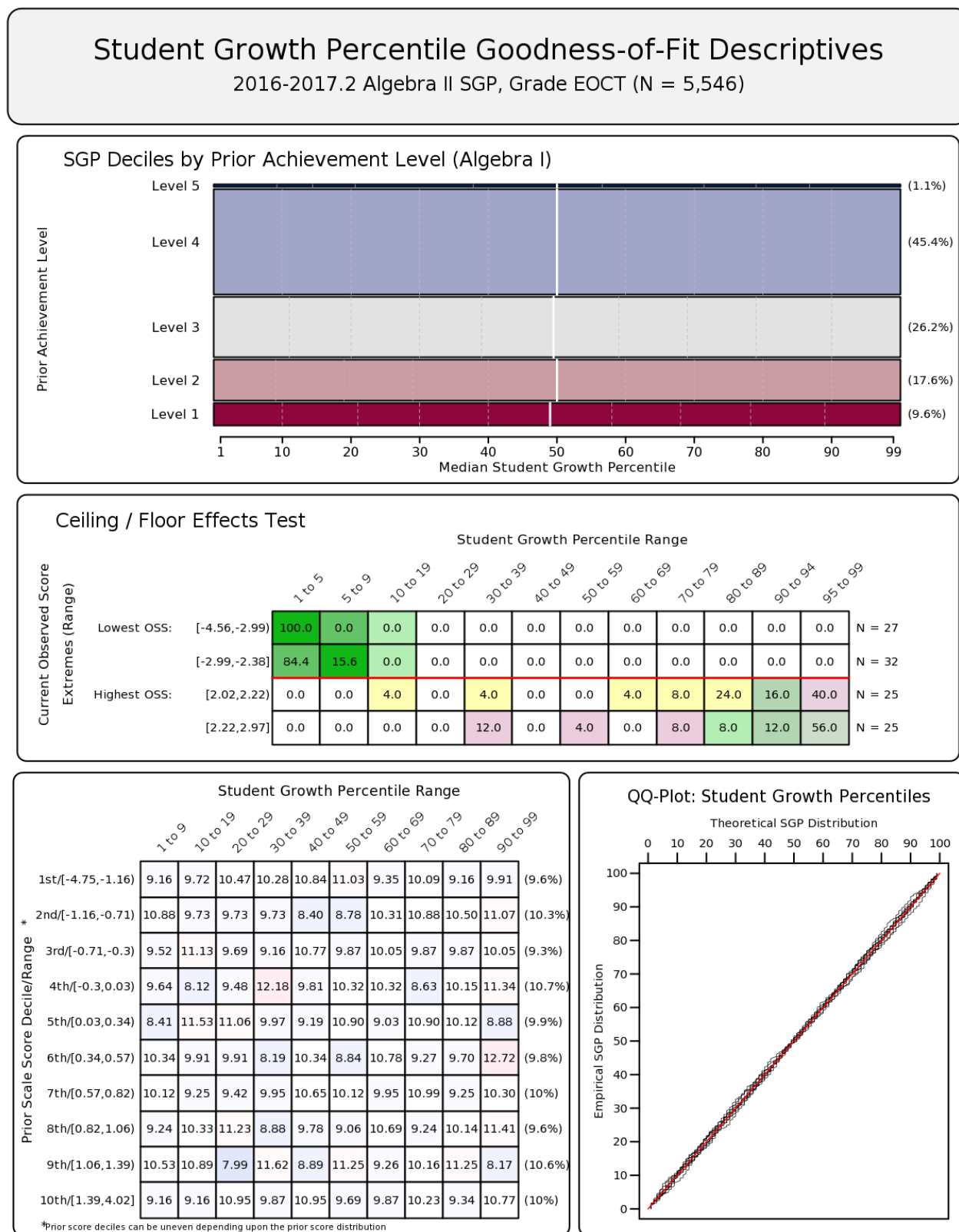


Figure 67: Goodness of Fit Plot for Spring 2017 Algebra II (Priors: Spring 2016 Algebra I, Spring 2015 Math Grade 8 - Uncorrected).

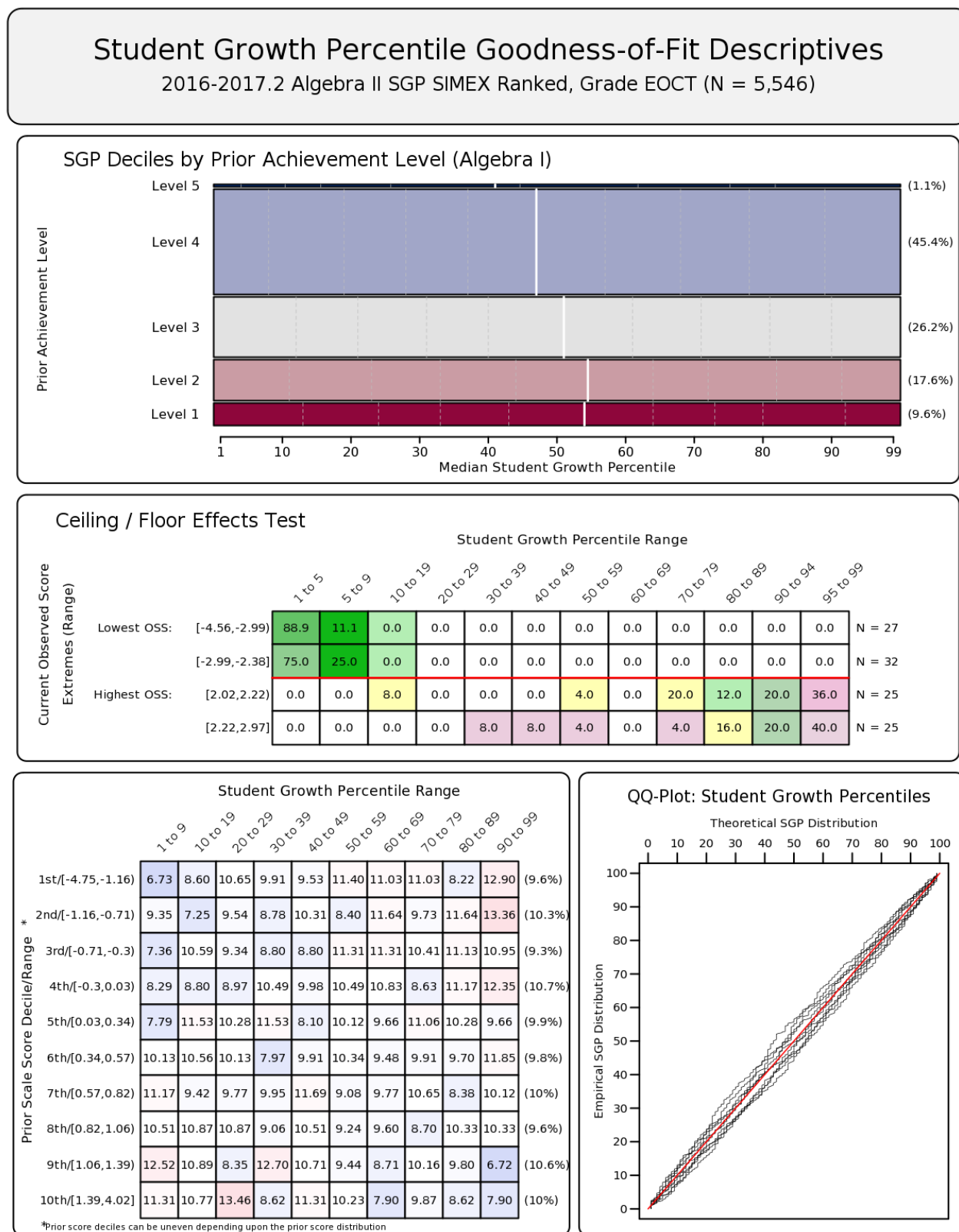


Figure 68: Goodness of Fit Plot for Spring 2017 Algebra II (Priors: Spring 2016 Algebra I, Spring 2015 Math Grade 8 - SIMEX Corrected).

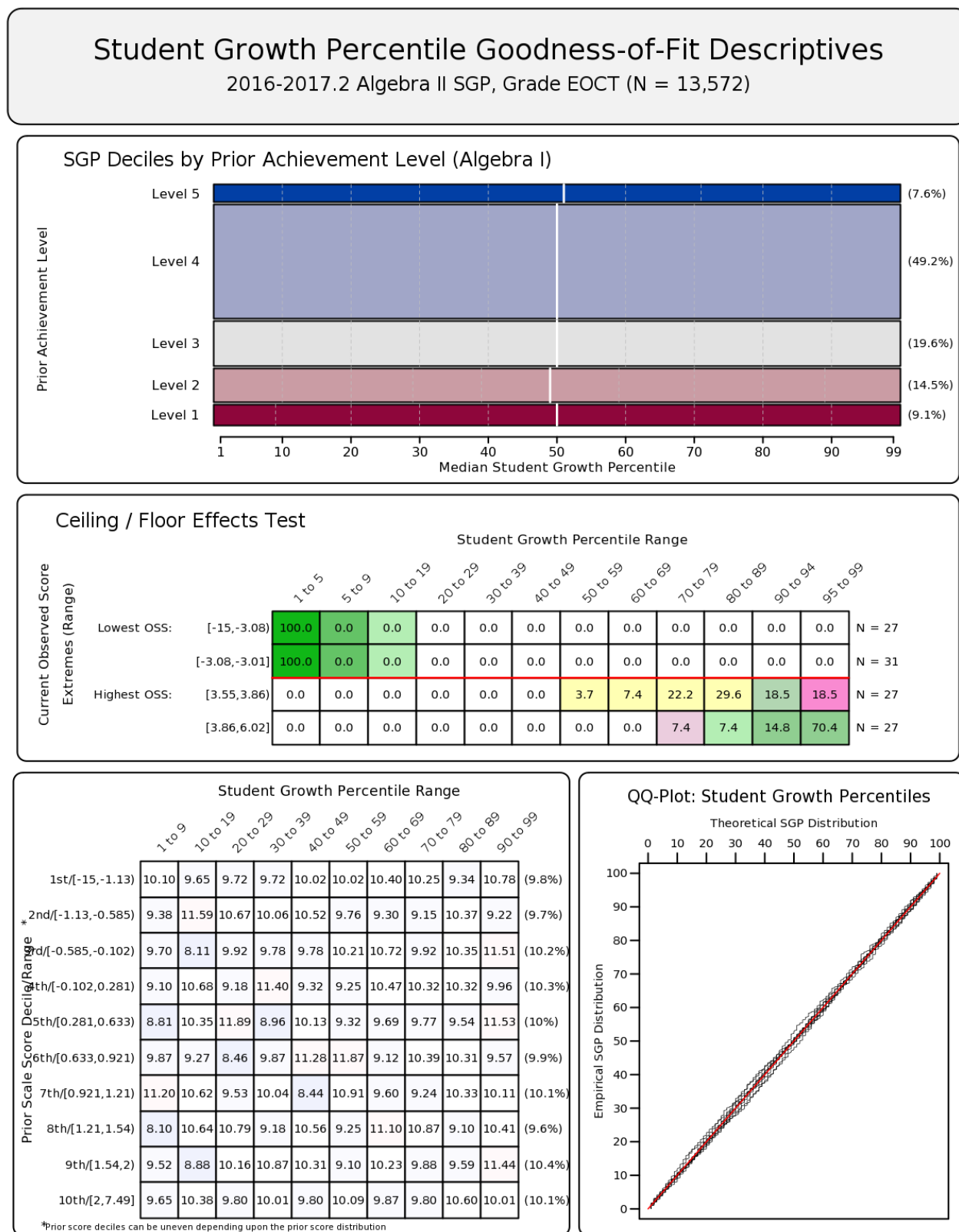


Figure 69: Goodness of Fit Plot for Spring 2017 Algebra II (Priors: Spring 2016 Algebra I - Uncorrected).

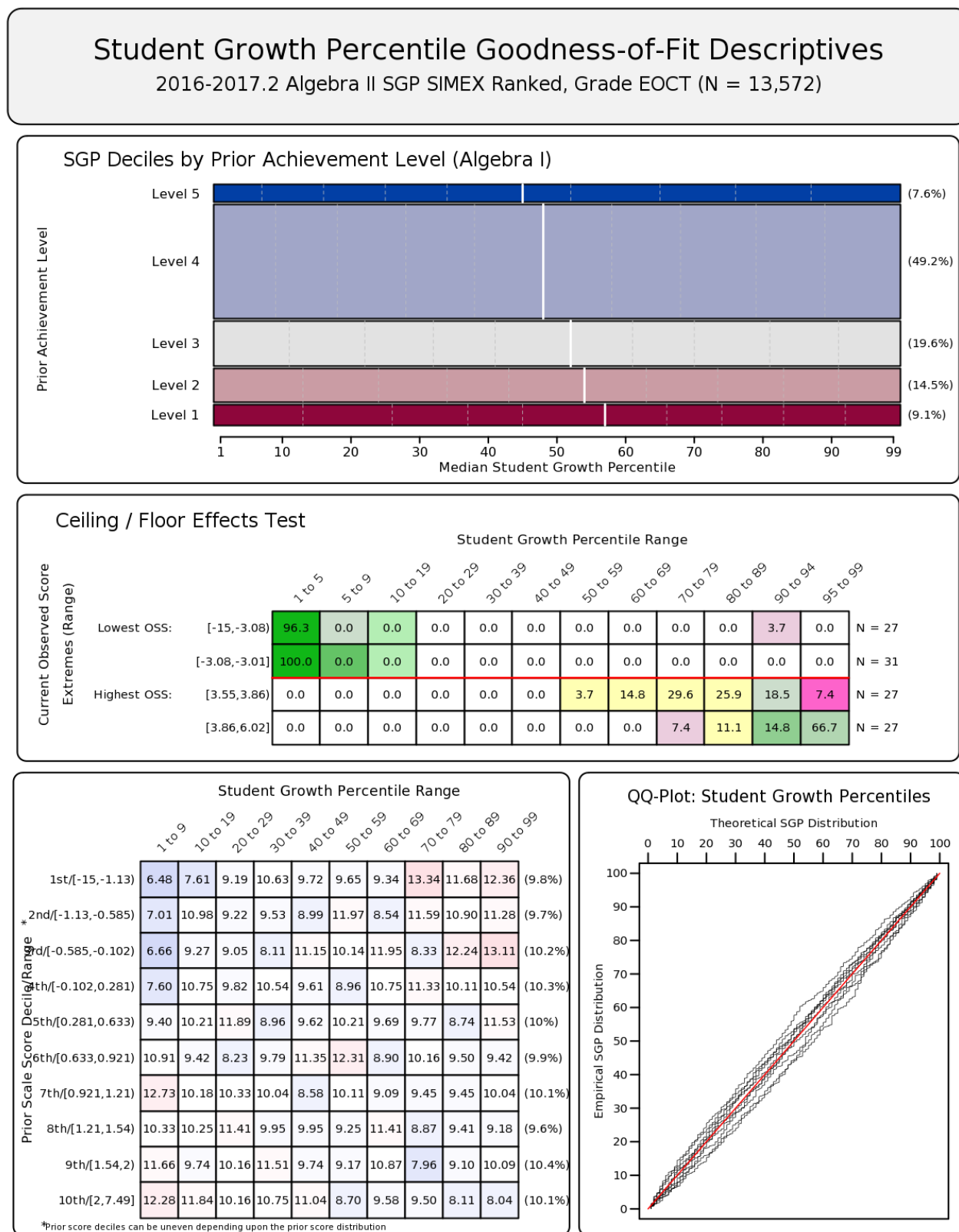
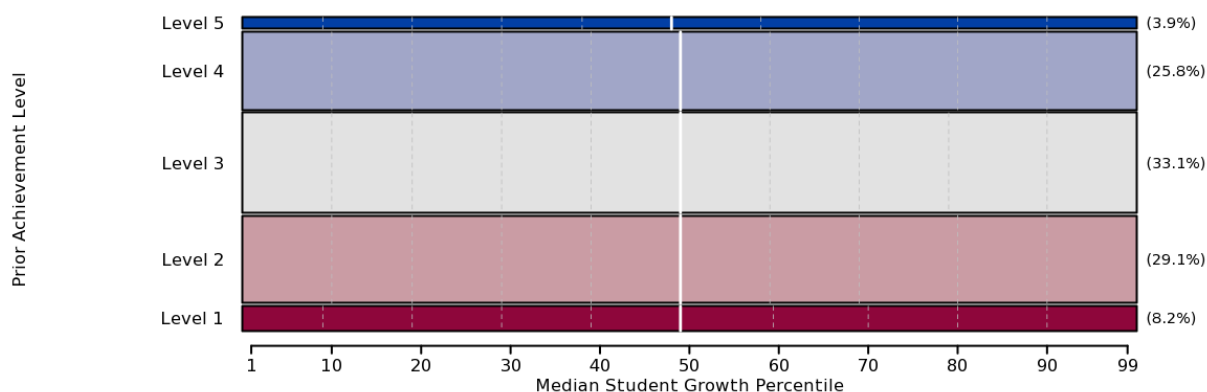


Figure 70: Goodness of Fit Plot for Spring 2017 Algebra II (Priors: Spring 2016 Algebra I - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 Algebra II SGP, Grade EOCT (N = 79,483)

SGP Deciles by Prior Achievement Level (Geometry)



Ceiling / Floor Effects Test

		Student Growth Percentile 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	
Current Observed Score Extremes (Range)	Lowest OSS: [-15,-4.221]	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
	[-4.221,-4.216]	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 = 29
	Highest OSS: [3.97,4.18]	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	8.0	20.0	12.0	56.0	N = 25
	[4.18,5.54]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	13.8	82.8	N = 29

		Student Growth Percentile 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	
Prior Scale Score Decile/Range	1st/[-15,-1.27]	10.07	10.05	10.34	10.07	9.71	9.62	9.93	9.57	10.29	10.36	(9.1%)
	2nd/[-1.27,-0.837]	10.00	10.62	10.11	10.41	9.84	9.77	10.18	9.90	9.14	10.04	(10.8%)
	3rd/[-0.837,-0.534]	10.11	10.35	10.46	9.90	9.67	10.40	9.65	9.75	9.89	9.82	(9.2%)
	4th/[-0.534,-0.274]	9.72	9.92	10.00	9.71	10.09	9.54	10.12	9.92	10.19	10.80	(10.7%)
	5th/[-0.274,-0.002]	10.25	10.58	9.89	9.97	10.38	9.76	9.48	10.06	9.80	9.83	(9.5%)
	6th/[-0.002,0.295]	9.52	9.51	10.41	10.70	9.91	9.95	10.08	9.77	9.94	10.21	(10.4%)
	7th/[0.295,0.604]	10.12	10.72	9.94	9.80	9.81	10.04	10.00	9.80	9.55	10.22	(10.1%)
	8th/[0.604,0.968]	9.71	10.32	9.96	9.70	10.08	10.07	10.04	9.86	9.75	10.52	(10.1%)
	9th/[0.968,1.43]	10.24	10.08	10.11	10.16	10.26	9.52	10.06	9.47	9.71	10.41	(10.1%)
	10th/[1.43,4.75]	9.83	10.63	10.06	10.47	9.57	10.03	9.45	9.94	10.02	10.01	(10%)

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

QQ-Plot: Student Growth Percentiles

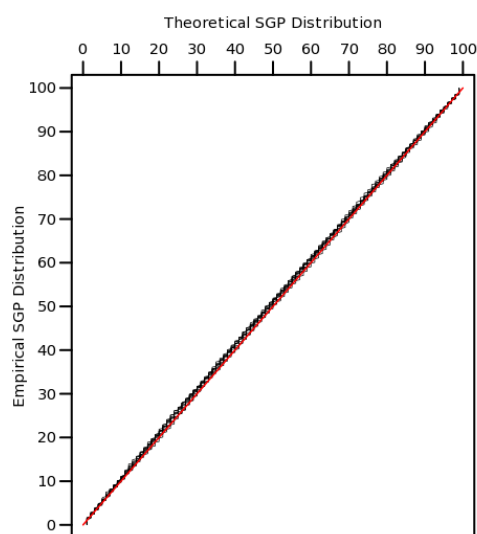
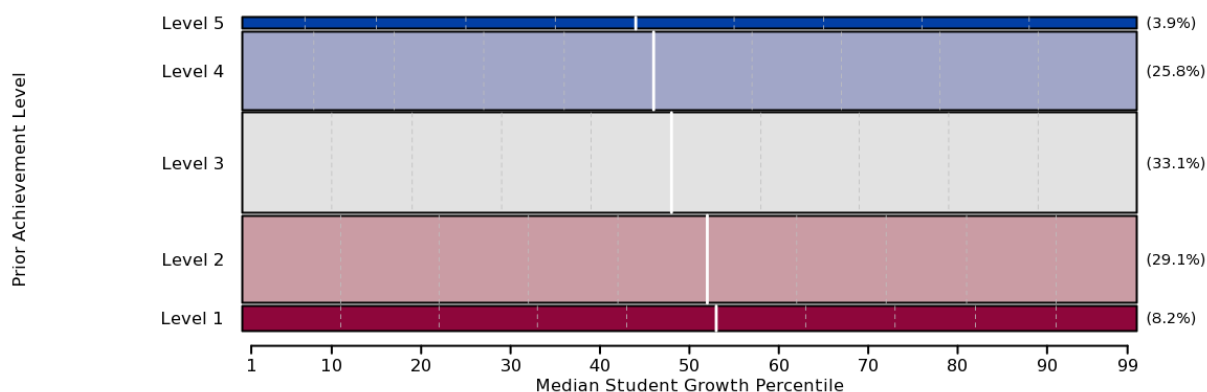


Figure 71: Goodness of Fit Plot for Spring 2017 Algebra II (Priors: Spring 2016 Geometry, Spring 2015 Algebra I - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 Algebra II SGP SIMEX Ranked, Grade EOCT (N = 79,483)

SGP Deciles by Prior Achievement Level (Geometry)



Ceiling / Floor Effects Test

Current Observed Score Extremes (Range)		Student Growth Percentile 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,-4.221]		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
	[-4.221,-4.216]	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 = 29
		0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	12.0	12.0	24.0	48.0	N = 25
	[3.97,4.18]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	3.4	10.3	82.8	N = 29
Highest OSS: [4.18,5.54]		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 27
	[4.221,4.216]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 29
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 25
	[4.18,5.54]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 29

Prior Scale Score Decile/Range		Student Growth Percentile 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,-1.27]		7.97	8.57	9.33	10.44	9.33	10.88	10.29	9.90	11.25	12.04	(9.1%)
2nd/[-1.27,-0.837]		8.62	9.17	9.84	9.79	9.87	9.89	10.20	10.95	10.04	11.63	(10.8%)
3rd/[-0.837,-0.534]		8.29	9.78	9.91	10.04	9.59	10.13	10.01	10.71	10.81	10.73	(9.2%)
4th/[-0.534,-0.274]		8.35	9.60	9.75	9.62	10.15	10.01	9.86	10.70	10.46	11.49	(10.7%)
5th/[-0.274,-0.002]		9.67	10.42	9.83	10.17	10.46	9.93	9.47	10.42	9.75	9.89	(9.5%)
6th/[-0.002,0.295]		9.53	9.89	10.62	10.51	10.28	10.46	9.69	9.67	9.58	9.78	(10.4%)
7th/[0.295,0.604]		10.97	11.65	9.99	9.69	10.16	10.14	9.46	9.29	9.15	9.50	(10.1%)
8th/[0.604,0.968]		11.11	11.12	10.40	9.65	10.19	9.76	9.67	9.04	9.36	9.68	(10.1%)
9th/[0.968,1.43]		11.87	10.87	10.97	9.99	9.78	9.20	9.63	8.90	9.20	9.61	(10.1%)
10th/[1.43,4.75]		12.20	11.16	10.80	10.23	9.67	9.34	9.79	9.51	8.91	8.38	(10%)

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

QQ-Plot: Student Growth Percentiles

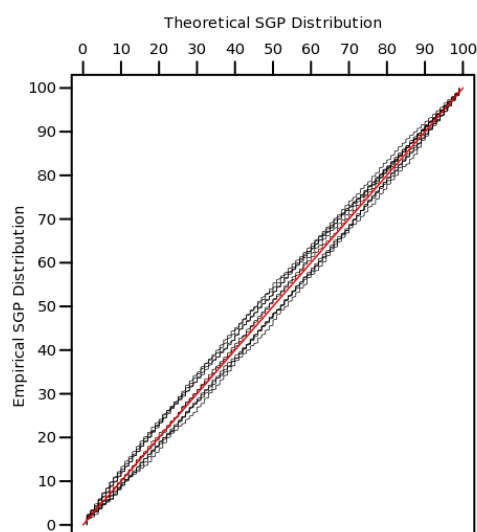


Figure 72: Goodness of Fit Plot for Spring 2017 Algebra II (Priors: Spring 2016 Geometry, Spring 2015 Algebra I - SIMEX Corrected).

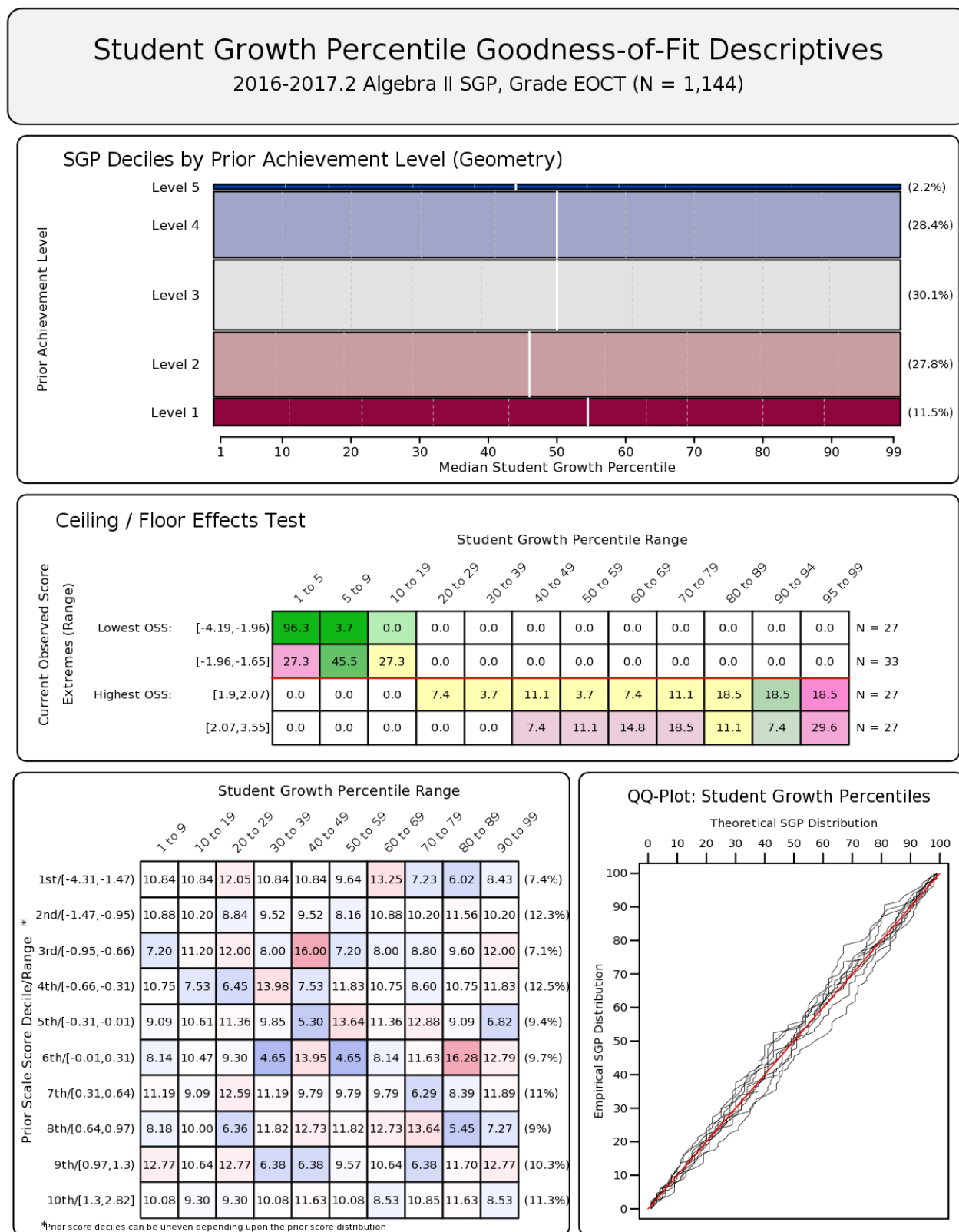
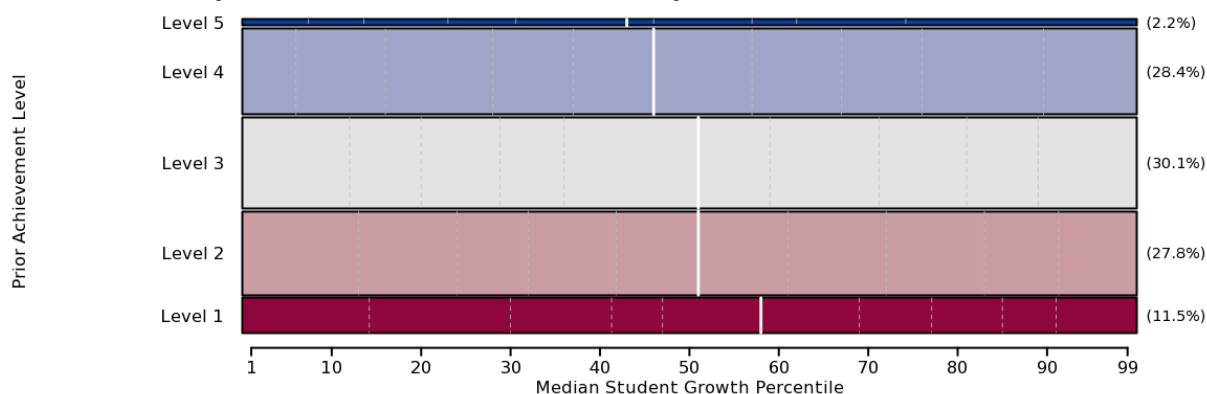


Figure 73: Goodness of Fit Plot for Spring 2017 Algebra II (Priors: Fall 2016 Geometry - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2016-2017.2 Algebra II SGP SIMEX Ranked, Grade EOCT (N = 1,144)

SGP Deciles by Prior Achievement Level (Geometry)



Ceiling / Floor Effects Test

		Student Growth Percentile 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	
Current Observed Score Extremes (Range)	Lowest OSS: [-4.19,-1.96]	70.4	25.9	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 27
	[-1.96,-1.65]	12.1	21.2	66.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 33
	Highest OSS: [1.9,2.07]	0.0	0.0	3.7	7.4	3.7	11.1	7.4	11.1	7.4	11.1	18.5	18.5	N = 27
	[2.07,3.55]	0.0	0.0	0.0	0.0	0.0	11.1	11.1	22.2	18.5	3.7	7.4	25.9	N = 27

		Student Growth Percentile 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	
Prior Scale Score Decile/Range *	1st/[-4.31,-1.47]	7.23	12.05	4.82	10.84	18.07	10.84	8.43	6.02	12.05	9.64	(7.4%)
	2nd/[-1.47,-0.95]	6.80	12.24	9.52	5.44	8.84	10.20	10.88	10.88	12.24	12.93	(12.3%)
	3rd/[-0.95,-0.66]	4.00	9.60	11.20	8.80	13.60	10.40	10.40	6.40	10.40	15.20	(7.1%)
	4th/[-0.66,-0.31]	6.45	8.60	8.60	10.75	7.53	11.83	13.98	9.68	10.75	11.83	(12.5%)
	5th/[-0.31,-0.01]	6.82	10.61	11.36	9.09	6.06	15.91	10.61	11.36	12.12	6.06	(9.4%)
	6th/[-0.01,0.31]	5.81	12.79	8.14	6.98	11.63	5.81	13.95	17.44	11.63		(9.7%)
	7th/[0.31,0.64]	9.09	9.09	16.78	13.99	5.59	11.89	6.29	9.79	6.99	10.49	(11%)
	8th/[0.64,0.97]	10.00	11.82	5.45	14.55	12.73	8.18	14.55	11.82	4.55	6.36	(9%)
	9th/[0.97,1.3]	19.15	9.57	10.64	5.32	10.64	6.38	8.51	5.32	8.51	15.96	(10.3%)
	10th/[1.3,2.82]	19.38	4.65	7.75	14.73	10.08	7.75	10.08	11.63	5.43	8.53	(11.3%)

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

QQ-Plot: Student Growth Percentiles

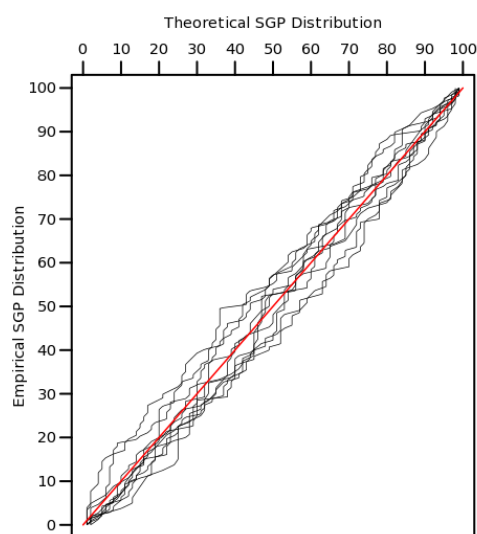


Figure 74: Goodness of Fit Plot for Spring 2017 Algebra II (Priors: Fall 2016 Geometry - SIMEX Corrected).