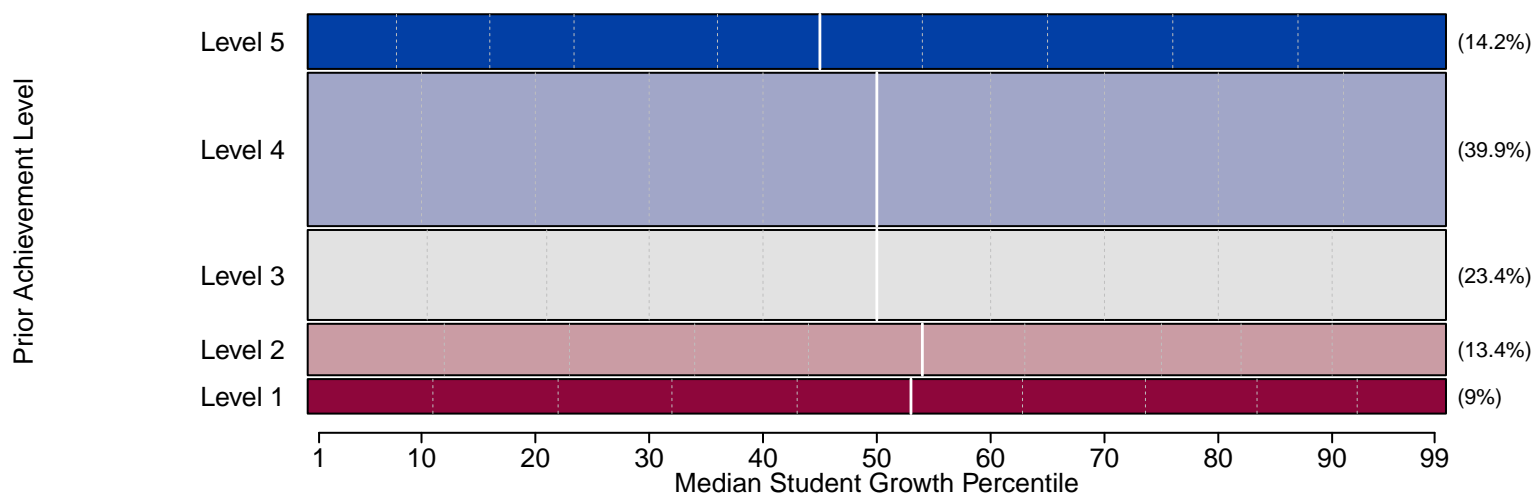# Student Growth Percentile Goodness–of–Fit Descriptives

2018–2019.1 ELA SGP SIMEX Ranked, Grade 9 (N = 3,994)

SGP Deciles by Prior Achievement Level (ELA)

Prior Achievement Level	Percentage
Level 5	(14.2%)
Level 4	(39.9%)
Level 3	(23.4%)
Level 2	(13.4%)
Level 1	(9%)

Median Student Growth Percentile (axis: 1, 10, 20, 30, 40, 50, 60, 70, 80, 90, 99)

Ceiling / Floor Effects Test

Student Growth Percentile Range — Current Observed Score Extremes (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	N
Lowest OSS: [−3.253,−2.313)	80.0	4.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 25
[−2.313,−2.119]	45.5	12.1	27.3	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 33
Highest OSS: [2.398,2.644]	0.0	0.0	0.0	0.0	8.0	0.0	20.0	12.0	16.0	28.0	0.0	16.0	N = 25
[2.644,5.434]	0.0	0.0	0.0	0.0	0.0	6.5	12.9	0.0	3.2	35.5	16.1	25.8	N = 31

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/[−4.1,−1.2)	7.81	9.07	10.33	9.57	10.08	11.34	6.55	12.34	9.57	13.35	(9.9%)
2nd/[−1.2,−0.65)	8.01	9.30	8.01	8.53	9.82	11.11	11.11	9.56	12.14	12.40	(9.7%)
3rd/[−0.65,−0.26)	8.17	8.66	10.89	9.65	11.63	9.65	9.90	8.91	10.40	12.13	(10.1%)
4th/[−0.26,0.03)	9.64	9.64	11.42	10.41	6.85	10.66	10.91	10.41	9.39	10.66	(9.9%)
5th/[0.03,0.3)	9.16	10.73	11.26	11.52	9.16	8.90	9.42	10.99	10.47	8.38	(9.6%)
6th/[0.3,0.56)	8.45	8.70	10.63	9.18	10.14	9.66	11.11	10.14	11.35	10.63	(10.4%)
7th/[0.56,0.85)	10.58	8.31	8.82	13.10	10.58	11.34	9.82	10.33	7.30	9.82	(9.9%)
8th/[0.85,1.2)	9.75	12.00	8.00	7.75	10.00	6.75	14.75	9.25	9.75	12.00	(10%)
9th/[1.2,1.7)	10.40	13.37	9.16	12.62	10.89	7.43	6.93	8.42	8.91	11.88	(10.1%)
10th/[1.7,6.2]	12.53	10.84	10.12	9.64	10.12	13.98	7.47	9.40	10.36	5.54	(10.4%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution (axis: 0 to 100)
Empirical SGP Distribution (axis: 0 to 100)