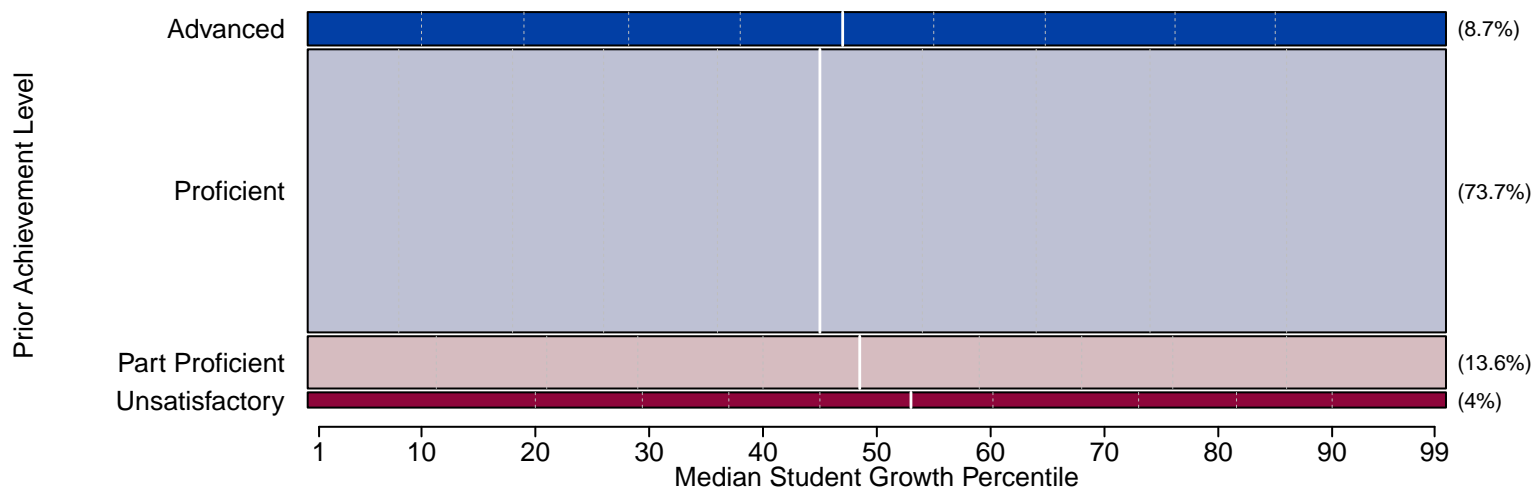# Student Growth Percentile Goodness–of–Fit Descriptives

2015–2016 Reading SGP, Grade 4 (N = 3,850)

SGP Deciles by Prior Achievement Level (Reading)

Prior Achievement Level (y-axis):
- Advanced (8.7%)
- Proficient (73.7%)
- Part Proficient (13.6%)
- Unsatisfactory (4%)

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

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:	[180,454)	44.0	8.0	20.0	16.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 25
	[454,478]	36.0	8.0	8.0	12.0	12.0	12.0	8.0	4.0	0.0	0.0	0.0	0.0	N = 25
Highest OSS:	[694,707]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	42.3	26.9	23.1	N = 26
	[707,772]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.2	22.2	55.6	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/[150,504)	6.49	9.35	9.87	10.91	11.95	11.95	10.39	10.65	10.91	7.53	(10%)
2nd/[504,530)	8.17	10.63	12.26	9.54	11.72	9.81	10.35	10.63	7.90	8.99	(9.5%)
3rd/[530,546)	8.23	11.83	10.80	9.00	11.05	11.05	10.54	9.25	12.60	5.66	(10.1%)
4th/[546,561)	10.62	10.62	11.14	9.59	11.66	9.84	9.33	10.62	7.77	8.81	(10%)
5th/[561,575)	10.24	10.78	9.97	12.40	9.16	8.09	14.56	11.59	4.31	8.89	(9.6%)
6th/[575,589)	10.41	11.93	8.63	11.17	9.39	12.18	11.68	9.64	8.63	6.35	(10.2%)
7th/[589,605)	12.05	11.03	12.56	8.97	14.10	10.00	10.00	8.21	6.92	6.15	(10.1%)
8th/[605,623)	14.96	13.39	9.71	9.19	10.76	10.24	7.87	8.92	8.92	6.04	(9.9%)
9th/[623,651)	10.72	10.47	13.72	10.72	13.97	8.23	11.22	8.73	8.23	3.99	(10.4%)
10th/[651,795)	9.07	12.95	10.10	11.14	11.66	13.21	8.55	8.29	9.59	5.44	(10%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution (x-axis): 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100
Empirical SGP Distribution (y-axis): 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100