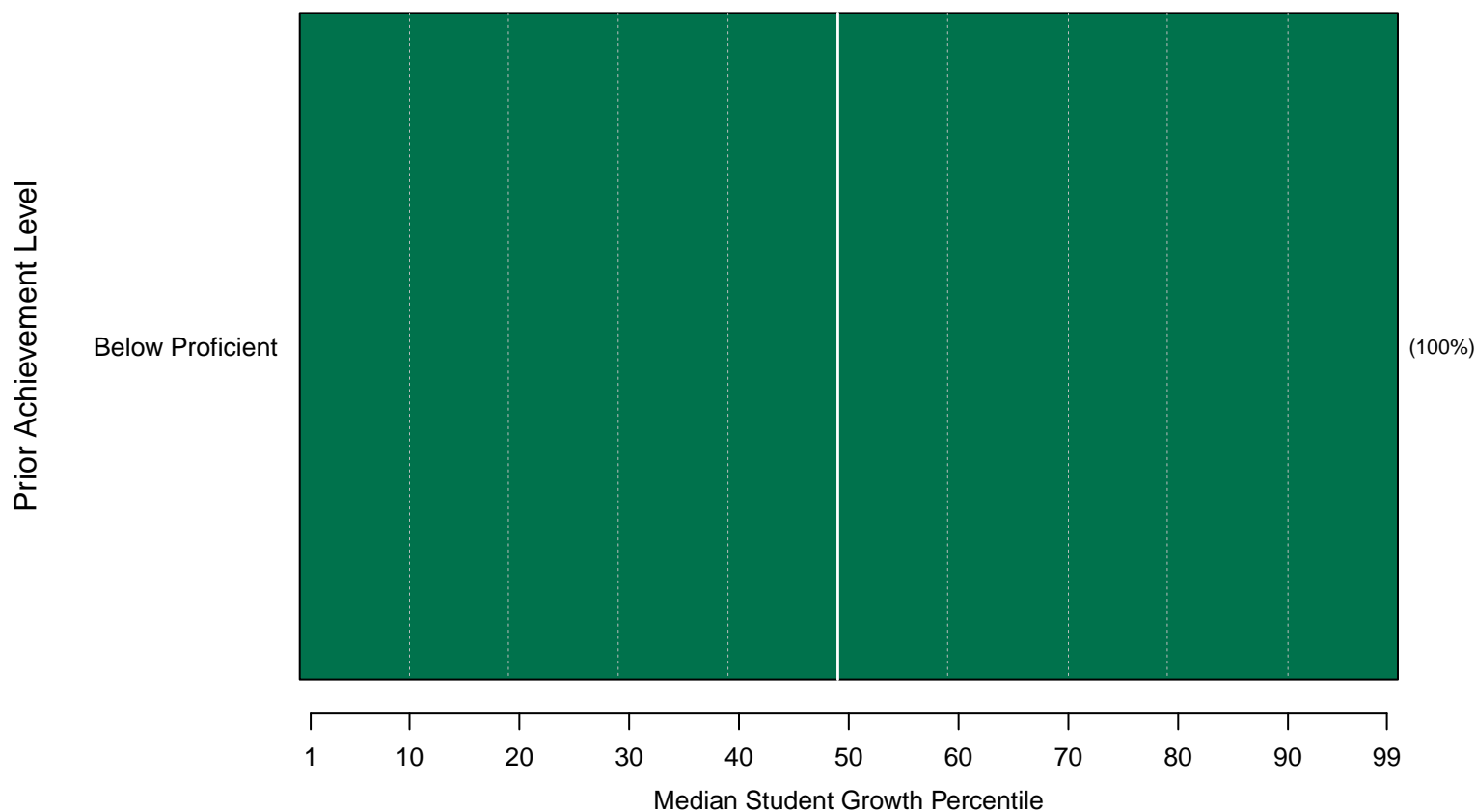# Student Growth Percentile Goodness–of–Fit Descriptives
2012–2013 Reading SGP, Grade 4 (N = 13,092)

SGP Deciles by Prior Achievement Level

Prior Achievement Level

Below Proficient — (100%)

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

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/[300,335)	10.21	8.08	10.61	11.32	9.90	9.50	11.01	8.31	10.77	10.29	(9.6%)
2nd/[335,340)	8.75	13.98	7.98	9.86	8.83	9.43	11.06	12.61	7.80	9.69	(8.9%)
3rd/[340,343)	9.36	9.27	14.67	5.14	10.96	12.82	5.99	9.44	11.97	10.37	(9.1%)
4th/[343,346)	9.48	9.69	9.90	13.92	8.04	11.24	8.45	11.96	6.80	10.52	(7.4%)
5th/[346,349)	11.69	8.47	10.35	9.88	10.82	4.78	16.39	7.61	10.98	9.02	(9.7%)
6th/[349,352)	8.18	11.11	12.31	4.19	12.44	13.44	3.73	13.31	10.18	11.11	(11.5%)
7th/[352,356)	11.19	10.02	6.59	16.26	9.44	9.21	8.86	8.68	9.73	10.02	(13.1%)
8th/[356,358)	12.32	9.51	15.61	0.00	17.72	10.45	9.39	8.57	7.28	9.15	(6.5%)
9th/[358,363)	8.71	11.60	7.17	13.61	4.22	13.20	11.53	10.25	7.98	11.73	(11.4%)
10th/[363,380]	10.01	10.07	10.37	12.40	10.72	9.17	5.39	12.16	11.50	8.21	(12.7%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution

Empirical SGP Distribution