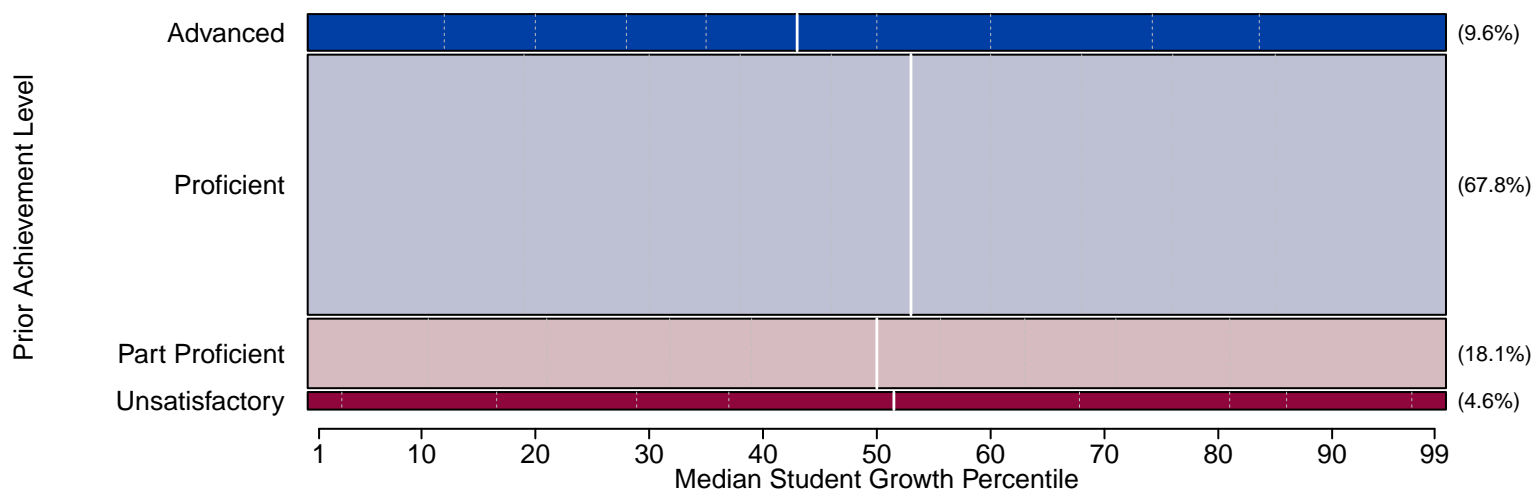# Student Growth Percentile Goodness–of–Fit Descriptives
## 2016–2017 Reading SGP OIs, Grade 10 (N = 4,237)

## SGP Deciles by Prior Achievement Level (Reading)



Prior Achievement Level:
- Advanced (9.6%)
- Proficient (67.8%)
- Part Proficient (18.1%)
- Unsatisfactory (4.6%)

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

## Ceiling / Floor Effects Test

Student Growth Percentile Range

| Current Observed Score Extremes (Range) | | 1 to 5 | 5 to 9 | 10 to 19 | 20 to 29 | 30 to 39 | 40 to 49 | 50 to 59 | 60 to 69 | 70 to 79 | 80 to 89 | 90 to 94 | 95 to 99 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lowest OSS: | [370,528] | 92.0 | 4.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N = 25 |
| | [528,558] | 60.0 | 4.0 | 16.0 | 4.0 | 0.0 | 4.0 | 4.0 | 0.0 | 0.0 | 8.0 | 0.0 | 0.0 | N = 25 |
| Highest OSS: | [797,810] | 0.0 | 0.0 | 0.0 | 3.8 | 3.8 | 0.0 | 11.5 | 0.0 | 15.4 | 38.5 | 11.5 | 15.4 | N = 26 |
| | [810,878] | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.7 | 0.0 | 3.7 | 7.4 | 11.1 | 14.8 | 59.3 | 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/[350,609] | 12.20 | 9.76 | 9.27 | 12.68 | 6.10 | 10.73 | 8.78 | 8.05 | 11.46 | 10.98 | (9.7%) |
| 2nd/[609,637] | 8.98 | 10.64 | 9.93 | 10.64 | 9.22 | 18.20 | 11.35 | 10.87 | 6.38 | 3.78 | (10%) |
| 3rd/[637,653] | 6.60 | 6.85 | 7.82 | 12.96 | 12.47 | 13.69 | 15.65 | 10.27 | 10.02 | 3.67 | (9.7%) |
| 4th/[653,667] | 2.56 | 7.67 | 8.60 | 12.33 | 11.86 | 13.72 | 12.56 | 16.05 | 10.23 | 4.42 | (10.1%) |
| 5th/[667,679] | 5.06 | 7.71 | 9.64 | 9.16 | 11.57 | 14.46 | 13.98 | 13.98 | 9.16 | 5.30 | (9.8%) |
| 6th/[679,690] | 3.51 | 4.22 | 8.67 | 13.35 | 15.46 | 15.69 | 12.88 | 12.18 | 10.07 | 3.98 | (10.1%) |
| 7th/[690,701] | 5.28 | 6.47 | 9.59 | 9.59 | 11.51 | 12.71 | 15.83 | 11.03 | 11.75 | 6.24 | (9.8%) |
| 8th/[701,716] | 3.42 | 5.48 | 7.31 | 15.07 | 14.84 | 13.70 | 10.50 | 11.87 | 10.05 | 7.76 | (10.3%) |
| 9th/[716,738] | 4.54 | 5.44 | 11.11 | 14.29 | 12.93 | 13.83 | 10.20 | 10.88 | 9.52 | 7.26 | (10.4%) |
| 10th/[738,836] | 7.96 | 10.30 | 13.82 | 13.58 | 12.88 | 10.54 | 7.73 | 8.20 | 7.73 | 7.26 | (10.1%) |

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

## QQ-Plot: Student Growth Percentiles



Theoretical SGP Distribution (0–100) vs Empirical SGP Distribution (0–100)