

## Steps Followed in the Development of ORF Norms 2017

We first accessed primary documents from Dibels 6<sup>th</sup> Edition, Dibels Next, and easyCBM to extract individual ORF scores associated with each percentile rank (PR) at each grade and for each season (fall, winter, spring). See below for documents used to create individual data files.

We then developed a master file that included the following variables: grade, season, percentile rank, measure type (easyCBM, DibelsSixth, and DibelsNext), and score.

Finally, we calculated the norms as the average of all scores within a grade, season, and measure for that specific PR. The Technical Report does not include all ORF scores for individual PRs but only the 10<sup>th</sup>, 25<sup>th</sup>, 50<sup>th</sup>, 75<sup>th</sup>, and 90<sup>th</sup>.

In some instances, a range of scores was present within and across measures for a single PR. In the Technical Report, the 10<sup>th</sup> PR reported for the Winter in Grade 2 was 35 wcpm. This calculation represented the average of the scores below (which computed to 35.14 and was rounded to 35).

- Grade 4 Spring – Dibels Sixth ranged from 35-36 (2 scores)
- Grade 4 Spring – Dibels Next ranged from 33-34 (2 scores)
- Grade 4 Spring – easyCBM ranged from 35-37 (3 scores)

In other instances, only one score value was present for a grade, season, and measure. In the Technical Report, the 50<sup>th</sup> PR reported for the Spring in Grade 5 was reported as 146 wcpm. This calculation represented the average of the three single scores below (which computed to 145.67 and was rounded to 146).

- Grade 5 Spring – Dibels Sixth was 136
- Grade 5 Spring – Dibels Next was 133
- Grade 5 Spring – easyCBM was 168

Finally, in some instances, both a range of scores and a single score was present among the three measures. In the Technical Report, the 90<sup>th</sup> PR reported for the Fall in Grade 6 was reported as 185 wcpm. This calculation represented the average of the three single scores below (which computed to 185.25 and was rounded to 185).

- Grade 6 Fall – Dibels Sixth was 173-174 (2 scores)
- Grade 6 Fall – Dibels Next was 170 (1 score)
- Grade 6 Fall – easyCBM was 191-195 (5 scores)

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Cummings, K. D., Otterstedt, J., Kennedy, P. C., Baker, S. K., & Kame'enui, E. J. (2011). *DIBELS Data System: 2009-2010 percentile ranks for DIBELS 6th Edition benchmark assessments (Technical Report 1102)*. Eugene, OR: University of Oregon Center on Teaching and Learning.

Cummings, K. D., Kennedy, P. C., Otterstedt, J., Baker, S. K., & Kame'enui, E. J. (2011). *DIBELS Data System: 2010-2011 Percentile Ranks for DIBELS Next Benchmark Assessments (Technical Report 1101)*. Eugene, OR: University of Oregon.

Saven, J. L., Tindal, G., Irvin, S. P., Farley, D., & Alonzo, J. easyCBM norms: 2014 edition. Technical report # 1409.

University of Oregon Behavioral Research and Teaching. Eugene, OR.

easyCBM norms were generated using demographics from U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), "Public Elementary/Secondary School Universe Survey", 2010-11, Version 2a; and "Local Education Agency Universe Survey", 2010-11, Version 2a; and "State Nonfiscal Survey of Public Elementary/Secondary Education", 2010-11, Version 1a