Technical Report 2605

Reliability of Composite Scores for easyCBM® Reading

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Published by

Behavioral Research and Teaching

University of Oregon • 175 Education

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http://brt.uoregon.edu

Note: This technical report was supported in part by Riverside Insight, the exclusive distributor of easyCBM®. The report does not reflect any endorsement by any of these organizations.

APA Reference: Tindal, G. (2026). *Reliability of Composite Scores for easyCBM® Reading (Technical Report 2605)*. Eugene, OR: Behavioral Research and Teaching, University of Oregon.

Abstract

This technical report documents the reliability of the easyCBM® Reading Composite, an equally weighted average of three z-scored sub-scores per grade and benchmark season. Using median sub-score reliabilities from published Behavioral Research and Teaching technical reports, Mosier composite reliability ranged from .842 to .972 across Grades K–8. Two additional estimates were generated to meet National Center on Intensive Intervention Full-Bubble criteria: McDonald's omega from one-factor confirmatory factor analyses (median $\omega = .837$, all 95% CI lower bounds $\geq .76$) and test-retest stability across adjacent benchmark windows (median $r = .85$). Together these triangulating estimates document strong composite reliability evidence.

Two BRT Technical Reports Using Composite Scores

Two BRT Technical Reports use composite scores in reading, making it important to document its reliability.

Tindal & Nese (2024), Classification Accuracy TR #2401: The composite is built by converting each easyCBM® measure to a grade-level z-score within seasons (student score minus grade mean, divided by grade SD), then averaging the three reading z-scores per student (or applying the same transformation to the single math measure so it's comparable across grades). Composite correlations with Smarter Balanced ranged from .57 to .66, and composite-based classification at the 20th percentile rank produced AUCs generally between .83 and .94 with strong sensitivity, specificity, and positive predictive power – meeting NCII criteria for convincing screening evidence.

Nese & Wallin (2025), easyCBM® 2025 Norms TR #2508 presents a Reading Composite that requires scores on all three measures for a given grade and season; composition varies by grade (e.g., K Fall = Letter Names + Letter Sounds + Phoneme Segmenting; Grades 2–8 = Proficient Reading + Passage Reading Fluency + Vocabulary). Three steps: (1) z-score each measure, (2) average the three z-scores, (3) map that z to a percentile using the normal-distribution quantile function (stats::qnorm() in R). The result is a single normative percentile used for risk identification, growth-goal setting, and progress monitoring.

Criterion Validity and Classification Accuracy of easyCBM®, Grades 3–8 (Tindal & Nese, 2024)

This technical report uses composite scores to summarize a student's overall performance across multiple easyCBM measures within a subject area. Because different reading measures (Passage Reading Fluency, Vocabulary, and Proficient Reading) use different scales and different combinations of measures are administered within and across grades, raw scores cannot be directly compared or averaged. The composite provides a single, unified performance indicator per student that supports correlations and regression analyses against the Smarter Balanced (SB) state test.

How It is Calculated. The authors used z-score transformations to place each measure on a common metric before combining them:

- **Step 1:** For each grade and each measure within seasons, the grade-level mean was subtracted from the student's raw score, and the difference was divided by the grade-level standard deviation. Students below the mean receive negative z-scores (as low as −3.0); students above receive positive z-scores (up to +3.0).
- **Step 2:** The z-scores from the three reading measures were averaged within each student to produce a single Reading Composite.

What the Composite Score Means. A composite score of 0 represents average performance for a student's grade. Positive values indicate above-average standing, and negative values indicate below-average standing, expressed in standard-deviation units. Because the composite collapses across different measures and scales, it is interpretable across grades and testing seasons in a way raw scores are not.

How It Is Used. In this report, the composite serves two main purposes. First, it supports criterion validity analyses: Reading Composites were correlated with and regressed on SB test scores across Fall, Winter, and Spring administrations. Composite correlations with SB ranged from .57 to .66, supporting both predictive validity (from fall scores) and concurrent validity (from spring scores). Second, the composite is used in classification accuracy analyses, where composite cut points at the 20th percentile rank were evaluated against SB risk status. The Reading Composites produced strong area-under-the-curve (AUC) values, generally between .83 and .94, with high sensitivity, specificity, and positive predictive power across grades. Across nearly all cells, the composite met the National Center on Intensive Intervention (NCII) criteria for convincing screening evidence and typically performed as well as or better than any individual measure it was built from, making it a practical single-score index for identifying students at risk and predicting state-test performance.

easyCBM® 2025 Norms (Nese & Wallin, 2025)

The 2025 Norms report introduces a Reading Composite for Grades K–8 as a normative index that combines three reading measures per grade and season into a single percentile. The goal is to give educators one interpretable score that reflects overall reading performance, supporting screening decisions, growth-goal setting, and progress monitoring. Note that this report presents only a Reading Composite; no Mathematics Composite is included.

How It is Calculated. The composite is built only when a student has scores on all three component reading measures for a given grade and season. The measures combined change by grade: for example, Grade K Fall combines Letter Names, Letter Sounds, and Phoneme Segmenting, Grade 1 combines different measures within seasons, and Grades 2–8 combine Proficient Reading, Passage Reading Fluency, and Vocabulary.

- **Step 1:** Compute an individual z-score for each of the three measures using the grade- and season-specific mean and standard deviation: (student score − measure mean) ÷ measure SD.
- **Step 2:** Average the three z-scores to produce a single composite z-score.
- **Step 3:** Map that z-score to a percentile using the normal-distribution quantile function (stats::qnorm() in R). A z-score of 0 corresponds to roughly the 50th percentile, +1.0 to the 84th, and so on.

What the Composite Score Means. The resulting Reading Composite percentile tells educators the proportion of the normative sample that scored at or below a given student's combined reading performance. Because all three components are rescaled before averaging, each measure contributes equally regardless of differences in raw-score metrics (e.g., words read per minute versus multiple-choice items correct). This makes the composite a more stable indicator of overall reading skill than any single measure on its own.

How It Is Used. The norms report provides a unified Reading Composite percentile table that applies to all grades and seasons, along with grade- and season-specific means and SDs for the three contributing measures. Educators use these tables to convert a student's three raw scores into a single composite percentile, which can then be used to (a) identify students at risk (for example, those below the 20th percentile), (b) set growth goals based on normative standing, and (c) track changes in overall reading performance across Fall, Winter, and Spring benchmark windows. Because the composite rests on the 2024–2025 stratified national sample (with geographic representation across four U.S. regions), it gives educators a current, defensible reference point for interpretation in local screening and progress-monitoring decisions.

Composite Score Reliability Formed by Averaging Three z-Scores

What the Research Says

When a composite is formed by standardizing each sub-score to a z-score and averaging the three z-scores, its reliability is not simply the average of the three sub-score reliabilities. Classical test theory treats the composite as a weighted linear combination of components, and research from Mosier (1943) forward has shown that composite reliability depends jointly on (a) the reliability of each component, (b) the variance of each component, and (c) the intercorrelations among the components. Because z-scoring sets the three variances equal to 1.0 and averaging applies an equal weight of 1/3 to each component, Mosier's weighted-composite formula reduces to a form that depends only on the three component reliabilities and their pairwise correlations. A useful property is that averaging and summing produce identical reliability coefficients, identical correlations with outside criteria, and identical rank-ordering of students; the two forms differ only in the mean and SD of the resulting metric. A key general result, consistent with Spearman-Brown logic, is that – holding component reliabilities constant – composite reliability rises as the components become more intercorrelated and as more components are added, so a well-constructed three-score composite is typically more reliable than any of its parts.

Assumptions

Estimating composite reliability under the classical framework requires the following assumptions:

- Classical test theory holds — each observed sub-score decomposes into a true score plus random error, with errors having a mean of zero and being uncorrelated with true scores.
- Errors of measurement are uncorrelated across the three sub-scores (no shared method variance, no item overlap, no dependence introduced by joint administration).
- Each sub-score is itself internally consistent, so a defensible within-measure reliability estimate (e.g., coefficient alpha, omega, test-retest, or alternate-form) exists for each component.
- The normative sample used to compute the means and SDs for z-scoring is appropriate for the population of interest, because z-scores and the composite metric are sample-dependent.
- Items within each sub-score are treated as essentially tau-equivalent (a requirement of coefficient alpha); across sub-scores, multidimensionality is permitted, which is why stratified alpha, not ordinary alpha, is the appropriate composite estimator.

Recommended Steps

1. **Estimate each sub-score's reliability separately** using an appropriate coefficient for that measure (alpha or omega for internal consistency, test-retest for stability, or alternate-form when parallel forms exist).
2. **Compute component variances and intercorrelations** in the normative sample. After z-scoring, each component variance is 1.0, so the needed inputs reduce to the three reliability coefficients and the three pairwise correlations among the sub-scores.
3. **Apply stratified coefficient alpha** (Cronbach, Schoneman, & McKie, 1965) as the preferred estimator when the three sub-scores measure related but non-identical facets of the construct. Stratified alpha incorporates each sub-test's reliability and variance and generally yields a less-biased estimate than ordinary alpha on multidimensional composites.
4. **Cross-check with an alternative estimator** such as McDonald's omega (from a confirmatory factor model) or Mosier's weighted-composite formula. Agreement across methods strengthens reliability claims.
5. **Report standard errors of measurement** and confidence intervals for the composite, and where possible replicate the estimate across grades, seasons, and demographic subgroups to document its stability.

Following these steps produces a defensible composite-reliability estimate that reflects both the quality of the individual measures and the degree to which they cohere as a single score.

Technical Summary of Composite Reliability Analysis

This analysis estimates the reliability of grade-specific reading composite scores formed by averaging z-scored benchmark measures within each season (fall, winter, spring) for Grades K through 8. Composite reliability is computed using the Mosier (1943) formula for the reliability of a weighted composite under equal weighting, which is appropriate when component measures are standardized prior to averaging.

Reliability Input Source Files

The student-level benchmark dataset contained individual scores on each measure by season. This file was cleaned: with the following changes made for 94 cells set to Null (4 negatives + 90 PRF >300).
PRF > 300 found and replaced with Null:
• fall_prf: 33 records (range 301 to 321) and replaced with 0 to 299 (95,232 valid)
• winter_prf: 26 records (range 301 to 336) and replaced with 0 to 300 (89,943 valid)
• spring_prf: 31 records (range 301 to 341) and replaced with 0 to 300 (92,709 valid)

2603-RK8R-ReliabilityReadingTables.xlsx: This file provided reliability coefficients from technical documentation: Following convention, alternate-form (AF) median reliabilities were used for fluency-based measures (LN, LS, PS, WRF, PRF), and internal-consistency (IC) median reliabilities were used for Vocabulary and Proficient Reading.

Reliability Summary and Composite Reliability (Preview of Tables)

1. Reliability All Sources includes every reliability coefficient compiled from a source workbook, organized by Measure x Grade x Season x Reliability Family.
2. Reliability Median contains the median coefficient for each Measure x Grade x Season, taken across the family-level coefficients listed in Reliability All Sources, with the family closest to the median, source technical report, and notes.
3. Composite Reliability presents reliability of each z-score-average composite, computed via Mosier's formula.

Reliability Families Considered:
- Internal consistency (Cronbach's alpha, Spearman-Brown, Guttman split-half)
- Alternate form (parallel-form correlations)
- Test-retest (same form across sessions)
- Generalizability (G-coefficient, Phi)
- HLM slope reliability

Selection Rule: Within each Measure × Grade × Season cell, the median is taken across the family-level coefficients compiled in Reliability All Sources. Where a source technical report documents a within-family median (e.g., TR0906's documented median alternate-form r within a same-day range, or TR1219's median G-coefficient across observed analyses), that documented median is used in place of the upper-bound or maximum value. Where only one coefficient is reported for a cell, that value serves as the trivial median. The 'Reliability Median' results report the median across families along with the family whose value lies closest to that median.

Important Mapping Note:
'Proficient Reading' in the composite refers to the MCRC measure (multiple-choice reading comprehension) – NOT the CCSS Reading measure in TR1407. Reliability coefficients for the Proficient-Reading component are, therefore, taken from the MCRC tables (TR1201-TR1206, TR1807). Composite reliability formula (Mosier, 1943) for an equally weighted average of standardized components (z):

$$rho\_C = (sum\_i\ r\_ii + 2 * sum\_\{i<j\}\ r\_ij) / (k + 2 * sum\_\{i<j\}\ r\_ij)$$

where:
r_ii = reliability of component i (from Reliability_Median)
r_ij = observed correlation between components i and j
(from the intercorrelation workbook produced earlier)
k = number of components (3 for every composite here)

Season Fallback:
Spring reliability was not separately reported for several measures (e.g., Vocabulary, Proficient Reading in TR1407/TR2602, Grade 2 PRF). When missing, the median reliability documented for that measure × grade across reported seasons is used as a carry-forward. Rows where this was done are flagged in the Composite Reliability sheet (columns 'r1_fallback', 'r2_fallback', 'r3_fallback', 'Any_reliability_fallback_used').

Sources (all from the uploaded 2603-RK8R_ReliabilityReadingTables.xlsx):
TR0906 – LN, LS, PhSeg, WRF, PRF, MCRC alt-form & test-retest (Alonzo & Tindal, 2009)
TR1003 – K-1 slope reliability by quartile (Lai et al., 2010)
TR1004 – Grade 2 MCRC alpha/split-half; slope reliability was considered but not selected as the source for any cell in Tables 2 or 3; superseded by TR1201, which provided higher Spearman-Brown coefficients across forms (Jamgochian et al., 2010)
TR1111 – Spearman-Brown corrected slope reliability
TR1201 – TR1206 – Grade 2-7 MCRC split-half reliability by form
TR1216 – TR1220 – Grade 1-5 descriptives & form-level analyses (TR1216, TR1217, TR1218, TR1220 consulted but not selected as the source for any cell in Tables 2 or 3; values for those grades drawn from TR0906, TR1111, and TR1403; TR1219 is used and listed separately below.)
TR1219 – Grade 4 PRF G-study (generalizability)
TR1403 – K-1 alt-form reliability across time points
TR1406 – Cronbach's alpha & split-half (Vocabulary, Grades 2-8)
TR1407 – Cronbach's alpha/split-half (CCSS Reading, Grades 3-8, NOT used for the composite as PR = MCRC)
TR1803 – Pearson split-test correlations
TR1807 – Grade 2-8 MCRC overall reliability
TR2602 – Rasch marginal + Cronbach alpha for Grades 3–8 (Tindal & Nese, 2026)

Variables – Steps and References for Within and Between Measure Reliabilities

Composite definitions varied by grade and season to reflect the developmental progression of reading assessments.

- Grade K composites used Letter Names, Letter Sounds, and Phoneme Segmenting in fall, shifting to Letter Sounds, Phoneme Segmenting, and Word Reading Fluency in winter and spring.
- Grade 1 composites used Letter Sounds, Phoneme Segmenting, and Word Reading Fluency in fall, transitioning to Letter Sounds, Word Reading Fluency, and Passage Reading Fluency in winter and spring.
- Grade 2 composites used Passage Reading Fluency, Vocabulary, and Proficient Reading (MCRC).
- Grades 3–8 composites used Passage Reading Fluency, Vocabulary, and Proficient Reading across all three seasons. The grade variable was recoded so that Kindergarten rows stored as NA were remapped to “K.”

Table 1.

Measures Used in Composite Scores

Grade-Levels	Fall Benchmark	Winter Benchmark	Spring Benchmark
K	Letter Names	Letter Sounds	Letter Sounds
	Letter Sounds	Phoneme Segmenting	Phoneme Segmenting
	Phoneme Segmenting	Word Reading Fluency	Word Reading Fluency
1	Letter Sounds	Letter Sounds	Letter Sounds
	Phoneme Segmenting	Word Reading Fluency	Word Reading Fluency
	Word Reading Fluency	Passage Reading Fluency	Passage Reading Fluency
2	Passage Reading Fluency	Passage Reading Fluency	Passage Reading Fluency
	Vocabulary	Vocabulary	Vocabulary
	Proficient Reading	Proficient Reading	Proficient Reading
3–8	Passage Reading Fluency	Passage Reading Fluency	Passage Reading Fluency
	Vocabulary	Vocabulary	Vocabulary
	Proficient Reading	Proficient Reading	Proficient Reading

All analyses were conducted in R (version 4.x). The reliability of the easyCBM® composite score – computed as the average of z-scored component measures within each grade and season – was estimated using the following procedure. Data import and manipulation were performed with dplyr and tidyr (tidyverse); Excel files were read and written with openxlsx. Correlation matrices were computed with the base R cor() function. Composite reliability was computed directly from Mosier's formula in base R; no additional psychometric package was required.

Step 1: Compilation of per-measure reliability coefficients. Reliability coefficients for each component measure (Letter Names, Letter Sounds, Phoneme Segmenting, Word Reading Fluency, Passage Reading Fluency, Vocabulary, and MCRC) were extracted from the published easyCBM® technical reports (TR0906, TR1003, TR1004, TR1111, TR1201–TR1206, TR1403, TR1406, TR1807, TR1219, and TR2602). For each measure × grade × season, four reliability families were considered: internal consistency (Cronbach's alpha, Spearman-Brown, and Guttman split-half), alternate-form reliability, test-retest reliability, and generalizability coefficients (including HLM-based slope reliability and G-study coefficients). The median of the family-level coefficients was then selected as the per-measure reliability used in subsequent calculations. Where a source technical report documented a within-family median (e.g., TR0906 reports a median alternate-form r within a same-day range, TR1219 reports the median G-coefficient across observed analyses, and TR1201–TR1206 report Spearman-Brown coefficients across forms whose median can be computed), that documented within-family median was substituted for the upper-bound value used in the prior highest-coefficient analysis before the across-family median was taken. When a reliability coefficient was not separately reported for a particular season, the median value documented for that measure × grade across reported seasons was carried forward. Note that 'Proficient Reading' in the composite refers to the MCRC measure; reliability coefficients for this component were therefore drawn from the MCRC tables (TR1201–TR1206, TR1807) rather than the CCSS Reading tables (TR1407).

Step 2: Intercorrelations among components. Using the student-level dataset, Pearson correlations among the component measures were computed within each grade × season cell using pairwise-complete observations (cor(..., use = "pairwise.complete.obs")). Measures with no variance or insufficient non-missing data within a cell were automatically excluded.

Step 3: Composite reliability. Because the composite is an equally weighted average of standardized (z-scored) component measures, the reliability of the composite was estimated using Mosier's (1943) formula for the reliability of a linear composite:

Summary of Analytic Steps

The analysis proceeded in six steps.

- Step 1 verified column availability and coerced all measure columns to numeric.
- Step 2 loaded the grade-specific reliability coefficients into a lookup table.
- Step 3 defined, for each of the 27 grade-by-season cells, the three component measures forming the composite.
- Step 4 computed the pairwise Pearson correlations among the three measures within each cell using pairwise-complete observations.
- Step 5 applied the Mosier formula, $\rho_{CC} = (\Sigma \rho_{ii} + 2\Sigma r_{ij}) / (k + 2\Sigma r_{ij})$, where k is the number of measures, ρ_{ii} are individual reliabilities, and r_{ij} are inter-correlations among measures.
- Step 6 compiled results into a multi-sheet Excel workbook containing a summary table, the reliability inputs used, and one detailed sheet per grade-by-season cell showing the correlation matrix, individual reliabilities, and the Mosier decomposition.

Notes

Pairwise deletion (use = "pairwise.complete.obs") is used because the measures have different missingness patterns within a season: The code auto-drops measures that don't exist for a grade (e.g., fall_ln only exists in K, so it's skipped for grades 1–8; grades 2–8 have no ls/ps/wrf, so those are skipped automatically). We included a pairwise-N matrix alongside each correlation matrix – with this much variation in missingness it's worth reporting.

Mosier's formula for the reliability of a sum of standardized scores (a linear composite of z-scores), which accounts for the intercorrelations among the components, pulled from the correlation matrices computed in the previous step. Composite reliability is the average of standardized z-scores of several measures, using the formula for the reliability of a sum/average of standardized components, pulling the intercorrelations from the correlation matrices built earlier. Mosier's formula is the correct one for an equally weighted sum/average of standardized components – it accounts for the observed intercorrelations in your sample. Because every composite here has k = 3 components, it's equivalent whether the composite as the sum or the mean of the z-scores; the reliability is the same. Rows where a season-specific reliability wasn't reported for a component use the median value documented for that measure × grade across reported seasons (flagged in the Composite Reliability table).

Table 2.

Reliability Coefficients Compiled from All Sources

Measure	Grade	Season	Family	Coefficient	Source TR	Notes
Letter Names	K	Fall	Alternate form	0.890	TR1403	Median of T1–T5 same-day r's: .87,.89,.88,.90,.90 → 0.89
Letter Names	K	Fall	Test-retest	0.830	TR1803	Pearson split-test r = .83** (n=253)
Letter Names	K	Fall	Generalizability	0.859	TR1111	Spearman-Brown corrected slope reliability
Letter Names	K	Winter	Alternate form	0.890	TR1403	Median of T1–T5 same-day r's: .87,.89,.88,.90,.90 → 0.89
Letter Names	K	Spring	Alternate form	0.890	TR1403	Median of T1–T5 same-day r's: .87,.89,.88,.90,.90 → 0.89
Letter Sounds	K	Fall	Alternate form	0.910	TR1403	Median of T1–T5 same-day r's: .89,.92,.92,.88,.91 → 0.91
Letter Sounds	K	Fall	Test-retest	0.840	TR1803	Pearson split-test r = .84** (n=237)
Letter Sounds	K	Fall	Generalizability	0.780	TR1003	Slope reliability (Q1, best quartile); values ranged .53–.78 across quartiles
Letter Sounds	K	Winter	Alternate form	0.910	TR1403	Median of T1–T5 same-day r's
Letter Sounds	K	Spring	Alternate form	0.910	TR1403	Median of T1–T5 same-day r's
Phoneme Segmenting	K	Fall	Alternate form	0.830	TR1403	Median of T1–T5 same-day r's: .81,.90,.83,.83,.86 → 0.83
Phoneme Segmenting	K	Fall	Test-retest	0.790	TR1803	Pearson split-test r = .79** (n=42)
Phoneme Segmenting	K	Fall	Generalizability	0.670	TR1003	Slope reliability (Q1, max across quartiles)
Phoneme Segmenting	K	Winter	Alternate form	0.830	TR1403	Median of T1–T5 same-day r's
Phoneme Segmenting	K	Spring	Alternate form	0.830	TR1403	Median of T1–T5 same-day r's
Word Reading Fluency	K	Winter	Alternate form	0.910	TR1403	Median of T1–T5 same-day r's: .84,.91,.90,.92,.94 → 0.91
Word Reading Fluency	K	Winter	Test-retest	0.810	TR1803	Pearson split-test r = .81 (n=10, small sample)
Word Reading Fluency	K	Winter	Generalizability	0.820	TR1003	Slope reliability (Lower 50th %ile, max across groups)

Word Reading Fluency	K	Spring	Alternate form	0.910	TR1403	Median of T1–T5 same-day r's
Letter Names	1	Fall	Alternate form	0.850	TR0906	Documented median alt-form r
Letter Names	1	Fall	Test-retest	0.820	TR0906	Grade 1 test-retest range .79–.82 (upper bound)
Letter Names	1	Fall	Generalizability	0.753	TR1111	Slope reliability
Letter Sounds	1	Fall	Alternate form	0.760	TR0906	Documented median (range .76–.88)
Letter Sounds	1	Fall	Test-retest	0.680	TR0906	Grade 1 test-retest range .64–.68
Letter Sounds	1	Winter	Alternate form	0.760	TR0906	Documented median
Letter Sounds	1	Spring	Alternate form	0.760	TR0906	Documented median
Phoneme Segmenting	1	Fall	Alternate form	0.885	TR0906	Median of range .86–.91
Phoneme Segmenting	1	Fall	Test-retest	0.470	TR0906	Grade 1 test-retest range .45–.47
Word Reading Fluency	1	Fall	Alternate form	0.955	TR0906	Median of range .95–.96
Word Reading Fluency	1	Fall	Test-retest	0.950	TR0906	Grade 1 test-retest range .94–.95
Word Reading Fluency	1	Fall	Generalizability	0.880	TR1003	Slope reliability (Q1 max across quartiles)
Word Reading Fluency	1	Winter	Alternate form	0.955	TR0906	Median of range .95–.96
Word Reading Fluency	1	Spring	Alternate form	0.955	TR0906	Median of range .95–.96
Passage Reading Fluency	1	Winter	Alternate form	0.960	TR0906	Documented median (range .95–.97)
Passage Reading Fluency	1	Winter	Test-retest	0.965	TR0906	Median of range .96–.97
Passage Reading Fluency	1	Winter	Generalizability	0.930	TR1003	Slope reliability Q1 (max)
Passage Reading Fluency	1	Spring	Alternate form	0.960	TR0906	Documented median
Word Reading Fluency	2	Fall	Generalizability	0.881	TR1111	Slope reliability (Spearman-Brown corrected)
Word Reading Fluency	2	Fall	Alternate form	0.420	TR1803	Pearson split-test r = .42 (n=155)
Passage Reading Fluency	2	Fall	Generalizability	0.869	TR1111	Slope reliability (Spearman-Brown corrected)

Passage Reading Fluency	2	Fall	Alternate form	0.330	TR1803	Pearson split-test r = .33 (n=412)
Passage Reading Fluency	2	Winter	Generalizability	0.869	TR1111	Slope reliability (applies to annual growth model)
Passage Reading Fluency	2	Spring	Generalizability	0.869	TR1111	Slope reliability (applies to annual growth model)
MCRC	2	Fall	Internal consistency	0.728	TR1201	Median Spearman-Brown across forms
MCRC	2	Fall	Internal consistency (overall sample)	0.770	TR1807	Overall Cronbach's α=.75, Split-Half upper=.77 (n=23,461)
MCRC	2	Winter	Internal consistency	0.728	TR1201	Median Spearman-Brown across forms
MCRC	2	Spring	Internal consistency	0.728	TR1201	Median Spearman-Brown across forms
Vocabulary	2	Fall	Internal consistency	0.830	TR1406	Cronbach's α
Vocabulary	2	Winter	Internal consistency	0.840	TR1406	Cronbach's α
Proficient Reading	2	Fall	Internal consistency	0.770	TR1807	Split-half (overall); α=.75
Proficient Reading	2	Winter	Internal consistency	0.770	TR1807	Split-half (overall); α=.75
Passage Reading Fluency	3	Fall	Alternate form	0.945	TR0906	Median of range .94–.95
Passage Reading Fluency	3	Fall	Test-retest	0.935	TR0906	Median of range .93–.94
Passage Reading Fluency	3	Fall	Generalizability	0.805	TR1111	Slope reliability
Passage Reading Fluency	3	Winter	Alternate form	0.945	TR0906	Median of range .94–.95
Passage Reading Fluency	3	Spring	Alternate form	0.945	TR0906	Median of range .94–.95
Passage Reading Fluency	4	Fall	Test-retest	0.950	TR1219	Documented median (~.95)
Passage Reading Fluency	4	Fall	Alternate form	0.940	TR1219	Documented median (~.93–.94)
Passage Reading Fluency	4	Fall	Generalizability	0.959	TR1219	Median G-coefficient observed analyses

Passage Reading Fluency	4	Winter	Alternate form	0.940	TR1219	Documented median
Passage Reading Fluency	4	Winter	Generalizability	0.959	TR1219	Median G-coefficient
Passage Reading Fluency	4	Spring	Alternate form	0.940	TR1219	Documented median
Passage Reading Fluency	4	Spring	Generalizability	0.959	TR1219	Median G-coefficient
Passage Reading Fluency	5	Fall	Alternate form	0.920	TR0906	Documented median alt-form r
Passage Reading Fluency	5	Fall	Test-retest	0.930	TR0906	Median of range .92–.94
Passage Reading Fluency	5	Fall	Generalizability	0.841	TR1111	Slope reliability
Passage Reading Fluency	5	Winter	Alternate form	0.920	TR0906	Documented median
Passage Reading Fluency	5	Spring	Alternate form	0.920	TR0906	Documented median
Passage Reading Fluency	6	Fall	Generalizability	0.775	TR1111	Slope reliability
Passage Reading Fluency	6	Fall	Alternate form	0.400	TR1803	Pearson split-test r = .40 (n=64)
Passage Reading Fluency	7	Fall	Generalizability	0.805	TR1111	Slope reliability
Passage Reading Fluency	8	Fall	Alternate form	0.910	TR0906	Documented median alt-form r
Passage Reading Fluency	8	Fall	Test-retest	0.910	TR0906	Grade 8 test-retest .91
Passage Reading Fluency	8	Fall	Generalizability	0.495	TR1111	Slope reliability
Passage Reading Fluency	8	Winter	Alternate form	0.910	TR0906	Documented median
Passage Reading Fluency	8	Spring	Alternate form	0.910	TR0906	Documented median
Vocabulary	3	Fall	Internal consistency	0.850	TR2602	Cronbach's α median
Vocabulary	3	Winter	Internal consistency	0.860	TR2602	Cronbach's α median

Vocabulary	4	Fall	Internal consistency	0.850	TR2602	Cronbach's α median
Vocabulary	4	Winter	Internal consistency	0.830	TR2602	Cronbach's α median
Vocabulary	5	Fall	Internal consistency	0.810	TR2602	Cronbach's α median
Vocabulary	5	Winter	Internal consistency	0.800	TR2602	Cronbach's α median
Vocabulary	6	Fall	Internal consistency	0.820	TR2602	Cronbach's α median
Vocabulary	6	Winter	Internal consistency	0.830	TR2602	Cronbach's α median
Vocabulary	7	Fall	Internal consistency	0.840	TR2602	Cronbach's α median
Vocabulary	7	Winter	Internal consistency	0.820	TR2602	Cronbach's α median
Vocabulary	8	Fall	Internal consistency	0.830	TR2602	Cronbach's α median
Vocabulary	8	Winter	Internal consistency	0.830	TR2602	Cronbach's α median
Vocabulary	3	Spring	Internal consistency	0.850	TR2602	Cronbach's α (Fall α used; Spring not separately reported)
Vocabulary	4	Spring	Internal consistency	0.830	TR2602	Cronbach's α median; Spring not separately reported
Vocabulary	5	Spring	Internal consistency	0.800	TR2602	Cronbach's α median; Spring not separately reported
Vocabulary	6	Spring	Internal consistency	0.830	TR2602	Cronbach's α median; Spring not separately reported
Vocabulary	7	Spring	Internal consistency	0.820	TR2602	Cronbach's α median; Spring not separately reported
Vocabulary	8	Spring	Internal consistency	0.830	TR2602	Cronbach's α median; Spring not separately reported
Proficient Reading	3	Fall	Internal consistency	0.900	TR1407	Cronbach's α
Proficient Reading	3	Winter	Internal consistency	0.870	TR1407	Cronbach's α
Proficient Reading	4	Fall	Internal consistency	0.880	TR1407	Cronbach's α

Proficient Reading	4	Winter	Internal consistency	0.870	TR1407	Cronbach's α
Proficient Reading	5	Fall	Internal consistency	0.840	TR1407	Cronbach's α
Proficient Reading	5	Winter	Internal consistency	0.850	TR1407	Cronbach's α
Proficient Reading	6	Fall	Internal consistency	0.890	TR1407	Cronbach's α
Proficient Reading	6	Winter	Internal consistency	0.870	TR1407	Cronbach's α
Proficient Reading	7	Fall	Internal consistency	0.830	TR1407	Cronbach's α
Proficient Reading	7	Winter	Internal consistency	0.860	TR1407	Cronbach's α
Proficient Reading	8	Fall	Internal consistency	0.880	TR1407	Cronbach's α
Proficient Reading	8	Winter	Internal consistency	0.880	TR1407	Cronbach's α
Proficient Reading	3	Spring	Internal consistency	0.900	TR1407	Spring not separately reported; using Fall α (highest)
Proficient Reading	4	Spring	Internal consistency	0.880	TR1407	Spring not separately reported; using Fall α (highest)
Proficient Reading	5	Spring	Internal consistency	0.850	TR1407	Spring not separately reported; using Winter α (highest)
Proficient Reading	6	Spring	Internal consistency	0.890	TR1407	Spring not separately reported; using Fall α (highest)
Proficient Reading	7	Spring	Internal consistency	0.860	TR1407	Spring not separately reported; using Winter α (highest)
Proficient Reading	8	Spring	Internal consistency	0.880	TR1407	Spring not separately reported; using Fall α (highest)
MCRC	3	Fall	Internal consistency	0.637	TR1202	Median Spearman-Brown across forms
MCRC	3	Winter	Internal consistency	0.637	TR1202	Median Spearman-Brown across forms
MCRC	3	Spring	Internal consistency	0.637	TR1202	Median Spearman-Brown across forms
MCRC	4	Fall	Internal consistency	0.574	TR1203	Median Spearman-Brown across forms

MCRC	4	Winter	Internal consistency	0.574	TR1203	Median Spearman-Brown across forms
MCRC	4	Spring	Internal consistency	0.574	TR1203	Median Spearman-Brown across forms
MCRC	5	Fall	Internal consistency	0.619	TR1204	Median Spearman-Brown across forms
MCRC	5	Winter	Internal consistency	0.619	TR1204	Median Spearman-Brown across forms
MCRC	5	Spring	Internal consistency	0.619	TR1204	Median Spearman-Brown across forms
MCRC	6	Fall	Internal consistency	0.513	TR1205	Median Spearman-Brown across forms
MCRC	6	Winter	Internal consistency	0.513	TR1205	Median Spearman-Brown across forms
MCRC	6	Spring	Internal consistency	0.513	TR1205	Median Spearman-Brown across forms
MCRC	7	Fall	Internal consistency	0.460	TR1206	Median Spearman-Brown across forms
MCRC	7	Winter	Internal consistency	0.460	TR1206	Median Spearman-Brown across forms
MCRC	7	Spring	Internal consistency	0.460	TR1206	Median Spearman-Brown across forms
MCRC	8	Fall	Internal consistency	0.710	TR1807	Split-Half (overall sample)
MCRC	8	Winter	Internal consistency	0.710	TR1807	Split-Half (overall sample)
MCRC	8	Spring	Internal consistency	0.710	TR1807	Split-Half (overall sample)

Table 3.
Median Reliability Coefficient Per Measure x Grade x Season

Measure	Grade	Season	Family Closest To Median	Median Coefficient	Source TR	Notes
Letter Names	K	Fall	Generalizability	0.859	TR1111	Median of 3 family-level coefficient(s)
Letter Names	K	Winter	Alternate form	0.890	TR1403	Single value carried as trivial median
Letter Names	K	Spring	Alternate form	0.890	TR1403	Single value carried as trivial median
Letter Sounds	K	Fall	Test-retest	0.840	TR1803	Median of 3 family-level coefficient(s)
Letter Sounds	K	Winter	Alternate form	0.910	TR1403	Single value carried as trivial median
Letter Sounds	K	Spring	Alternate form	0.910	TR1403	Single value carried as trivial median
Phoneme Segmenting	K	Fall	Test-retest	0.790	TR1803	Median of 3 family-level coefficient(s)
Phoneme Segmenting	K	Winter	Alternate form	0.830	TR1403	Single value carried as trivial median
Phoneme Segmenting	K	Spring	Alternate form	0.830	TR1403	Single value carried as trivial median
Word Reading Fluency	K	Winter	Generalizability	0.820	TR1003	Median of 3 family-level coefficient(s)
Word Reading Fluency	K	Spring	Alternate form	0.910	TR1403	Single value carried as trivial median
Letter Names	1	Fall	Test-retest	0.820	TR0906	Median of 3 family-level coefficient(s)
Letter Sounds	1	Fall	Test-retest	0.720	TR0906	Median of 2 family-level coefficient(s)
Letter Sounds	1	Winter	Alternate form	0.760	TR0906	Single value carried as trivial median
Letter Sounds	1	Spring	Alternate form	0.760	TR0906	Single value carried as trivial median
Phoneme Segmenting	1	Fall	Alternate form	0.677	TR0906	Median of 2 family-level coefficient(s)
Word Reading Fluency	1	Fall	Test-retest	0.950	TR0906	Median of 3 family-level coefficient(s)
Word Reading Fluency	1	Winter	Alternate form	0.955	TR0906	Single value carried as trivial median
Word Reading Fluency	1	Spring	Alternate form	0.955	TR0906	Single value carried as trivial median
Passage Reading Fluency	1	Winter	Alternate form	0.960	TR0906	Median of 3 family-level coefficient(s)
Passage Reading Fluency	1	Spring	Alternate form	0.960	TR0906	Single value carried as trivial median
Word Reading Fluency	2	Fall	Alternate form	0.650	TR1803	Median of 2 family-level coefficient(s)
Passage Reading Fluency	2	Fall	Generalizability	0.600	TR1111	Median of 2 family-level coefficient(s)
Passage Reading Fluency	2	Winter	Generalizability	0.869	TR1111	Single value carried as trivial median

Passage Reading Fluency	2	Spring	Generalizability	0.869	TR1111	Single value carried as trivial median
MCRC	2	Fall	Internal consistency	0.749	TR1201	Median of 2 family-level coefficient(s)
MCRC	2	Winter	Internal consistency	0.728	TR1201	Single value carried as trivial median
MCRC	2	Spring	Internal consistency	0.728	TR1201	Single value carried as trivial median
Vocabulary	2	Fall	Internal consistency	0.830	TR1406	Single value carried as trivial median
Vocabulary	2	Winter	Internal consistency	0.840	TR1406	Single value carried as trivial median
Proficient Reading	2	Fall	Internal consistency	0.770	TR1807	Single value carried as trivial median
Proficient Reading	2	Winter	Internal consistency	0.770	TR1807	Single value carried as trivial median
Passage Reading Fluency	3	Fall	Test-retest	0.935	TR0906	Median of 3 family-level coefficient(s)
Passage Reading Fluency	3	Winter	Alternate form	0.945	TR0906	Single value carried as trivial median
Passage Reading Fluency	3	Spring	Alternate form	0.945	TR0906	Single value carried as trivial median
Passage Reading Fluency	4	Fall	Test-retest	0.950	TR1219	Median of 3 family-level coefficient(s)
Passage Reading Fluency	4	Winter	Generalizability	0.950	TR1219	Median of 2 family-level coefficient(s)
Passage Reading Fluency	4	Spring	Generalizability	0.950	TR1219	Median of 2 family-level coefficient(s)
Passage Reading Fluency	5	Fall	Alternate form	0.920	TR0906	Median of 3 family-level coefficient(s)
Passage Reading Fluency	5	Winter	Alternate form	0.920	TR0906	Single value carried as trivial median
Passage Reading Fluency	5	Spring	Alternate form	0.920	TR0906	Single value carried as trivial median
Passage Reading Fluency	6	Fall	Generalizability	0.588	TR1111	Median of 2 family-level coefficient(s)
Passage Reading Fluency	7	Fall	Generalizability	0.805	TR1111	Single value carried as trivial median
Passage Reading Fluency	8	Fall	Alternate form	0.910	TR0906	Median of 3 family-level coefficient(s)
Passage Reading Fluency	8	Winter	Alternate form	0.910	TR0906	Single value carried as trivial median
Passage Reading Fluency	8	Spring	Alternate form	0.910	TR0906	Single value carried as trivial median
Vocabulary	3	Fall	Internal consistency	0.850	TR2602	Single value carried as trivial median
Vocabulary	3	Winter	Internal consistency	0.860	TR2602	Single value carried as trivial median

Vocabulary	4	Fall	Internal consistency	0.850	TR2602	Single value carried as trivial median
Vocabulary	4	Winter	Internal consistency	0.830	TR2602	Single value carried as trivial median
Vocabulary	5	Fall	Internal consistency	0.810	TR2602	Single value carried as trivial median
Vocabulary	5	Winter	Internal consistency	0.800	TR2602	Single value carried as trivial median
Vocabulary	6	Fall	Internal consistency	0.820	TR2602	Single value carried as trivial median
Vocabulary	6	Winter	Internal consistency	0.830	TR2602	Single value carried as trivial median
Vocabulary	7	Fall	Internal consistency	0.840	TR2602	Single value carried as trivial median
Vocabulary	7	Winter	Internal consistency	0.820	TR2602	Single value carried as trivial median
Vocabulary	8	Fall	Internal consistency	0.830	TR2602	Single value carried as trivial median
Vocabulary	8	Winter	Internal consistency	0.830	TR2602	Single value carried as trivial median
Vocabulary	3	Spring	Internal consistency	0.850	TR2602	Single value carried as trivial median
Vocabulary	4	Spring	Internal consistency	0.830	TR2602	Single value carried as trivial median
Vocabulary	5	Spring	Internal consistency	0.800	TR2602	Single value carried as trivial median
Vocabulary	6	Spring	Internal consistency	0.830	TR2602	Single value carried as trivial median
Vocabulary	7	Spring	Internal consistency	0.820	TR2602	Single value carried as trivial median
Vocabulary	8	Spring	Internal consistency	0.830	TR2602	Single value carried as trivial median
Proficient Reading	3	Fall	Internal consistency	0.900	TR1407	Single value carried as trivial median
Proficient Reading	3	Winter	Internal consistency	0.870	TR1407	Single value carried as trivial median
Proficient Reading	4	Fall	Internal consistency	0.880	TR1407	Single value carried as trivial median

Proficient Reading	4	Winter	Internal consistency	0.870	TR1407	Single value carried as trivial median
Proficient Reading	5	Fall	Internal consistency	0.840	TR1407	Single value carried as trivial median
Proficient Reading	5	Winter	Internal consistency	0.850	TR1407	Single value carried as trivial median
Proficient Reading	6	Fall	Internal consistency	0.890	TR1407	Single value carried as trivial median
Proficient Reading	6	Winter	Internal consistency	0.870	TR1407	Single value carried as trivial median
Proficient Reading	7	Fall	Internal consistency	0.830	TR1407	Single value carried as trivial median
Proficient Reading	7	Winter	Internal consistency	0.860	TR1407	Single value carried as trivial median
Proficient Reading	8	Fall	Internal consistency	0.880	TR1407	Single value carried as trivial median
Proficient Reading	8	Winter	Internal consistency	0.880	TR1407	Single value carried as trivial median
Proficient Reading	3	Spring	Internal consistency	0.900	TR1407	Single value carried as trivial median
Proficient Reading	4	Spring	Internal consistency	0.880	TR1407	Single value carried as trivial median
Proficient Reading	5	Spring	Internal consistency	0.850	TR1407	Single value carried as trivial median
Proficient Reading	6	Spring	Internal consistency	0.890	TR1407	Single value carried as trivial median
Proficient Reading	7	Spring	Internal consistency	0.860	TR1407	Single value carried as trivial median
Proficient Reading	8	Spring	Internal consistency	0.880	TR1407	Single value carried as trivial median
MCRC	3	Fall	Internal consistency	0.637	TR1202	Single value carried as trivial median
MCRC	3	Winter	Internal consistency	0.637	TR1202	Single value carried as trivial median
MCRC	3	Spring	Internal consistency	0.637	TR1202	Single value carried as trivial median
MCRC	4	Fall	Internal consistency	0.574	TR1203	Single value carried as trivial median

MCRC	4	Winter	Internal consistency	0.574	TR1203	Single value carried as trivial median
MCRC	4	Spring	Internal consistency	0.574	TR1203	Single value carried as trivial median
MCRC	5	Fall	Internal consistency	0.619	TR1204	Single value carried as trivial median
MCRC	5	Winter	Internal consistency	0.619	TR1204	Single value carried as trivial median
MCRC	5	Spring	Internal consistency	0.619	TR1204	Single value carried as trivial median
MCRC	6	Fall	Internal consistency	0.513	TR1205	Single value carried as trivial median
MCRC	6	Winter	Internal consistency	0.513	TR1205	Single value carried as trivial median
MCRC	6	Spring	Internal consistency	0.513	TR1205	Single value carried as trivial median
MCRC	7	Fall	Internal consistency	0.460	TR1206	Single value carried as trivial median
MCRC	7	Winter	Internal consistency	0.460	TR1206	Single value carried as trivial median
MCRC	7	Spring	Internal consistency	0.460	TR1206	Single value carried as trivial median
MCRC	8	Fall	Internal consistency	0.710	TR1807	Single value carried as trivial median
MCRC	8	Winter	Internal consistency	0.710	TR1807	Single value carried as trivial median
MCRC	8	Spring	Internal consistency	0.710	TR1807	Single value carried as trivial median

Table 4.

Composite Reliability (Mosier's formula for average of z-scored components with k=3)

Grade	Season	Components	r1 Measure	r1	r1 Fallback	r Pair 1 label	r Pair 1
K	Fall	Letter Names + Letter Sounds + Phoneme Segmenting	Letter Names	0.859	No	Letter Names × Letter Sounds	0.759
K	Winter	Letter Sounds + Phoneme Segmenting + Word Reading Fluency	Letter Sounds	0.910	No	Letter Sounds × Phoneme Segmenting	0.634
K	Spring	Letter Sounds + Phoneme Segmenting + Word Reading Fluency	Letter Sounds	0.910	No	Letter Sounds × Phoneme Segmenting	0.648
1	Fall	Letter Sounds + Phoneme Segmenting + Word Reading Fluency	Letter Sounds	0.720	No	Letter Sounds × Phoneme Segmenting	0.587
1	Winter	Letter Sounds + Word Reading Fluency + Passage Reading Fluency	Letter Sounds	0.760	No	Letter Sounds × Word Reading Fluency	0.512
1	Spring	Letter Sounds + Word Reading Fluency + Passage Reading Fluency	Letter Sounds	0.760	No	Letter Sounds × Word Reading Fluency	0.470
2	Fall	Passage Reading Fluency + Vocabulary + Proficient Reading	Passage Reading Fluency	0.600	No	Passage Reading Fluency × Vocabulary	0.696
2	Winter	Passage Reading Fluency + Vocabulary + Proficient Reading	Passage Reading Fluency	0.869	No	Passage Reading Fluency × Vocabulary	0.700
2	Spring	Passage Reading Fluency + Vocabulary + Proficient Reading	Passage Reading Fluency	0.869	No	Passage Reading Fluency × Vocabulary	0.691
3	Fall	Passage Reading Fluency + Vocabulary + Proficient Reading	Passage Reading Fluency	0.935	No	Passage Reading Fluency × Vocabulary	0.726
3	Winter	Passage Reading Fluency + Vocabulary + Proficient Reading	Passage Reading Fluency	0.945	No	Passage Reading Fluency × Vocabulary	0.704
3	Spring	Passage Reading Fluency + Vocabulary + Proficient Reading	Passage Reading Fluency	0.945	No	Passage Reading Fluency × Vocabulary	0.677
4	Fall	Passage Reading Fluency + Vocabulary + Proficient Reading	Passage Reading Fluency	0.950	No	Passage Reading Fluency × Vocabulary	0.691
4	Winter	Passage Reading Fluency + Vocabulary + Proficient Reading	Passage Reading Fluency	0.950	No	Passage Reading Fluency × Vocabulary	0.676

4	Spring	Passage Reading Fluency + Vocabulary + Proficient Reading	Passage Reading Fluency	0.950	No	Passage Reading Fluency × Vocabulary	0.669
5	Fall	Passage Reading Fluency + Vocabulary + Proficient Reading	Passage Reading Fluency	0.920	No	Passage Reading Fluency × Vocabulary	0.707
5	Winter	Passage Reading Fluency + Vocabulary + Proficient Reading	Passage Reading Fluency	0.920	No	Passage Reading Fluency × Vocabulary	0.671
5	Spring	Passage Reading Fluency + Vocabulary + Proficient Reading	Passage Reading Fluency	0.920	No	Passage Reading Fluency × Vocabulary	0.658
6	Fall	Passage Reading Fluency + Vocabulary + Proficient Reading	Passage Reading Fluency	0.588	No	Passage Reading Fluency × Vocabulary	0.657
6	Winter	Passage Reading Fluency + Vocabulary + Proficient Reading	Passage Reading Fluency	0.775	Yes	Passage Reading Fluency × Vocabulary	0.637
6	Spring	Passage Reading Fluency + Vocabulary + Proficient Reading	Passage Reading Fluency	0.775	Yes	Passage Reading Fluency × Vocabulary	0.666
7	Fall	Passage Reading Fluency + Vocabulary + Proficient Reading	Passage Reading Fluency	0.805	No	Passage Reading Fluency × Vocabulary	0.627
7	Winter	Passage Reading Fluency + Vocabulary + Proficient Reading	Passage Reading Fluency	0.805	Yes	Passage Reading Fluency × Vocabulary	0.639
7	Spring	Passage Reading Fluency + Vocabulary + Proficient Reading	Passage Reading Fluency	0.805	Yes	Passage Reading Fluency × Vocabulary	0.638
8	Fall	Passage Reading Fluency + Vocabulary + Proficient Reading	Passage Reading Fluency	0.910	No	Passage Reading Fluency × Vocabulary	0.630
8	Winter	Passage Reading Fluency + Vocabulary + Proficient Reading	Passage Reading Fluency	0.910	No	Passage Reading Fluency × Vocabulary	0.614
8	Spring	Passage Reading Fluency + Vocabulary + Proficient Reading	Passage Reading Fluency	0.910	No	Passage Reading Fluency × Vocabulary	0.598
Grade	**Season**	**Components**	**r2 Measure**	**r2**	**r2 Fallback**	**r Pair 2 Label**	**r Pair 2**
K	Fall	Letter Names + Letter Sounds + Phoneme Segmenting	Letter Sounds	0.840	No	Letter Names × Phoneme Segmenting	0.401
K	Winter	Letter Sounds + Phoneme Segmenting + Word Reading Fluency	Phoneme Segmenting	0.830	No	Letter Sounds × Word Reading Fluency	0.519
K	Spring	Letter Sounds + Phoneme Segmenting + Word Reading Fluency	Phoneme Segmenting	0.830	No	Letter Sounds × Word Reading Fluency	0.560
1	Fall	Letter Sounds + Phoneme Segmenting + Word Reading Fluency	Phoneme Segmenting	0.677	No	Letter Sounds × Word Reading Fluency	0.543

1	Winter	Letter Sounds + Word Reading Fluency + Passage Reading Fluency	Word Reading Fluency	0.955	No	Letter Sounds × Passage Reading Fluency	0.439
1	Spring	Letter Sounds + Word Reading Fluency + Passage Reading Fluency	Word Reading Fluency	0.955	No	Letter Sounds × Passage Reading Fluency	0.395
2	Fall	Passage Reading Fluency + Vocabulary + Proficient Reading	Vocabulary	0.830	No	Passage Reading Fluency × Proficient Reading	0.616
2	Winter	Passage Reading Fluency + Vocabulary + Proficient Reading	Vocabulary	0.840	No	Passage Reading Fluency × Proficient Reading	0.687
2	Spring	Passage Reading Fluency + Vocabulary + Proficient Reading	Vocabulary	0.840	Yes	Passage Reading Fluency × Proficient Reading	0.651
3	Fall	Passage Reading Fluency + Vocabulary + Proficient Reading	Vocabulary	0.850	No	Passage Reading Fluency × Proficient Reading	0.623
3	Winter	Passage Reading Fluency + Vocabulary + Proficient Reading	Vocabulary	0.860	No	Passage Reading Fluency × Proficient Reading	0.564
3	Spring	Passage Reading Fluency + Vocabulary + Proficient Reading	Vocabulary	0.850	No	Passage Reading Fluency × Proficient Reading	0.611
4	Fall	Passage Reading Fluency + Vocabulary + Proficient Reading	Vocabulary	0.850	No	Passage Reading Fluency × Proficient Reading	0.604
4	Winter	Passage Reading Fluency + Vocabulary + Proficient Reading	Vocabulary	0.830	No	Passage Reading Fluency × Proficient Reading	0.575
4	Spring	Passage Reading Fluency + Vocabulary + Proficient Reading	Vocabulary	0.830	No	Passage Reading Fluency × Proficient Reading	0.585
5	Fall	Passage Reading Fluency + Vocabulary + Proficient Reading	Vocabulary	0.810	No	Passage Reading Fluency × Proficient Reading	0.606
5	Winter	Passage Reading Fluency + Vocabulary + Proficient Reading	Vocabulary	0.800	No	Passage Reading Fluency × Proficient Reading	0.596
5	Spring	Passage Reading Fluency + Vocabulary + Proficient Reading	Vocabulary	0.800	No	Passage Reading Fluency × Proficient Reading	0.585
6	Fall	Passage Reading Fluency + Vocabulary + Proficient Reading	Vocabulary	0.820	No	Passage Reading Fluency × Proficient Reading	0.591
6	Winter	Passage Reading Fluency + Vocabulary + Proficient Reading	Vocabulary	0.830	No	Passage Reading Fluency × Proficient Reading	0.559
6	Spring	Passage Reading Fluency + Vocabulary + Proficient Reading	Vocabulary	0.830	No	Passage Reading Fluency × Proficient Reading	0.578
7	Fall	Passage Reading Fluency + Vocabulary + Proficient Reading	Vocabulary	0.840	No	Passage Reading Fluency × Proficient Reading	0.551

7	Winter	Passage Reading Fluency + Vocabulary + Proficient Reading	Vocabulary	0.820	No	Passage Reading Fluency × Proficient Reading	0.558
7	Spring	Passage Reading Fluency + Vocabulary + Proficient Reading	Vocabulary	0.820	No	Passage Reading Fluency × Proficient Reading	0.514
8	Fall	Passage Reading Fluency + Vocabulary + Proficient Reading	Vocabulary	0.830	No	Passage Reading Fluency × Proficient Reading	0.524
8	Winter	Passage Reading Fluency + Vocabulary + Proficient Reading	Vocabulary	0.830	No	Passage Reading Fluency × Proficient Reading	0.492
8	Spring	Passage Reading Fluency + Vocabulary + Proficient Reading	Vocabulary	0.830	No	Passage Reading Fluency × Proficient Reading	0.503
Grade	**Season**	**Components**	**r3 Measure**	**r3**	**r3 Fallback**	**r Pair 3 Label**	**r Pair 3**
K	Fall	Letter Names + Letter Sounds + Phoneme Segmenting	Phoneme Segmenting	0.790	No	Letter Sounds × Phoneme Segmenting	0.521
K	Winter	Letter Sounds + Phoneme Segmenting + Word Reading Fluency	Word Reading Fluency	0.820	No	Phoneme Segmenting × Word Reading Fluency	0.340
K	Spring	Letter Sounds + Phoneme Segmenting + Word Reading Fluency	Word Reading Fluency	0.910	No	Phoneme Segmenting × Word Reading Fluency	0.386
1	Fall	Letter Sounds + Phoneme Segmenting + Word Reading Fluency	Word Reading Fluency	0.950	No	Phoneme Segmenting × Word Reading Fluency	0.353
1	Winter	Letter Sounds + Word Reading Fluency + Passage Reading Fluency	Passage Reading Fluency	0.960	No	Word Reading Fluency × Passage Reading Fluency	0.941
1	Spring	Letter Sounds + Word Reading Fluency + Passage Reading Fluency	Passage Reading Fluency	0.960	No	Word Reading Fluency × Passage Reading Fluency	0.921
2	Fall	Passage Reading Fluency + Vocabulary + Proficient Reading	Proficient Reading	0.749	No	Vocabulary × Proficient Reading	0.634
2	Winter	Passage Reading Fluency + Vocabulary + Proficient Reading	Proficient Reading	0.728	No	Vocabulary × Proficient Reading	0.696
2	Spring	Passage Reading Fluency + Vocabulary + Proficient Reading	Proficient Reading	0.728	No	Vocabulary × Proficient Reading	0.672
3	Fall	Passage Reading Fluency + Vocabulary + Proficient Reading	Proficient Reading	0.637	No	Vocabulary × Proficient Reading	0.634
3	Winter	Passage Reading Fluency + Vocabulary + Proficient Reading	Proficient Reading	0.637	No	Vocabulary × Proficient Reading	0.565

3	Spring	Passage Reading Fluency + Vocabulary + Proficient Reading	Proficient Reading	0.637	No	Vocabulary × Proficient Reading	0.628
4	Fall	Passage Reading Fluency + Vocabulary + Proficient Reading	Proficient Reading	0.574	No	Vocabulary × Proficient Reading	0.656
4	Winter	Passage Reading Fluency + Vocabulary + Proficient Reading	Proficient Reading	0.574	No	Vocabulary × Proficient Reading	0.638
4	Spring	Passage Reading Fluency + Vocabulary + Proficient Reading	Proficient Reading	0.574	No	Vocabulary × Proficient Reading	0.626
5	Fall	Passage Reading Fluency + Vocabulary + Proficient Reading	Proficient Reading	0.619	No	Vocabulary × Proficient Reading	0.684
5	Winter	Passage Reading Fluency + Vocabulary + Proficient Reading	Proficient Reading	0.619	No	Vocabulary × Proficient Reading	0.683
5	Spring	Passage Reading Fluency + Vocabulary + Proficient Reading	Proficient Reading	0.619	No	Vocabulary × Proficient Reading	0.658
6	Fall	Passage Reading Fluency + Vocabulary + Proficient Reading	Proficient Reading	0.513	No	Vocabulary × Proficient Reading	0.664
6	Winter	Passage Reading Fluency + Vocabulary + Proficient Reading	Proficient Reading	0.513	No	Vocabulary × Proficient Reading	0.631
6	Spring	Passage Reading Fluency + Vocabulary + Proficient Reading	Proficient Reading	0.513	No	Vocabulary × Proficient Reading	0.661
7	Fall	Passage Reading Fluency + Vocabulary + Proficient Reading	Proficient Reading	0.460	No	Vocabulary × Proficient Reading	0.647
7	Winter	Passage Reading Fluency + Vocabulary + Proficient Reading	Proficient Reading	0.460	No	Vocabulary × Proficient Reading	0.641
7	Spring	Passage Reading Fluency + Vocabulary + Proficient Reading	Proficient Reading	0.460	No	Vocabulary × Proficient Reading	0.558
8	Fall	Passage Reading Fluency + Vocabulary + Proficient Reading	Proficient Reading	0.710	No	Vocabulary × Proficient Reading	0.613
8	Winter	Passage Reading Fluency + Vocabulary + Proficient Reading	Proficient Reading	0.710	No	Vocabulary × Proficient Reading	0.581
8	Spring	Passage Reading Fluency + Vocabulary + Proficient Reading	Proficient Reading	0.710	No	Vocabulary × Proficient Reading	0.579

Table 5.

Composite Reliability (Mosier's formula for average of z-scored components with k=3)

Grade	Season	Components	Any Reliability Fallback Used	Composite Reliability	Sum Reliabilities	Sum Pair Corrs i_lt_j
K	Fall	Letter Names + Letter Sounds + Phoneme Segmenting	No	0.920	2.489	1.681
K	Winter	Letter Sounds + Phoneme Segmenting + Word Reading Fluency	No	0.926	2.560	1.493
K	Spring	Letter Sounds + Phoneme Segmenting + Word Reading Fluency	No	0.943	2.650	1.594
1	Fall	Letter Sounds + Phoneme Segmenting + Word Reading Fluency	No	0.891	2.348	1.483
1	Winter	Letter Sounds + Word Reading Fluency + Passage Reading Fluency	No	0.952	2.675	1.892
1	Spring	Letter Sounds + Word Reading Fluency + Passage Reading Fluency	No	0.951	2.675	1.787
2	Fall	Passage Reading Fluency + Vocabulary + Proficient Reading	No	0.881	2.179	1.946
2	Winter	Passage Reading Fluency + Vocabulary + Proficient Reading	No	0.921	2.437	2.083
2	Spring	Passage Reading Fluency + Vocabulary + Proficient Reading	Yes	0.920	2.437	2.015
3	Fall	Passage Reading Fluency + Vocabulary + Proficient Reading	No	0.917	2.422	1.982
3	Winter	Passage Reading Fluency + Vocabulary + Proficient Reading	No	0.916	2.442	1.833
3	Spring	Passage Reading Fluency + Vocabulary + Proficient Reading	No	0.917	2.432	1.916
4	Fall	Passage Reading Fluency + Vocabulary + Proficient Reading	No	0.909	2.374	1.951
4	Winter	Passage Reading Fluency + Vocabulary + Proficient Reading	No	0.905	2.354	1.889
4	Spring	Passage Reading Fluency + Vocabulary + Proficient Reading	No	0.904	2.354	1.880
5	Fall	Passage Reading Fluency + Vocabulary + Proficient Reading	No	0.907	2.349	1.997

5	Winter	Passage Reading Fluency + Vocabulary + Proficient Reading	No	0.904	2.339	1.950
5	Spring	Passage Reading Fluency + Vocabulary + Proficient Reading	No	0.903	2.339	1.901
6	Fall	Passage Reading Fluency + Vocabulary + Proficient Reading	No	0.842	1.921	1.911
6	Winter	Passage Reading Fluency + Vocabulary + Proficient Reading	Yes	0.867	2.118	1.827
6	Spring	Passage Reading Fluency + Vocabulary + Proficient Reading	Yes	0.871	2.118	1.905
7	Fall	Passage Reading Fluency + Vocabulary + Proficient Reading	No	0.865	2.105	1.826
7	Winter	Passage Reading Fluency + Vocabulary + Proficient Reading	Yes	0.863	2.085	1.838
7	Spring	Passage Reading Fluency + Vocabulary + Proficient Reading	Yes	0.857	2.085	1.710
8	Fall	Passage Reading Fluency + Vocabulary + Proficient Reading	No	0.916	2.450	1.767
8	Winter	Passage Reading Fluency + Vocabulary + Proficient Reading	No	0.914	2.450	1.688
8	Spring	Passage Reading Fluency + Vocabulary + Proficient Reading	No	0.914	2.450	1.680

Table 6.

Summary of Composite Reliability by Grade and Season

Grade	Season	Components	Composite ρ (highest r)	Composite ρ (median r)
K	Fall	LN + LS + PhSeg	0.956	0.920
K	Winter	LS + PhSeg + WRF	0.96	0.927
K	Spring	LS + PhSeg + WRF	0.961	0.943
1	Fall	LS + PhSeg + WRF	0.958	0.891
1	Winter	LS + WRF + PRF	0.972	0.952
1	Spring	LS + WRF + PRF	0.971	0.951
2	Fall/Winter/Spring	PRF + Vocab + PR(MCRC)	0.930 / 0.942 / 0.941	0.881 / 0.921 / 0.920
3	Fall/Winter/Spring	PRF + Vocab + PR(MCRC)	0.946 / 0.943 / 0.945	0.917 / 0.916 / 0.917
4	Fall/Winter/Spring	PRF + Vocab + PR(MCRC)	0.948 / 0.944 / 0.944	0.909 / 0.905 / 0.904
5	Fall/Winter/Spring	PRF + Vocab + PR(MCRC)	0.949 / 0.945 / 0.944	0.907 / 0.904 / 0.903
6	Fall/Winter/Spring	PRF + Vocab + PR(MCRC)	0.906 / 0.906 / 0.908	0.842 / 0.867 / 0.871
7	Fall/Winter/Spring	PRF + Vocab + PR(MCRC)	0.912 / 0.911 / 0.907	0.865 / 0.863 / 0.857
8	Fall/Winter/Spring	PRF + Vocab + PR(MCRC)	0.922 / 0.922 / 0.921	0.916 / 0.914 / 0.914

Additional Reliability Estimates for the Composite Score

The Mosier composite reliability presented in Tables 4 and 6 is, in the National Center on Intensive Intervention (NCII) Academic Screening rating rubric, an internal-consistency-style estimate. The Full-Bubble criterion for Reliability requires either (a) a model-based reliability estimate, or (b) at least two distinct types of reliability appropriate for the purpose of the tool, with the lower bound of the 95% confidence interval around each median estimate at or above 0.70. Two additional analyses below extend the evidence so that both pathways to the Full Bubble are met.

Composite Reliability via McDonald's Omega (Model-Based, One-Factor CFA)

A one-factor confirmatory factor model was fit in each grade × season cell, treating the three z-scored sub-scores as indicators of a latent reading factor with the factor variance fixed to 1.0. With three indicators, the model is just identified (df = 0); fit cannot be tested, but the standardized loadings and McDonald's omega are uniquely estimable from the three pairwise correlations. Loadings for the three-indicator one-factor model satisfy $\lambda_1^2 = r_{12} \cdot r_{13} / r_{23}$, $\lambda_2^2 = r_{12} \cdot r_{23} / r_{13}$, and $\lambda_3^2 = r_{13} \cdot r_{23} / r_{12}$. Omega was computed from the standardized loadings as $\omega = (\Sigma\lambda_i)^2 / [(\Sigma\lambda_i)^2 + \Sigma(1 - \lambda_i^2)]$ (McDonald, 1999). Ninety-five percent confidence intervals were obtained via 1,000-resample percentile bootstrap on the cell-level data.

Table 7 reports omega and its 95% CI for each grade × season cell, along with the three standardized loadings. Across the 27 cells, median ω = .837 with median CI lower bound = .830; the lowest CI lower bound across any cell was .761 (Grade 1 Fall). All 27 cells exceeded the .70 threshold at the lower CI bound, so omega alone satisfies criterion (a) of the NCII Full Bubble standard. Two cells (Grade 1 Winter and Grade 1 Spring) produced a Heywood case in which the closed-form three-indicator solution placed the Letter Sounds loading at the upper boundary of 1.0; these cells are flagged in the Notes column and should be interpreted as upper-bound approximations. For Kindergarten and Grade 1 Fall, the standardized loadings are notably asymmetric (e.g., Letter Sounds at .96–.99 versus the other two measures at .52–.66), reflecting that the early-literacy components are more strongly correlated through Letter Sounds than with each other; this is a property of the data, not a model misfit per se, given the just-identified structure.

Table 7.

Composite Reliability via McDonald's Omega from One-Factor CFA, by Grade and Season

Grade	Season	n	λ_1	λ_2	λ_3	ω	95% CI lower	95% CI upper	Notes
K	Fall	11,038	0.770	0.989	0.522	0.818	0.811	0.824	
K	Winter	10,682	0.976	0.637	0.532	0.772	0.766	0.779	
K	Spring	11,049	0.966	0.665	0.580	0.791	0.786	0.797	
1	Fall	12,276	0.955	0.613	0.569	0.767	0.761	0.773	
1	Winter	11,084	0.486	1.000	0.901	0.857	0.852	0.861	Heywood case (loading capped at 1.0)
1	Spring	11,325	0.446	1.000	0.885	0.842	0.837	0.847	Heywood case (loading capped at 1.0)
2	Fall	9,933	0.827	0.851	0.744	0.850	0.845	0.854	
2	Winter	8,455	0.837	0.846	0.822	0.873	0.869	0.878	
2	Spring	9,365	0.823	0.849	0.791	0.862	0.857	0.866	
3	Fall	8,798	0.852	0.856	0.737	0.857	0.852	0.862	
3	Winter	8,185	0.845	0.837	0.670	0.829	0.824	0.835	
3	Spring	8,246	0.815	0.828	0.753	0.841	0.836	0.847	
4	Fall	10,309	0.799	0.860	0.761	0.849	0.845	0.854	
4	Winter	8,482	0.786	0.864	0.733	0.838	0.832	0.844	
4	Spring	9,484	0.795	0.838	0.737	0.833	0.827	0.839	
5	Fall	10,352	0.793	0.888	0.765	0.857	0.852	0.862	
5	Winter	8,534	0.769	0.874	0.774	0.848	0.842	0.854	
5	Spring	9,310	0.769	0.853	0.759	0.837	0.830	0.843	
6	Fall	10,247	0.766	0.855	0.771	0.840	0.834	0.846	
6	Winter	8,330	0.751	0.846	0.744	0.824	0.817	0.831	
6	Spring	7,855	0.759	0.881	0.759	0.843	0.836	0.849	
7	Fall	8,944	0.727	0.856	0.755	0.824	0.818	0.830	
7	Winter	6,851	0.742	0.860	0.753	0.829	0.822	0.837	
7	Spring	6,860	0.759	0.842	0.672	0.803	0.795	0.811	
8	Fall	9,065	0.735	0.857	0.711	0.813	0.806	0.819	
8	Winter	7,156	0.721	0.848	0.677	0.795	0.786	0.803	
8	Spring	7,210	0.710	0.846	0.699	0.797	0.789	0.805	

Table 7 Note. *λ_1, λ_2, λ_3 are the standardized factor loadings of the first, second, and third sub-scores in each cell's component triple (in the order shown in Tables 4 and 6). ω is McDonald's omega; the 95% CI is from 1,000 percentile bootstrap resamples. Cells shaded in light orange are Heywood cases.*

Composite Stability Across Benchmark Windows (Test-Retest)

A third, distinct type of reliability – stability across benchmark windows – was estimated as the Pearson correlation between adjacent benchmark-window composites within each grade. Composites were formed as the within-cell average of z-scored sub-scores, exactly as in the Mosier composite reliability analysis. Listwise deletion was applied within each pair (Fall–Winter or Winter–Spring), so students were retained for a given pair if they had complete sub-score data in both relevant windows; students did not need scores in all three windows. Sample sizes ranged from approximately 6,900 to 14,100 per grade × pair. Ninety-five percent confidence intervals were computed via Fisher z back-transform.

Table 8 reports stability r and its 95% CI for each grade × adjacent-pair cell. Median r = .829 for Fall–Winter and .882 for Winter–Spring; the lower bound of the CI around the median estimate was .823 and .878 respectively. All 18 grade × pair cells had a CI lower bound at or above .697 (the only sub-.70 value was Grade K Fall–Winter at .697; the next-lowest was .790 at Grade 8 Winter–Spring); the median CI lower across all 18 cells was .830, well above the NCII .70 threshold. Because the test-retest interval here is roughly three to four months between benchmark windows rather than a few days or weeks, some of the imperfect correlations reflect real growth between administrations and is not attributable to measurement error alone. The estimates should therefore be interpreted as a lower-bound stability coefficient under conditions of expected within-year growth.

Combined with the Mosier composite reliability (internal-consistency-style) and the omega from CFA (model-based), this stability evidence yields three triangulating reliability estimates. The Mosier and stability estimate together satisfy criterion (b) of the NCII Full Bubble rubric (two distinct types of reliability with median CI lower bounds ≥ .70). The omega from CFA satisfies criterion (a) on its own. Both pathways to the Full Bubble are met.

Table 8.

Composite Stability Across Adjacent Benchmark Windows, by Grade

Grade	Pair	n	Pearson r	95% CI lower	95% CI upper
K	Fall→Winter	11,230	0.707	0.697	0.716
K	Winter→Spring	11,485	0.834	0.828	0.840
1	Fall→Winter	11,038	0.829	0.823	0.835
1	Winter→Spring	11,361	0.902	0.899	0.906
2	Fall→Winter	12,785	0.850	0.845	0.855
2	Winter→Spring	12,834	0.883	0.879	0.886
3	Fall→Winter	12,380	0.870	0.866	0.875
3	Winter→Spring	12,234	0.885	0.881	0.888
4	Fall→Winter	14,072	0.878	0.874	0.882
4	Winter→Spring	13,930	0.886	0.882	0.889
5	Fall→Winter	13,939	0.883	0.880	0.887
5	Winter→Spring	13,466	0.882	0.878	0.886

Grade	Pair	n	Pearson r	95% CI lower	95% CI upper
6	Fall→Winter	13,608	0.828	0.823	0.833
6	Winter→Spring	13,042	0.840	0.835	0.845
7	Fall→Winter	12,252	0.825	0.819	0.831
7	Winter→Spring	11,629	0.803	0.796	0.809
8	Fall→Winter	12,442	0.806	0.800	0.812
8	Winter→Spring	11,646	0.796	0.789	0.802

Table 8 Note. *Pairwise complete cases used within each pair (Fall–Winter or Winter–Spring); students were not required to have all three benchmark windows. The test-retest interval is approximately three to four months between adjacent windows; some of the imperfect correlations reflect real growth between administrations, so these estimates are conservative lower bounds on stability. Confidence intervals via Fisher z back-transform.*

Demographics

The demographic variables are static per student (don't vary by season) and stored once per row on the student's single record. So "within each grade and season" for demographics means among students who had any valid score in that season. This report uses one row per (Grade, Season, Variable, Category) with N and percent of the cell. NA values in the raw data are shown explicitly as "Missing"; "Unknown" is already a distinct coded category in your file and is kept separate. Note the high "Missing" rates for ethnicity, race, and some disability/ell values.

Sample Demographics Description

The analytic sample comprised students across Kindergarten through Grade 8 who completed at least one easyCBM reading measure during a given assessment season. Because student demographic characteristics (gender, disability status, ethnicity, race, and English Language Learner status) are static attributes that do not vary across Fall, Winter, and Spring administrations within a school year, the demographic distributions were nearly identical across seasons within each grade, with small differences reflecting only which students were assessed in a particular season. The following summary therefore reports typical values (medians and ranges) across the 27 grade × season cells.

Sample Sizes. Cell sizes ranged from approximately 6,600 to 14,800 students across grades and seasons (median ≈ 11,000 per cell), with kindergarten and first grade generally representing the largest cohorts and the upper grades (6–8) the smallest.

Gender. The sample was approximately evenly split between male and female students. Across grade × season cells, males represented a median of 45.0% (range: 43.6%–47.2%) and females 42.9% (range: 41.1%–44.4%). A small fraction of students was coded as "X" (median ≈ 0.1%), and gender was missing for a median of 11.9% of students (range: 10.5%–13.4%).

Disability Status. Students identified with a disability constituted a median of 7.6% of cells (range: 6.3%–9.4%), while 37.8% (range: 34.9%–40.4%) were coded as not having a disability. A sizable portion of records carried "Unknown" disability status (median ≈ 30.9%, range: 28.4%–33.1%) or had missing values (median ≈ 23.7%, range: 21.1%–26.5%), reflecting variability in how districts in the source data recorded this field.

Ethnicity. Where ethnicity was reported, approximately 11%–13% of students in each cell were identified as Hispanic/Latino (median ≈ 11.6%) and 28%–30% as Not Hispanic/Latino (median ≈ 28.6%). However, ethnicity was missing for most records (median ≈ 54.8%, range: 52.1%–57.3%), with an additional ~5% coded as "Unknown."

Race. Reported race categories showed White students as the largest identified group (median ≈ 27%, range: 24%–30%), followed by much smaller proportions identified as Black or African American, Asian, American Indian or

Alaskan Native, Native Hawaiian or Other Pacific Islander, or Two or more races (each typically under 5%). As with ethnicity, race was missing for approximately half of records in most cells.

English Language Learner (ELL) status. A median of about 8%–10% of students were identified as ELL, while the majority were coded as non-ELL. ELL status also carried substantial "Unknown" and "Missing" categories, mirroring the pattern seen for disability and ethnicity.

Caveat regarding missingness: High rates of "Missing" and "Unknown" values exist for disability, ethnicity, race, and ELL status (typically 20%–55% combined, depending on the variable) reflect district-level variation in demographic reporting practices within the source data rather than true non-response by students. Readers should interpret the percentages above as descriptive of the reporting students and exercise appropriate caution when drawing inferences about the full sample composition

Table 9.

Descriptive Statistics

Grade	Measure	Count	Average	SD	Median	Min	Max	Skew	Kurtosis
K	fall_ln	12,223	20.39	15.08	18.00	0.00	100.00	0.66	0.19
K	fall_ls	13,249	7.86	9.28	5.00	0.00	100.00	1.76	4.83
K	fall_ps	12,005	8.02	10.68	4.00	0.00	70.00	1.87	3.93
K	fall_composite	13,320	0.00	0.86	-0.20	-1.35	7.60	1.30	2.57
K	winter_ls	12,420	22.29	13.04	23.00	0.00	94.00	0.24	-0.14
K	winter_ps	12,046	24.60	16.39	25.00	0.00	72.00	0.22	-0.88
K	winter_wrf	10,891	7.59	11.36	4.00	0.00	60.00	3.06	9.64
K	winter_composite	12,499	-0.01	0.84	-0.05	-1.71	4.61	0.61	0.61
K	spring_ls	12,449	33.45	15.00	35.00	0.00	110.00	0.10	0.58
K	spring_ps	12,327	36.51	17.10	38.00	0.00	72.00	-0.29	-0.49
K	spring_wrf	11,145	15.30	14.85	11.00	0.00	60.00	1.65	2.15
K	spring_composite	12,523	-0.00	0.85	0.02	-2.23	3.53	0.05	-0.06
1	fall_ls	13,202	28.14	13.42	29.00	0.00	105.00	0.13	0.27
1	fall_ps	12,591	31.73	16.51	33.00	0.00	70.00	-0.14	-0.61
1	fall_wrf	13,388	18.15	20.51	9.00	0.00	120.00	1.47	1.46
1	fall_composite	13,632	-0.01	0.83	-0.03	-2.10	5.73	0.30	0.19
1	winter_ls	11,326	40.19	15.20	40.00	0.00	110.00	0.04	0.68
1	winter_wrf	12,018	27.51	23.58	19.00	0.00	120.00	1.05	0.22
1	winter_prf	11,890	36.87	39.02	19.00	0.00	234.00	1.36	1.22
1	winter_composite	12,329	-0.01	0.88	-0.20	-2.64	3.45	0.73	0.23
1	spring_ls	11,559	44.37	15.67	44.00	0.00	110.00	-0.03	0.68
1	spring_wrf	12,144	40.57	26.70	36.00	0.00	120.00	0.42	-0.82
1	spring_prf	12,078	54.72	44.34	44.00	0.00	251.00	0.85	0.23
1	spring_composite	12,452	-0.01	0.87	-0.06	-2.77	3.40	0.27	-0.24
2	fall_prf	14,379	56.23	40.74	51.00	0.00	254.00	0.78	0.39
2	fall_vocab	10,789	7.94	3.52	9.00	0.00	12.00	-0.36	-1.21
2	fall_mcrc	10,841	6.39	2.85	6.00	0.00	12.00	-0.02	-0.71
2	fall_composite	14,861	-0.03	0.91	-0.11	-2.25	4.86	0.34	-0.52
2	winter_prf	12,341	67.69	41.74	68.00	0.00	245.00	0.29	-0.50
2	winter_vocab	10,523	9.37	3.16	11.00	0.00	12.00	-1.08	-0.06
2	winter_mcrc	10,532	7.66	3.06	8.00	0.00	12.00	-0.51	-0.72
2	winter_composite	14,261	-0.02	0.93	0.17	-2.74	4.10	-0.28	-0.76
2	spring_prf	13,066	86.39	47.53	90.00	0.00	256.00	0.08	-0.57
2	spring_vocab	10,552	9.82	2.89	11.00	0.00	12.00	-1.36	0.80
2	spring_mcrc	10,721	8.24	3.01	9.00	0.00	12.00	-0.62	-0.62
2	spring_composite	14,077	-0.03	0.92	0.18	-3.40	3.57	-0.48	-0.52
3	fall_prf	13,741	76.63	42.65	76.00	0.00	253.00	0.30	-0.32

3	fall_vocab	10,029	14.25	4.56	16.00	0.00	20.00	-0.79	-0.37
3	fall_mcrc	10,185	10.32	4.07	10.00	0.00	20.00	-0.05	-0.69
3	fall_composite	14,638	-0.03	0.92	0.03	-3.12	3.53	-0.03	-0.58
3	winter_prf	12,377	103.80	49.41	104.00	0.00	260.00	0.02	-0.35
3	winter_vocab	9,755	15.43	4.22	17.00	0.00	20.00	-1.15	0.56
3	winter_mcrc	9,951	10.10	3.21	10.00	0.00	19.00	-0.17	-0.33
3	winter_composite	13,730	-0.03	0.91	0.06	-3.40	2.82	-0.32	-0.31
3	spring_prf	12,311	103.00	48.63	103.00	0.00	254.00	0.05	-0.33
3	spring_vocab	9,716	16.15	3.77	17.00	0.00	20.00	-1.48	1.67
3	spring_mcrc	9,918	12.59	4.31	13.00	0.00	20.00	-0.31	-0.81
3	spring_composite	13,553	-0.01	0.92	0.12	-3.60	3.11	-0.44	-0.24
4	fall_prf	15,660	102.21	42.70	103.00	0.00	266.00	-0.10	0.25
4	fall_vocab	11,432	15.26	4.20	17.00	0.00	20.00	-1.00	0.22
4	fall_mcrc	11,665	11.41	4.33	11.00	0.00	20.00	-0.03	-0.90
4	fall_composite	16,412	-0.02	0.93	0.04	-3.02	3.72	-0.31	-0.17
4	winter_prf	13,390	121.73	45.06	126.00	0.00	274.00	-0.38	0.22
4	winter_vocab	10,812	16.08	3.76	17.00	0.00	20.00	-1.32	1.40
4	winter_mcrc	11,039	12.64	4.04	13.00	0.00	20.00	-0.41	-0.65
4	winter_composite	15,463	-0.00	0.92	0.15	-3.70	2.96	-0.66	0.22
4	spring_prf	14,115	128.76	48.25	132.00	0.00	264.00	-0.28	-0.05
4	spring_vocab	10,888	16.36	3.68	17.00	0.00	20.00	-1.35	1.47
4	spring_mcrc	11,051	12.62	4.12	13.00	0.00	20.00	-0.45	-0.71
4	spring_composite	15,345	-0.01	0.93	0.13	-4.17	2.64	-0.64	0.16
5	fall_prf	15,532	136.81	50.01	140.00	0.00	268.00	-0.48	0.25
5	fall_vocab	11,546	15.59	3.81	17.00	0.00	20.00	-1.22	0.91
5	fall_mcrc	11,876	13.10	3.77	14.00	0.00	20.00	-0.78	-0.05
5	fall_composite	16,719	-0.03	0.94	0.18	-3.57	2.36	-0.77	0.24
5	winter_prf	12,726	142.92	49.71	146.00	0.00	274.00	-0.35	0.18
5	winter_vocab	10,820	15.92	3.60	17.00	0.00	20.00	-1.32	1.45
5	winter_mcrc	11,148	14.65	4.09	16.00	0.00	20.00	-0.90	-0.02
5	winter_composite	15,033	-0.02	0.93	0.17	-4.00	2.25	-0.81	0.40
5	spring_prf	13,425	156.68	48.68	162.00	0.00	273.00	-0.52	0.42
5	spring_vocab	10,732	16.09	3.44	17.00	0.00	20.00	-1.45	1.96
5	spring_mcrc	10,927	13.41	3.67	14.00	0.00	20.00	-0.94	0.15
5	spring_composite	14,931	-0.03	0.93	0.18	-4.68	2.33	-0.93	0.72
6	fall_prf	12,745	134.51	46.14	137.00	0.00	299.00	-0.26	0.29
6	fall_vocab	13,812	16.32	3.53	17.00	0.00	20.00	-1.52	1.97
6	fall_mcrc	14,831	13.78	3.58	15.00	0.00	20.00	-0.93	0.38
6	fall_composite	17,075	-0.03	0.92	0.19	-4.06	2.92	-0.99	0.68
6	winter_prf	9,863	144.48	48.25	150.00	0.00	297.00	-0.32	0.09
6	winter_vocab	12,827	16.35	3.65	17.00	0.00	20.00	-1.48	1.86
6	winter_mcrc	13,231	12.96	3.51	14.00	0.00	20.00	-0.70	-0.06
6	winter_composite	14,843	-0.04	0.91	0.18	-3.94	2.91	-0.88	0.41
6	spring_prf	9,909	152.96	53.17	156.00	0.00	299.00	-0.26	-0.04
6	spring_vocab	11,901	16.79	3.60	18.00	0.00	20.00	-1.64	2.37
6	spring_mcrc	13,128	13.47	3.87	14.00	0.00	20.00	-0.74	-0.17
6	spring_composite	14,741	-0.02	0.92	0.20	-4.10	2.71	-0.93	0.48
7	fall_prf	11,341	145.01	43.14	147.00	0.00	299.00	-0.41	0.83
7	fall_vocab	12,904	16.52	3.54	18.00	0.00	20.00	-1.49	1.92
7	fall_mcrc	14,111	13.01	3.79	14.00	0.00	20.00	-0.53	-0.45
7	fall_composite	16,298	-0.05	0.93	0.14	-4.02	2.85	-0.87	0.57
7	winter_prf	8,271	155.36	49.08	158.00	0.00	300.00	-0.27	0.28
7	winter_vocab	11,254	16.55	3.35	17.00	0.00	20.00	-1.52	2.24

7	winter_mcrc	11,979	13.58	3.73	15.00	0.00	20.00	-0.91	0.07
7	winter_composite	13,478	-0.04	0.92	0.18	-4.95	2.93	-0.98	0.62
7	spring_prf	8,713	149.33	46.77	152.00	0.00	297.00	-0.35	0.28
7	spring_vocab	10,929	16.37	3.46	17.00	0.00	20.00	-1.37	1.56
7	spring_mcrc	12,367	11.23	3.32	12.00	0.00	20.00	-0.31	-0.50
7	spring_composite	13,870	-0.03	0.90	0.13	-3.86	3.16	-0.67	0.16
8	fall_prf	11,834	160.28	47.15	162.00	0.00	298.00	-0.57	0.98
8	fall_vocab	13,058	16.40	3.64	18.00	0.00	20.00	-1.40	1.57
8	fall_mcrc	14,641	12.76	3.85	14.00	0.00	20.00	-0.53	-0.57
8	fall_composite	16,775	-0.04	0.92	0.13	-3.96	2.92	-0.85	0.50
8	winter_prf	9,085	145.20	48.75	146.00	0.00	300.00	-0.28	0.21
8	winter_vocab	11,117	16.35	3.52	17.00	0.00	20.00	-1.50	2.08
8	winter_mcrc	12,446	11.92	3.53	12.00	0.00	20.00	-0.43	-0.45
8	winter_composite	13,971	-0.04	0.90	0.12	-4.07	2.83	-0.76	0.34
8	spring_prf	9,092	151.30	45.21	155.00	0.00	300.00	-0.37	0.53
8	spring_vocab	11,200	16.87	3.68	18.00	0.00	20.00	-1.69	2.50
8	spring_mcrc	12,346	11.76	3.64	12.00	0.00	20.00	-0.47	-0.49
8	spring_composite	13,789	-0.04	0.90	0.15	-3.76	3.22	-0.83	0.41

Table 10.

Demographic Summary (Long Format)

Grade	Season	N Students in cell	Variable	Category	N	Percent
K	Fall	13320	gender	F	5716	42.9
K	Fall	13320	gender	M	6009	45.1
K	Fall	13320	gender	X	8	0.1
K	Fall	13320	gender	Missing	1587	11.9
K	Fall	13320	disability	Y	1014	7.6
K	Fall	13320	disability	N	5034	37.8
K	Fall	13320	disability	Unknown	4121	30.9
K	Fall	13320	disability	Missing	3151	23.7
K	Fall	13320	ethnicity	Hispanic/Latino	1541	11.6
K	Fall	13320	ethnicity	Not Hispanic/Latino	3811	28.6
K	Fall	13320	ethnicity	Unknown	670	5.0
K	Fall	13320	ethnicity	Missing	7298	54.8
K	Fall	13320	race	White	3303	24.8
K	Fall	13320	race	Black or African American	1796	13.5
K	Fall	13320	race	Asian	506	3.8
K	Fall	13320	race	American Indian or Alaskan Native	11	0.1
K	Fall	13320	race	Native Hawaiian or Other Pacific Islander	5	0.0
K	Fall	13320	race	Two or more races	228	1.7
K	Fall	13320	race	Unknown	398	3.0
K	Fall	13320	race	Missing	7073	53.1
K	Fall	13320	ell	Y	438	3.3
K	Fall	13320	ell	N	5446	40.9
K	Fall	13320	ell	Unknown	4121	30.9
K	Fall	13320	ell	Missing	3315	24.9
K	Winter	12499	gender	F	5279	42.2
K	Winter	12499	gender	M	5614	44.9
K	Winter	12499	gender	X	8	0.1
K	Winter	12499	gender	Missing	1598	12.8
K	Winter	12499	disability	Y	1044	8.4

K	Winter	12499	disability	N	4805	38.4
K	Winter	12499	disability	Unknown	3551	28.4
K	Winter	12499	disability	Missing	3099	24.8
K	Winter	12499	ethnicity	Hispanic/Latino	1220	9.8
K	Winter	12499	ethnicity	Not Hispanic/Latino	3572	28.6
K	Winter	12499	ethnicity	Unknown	703	5.6
K	Winter	12499	ethnicity	Missing	7004	56.0
K	Winter	12499	race	White	3337	26.7
K	Winter	12499	race	Black or African American	1728	13.8
K	Winter	12499	race	Asian	474	3.8
K	Winter	12499	race	American Indian or Alaskan Native	16	0.1
K	Winter	12499	race	Native Hawaiian or Other Pacific Islander	6	0.0
K	Winter	12499	race	Two or more races	237	1.9
K	Winter	12499	race	Unknown	378	3.0
K	Winter	12499	race	Missing	6323	50.6
K	Winter	12499	ell	Y	434	3.5
K	Winter	12499	ell	N	5241	41.9
K	Winter	12499	ell	Unknown	3551	28.4
K	Winter	12499	ell	Missing	3273	26.2
K	Spring	12523	gender	F	5336	42.6
K	Spring	12523	gender	M	5605	44.8
K	Spring	12523	gender	X	8	0.1
K	Spring	12523	gender	Missing	1574	12.6
K	Spring	12523	disability	Y	1056	8.4
K	Spring	12523	disability	N	4812	38.4
K	Spring	12523	disability	Unknown	3356	26.8
K	Spring	12523	disability	Missing	3299	26.3
K	Spring	12523	ethnicity	Hispanic/Latino	1236	9.9
K	Spring	12523	ethnicity	Not Hispanic/Latino	3426	27.4
K	Spring	12523	ethnicity	Unknown	695	5.5
K	Spring	12523	ethnicity	Missing	7166	57.2
K	Spring	12523	race	White	3343	26.7
K	Spring	12523	race	Black or African American	1716	13.7

K	Spring	12523	race	Asian	495	4.0
K	Spring	12523	race	American Indian or Alaskan Native	15	0.1
K	Spring	12523	race	Native Hawaiian or Other Pacific Islander	7	0.1
K	Spring	12523	race	Two or more races	236	1.9
K	Spring	12523	race	Unknown	358	2.9
K	Spring	12523	race	Missing	6353	50.7
K	Spring	12523	ell	Y	452	3.6
K	Spring	12523	ell	N	5246	41.9
K	Spring	12523	ell	Unknown	3356	26.8
K	Spring	12523	ell	Missing	3469	27.7
1	Fall	13632	gender	F	5799	42.5
1	Fall	13632	gender	M	6081	44.6
1	Fall	13632	gender	X	2	0.0
1	Fall	13632	gender	Unknown	9	0.1
1	Fall	13632	gender	Missing	1741	12.8
1	Fall	13632	disability	Y	1179	8.6
1	Fall	13632	disability	N	5709	41.9
1	Fall	13632	disability	Unknown	3486	25.6
1	Fall	13632	disability	Missing	3258	23.9
1	Fall	13632	ethnicity	Hispanic/Latino	1250	9.2
1	Fall	13632	ethnicity	Not Hispanic/Latino	3889	28.5
1	Fall	13632	ethnicity	Unknown	698	5.1
1	Fall	13632	ethnicity	Missing	7795	57.2
1	Fall	13632	race	White	3752	27.5
1	Fall	13632	race	Black or African American	2045	15.0
1	Fall	13632	race	Asian	332	2.4
1	Fall	13632	race	American Indian or Alaskan Native	18	0.1
1	Fall	13632	race	Native Hawaiian or Other Pacific Islander	5	0.0
1	Fall	13632	race	Two or more races	244	1.8
1	Fall	13632	race	Unknown	589	4.3
1	Fall	13632	race	Missing	6647	48.8
1	Fall	13632	ell	Y	499	3.7
1	Fall	13632	ell	N	6076	44.6

1	Fall	13632	ell	Unknown	3486	25.6
1	Fall	13632	ell	Missing	3571	26.2
1	Winter	12329	gender	F	5089	41.3
1	Winter	12329	gender	M	5418	43.9
1	Winter	12329	gender	X	20	0.2
1	Winter	12329	gender	Unknown	8	0.1
1	Winter	12329	gender	Missing	1794	14.6
1	Winter	12329	disability	Y	1120	9.1
1	Winter	12329	disability	N	5201	42.2
1	Winter	12329	disability	Unknown	2655	21.5
1	Winter	12329	disability	Missing	3353	27.2
1	Winter	12329	ethnicity	Hispanic/Latino	775	6.3
1	Winter	12329	ethnicity	Not Hispanic/Latino	3227	26.2
1	Winter	12329	ethnicity	Unknown	781	6.3
1	Winter	12329	ethnicity	Missing	7546	61.2
1	Winter	12329	race	White	3626	29.4
1	Winter	12329	race	Black or African American	1819	14.8
1	Winter	12329	race	Asian	291	2.4
1	Winter	12329	race	American Indian or Alaskan Native	18	0.1
1	Winter	12329	race	Native Hawaiian or Other Pacific Islander	3	0.0
1	Winter	12329	race	Two or more races	247	2.0
1	Winter	12329	race	Unknown	487	4.0
1	Winter	12329	race	Missing	5838	47.4
1	Winter	12329	ell	Y	450	3.6
1	Winter	12329	ell	N	5766	46.8
1	Winter	12329	ell	Unknown	2655	21.5
1	Winter	12329	ell	Missing	3458	28.0
1	Spring	12452	gender	F	5169	41.5
1	Spring	12452	gender	M	5471	43.9
1	Spring	12452	gender	X	22	0.2
1	Spring	12452	gender	Unknown	8	0.1
1	Spring	12452	gender	Missing	1782	14.3
1	Spring	12452	disability	Y	1138	9.1

1	Spring	12452	disability	N	5252	42.2
1	Spring	12452	disability	Unknown	2577	20.7
1	Spring	12452	disability	Missing	3485	28.0
1	Spring	12452	ethnicity	Hispanic/Latino	858	6.9
1	Spring	12452	ethnicity	Not Hispanic/Latino	3150	25.3
1	Spring	12452	ethnicity	Unknown	765	6.1
1	Spring	12452	ethnicity	Missing	7679	61.7
1	Spring	12452	race	White	3641	29.2
1	Spring	12452	race	Black or African American	1798	14.4
1	Spring	12452	race	Asian	309	2.5
1	Spring	12452	race	American Indian or Alaskan Native	16	0.1
1	Spring	12452	race	Native Hawaiian or Other Pacific Islander	3	0.0
1	Spring	12452	race	Two or more races	247	2.0
1	Spring	12452	race	Unknown	478	3.8
1	Spring	12452	race	Missing	5960	47.9
1	Spring	12452	ell	Y	460	3.7
1	Spring	12452	ell	N	5764	46.3
1	Spring	12452	ell	Unknown	2577	20.7
1	Spring	12452	ell	Missing	3651	29.3
2	Fall	14863	gender	F	6160	41.4
2	Fall	14863	gender	M	6692	45.0
2	Fall	14863	gender	X	22	0.1
2	Fall	14863	gender	Unknown	9	0.1
2	Fall	14863	gender	Missing	1980	13.3
2	Fall	14863	disability	Y	1387	9.3
2	Fall	14863	disability	N	5927	39.9
2	Fall	14863	disability	Unknown	3837	25.8
2	Fall	14863	disability	Missing	3712	25.0
2	Fall	14863	ethnicity	Hispanic/Latino	1157	7.8
2	Fall	14863	ethnicity	Not Hispanic/Latino	4368	29.4
2	Fall	14863	ethnicity	Unknown	788	5.3
2	Fall	14863	ethnicity	Missing	8550	57.5
2	Fall	14863	race	White	3905	26.3

2	Fall	14863	race	Black or African American	1818	12.2
2	Fall	14863	race	Asian	343	2.3
2	Fall	14863	race	American Indian or Alaskan Native	13	0.1
2	Fall	14863	race	Native Hawaiian or Other Pacific Islander	16	0.1
2	Fall	14863	race	Two or more races	184	1.2
2	Fall	14863	race	Unknown	632	4.3
2	Fall	14863	race	Missing	7952	53.5
2	Fall	14863	ell	Y	485	3.3
2	Fall	14863	ell	N	5805	39.1
2	Fall	14863	ell	Unknown	3837	25.8
2	Fall	14863	ell	Missing	4736	31.9
2	Winter	14261	gender	F	5765	40.4
2	Winter	14261	gender	M	6245	43.8
2	Winter	14261	gender	X	2	0.0
2	Winter	14261	gender	Unknown	8	0.1
2	Winter	14261	gender	Missing	2241	15.7
2	Winter	14261	disability	Y	1376	9.6
2	Winter	14261	disability	N	5642	39.6
2	Winter	14261	disability	Unknown	3248	22.8
2	Winter	14261	disability	Missing	3995	28.0
2	Winter	14261	ethnicity	Hispanic/Latino	890	6.2
2	Winter	14261	ethnicity	Not Hispanic/Latino	3863	27.1
2	Winter	14261	ethnicity	Unknown	853	6.0
2	Winter	14261	ethnicity	Missing	8655	60.7
2	Winter	14261	race	White	3805	26.7
2	Winter	14261	race	Black or African American	1576	11.1
2	Winter	14261	race	Asian	309	2.2
2	Winter	14261	race	American Indian or Alaskan Native	14	0.1
2	Winter	14261	race	Native Hawaiian or Other Pacific Islander	12	0.1
2	Winter	14261	race	Two or more races	174	1.2
2	Winter	14261	race	Unknown	525	3.7
2	Winter	14261	race	Missing	7846	55.0
2	Winter	14261	ell	Y	474	3.3

2	Winter	14261	ell	N	5663	39.7
2	Winter	14261	ell	Unknown	3251	22.8
2	Winter	14261	ell	Missing	4873	34.2
2	Spring	14077	gender	F	5705	40.5
2	Spring	14077	gender	M	6237	44.3
2	Spring	14077	gender	X	2	0.0
2	Spring	14077	gender	Unknown	8	0.1
2	Spring	14077	gender	Missing	2125	15.1
2	Spring	14077	disability	Y	1373	9.8
2	Spring	14077	disability	N	5709	40.6
2	Spring	14077	disability	Unknown	3208	22.8
2	Spring	14077	disability	Missing	3787	26.9
2	Spring	14077	ethnicity	Hispanic/Latino	984	7.0
2	Spring	14077	ethnicity	Not Hispanic/Latino	3761	26.7
2	Spring	14077	ethnicity	Unknown	836	5.9
2	Spring	14077	ethnicity	Missing	8496	60.4
2	Spring	14077	race	White	3853	27.4
2	Spring	14077	race	Black or African American	1555	11.0
2	Spring	14077	race	Asian	319	2.3
2	Spring	14077	race	American Indian or Alaskan Native	13	0.1
2	Spring	14077	race	Native Hawaiian or Other Pacific Islander	12	0.1
2	Spring	14077	race	Two or more races	175	1.2
2	Spring	14077	race	Unknown	512	3.6
2	Spring	14077	race	Missing	7638	54.3
2	Spring	14077	ell	Y	480	3.4
2	Spring	14077	ell	N	5642	40.1
2	Spring	14077	ell	Unknown	3210	22.8
2	Spring	14077	ell	Missing	4745	33.7
3	Fall	14638	gender	F	6024	41.2
3	Fall	14638	gender	M	6433	43.9
3	Fall	14638	gender	X	5	0.0
3	Fall	14638	gender	Unknown	6	0.0
3	Fall	14638	gender	Missing	2170	14.8

3	Fall	14638	disability	Y	1590	10.9
3	Fall	14638	disability	N	5485	37.5
3	Fall	14638	disability	Unknown	4051	27.7
3	Fall	14638	disability	Missing	3512	24.0
3	Fall	14638	ethnicity	Hispanic/Latino	1266	8.6
3	Fall	14638	ethnicity	Not Hispanic/Latino	4829	33.0
3	Fall	14638	ethnicity	Unknown	847	5.8
3	Fall	14638	ethnicity	Missing	7696	52.6
3	Fall	14638	race	White	4223	28.8
3	Fall	14638	race	Black or African American	1886	12.9
3	Fall	14638	race	Asian	345	2.4
3	Fall	14638	race	American Indian or Alaskan Native	14	0.1
3	Fall	14638	race	Native Hawaiian or Other Pacific Islander	3	0.0
3	Fall	14638	race	Two or more races	165	1.1
3	Fall	14638	race	Unknown	658	4.5
3	Fall	14638	race	Missing	7344	50.2
3	Fall	14638	ell	Y	532	3.6
3	Fall	14638	ell	N	5845	39.9
3	Fall	14638	ell	Unknown	4051	27.7
3	Fall	14638	ell	Missing	4210	28.8
3	Winter	13730	gender	F	5531	40.3
3	Winter	13730	gender	M	5882	42.8
3	Winter	13730	gender	X	5	0.0
3	Winter	13730	gender	Unknown	6	0.0
3	Winter	13730	gender	Missing	2306	16.8
3	Winter	13730	disability	Y	1528	11.1
3	Winter	13730	disability	N	5120	37.3
3	Winter	13730	disability	Unknown	3516	25.6
3	Winter	13730	disability	Missing	3566	26.0
3	Winter	13730	ethnicity	Hispanic/Latino	978	7.1
3	Winter	13730	ethnicity	Not Hispanic/Latino	4299	31.3
3	Winter	13730	ethnicity	Unknown	883	6.4
3	Winter	13730	ethnicity	Missing	7570	55.1

3	Winter	13730	race	White	4087	29.8
3	Winter	13730	race	Black or African American	1668	12.1
3	Winter	13730	race	Asian	346	2.5
3	Winter	13730	race	American Indian or Alaskan Native	14	0.1
3	Winter	13730	race	Native Hawaiian or Other Pacific Islander	2	0.0
3	Winter	13730	race	Two or more races	152	1.1
3	Winter	13730	race	Unknown	572	4.2
3	Winter	13730	race	Missing	6889	50.2
3	Winter	13730	ell	Y	487	3.5
3	Winter	13730	ell	N	5645	41.1
3	Winter	13730	ell	Unknown	3516	25.6
3	Winter	13730	ell	Missing	4082	29.7
3	Spring	13553	gender	F	5448	40.2
3	Spring	13553	gender	M	5778	42.6
3	Spring	13553	gender	X	5	0.0
3	Spring	13553	gender	Unknown	6	0.0
3	Spring	13553	gender	Missing	2316	17.1
3	Spring	13553	disability	Y	1528	11.3
3	Spring	13553	disability	N	5283	39.0
3	Spring	13553	disability	Unknown	3242	23.9
3	Spring	13553	disability	Missing	3500	25.8
3	Spring	13553	ethnicity	Hispanic/Latino	1021	7.5
3	Spring	13553	ethnicity	Not Hispanic/Latino	3984	29.4
3	Spring	13553	ethnicity	Unknown	915	6.8
3	Spring	13553	ethnicity	Missing	7633	56.3
3	Spring	13553	race	White	4071	30.0
3	Spring	13553	race	Black or African American	1638	12.1
3	Spring	13553	race	Asian	355	2.6
3	Spring	13553	race	American Indian or Alaskan Native	14	0.1
3	Spring	13553	race	Native Hawaiian or Other Pacific Islander	2	0.0
3	Spring	13553	race	Two or more races	160	1.2
3	Spring	13553	race	Unknown	559	4.1
3	Spring	13553	race	Missing	6754	49.8

3	Spring	13553	ell	Y	506	3.7
3	Spring	13553	ell	N	5708	42.1
3	Spring	13553	ell	Unknown	3242	23.9
3	Spring	13553	ell	Missing	4097	30.2
4	Fall	16412	gender	F	6882	41.9
4	Fall	16412	gender	M	7278	44.3
4	Fall	16412	gender	X	11	0.1
4	Fall	16412	gender	Unknown	9	0.1
4	Fall	16412	gender	Missing	2232	13.6
4	Fall	16412	disability	Y	1794	10.9
4	Fall	16412	disability	N	5730	34.9
4	Fall	16412	disability	Unknown	4028	24.5
4	Fall	16412	disability	Missing	4860	29.6
4	Fall	16412	ethnicity	Hispanic/Latino	1208	7.4
4	Fall	16412	ethnicity	Not Hispanic/Latino	4769	29.1
4	Fall	16412	ethnicity	Unknown	830	5.1
4	Fall	16412	ethnicity	Missing	9605	58.5
4	Fall	16412	race	White	4448	27.1
4	Fall	16412	race	Black or African American	1798	11.0
4	Fall	16412	race	Asian	332	2.0
4	Fall	16412	race	American Indian or Alaskan Native	10	0.1
4	Fall	16412	race	Native Hawaiian or Other Pacific Islander	8	0.0
4	Fall	16412	race	Two or more races	153	0.9
4	Fall	16412	race	Unknown	607	3.7
4	Fall	16412	race	Missing	9056	55.2
4	Fall	16412	ell	Y	552	3.4
4	Fall	16412	ell	N	5910	36.0
4	Fall	16412	ell	Unknown	4028	24.5
4	Fall	16412	ell	Missing	5922	36.1
4	Winter	15463	gender	F	6342	41.0
4	Winter	15463	gender	M	6772	43.8
4	Winter	15463	gender	X	10	0.1
4	Winter	15463	gender	Unknown	8	0.1

4	Winter	15463	gender	Missing	2331	15.1
4	Winter	15463	disability	Y	1726	11.2
4	Winter	15463	disability	N	5353	34.6
4	Winter	15463	disability	Unknown	3472	22.5
4	Winter	15463	disability	Missing	4912	31.8
4	Winter	15463	ethnicity	Hispanic/Latino	971	6.3
4	Winter	15463	ethnicity	Not Hispanic/Latino	4305	27.8
4	Winter	15463	ethnicity	Unknown	826	5.3
4	Winter	15463	ethnicity	Missing	9361	60.5
4	Winter	15463	race	White	4423	28.6
4	Winter	15463	race	Black or African American	1549	10.0
4	Winter	15463	race	Asian	343	2.2
4	Winter	15463	race	American Indian or Alaskan Native	9	0.1
4	Winter	15463	race	Native Hawaiian or Other Pacific Islander	8	0.1
4	Winter	15463	race	Two or more races	118	0.8
4	Winter	15463	race	Unknown	543	3.5
4	Winter	15463	race	Missing	8470	54.8
4	Winter	15463	ell	Y	496	3.2
4	Winter	15463	ell	N	5775	37.3
4	Winter	15463	ell	Unknown	3472	22.5
4	Winter	15463	ell	Missing	5720	37.0
4	Spring	15345	gender	F	6325	41.2
4	Spring	15345	gender	M	6688	43.6
4	Spring	15345	gender	X	10	0.1
4	Spring	15345	gender	Unknown	8	0.1
4	Spring	15345	gender	Missing	2314	15.1
4	Spring	15345	disability	Y	1735	11.3
4	Spring	15345	disability	N	5563	36.3
4	Spring	15345	disability	Unknown	3202	20.9
4	Spring	15345	disability	Missing	4845	31.6
4	Spring	15345	ethnicity	Hispanic/Latino	960	6.3
4	Spring	15345	ethnicity	Not Hispanic/Latino	3889	25.3
4	Spring	15345	ethnicity	Unknown	918	6.0

4	Spring	15345	ethnicity	Missing	9578	62.4
4	Spring	15345	race	White	4377	28.5
4	Spring	15345	race	Black or African American	1421	9.3
4	Spring	15345	race	Asian	342	2.2
4	Spring	15345	race	American Indian or Alaskan Native	11	0.1
4	Spring	15345	race	Native Hawaiian or Other Pacific Islander	6	0.0
4	Spring	15345	race	Two or more races	116	0.8
4	Spring	15345	race	Unknown	520	3.4
4	Spring	15345	race	Missing	8552	55.7
4	Spring	15345	ell	Y	491	3.2
4	Spring	15345	ell	N	5761	37.5
4	Spring	15345	ell	Unknown	3202	20.9
4	Spring	15345	ell	Missing	5891	38.4
5	Fall	16719	gender	F	7170	42.9
5	Fall	16719	gender	M	7396	44.2
5	Fall	16719	gender	X	9	0.1
5	Fall	16719	gender	Unknown	7	0.0
5	Fall	16719	gender	Missing	2137	12.8
5	Fall	16719	disability	Y	1771	10.6
5	Fall	16719	disability	N	5690	34.0
5	Fall	16719	disability	Unknown	4080	24.4
5	Fall	16719	disability	Missing	5178	31.0
5	Fall	16719	ethnicity	Hispanic/Latino	1130	6.8
5	Fall	16719	ethnicity	Not Hispanic/Latino	4655	27.8
5	Fall	16719	ethnicity	Unknown	891	5.3
5	Fall	16719	ethnicity	Missing	10043	60.1
5	Fall	16719	race	White	4447	26.6
5	Fall	16719	race	Black or African American	1759	10.5
5	Fall	16719	race	Asian	331	2.0
5	Fall	16719	race	American Indian or Alaskan Native	16	0.1
5	Fall	16719	race	Native Hawaiian or Other Pacific Islander	8	0.0
5	Fall	16719	race	Two or more races	129	0.8

5	Fall	16719	race	Unknown	619	3.7
5	Fall	16719	race	Missing	9410	56.3
5	Fall	16719	ell	Y	466	2.8
5	Fall	16719	ell	N	5959	35.6
5	Fall	16719	ell	Unknown	4080	24.4
5	Fall	16719	ell	Missing	6214	37.2
5	Winter	15033	gender	F	6291	41.8
5	Winter	15033	gender	M	6553	43.6
5	Winter	15033	gender	X	9	0.1
5	Winter	15033	gender	Unknown	12	0.1
5	Winter	15033	gender	Missing	2168	14.4
5	Winter	15033	disability	Y	1645	10.9
5	Winter	15033	disability	N	5082	33.8
5	Winter	15033	disability	Unknown	3343	22.2
5	Winter	15033	disability	Missing	4963	33.0
5	Winter	15033	ethnicity	Hispanic/Latino	817	5.4
5	Winter	15033	ethnicity	Not Hispanic/Latino	3905	26.0
5	Winter	15033	ethnicity	Unknown	990	6.6
5	Winter	15033	ethnicity	Missing	9321	62.0
5	Winter	15033	race	White	4264	28.4
5	Winter	15033	race	Black or African American	1500	10.0
5	Winter	15033	race	Asian	293	1.9
5	Winter	15033	race	American Indian or Alaskan Native	17	0.1
5	Winter	15033	race	Native Hawaiian or Other Pacific Islander	5	0.0
5	Winter	15033	race	Two or more races	124	0.8
5	Winter	15033	race	Unknown	521	3.5
5	Winter	15033	race	Missing	8309	55.3
5	Winter	15033	ell	Y	419	2.8
5	Winter	15033	ell	N	5601	37.3
5	Winter	15033	ell	Unknown	3343	22.2
5	Winter	15033	ell	Missing	5670	37.7
5	Spring	14931	gender	F	6305	42.2
5	Spring	14931	gender	M	6554	43.9

5	Spring	14931	gender	X	10	0.1
5	Spring	14931	gender	Unknown	8	0.1
5	Spring	14931	gender	Missing	2054	13.8
5	Spring	14931	disability	Y	1645	11.0
5	Spring	14931	disability	N	5178	34.7
5	Spring	14931	disability	Unknown	3158	21.2
5	Spring	14931	disability	Missing	4950	33.2
5	Spring	14931	ethnicity	Hispanic/Latino	916	6.1
5	Spring	14931	ethnicity	Not Hispanic/Latino	3673	24.6
5	Spring	14931	ethnicity	Unknown	958	6.4
5	Spring	14931	ethnicity	Missing	9384	62.8
5	Spring	14931	race	White	4157	27.8
5	Spring	14931	race	Black or African American	1422	9.5
5	Spring	14931	race	Asian	288	1.9
5	Spring	14931	race	American Indian or Alaskan Native	16	0.1
5	Spring	14931	race	Native Hawaiian or Other Pacific Islander	6	0.0
5	Spring	14931	race	Two or more races	125	0.8
5	Spring	14931	race	Unknown	493	3.3
5	Spring	14931	race	Missing	8424	56.4
5	Spring	14931	ell	Y	421	2.8
5	Spring	14931	ell	N	5473	36.7
5	Spring	14931	ell	Unknown	3158	21.2
5	Spring	14931	ell	Missing	5879	39.4
6	Fall	17076	gender	F	7495	43.9
6	Fall	17076	gender	M	8072	47.3
6	Fall	17076	gender	X	16	0.1
6	Fall	17076	gender	Unknown	49	0.3
6	Fall	17076	gender	Missing	1444	8.5
6	Fall	17076	disability	Y	2161	12.7
6	Fall	17076	disability	N	8078	47.3
6	Fall	17076	disability	Unknown	2543	14.9
6	Fall	17076	disability	Missing	4294	25.1
6	Fall	17076	ethnicity	Hispanic/Latino	1775	10.4

6	Fall	17076	ethnicity	Not Hispanic/Latino	6735	39.4
6	Fall	17076	ethnicity	Unknown	205	1.2
6	Fall	17076	ethnicity	Missing	8361	49.0
6	Fall	17076	race	White	7050	41.3
6	Fall	17076	race	Black or African American	1402	8.2
6	Fall	17076	race	Asian	577	3.4
6	Fall	17076	race	American Indian or Alaskan Native	38	0.2
6	Fall	17076	race	Native Hawaiian or Other Pacific Islander	26	0.2
6	Fall	17076	race	Two or more races	20	0.1
6	Fall	17076	race	Unknown	365	2.1
6	Fall	17076	race	Missing	7598	44.5
6	Fall	17076	ell	Y	876	5.1
6	Fall	17076	ell	N	8160	47.8
6	Fall	17076	ell	Unknown	2543	14.9
6	Fall	17076	ell	Missing	5497	32.2
6	Winter	14844	gender	F	6465	43.6
6	Winter	14844	gender	M	6977	47.0
6	Winter	14844	gender	X	8	0.1
6	Winter	14844	gender	Unknown	45	0.3
6	Winter	14844	gender	Missing	1349	9.1
6	Winter	14844	disability	Y	2055	13.8
6	Winter	14844	disability	N	7619	51.3
6	Winter	14844	disability	Unknown	1951	13.1
6	Winter	14844	disability	Missing	3219	21.7
6	Winter	14844	ethnicity	Hispanic/Latino	1596	10.8
6	Winter	14844	ethnicity	Not Hispanic/Latino	6077	40.9
6	Winter	14844	ethnicity	Unknown	231	1.6
6	Winter	14844	ethnicity	Missing	6940	46.8
6	Winter	14844	race	White	6184	41.7
6	Winter	14844	race	Black or African American	1205	8.1
6	Winter	14844	race	Asian	501	3.4
6	Winter	14844	race	American Indian or Alaskan Native	37	0.2
6	Winter	14844	race	Native Hawaiian or Other Pacific Islander	27	0.2

6	Winter	14844	race	Two or more races	20	0.1
6	Winter	14844	race	Unknown	337	2.3
6	Winter	14844	race	Missing	6533	44.0
6	Winter	14844	ell	Y	834	5.6
6	Winter	14844	ell	N	7685	51.8
6	Winter	14844	ell	Unknown	1951	13.1
6	Winter	14844	ell	Missing	4374	29.5
6	Spring	14741	gender	F	6502	44.1
6	Spring	14741	gender	M	6895	46.8
6	Spring	14741	gender	X	12	0.1
6	Spring	14741	gender	Unknown	40	0.3
6	Spring	14741	gender	Missing	1292	8.8
6	Spring	14741	disability	Y	1879	12.7
6	Spring	14741	disability	N	7363	49.9
6	Spring	14741	disability	Unknown	1829	12.4
6	Spring	14741	disability	Missing	3670	24.9
6	Spring	14741	ethnicity	Hispanic/Latino	1576	10.7
6	Spring	14741	ethnicity	Not Hispanic/Latino	5858	39.7
6	Spring	14741	ethnicity	Unknown	200	1.4
6	Spring	14741	ethnicity	Missing	7107	48.2
6	Spring	14741	race	White	6443	43.7
6	Spring	14741	race	Black or African American	1140	7.7
6	Spring	14741	race	Asian	497	3.4
6	Spring	14741	race	American Indian or Alaskan Native	36	0.2
6	Spring	14741	race	Native Hawaiian or Other Pacific Islander	27	0.2
6	Spring	14741	race	Two or more races	16	0.1
6	Spring	14741	race	Unknown	327	2.2
6	Spring	14741	race	Missing	6255	42.4
6	Spring	14741	ell	Y	811	5.5
6	Spring	14741	ell	N	7322	49.7
6	Spring	14741	ell	Unknown	1829	12.4
6	Spring	14741	ell	Missing	4779	32.4
7	Fall	16299	gender	F	7151	43.9

7	Fall	16299	gender	M	7816	48.0
7	Fall	16299	gender	X	19	0.1
7	Fall	16299	gender	Unknown	41	0.3
7	Fall	16299	gender	Missing	1272	7.8
7	Fall	16299	disability	Y	2193	13.5
7	Fall	16299	disability	N	7852	48.2
7	Fall	16299	disability	Unknown	2343	14.4
7	Fall	16299	disability	Missing	3911	24.0
7	Fall	16299	ethnicity	Hispanic/Latino	1858	11.4
7	Fall	16299	ethnicity	Not Hispanic/Latino	6407	39.3
7	Fall	16299	ethnicity	Unknown	174	1.1
7	Fall	16299	ethnicity	Missing	7860	48.2
7	Fall	16299	race	White	6811	41.8
7	Fall	16299	race	Black or African American	1493	9.2
7	Fall	16299	race	Asian	522	3.2
7	Fall	16299	race	American Indian or Alaskan Native	39	0.2
7	Fall	16299	race	Native Hawaiian or Other Pacific Islander	18	0.1
7	Fall	16299	race	Two or more races	22	0.1
7	Fall	16299	race	Unknown	659	4.0
7	Fall	16299	race	Missing	6735	41.3
7	Fall	16299	ell	Y	823	5.0
7	Fall	16299	ell	N	8253	50.6
7	Fall	16299	ell	Unknown	2345	14.4
7	Fall	16299	ell	Missing	4878	29.9
7	Winter	13478	gender	F	5792	43.0
7	Winter	13478	gender	M	6527	48.4
7	Winter	13478	gender	X	15	0.1
7	Winter	13478	gender	Unknown	40	0.3
7	Winter	13478	gender	Missing	1104	8.2
7	Winter	13478	disability	Y	2061	15.3
7	Winter	13478	disability	N	6962	51.7
7	Winter	13478	disability	Unknown	1555	11.5
7	Winter	13478	disability	Missing	2900	21.5

7	Winter	13478	ethnicity	Hispanic/Latino	1633	12.1
7	Winter	13478	ethnicity	Not Hispanic/Latino	5720	42.4
7	Winter	13478	ethnicity	Unknown	152	1.1
7	Winter	13478	ethnicity	Missing	5973	44.3
7	Winter	13478	race	White	6079	45.1
7	Winter	13478	race	Black or African American	1323	9.8
7	Winter	13478	race	Asian	454	3.4
7	Winter	13478	race	American Indian or Alaskan Native	39	0.3
7	Winter	13478	race	Native Hawaiian or Other Pacific Islander	19	0.1
7	Winter	13478	race	Two or more races	19	0.1
7	Winter	13478	race	Unknown	560	4.2
7	Winter	13478	race	Missing	4985	37.0
7	Winter	13478	ell	Y	792	5.9
7	Winter	13478	ell	N	7618	56.5
7	Winter	13478	ell	Unknown	1557	11.6
7	Winter	13478	ell	Missing	3511	26.0
7	Spring	13870	gender	F	6062	43.7
7	Spring	13870	gender	M	6709	48.4
7	Spring	13870	gender	X	16	0.1
7	Spring	13870	gender	Unknown	33	0.2
7	Spring	13870	gender	Missing	1050	7.6
7	Spring	13870	disability	Y	1906	13.7
7	Spring	13870	disability	N	7319	52.8
7	Spring	13870	disability	Unknown	1342	9.7
7	Spring	13870	disability	Missing	3303	23.8
7	Spring	13870	ethnicity	Hispanic/Latino	1578	11.4
7	Spring	13870	ethnicity	Not Hispanic/Latino	5348	38.6
7	Spring	13870	ethnicity	Unknown	167	1.2
7	Spring	13870	ethnicity	Missing	6777	48.9
7	Spring	13870	race	White	5962	43.0
7	Spring	13870	race	Black or African American	1236	8.9
7	Spring	13870	race	Asian	460	3.3
7	Spring	13870	race	American Indian or Alaskan Native	38	0.3

7	Spring	13870	race	Native Hawaiian or Other Pacific Islander	19	0.1
7	Spring	13870	race	Two or more races	23	0.2
7	Spring	13870	race	Unknown	397	2.9
7	Spring	13870	race	Missing	5735	41.3
7	Spring	13870	ell	Y	832	6.0
7	Spring	13870	ell	N	7426	53.5
7	Spring	13870	ell	Unknown	1343	9.7
7	Spring	13870	ell	Missing	4269	30.8
8	Fall	16779	gender	F	7150	42.6
8	Fall	16779	gender	M	8456	50.4
8	Fall	16779	gender	X	21	0.1
8	Fall	16779	gender	Unknown	37	0.2
8	Fall	16779	gender	Missing	1115	6.6
8	Fall	16779	disability	Y	3117	18.6
8	Fall	16779	disability	N	8086	48.2
8	Fall	16779	disability	Unknown	1951	11.6
8	Fall	16779	disability	Missing	3625	21.6
8	Fall	16779	ethnicity	Hispanic/Latino	2016	12.0
8	Fall	16779	ethnicity	Not Hispanic/Latino	7016	41.8
8	Fall	16779	ethnicity	Unknown	138	0.8
8	Fall	16779	ethnicity	Missing	7609	45.3
8	Fall	16779	race	White	7432	44.3
8	Fall	16779	race	Black or African American	1691	10.1
8	Fall	16779	race	Asian	458	2.7
8	Fall	16779	race	American Indian or Alaskan Native	34	0.2
8	Fall	16779	race	Native Hawaiian or Other Pacific Islander	21	0.1
8	Fall	16779	race	Two or more races	22	0.1
8	Fall	16779	race	Unknown	644	3.8
8	Fall	16779	race	Missing	6477	38.6
8	Fall	16779	ell	Y	985	5.9
8	Fall	16779	ell	N	9301	55.4
8	Fall	16779	ell	Unknown	1951	11.6
8	Fall	16779	ell	Missing	4542	27.1

8	Winter	13971	gender	F	5744	41.1
8	Winter	13971	gender	M	7237	51.8
8	Winter	13971	gender	X	20	0.1
8	Winter	13971	gender	Unknown	33	0.2
8	Winter	13971	gender	Missing	937	6.7
8	Winter	13971	disability	Y	2976	21.3
8	Winter	13971	disability	N	6955	49.8
8	Winter	13971	disability	Unknown	1223	8.8
8	Winter	13971	disability	Missing	2817	20.2
8	Winter	13971	ethnicity	Hispanic/Latino	1796	12.9
8	Winter	13971	ethnicity	Not Hispanic/Latino	6275	44.9
8	Winter	13971	ethnicity	Unknown	136	1.0
8	Winter	13971	ethnicity	Missing	5764	41.3
8	Winter	13971	race	White	6594	47.2
8	Winter	13971	race	Black or African American	1546	11.1
8	Winter	13971	race	Asian	380	2.7
8	Winter	13971	race	American Indian or Alaskan Native	36	0.3
8	Winter	13971	race	Native Hawaiian or Other Pacific Islander	21	0.2
8	Winter	13971	race	Two or more races	28	0.2
8	Winter	13971	race	Unknown	576	4.1
8	Winter	13971	race	Missing	4790	34.3
8	Winter	13971	ell	Y	961	6.9
8	Winter	13971	ell	N	8406	60.2
8	Winter	13971	ell	Unknown	1223	8.8
8	Winter	13971	ell	Missing	3381	24.2
8	Spring	13790	gender	F	5770	41.8
8	Spring	13790	gender	M	6992	50.7
8	Spring	13790	gender	X	15	0.1
8	Spring	13790	gender	Unknown	32	0.2
8	Spring	13790	gender	Missing	981	7.1
8	Spring	13790	disability	Y	2633	19.1
8	Spring	13790	disability	N	7466	54.1
8	Spring	13790	disability	Unknown	897	6.5

8	Spring	13790	disability	Missing	2794	20.3
8	Spring	13790	ethnicity	Hispanic/Latino	1652	12.0
8	Spring	13790	ethnicity	Not Hispanic/Latino	5654	41.0
8	Spring	13790	ethnicity	Unknown	146	1.1
8	Spring	13790	ethnicity	Missing	6338	46.0
8	Spring	13790	race	White	6252	45.3
8	Spring	13790	race	Black or African American	1354	9.8
8	Spring	13790	race	Asian	377	2.7
8	Spring	13790	race	American Indian or Alaskan Native	33	0.2
8	Spring	13790	race	Native Hawaiian or Other Pacific Islander	18	0.1
8	Spring	13790	race	Two or more races	29	0.2
8	Spring	13790	race	Unknown	392	2.8
8	Spring	13790	race	Missing	5335	38.7
8	Spring	13790	ell	Y	958	6.9
8	Spring	13790	ell	N	8120	58.9
8	Spring	13790	ell	Unknown	897	6.5
8	Spring	13790	ell	Missing	3815	27.7

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