Comprehensive English Language Learning Assessment

TECHNICAL SUMMARY REPORT

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Section 1: Overview

The Comprehensive English Language Learning Assessment (CELLA) is a four-modality English language proficiency assessment designed to provide:

- 1. Evidence of program accountability in accordance with Title III of No Child Left Behind (NCLB), which calls for schools and districts to meet state accountability objectives for increasing the English-language proficiency of English Language Learners (ELL).
- 2. Data useful for charting student progress over time and, for newly arrived students, charting progress over the first year.
- 3. Information about the language proficiency levels of individual students that can be used in making decisions regarding placement into, or exit from, ESL or bilingual education programs.
- 4. Diagnostically useful information about individual students' strengths and weaknesses in English (with as much specificity as possible within the limitations of a large-scale standardized test).

Initial development of CELLA was funded by a grant from the U.S. Department of Education. The test was developed by ETS in collaboration with AccountabilityWorks and a consortium of five states: Florida, Maryland, Michigan, Pennsylvania, and Tennessee. The test items included in this assessment are based on the CELLA assessment benchmarks that, in turn, are aligned to the English language development standards of the five consortium states.

This document summarizes the field testing, calibration, and vertical scaling of items used to develop two final test forms for each of four test levels as well as a locator test. Each test level is associated with specific grades and provides assessment in four modalities: Listening, Speaking, Reading, and Writing. Listening and Speaking items were calibrated together on a single vertical scale. In addition, vertical scales for Reading and for Writing were created.

The final forms associated with the four levels of the operational test in the modalities Reading and Writing are designed to be administered to the following grade levels:

- Grades K-2: Level A
- Grades 3–5: Levels A, B
- Grades 6–8: Levels A, B, C
- Grades 9–12: Levels A, B, C, D

The CELLA system implements functional level testing in Reading and Writing based on the results of a brief locator test (to be used primarily with students taking CELLA for the first time—i.e., for whom there is no prior CELLA assessment data). This feature means that an ELL student could be administered any of the four Levels A, B, C, or D depending on his/her level of functioning in English. For example, a high school student in grade 10 could legitimately be administered the Level C test if use of the Level C test would provide a better measure of his/her English skills in Reading and Writing. (Development and appropriate use of the vertical scales and the locator test are described in *Section 7: Vertical Scaling and Section 9: Final Test Forms and the Locator Test.*) The four CELLA levels in Reading and Writing address skills typically required in regular instructional environments (i.e., non-Limited English Proficient or non-LEP) at the following grade levels: Level A (K–2); Level B (3–5); Level C (6–8); Level D (9–12).

The final forms associated with the Speaking and Listening modalities are designed to be administered at the following grade levels:

Grades K–2: Level A

Grades 3–5: Level B

• Grades 6–8: Level C

• Grades 9–12: Level D

There is not the same need to implement functional level testing in these modalities because there is greater content range in these CELLA subtests and because LEP students tend to develop oral language skills at a substantially faster pace than written language skills.

The field test was conducted in the Fall of 2004. Fall performance is more similar to performance in the Spring of the previous grade than to Spring of the same grade; for example, students in the Fall of grade 6 are more similar to students in the Spring of grade 5 than to students in the Spring of grade 6. Accordingly, for the field test, the test levels and their associated grades were as follows:

- Field Test Level A (administered at grades K-3)
- Field Test Level B (administered at grades 4–6)
- Field Test Level C (administered at grades 7–9)
- Field Test Level D (administered at grades 10–12)

The operational CELLA offers users the option of administering the Reading and Writing levels of the CELLA test at grade levels based on the regular instruction (non-LEP) content equivalents: Level A (K-2); Level B (3-5); Level C (6-8); Level D (9-12).

Section 2: Field Test

The field test took place between October 25 and November 8, 2004. This testing window was extended slightly in some instances, because a few schools requested later testing times.

Field Test Participants

Students who participated in the field test came from the five states in the consortium: Florida, Maryland, Michigan, Pennsylvania, and Tennessee. Students in kindergarten through grade 12 were involved.

Each state in the consortium selected field test participants from the population of students in each state who might take CELLA in an operational administration. Each state was asked to select students who reflected the most prevalent foreign languages spoken by ESL students in the state. Also, each state was asked to select students from the full range of proficiency levels.

ETS gave each state in the consortium a list of school districts with a designated number of students per grade level to be recruited. This list was gathered from a national database that identified districts with programs for English Language Learners, described the size of the district, and designated whether the district was classified as rural, urban, or suburban. State coordinators reviewed the list to evaluate whether this list was likely to yield a sample that included the most prevalent languages spoken by ESL

students and would cover the range of proficiency levels of ESL students in the state. Revisions in the list were made where necessary.

A state coordinator worked with the testing coordinator of each district on the final list to select the schools and classrooms/students to participate in the field test. Within each designated school, the district testing coordinator and school principal determined whether to sample intact classrooms or sample individual students. Where possible, existing data describing students' levels of English language proficiency were considered as part of the process of selecting the classrooms/students to participate. Some students included in the field test were those who had been recently reclassified as proficient in English. Table 1 shows the number of students from each state that participated in the field test.

It should be noted that the students included in the CELLA field test were not drawn from the same populations in all grade levels; some schools participating in the study contributed students at only two grade levels, whereas others contributed students at five grade levels. Therefore, at adjacent grade levels there were likely to be some differences in the abilities of the samples tested.

The Tests Administered

Table 2 describes the composition of the field test forms that were administered. As noted previously, Level A field test forms were administered to students in kindergarten through grade 3. Grade 3 students were administered additional Reading and Writing items targeted at their level. (The test forms containing the Level A items plus these additional items were called Level A Extension forms.) Level B field test forms were administered in grades 4, 5, and 6, and Level C forms were administered in grades 7, 8, and 9. Finally, Level D forms were given in grades 10, 11, and 12.

The Listening section consisted of multiple-choice (MC) items and constructed-response (CR) items at Level A; the other Listening levels contained MC items only. The Speaking test consisted of CR items that were individually administered and scored locally by classroom teachers. At Levels A and B, the Reading sections contained CR items and MC items; Levels C and D Reading contained MC items only. Finally, the Level A and A Extension Writing tests contained only CR items, while the Writing tests at Levels B, C, and D contained both MC and CR items. Appendix B provides more details about the skills assessed by each modality. (For consistency with terminology in other CELLA assessment design documents, the term "benchmarks" is used to describe the major skill categories.) Please note that the test blueprint in this appendix refer to the final operational test forms, not the field test forms.

There were three field test forms at each level, from which appropriate items were selected to construct two operational forms. Table 2 shows that the test forms associated with each test level contained unique items, as well as common items that were shared across the other test forms and used to link the forms horizontally. In the three Level A Listening sections, for example, there were 8 MC items and 3 CR items that were unique, which means that these items were not shared across the three forms. In addition there were 7 MC items and 2 CR items that were common to the three forms, which means that all three forms contained these items. These common items were used to link the Level A test forms horizontally. More information about this linking is provided in *Section 6: Item Calibration*.

In addition, Table 2 shows that all three Level A forms of the Listening test contained MC vertical scaling items that were "Level Up." These items were the common items in the Level B Listening tests. The A-to-B vertical linking items for Level B were drawn from the common items in the Level A Listening tests. The function of these vertical linking items was to enable a link to be made between the Level A

and Level B Listening tests. More details about the vertical scaling procedures are provided in *Section 7: Vertical Scaling*.

The Level B test forms in Table 2 that are called B4, B5, and B6 merit a brief discussion. The on-level items contained in these forms were the same items as those appearing in B1, B2, and B3, respectively; only the vertical linking items differed. For example, Table 2 shows that forms B1, B2, and B3 contained a set of vertical linking items from Level A, whereas forms B4, B5, and B6 contained a set of vertical linking items from Level C. Two sets of forms were prepared so that students would respond to only one set of linking items. The six Level C test forms were configured similarly.

For Writing forms B1, B2, and B3 there were no Level A linking items. The link between these levels was based on Level B items in the A Extension forms.

Test Administration Procedures

At each grade level, test forms were spiraled over classrooms or test groups. Students who were administered Level A and A Extension test forms recorded their answers in their test booklets. Students administered test levels B, C, and D recorded their answers on a separate answer sheet. Level A students taking Level B linking items marked their responses in their test booklets; Level B students taking the Level A linking items marked their responses on the separate answer sheet. All test items taken by kindergarten and grade 1 students were individually administered. At all grade levels, the Speaking section was individually administered and teacher scored, with scores recorded on the student answer sheet.

In the field test, the Speaking section also included a pronunciation score. This score did not correspond to any single item; rather it reflected the administrator's judgment of the student's pronunciation based on all items in the Speaking section. The pronunciation score was calibrated, but it was later dropped from the item pool during the data review process.

Testing times varied as a function of test level and the number of individually administered items, but approximate times were: Level A test forms—1 hour and 35 minutes; Level A Extension forms—2 hours and 20 minutes; Level B, C, and D test forms—3 hours and 45 minutes. Test administrators were encouraged to give students additional time if needed.

Section 3: Item Analyses

Item Analyses (IA) were conducted to establish the reasonableness of keys and the reliability of each field test. Summary statistics describing the difficulty, discrimination, and internal consistency of the on-level items that were field tested are given in Table 3. To assess the difficulty of each multiple-choice item, the proportion of students correctly answering the item (called the p-value) was used as the index of item difficulty; for constructed-response items an analogous index consisting of the mean item score divided by the maximum possible item score was used. To assess discrimination, the correlation between students' item scores and their total test scores was used for both item types. To evaluate internal consistency, Cronbach's α was used for the Listening and Reading test sections while a stratified coefficient alpha was used for the Writing and Speaking test sections.

Table 3 provides summary statistics that describe the items in each field test form. In this table, results are combined across grade levels. The results in Table 3 indicate that the three test forms associated with each test level within each modality were very similar in terms of difficulty and discrimination.

©2005, 2010 all rights reserved CELLA is a © of Accountability Works (AW) Developed by *Educational Testing Service (ETS)* The p-values for the Listening items generally were in the low 0.70s on average and their item-test correlations near 0.50 on average. The p-values for the Speaking items also tended to be in the low 0.70s on average, but they had notably higher item-test correlations, probably because there was no guessing on these individually administered items. In general, the Reading items were notably harder than the Listening and Speaking items but similar in item-test correlation, except for the Level A Extension items, which had p-values that were higher and item-test correlations that were slightly lower on average, probably because of the additional MC items they contained. With respect to Writing, the Level A items were very difficult and very discriminating. In the remaining test levels, the items were notably easier and somewhat less highly correlated with the total test score.

Section 4: Raw Score Summary Statistics

Table 4 provides raw score summary statistics by modality, grade, and form for the on-level field test items. Tables 5, 6, and 7 contain cumulative raw score distributions, pooled across forms, for Listening/Speaking, Reading, and Writing, respectively.

Average raw scores generally increase across grades of students administered the same test level, but this is not universally the case. These results are not unexpected for the following reasons. When traditional achievement tests for native-English speakers are administered to samples of students that are controlled to be consistent samples of the same population across grades, scores typically increase as grade level increases. Growth decreases as grade increases, and at high school, growth can be minimal or there can be decreasing scores (probably due to declining student motivation).

With respect to student scores on the CELLA field test forms, expectations of score change over grades are not as clear-cut. First, the field test samples were in the range of about 350 to 425 students per grade and form; these samples were quite adequate for the scaling process when pooled across grades, but they are relatively small for estimating population characteristics by grade. Further, the students included in the CELLA field test were not drawn from the same populations in all grade levels; some schools participating in the study contributed students at only two grade levels, whereas others contributed students at five grade levels. Therefore, at adjacent grade levels there were likely to be differences in the abilities of the samples tested. In addition, there can be immigration trends (e.g., if there are influxes of students to the United States in order to attend high school) that produce expectations of lower scores at some grades. Finally, for tests such as Listening and Speaking, which assess skills learned outside as well as in school, it is not clearly known what bearing grade level has on the acquisition of these skills.

Section 5: Evaluation of Differential Item Functioning

Following the classical item and raw score analyses, a Differential Item Functioning (DIF) study was carried out. One of the goals of test development is to assemble a set of items that provides an estimate of a student's ability that is as fair and accurate as possible for all groups within the population. DIF statistics are used to identify items that function differently for particular subgroups of students (e.g., females versus males); this differential item functioning occurs when students in different subgroups who have the same underlying level of ability have different probabilities of answering the item correctly.

An item that is found to be easier or harder for different subgroups of students having the same ability is flagged as an item that has DIF. Items that are flagged are subsequently reviewed by content experts to see if the experts can identify the source and meaning of the DIF. One possible source is bias, but it is also possible that DIF can occur because there are real differences between the subgroup examinees in the knowledge or skill assessed by a flagged item. Also, it is possible that the flagging is due to a statistical Type I error.

ETS used two statistical DIF detection methods, the Mantel-Haenszel (Mantel & Haenszel, 1959) and the Standardization (Dorans & Holland, 1993) approaches. As part of the Mantel-Haenszel procedure, the statistic described by Holland & Thayer (1988), known as MH D-DIF, is used. This statistic captures the differences between two groups, called the focal and reference groups, after conditioning on total test score.

The standardized mean difference (SMD) is used as an index of severity in conjunction with the MH statistic. The SMD compares the item means of the two studied groups after adjusting for differences in the distribution of members across the values of the matching variable (total test score).

The evaluation of DIF is a two-step procedure that combines the results of the statistical test and the effect size. First, the MH statistic and the SMD are computed for each item. Second, each item is classified into different categories based on its MH statistic and corresponding SMD value. Items that are not statistically significant based on the MH statistic (p>0.01) are considered to have similar performance between the two studied groups; these items are considered to be functioning appropriately. For items where the statistical test indicates significant differences (p<0.01), the SMD is used to determine the direction and severity of the DIF.

Items are classified into one of three categories and assigned values of A, B, or C. Category A items contain negligible DIF, Category B items exhibit slight or moderate DIF, and Category C items have moderate to large values of DIF. For constructed-response items the MH D-DIF is not calculated, but analogous flagging rules based on the chi-square statistic were applied, resulting in classification into A, B, or C DIF categories.

The DIF analyses carried out for CELLA consisted of comparisons between the item performances of male students versus female students. In total, five items were flagged for DIF. These items were reviewed by content experts to determine if the items contained inappropriate content. Three of the items were dropped from the pool, and two of the items were retained in the item pool and used in the final test forms that were subsequently developed.

Section 6: Item Calibration

The items in the field test forms were calibrated using a combination of item response theory models. The three-parameter logistic model was used for multiple-choice items and the generalized partial credit model was used for the constructed-response items. All items were calibrated using the PARSCALE component of ETS' proprietary software, GENASYS.

There were three separate sets of calibrations: Listening/Speaking, Reading, and Writing. The calibrations were carried out by test level, as is shown in Table 8. All forms associated with a given test level were calibrated simultaneously. The common items shared by the forms within a test level served to link the forms so that the resulting parameters for the items in all of the forms calibrated together were expressed on the same scale. All items were successfully calibrated, and none were found to have poor fit.

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Section 7: Vertical Scaling

The items calibrated by test level were placed on a common vertical scale using the test characteristic curve (TCC) method described by Stocking and Lord (1983). This procedure examines the true scores obtained for a set of items that has parameters on both a reference scale and an anchor scale, and finds the linear transformation of the anchor scale item parameters that minimizes the sum of squared differences between the TCCs. This linear transformation is used to transform the item and ability parameters for the test containing the anchor item set so that these parameters are expressed on the same score scale used by the reference item set.

The series of analyses conducted for the vertical scaling is shown in Table 9. The Level B calibrations were chosen to define the base scale of measurement for Listening/Speaking, Reading, and Writing. The forms associated with the other test levels were placed on this scale in sequence. For Listening/Speaking, the Level A calibrations were linked to the Level B scale using the TCC method based on the Level B items embedded in test forms A1, A2, and A3, and the Level A items embedded in test forms B1, B2, and B3. Then, the Level C calibrations were linked to the Level B scale via the Level C items embedded in test forms B4, B5, and B6 and the Level B items embedded in test forms C1, C2, and C3. Finally, the Level D calibrations were linked to the common scale now comprised of Level A, B, and C items via the Level D items included in forms C4, C5, and C6 and the Level C items embedded in test forms D1, D2, and D3. In the case of Reading and Writing, the Level A vertical scaling items used to link Levels A and B were in the Extension forms.

The vertically linked test forms produced parameters expressed in the theta metric. The results on the theta metric were transformed to a 3-digit scale score metric. This transformation enabled scores to be reported in a metric more familiar and comprehensible to typical test users. The particular values of the transformation were selected to produce a scale on which the score distribution for students in the field test who took Level B (excluding those students with scores at or below the chance level or with perfect scores) would have a mean of approximately 700 and a standard deviation of approximately 40. Finally, the lowest obtainable scale scores (LOSS) and highest obtainable scale scores (HOSS) were set for scores at or below the chance level and perfect scores, respectively. The Listening/Speaking scale scores range from a low of 495 for the LOSS for Level A to a high of 835 for the HOSS of Level D. The Reading scale ranges from 345 to 820, and the Writing scale ranges from 515 to 850.

The following paragraphs present information about the vertical scales in terms of test characteristic curves (TCC) and conditional standard errors of measurement (SEMs) for the field test forms.

Figures 1, 2, and 3 display the TCCs for the three scales for the field test forms for Listening/Speaking, Reading, and Writing, respectively. The TCCs show expected proportion-correct scores at each scale score. In general TCCs for alternate forms at the same level tend to be similar. TCCs for higher levels are generally expected to move up the scale—i.e., it is generally expected that students with a given scale score will have a lower expected proportion correct on a higher test level. However, it is not uncommon for disordinalities between levels to occur, especially among higher test levels in the junior and senior high school grades. In general the CELLA field test levels do display ordinality. For Writing, Levels C and D are very similar in difficulty and this similarity carries through to the final test forms.

It is interesting to note that Reading Level A covers a wide range of scale scores, much wider than that seen with Listening/Speaking or Writing. This result reflects the fact that the Level A Reading test covers a very broad set of skills, ranging from identifying letters of the alphabet through reading a passage of several paragraphs and answering questions about it. Thus, students with very low Reading proficiency

can be expected to grow many scale score points during a school year, and as their proficiency increases beyond the very basic skills, expected growth will be much smaller in magnitude. In this case, caution is needed when interpreting growth on Reading Level A as compared to the other Reading levels.

The conditional SEMs of the field test forms appear in Figures 4, 5, and 6 for Listening/Speaking, Reading, and Writing, respectively.

Table 10 provides summary statistics that describe students' field test scale scores by grade. Results are pooled over forms. Cumulative scale score distributions appear in Tables, 11, 12, and 13. Plots of the cumulative distributions of these scale scores are given in Figures 7, 8, and 9.

As discussed in Section 4: Raw Score Summary Statistics, traditional expectations of increasing scores as grade increases cannot necessarily be expected to apply to an English-acquisition assessment or to the data in this field test. It is important to note that when students in successive grades have taken the same test level, disordinality between grades must be attributed to student or skill differences, because the vertical scaling does not affect those results. Vertical scaling can only affect the alignment between test levels, not the ordering of scores within test level.

For the most part, scores on the field tests tended to increase as grade increased, but this was not a universal finding. For example, high school Writing scores did not increase as grade increased, even though those students all took the same test level. Mean scores were particularly susceptible to effects of the proportions of students scoring at the floor (LOSS) of the tests. The Level A Reading and Writing field test forms were particularly difficult for students in the Fall of kindergarten, where 55% to 51% of the students performed at the floor of the test.

As with any vertical scale, care should be used in comparing scale scores that are provided by test levels that differ greatly in difficulty and include substantially different types of test questions. For example, as noted above, Level A Reading scale scores are likely to provide scale score growth and variances that differ from those provided by other Reading test levels.

Section 8: Scale Anchoring

In order to increase the interpretability of the CELLA scale scores, scale anchoring was conducted. This process identified selected scale score anchor values throughout the range of performance. Students who performed near these anchor values on the field test were identified. Based on the performance of these students, items were identified on which these students usually were successful. Content experts reviewed these items and developed behavioral descriptions that highlighted the major behaviors typically evidenced by students at each anchor value. These descriptions can help students, parent, and teachers understand the meaning of student scale scores.¹

The technical details of the scale anchoring process are described in Appendix C.² The Listening/Speaking, Reading, and Writing scales were all designed to be centered at Level B with an average score of approximately 700 and a standard deviation of approximately 40 (when students at the

described here in terms of "anchor points" rather than "benchmarks."

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¹ The scale anchoring process differs from a standard setting process and does not replace it. In standard setting, expert committees are given performance level descriptions (e.g., for Proficient or Advanced performance) and information about test items, and tasked with identifying test performance that is required, according to their judgment, to reach each performance level. ² In the Appendix, the term "benchmark" is used. In order to reduce confusion with other uses of that term, the scale anchoring is

LOSS and HOSS were not included). Based on the general procedure described in Appendix C, and given the characteristics of the three CELLA scales, scale score anchor points were chosen to be at:

Anchor Point 1: 620=700–2x40 Anchor Point 2: 660=700–40

Anchor Point 3: 700

Anchor Point 4: 740=700+40

For Reading and Writing, data were available to define one additional anchor point:

Anchor Point 5: 780=700+2x40

(For Listening/Speaking, there were insufficient numbers of items located near 780 and insufficient numbers of students performing at 780 to define this additional anchor point.)

At each anchor point, students were identified who scored within ± 10 scale score points of the anchor point. Item performance for those students was evaluated. At each anchor point, multiple-choice items were identified for which (a) these students had a proportion correct ≥ 0.74 , and (b) students at the next lower anchor point had a proportion correct of at least .25 lower. Score levels for CR items were identified for which (a) the anchor point students had an expected probability of obtaining that score level or higher of at least 0.65, and (b) students at the next lower anchor point had at least a .25 lower expected probability of obtaining that score level or higher. For a CR item, one score level might qualify for a lower anchor point, and a higher score level from that same item might qualify for a higher anchor point.

Exemplar items and item score levels could come from any field test level contributing to the behavioral description for a particular anchor point. For lower anchor points, most items came from Levels A and B; for the highest anchor points, most items came from Levels C and D. The content experts who developed the behavioral descriptions typically worked with about 20-30 exemplar items per anchor point. If more items than this were available statistically, items were randomly selected to provide the necessary 20–30 items.

The content experts carefully reviewed the exemplar items at each scale anchor point and synthesized the common knowledge or skills that were typically evidenced by students at each anchor point. In addition, the content experts compared the exemplar items in adjacent anchor points to differentiate the level of skills they required. This process was used repeatedly for each vertical scale to capture the progression of skills across the scale.

It should be kept in mind when using the behavioral descriptions that they are conceptual descriptions of typical performance. The actual behaviors evidenced by any given student may vary from these descriptions for three reasons. First, every test score contains measurement error, and students are likely to obtain somewhat different scores on different testing occasions. Second, students who receive the same scale score on the same test form can do so with different patterns of skills. For example, a student who obtains a raw score of 21 (out of 34 possible) on final Reading form A1 Extension will obtain a scale score of 645. Students can obtain a raw score of 21 by getting different types of items correct—not all students who obtain a score of 21 are exactly the same. Third, students who take different test levels interact with different item types. In particular, it should be noted that a small number of Level A students' scale scores may reach Reading and Writing anchor points 4 or 5. These students share characteristics with Level C and D students, but they have not read passages nor answered items that have the same complexity as those appearing in Levels C and D. Caution should be used in interpreting

Level A students' scale scores that reach these high anchor points. Thus, for the reasons presented, the behavioral descriptions for all the scales are generalities that describe typical performance at each anchor point, not necessarily exactly what a given student can do.

The behavioral descriptions for the anchor points are described on the following pages. The percents of students in the field test who reached each anchor point are described in Tables 14, 15, and 16.

LISTENING/SPEAKING

Anchor Point 1 (620)

Students scoring at this point on the scale typically. . .

 demonstrate very limited vocabulary and grammar resources; they can use some basic words but have difficulty producing and understanding basic questions and taking part in even simple exchanges.

Anchor Point 2 (660)

Students scoring at this point on the scale typically. . .

 demonstrate limited vocabulary and grammatical resources; they have command over a basic vocabulary; they can produce and understand basic exchanges, though their limited proficiency often impedes communication.

Anchor Point 3 (700)

Students scoring at this point on the scale typically. . .

• demonstrate adequate vocabulary and grammatical resources; they can communicate effectively (though with some errors) in everyday situations and can generally understand and participate in many classroom activities (e.g., following directions and announcements). They are developing the ability to comprehend grade-level instruction in the content areas; they can do it sometimes, but not consistently.

Anchor Point 4 (740)

Students scoring at this point on the scale typically. . .

demonstrate a solid command of grammar and vocabulary, including common idioms. They can
communicate effectively in everyday and academic situations, can understand and participate in
most classroom activities, and are able to use English to learn new information in the content
areas. They may speak with an accent and make occasional errors, but they are able to
communicate effectively on a range of topics.

READING

Anchor Point 1 (620)

Students scoring at this point on the scale typically. . .

• demonstrate that they are just beginning to read. They understand basic concepts of print (e.g., recognize the directionality of English print), decode short words, and can read most common sight words. They can also read very simple single sentences and respond to questions about their meaning.

Anchor Point 2 (660)

Students scoring at this point on the scale typically. . .

• demonstrate that they are still in the process of "learning to read" but are on the verge of transitioning to being able to "read to learn." They can independently read short passages written in very simple language on a range of topics. They can answer simple, explicit main idea questions and simple, literal detail questions related to these passages.

Anchor Point 3 (700)

Students scoring at this point on the scale typically. . .

demonstrate that they are developing as independent readers. They can read short passages
written in very simple language with complete fluency and can answer any type of question about
such simple passages, including inference questions and questions about characters' feelings.
They can read short passages of moderate complexity, with partial comprehension; they can
answer literal main idea and detail questions related to such passages, but may struggle with
questions requiring inference or interpretation.

Anchor Point 4 (740)

Students scoring at this point on the scale typically. . .

demonstrate that they are developing as independent readers of challenging texts, with adequate
vocabulary resources. They can read short passages of moderate complexity with thorough
comprehension. When reading short passages that are more complex, they have only partial
comprehension. They can, however, answer a range of questions related to such passages,
including questions about sequence of events and text organization and questions requiring
simple inferences.

Anchor Point 5 (780)

Students scoring at this point on the scale typically. . .

• demonstrate that they are developing as independent readers of the most challenging of texts. They can read the most linguistically complex short passages with good comprehension. Drawing on well-developed vocabulary resources and syntactic knowledge, they are able to distinguish subtle differences in meaning. They can answer a range of questions that require synthesizing information, making inferences, identifying the important details, and identifying a main idea when it is not explicitly stated.

WRITING

Anchor Point 1 (620)

Students scoring at this point on the scale typically. . .

• demonstrate a developing knowledge of sound/spelling relationships; they are generally able to write dictated letters and words, though with occasional errors.

Anchor Point 2 (660)

Students scoring at this point on the scale typically. . .

• demonstrate a solid command of sound/spelling relationships; they can accurately write dictated letters and words. They are beginning to develop the ability to write original descriptive and interrogative sentences and use capital letters and punctuation.

Anchor Point 3 (700)

Students scoring at this point on the scale typically. . .

• demonstrate basic vocabulary resources and a partial control of grammar and the conventions of written English. They can write original descriptive and interrogative sentences as well as narrative and descriptive paragraphs, though their writing contains significant and/or numerous errors that may interfere with communication.

Anchor Point 4 (740)

Students scoring at this point on the scale typically. . .

• demonstrate adequate vocabulary resources and an adequate, if imperfect, command of grammar and the conventions of written English. They can write original descriptive and interrogative sentences as well as narrative, descriptive, and personal opinion paragraphs; their writing is accurate enough to communicate effectively but may contain errors or be marked by simple structures used to avoid errors. They are still developing the ability to write paragraphs in more challenging genres such as comparison and contrast.

Anchor Point 5 (780)

Students scoring at this point on the scale typically. . .

• demonstrate well-developed vocabulary resources and excellent control of grammar and the conventions of written English. They can write paragraphs of a range of genres (e.g., descriptive, persuasive, compare and contrast) that are well developed and marked by advanced grammatical structures.

Section 9: Final Test Forms and the Locator Test

Final Test Forms

Final forms were created by attempting to keep the highest quality field test forms intact. Items were swapped in and out of the intact form only as necessary to balance the difficulty and content representation of item types. Items for the second final form at each level were selected so that the difficulty and discrimination of the items matched those of the first final form. An effort also was made to keep the operational item order very close to what it was in the field test form. Items were sequenced within form from easy to hard, when possible. Both final forms were assembled according to the test blueprint.

Table 17 contains the means and standard deviations of the item difficulties and item discriminations for the final test forms.

Scoring tables for these final test forms are available in a separate document. Please contact Accountability Works/ETS for information on final scoring tables.

Locator Test

A Locator Test was developed for use in conjunction with functional level testing for the Reading and Writing sections. Functional level testing allows students in grades 3-12 to take a lower level of the Reading and Writing sections if their literacy skills are at a more basic level.

Locator Test Construction and Scaling

The Locator Test contains multiple-choice Reading items. These items were selected from among the items that were field tested but not chosen for one of the operational test forms. Representative items of good quality were chosen. Three items were selected from Level A Extension forms, 5 items from Level B forms, 5 from Level C forms, and 5 from Level D forms, for a total of 18 items.

The selected items had item parameters calibrated on the vertical scale for Reading. The Raw Score-to-Scale Score scoring table based on those parameters appears in Table 18. This table also includes the conditional SEMs for each scale score value obtainable on the Locator Test.

Selection of Cut Points

The Locator Test's primary function is to determine whether the Reading and Writing sections of a given level of CELLA will be too difficult for a student, so that it would be advisable to administer a lower level of these sections to that student. Two major criteria were used to select cut points between levels: (a) students needed to have a low expected proportion-correct score (approximately in the .35 to .40 range) on the upper of the two levels so that the recommendation of the lower (easier) level would be appropriate, and (b) the vast majority of students (approximately 75 to 80%) of students who took the upper level during the field test scored above the cut point. Using these criteria, the scale score values available for the Locator Test were considered for the cut points and the following determinations were made.

Raw Score on	Scale Score on	Recommended
Locator Test	Locator Test	Test Level
0–5	345	Level A
6–8	652–692	Level B
9–12	702–723	Level C
13–18	729–820	Level D

The expected proportion-correct score on Level B for students with a scale score of 652 was 0.33; the expected proportion-correct score on Level C for students with a scale score of 702 was 0.40; and the expected proportion-correct score on Level D for students with a scale score of 729 was 0.42. Table 19 shows the proportion of students in the field test taking each test level scoring below, versus at or above, each relevant cut point. Eighty-three percent of the students taking Level B scored at or above 652, 74% of the students taking Level C scored at or above 702, and 77% of the students taking Level D scored at or above 729.

The CELLA Locator Test is a tool to be used as part of the decision-making process in determining whether or not functional level testing of the Reading and Writing sections should occur. This information should be used along with teacher judgment, classroom performance, and all other available relevant information in deciding what level of the CELLA Reading and Writing sections a student should take. More information about the use of the Locator Test is contained in Appendix D.

Section 10: References

- Dorans, N.J., & Holland, P.W. (1993). DIF Detection and description: Mantel-Haenszel and standardization. In P. W. Holland & H. Wainer (Ed.), *Differential item functioning* (pp. 35–66). Hillsdale, NJ: Lawrence Erlbaum.
- Holland, P. W., & Thayer, D. T. (1988). Differential item performance and the Mantel-Haenszel procedure. In H. Wainer & H. I. Braun (Eds.), *Test validity* (pp. 129–145). Hillsdale, NJ: Lawrence Erlbaum.
- Mantel, N., & Haenszel, W. (1959). Statistical aspects of the analysis of data from retrospective studies of disease. *Journal of the National Cancer Institute*, 22, 719–748.
- Stocking, M. L., & Lord, F. M. (1983). Developing a common metric in item response theory. *Applied Psychological Measurement*, 7(2), 201–210.

Appendix A: Tables and Figures

Table 1

Number of Students in the Field Test by State and Grade Range

		Grade	Range	
State	K, 1, 2, 3	4, 5, 6	7, 8, 9	10, 11, 12
Florida	1348	1003	1035	945
Maryland	1273	835	942	750
Michigan	859	691	711	640
Pennsylvania	1233	749	709	585
Tennessee	711	444	369	349
Total	5424	3722	3766	3269

Configuration of Field Test Forms Table 2

					Z	lumber of Iter	Number of Items by Item Type	þe				
		•	On	Level Items E	On-Level Items Being Field Tested	sted		Vertical Linking Items	king Items			
Content	Test		Un	Unique	Com	Common	Level Up*	Up*	Level Down*	Jown*	Total	al
Area	Level	Forms	MC	CR	MC	CR	MC	CR	MC	CR	MC	CR
Listening	Ą	A1, A2, A3	∞	ε	7	8	15				30	'n
	В	B1, B2, B3	13		15				7		35	
	В	$B4, B5, B6^{1}$	13		15		15				43	
	C	C1, C2, C3	13		15				15		43	
	C	C4, C5, C6 ¹	13		15		15				43	
	О	D1, D2, D3	13		15				15		43	
Speaking	A	A1, A2, A3		9		5		9				17
	В	B1, B2, B3		8		9				5		19
	В	$B4, B5, B6^{1}$		8		9		9				20
	C	C1, C2, C3		%		9				9		20
	C	C4, C5, C6 ¹		∞		9		9				20
	О	D1, D2, D3		∞		9				9		20
Reading	A	A1, A2, A3	6	4	9	2					15	9
1	A	A1+Ext, A2+Ext, A3+Ext	16	4	6	2	12				37	9
	В	B1, B2, B3	18	1	12				6		39	1
	В	$B4, B5, B6^{1}$	18		12		14				44	1
	C	C1, C2, C3	20		41				12		46	
	C	$C4, C5, C6^{1}$	20		14		12				46	
	О	D1, D2, D3	21		12				14		47	
Writing	A	A1, A2, A3		4		8						7
	Ą	A1+Ext, A2+Ext, A3+Ext		7		6	∞	3			8	19
	В	B1, B2, B3	11	3	∞	3					19	9
	В	$B4, B5, B6^{1}$	11	33	∞	33	∞	3			27	6
	C	C1, C2, C3	11	ю	∞	ж			∞	33	27	6
	C	$C4, C5, C6^{1}$	11	3	∞	3	∞	3			27	6
	О	D1, D2, D3	11	3	8	3			8	3	27	6

¹ Forms 4, 5, and 6 contain the same on-level items as do Forms 1, 2, 3, respectively, but they contain different sets of vertical linking items. * 'Level Up' and 'Level Down' refers to items from one level above and one level below respectively.

Table 3

Item Statistics by Modality, Test Level, and Field Test Form

Libert No. of N						ALL i	items					MC items	ems				CR items	tems	
Lively No. of No. of<		Tag			Diffi	culty	Discrimi	nation		•	Diffic	ulty	Discrimi	ination		Diffic	ulty	Discrimi	nation
A1 1842 20 670 617 653 611 681 654 615 654 615 654 611 5 686 611 651 651 651 652 611 5 686 611 651 651 654 611 5 686 611 650 611 650 614 640 640 648 668 615 658 616 653 611 5 696 640 640 668 616 653 611 5 656 610 650 640 640 668 616 653 611 5 696 640 690 668 668 616 658 616 658 616 658 617 658 618 618 618 658 618 618 618 648 648 648 648 648 648 648 648 648 648 648 648 648 <th< th=""><th>Modality</th><th>Level/ Form</th><th>No. of Cases</th><th>No. of Items</th><th>Mean</th><th>SD</th><th>Mean</th><th>SD</th><th>Internal Consistency</th><th>No. of Items</th><th>Mean</th><th>SD</th><th>Mean</th><th>SD</th><th>No. of Items</th><th>Mean</th><th>SD</th><th>Mean</th><th>SD</th></th<>	Modality	Level/ Form	No. of Cases	No. of Items	Mean	SD	Mean	SD	Internal Consistency	No. of Items	Mean	SD	Mean	SD	No. of Items	Mean	SD	Mean	SD
A2 1917 20 0.72 0.17 0.52 0.11 0.79 15 0.65 0.15 0.15 0.79 0.15 0.65 0.11 0.79 0.15 0.65 0.11 0.79 0.12 0.79 0.12 0.78 0.12 0.78 0.12 0.78 0.12 0.78 0.12 0.79 0.12 0.79 0.12 0.79 0.12 0.79 0.12 0.79 0.87 0.79 0.87 0.88 0.16 0.53 0.11 5 0.90 0.94 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.08 0.88 0.89 <th>Listening</th> <th>A1</th> <th>1842</th> <th>20</th> <th>0.70</th> <th>0.17</th> <th>0.53</th> <th>0.11</th> <th>0.81</th> <th>15</th> <th>0.64</th> <th>0.15</th> <th>0.54</th> <th>0.11</th> <th>5</th> <th>98.0</th> <th>0.11</th> <th>0.51</th> <th>0.12</th>	Listening	A1	1842	20	0.70	0.17	0.53	0.11	0.81	15	0.64	0.15	0.54	0.11	5	98.0	0.11	0.51	0.12
A3 1427 20 074 017 050 012 078 15 0.68 016 053 011 5 090 006 040 B2 1166 28 070 0.17 0.49 0.08 0.84 0.87 0.89 0.84 0.89 0.84 0.89 0.84 0.89<	•	A2	1917	20	0.72	0.17	0.52	0.11	0.79	15	0.65	0.15	0.56	0.10	5	0.92	0.04	0.40	0.04
B1 1206 28 0.70 0.17 0.49 0.08 B2 1116 28 0.71 0.12 0.49 0.08 B3 1231 28 0.71 0.12 0.49 0.07 C1 1034 28 0.70 0.12 0.49 0.07 C2 1161 28 0.71 0.11 0.52 0.08 C3 1143 28 0.74 0.12 0.52 0.08 D2 853 28 0.77 0.15 0.47 0.10 D2 853 28 0.77 0.15 0.47 0.10 D3 1072 28 0.77 0.13 0.45 0.08 A1 1842 11 0.76 0.13 0.45 0.08 A2 1917 11 0.76 0.13 0.66 0.13 A3 1427 11 0.76 0.13 0.76 0.12 <		A3	1427	20	0.74	0.17	0.50	0.12	0.78	115	89.0	0.16	0.53	0.11	5	06.0	90.0	0.40	0.10
B2 1116 28 0.71 0.12 0.49 0.07 B3 1231 28 0.69 0.14 0.47 0.08 C1 1034 28 0.70 0.12 0.54 0.07 C2 1161 28 0.71 0.11 0.52 0.08 D1 989 28 0.74 0.15 0.47 0.10 D2 853 28 0.77 0.15 0.47 0.10 D3 1072 28 0.77 0.13 0.45 0.08 A1 1842 11 0.76 0.13 0.45 0.08 A2 1917 11 0.69 0.13 0.69 0.13 A3 1427 11 0.76 0.12 0.69 0.11 B1 1206 13 0.76 0.12 0.69 0.11 C1 1034 13 0.76 0.12 0.70 0.11 <	(All MC items	B1	1206	28	0.70	0.17	0.49	80.0	0.87										
B3 1231 28 0.69 0.14 0.47 0.08 C1 1034 28 0.70 0.12 0.54 0.07 C2 1161 28 0.71 0.11 0.52 0.08 C3 1243 28 0.74 0.15 0.52 0.08 D1 989 28 0.77 0.15 0.47 0.10 D2 853 28 0.73 0.16 0.46 0.08 A1 1842 11 0.74 0.13 0.45 0.08 A2 1917 11 0.69 0.13 0.66 0.13 A3 1427 11 0.73 0.14 0.76 0.11 B1 1206 13 0.76 0.12 0.66 0.13 B2 1116 13 0.78 0.12 0.70 0.11 C2 1161 13 0.68 0.11 0.70 0.12 <	for Levels	B2	1116	28	0.71	0.12	0.49	0.07	0.87										
C1 1034 28 0,70 0,12 0,54 0,07 C1 1034 28 0,70 0,11 0,11 0,52 0,08 C2 1161 28 0,71 0,11 0,52 0,08 C3 1243 28 0,74 0,12 0,52 0,08 C1 0,13 28 0,77 0,15 0,15 0,16 0,15 0,17 0,17 0,17 0,17 0,17 0,17 0,17 0,17	B, C, & D)	B3	1231	28	69.0	0.14	0.47	80.0	0.84										
C2 1161 28 0,71 0,11 0,52 0,08 C3 1243 28 0,74 0,12 0,52 0,08 D1 989 28 0,77 0,15 0,47 0,10 D2 853 28 0,73 0,16 0,46 0,08 D3 1072 28 0,76 0,13 0,45 0,08 A1 1842 11 0,71 0,14 0,69 0,09 A3 1427 11 0,73 0,14 0,69 0,13 B1 1206 13 0,76 0,13 0,66 0,13 B3 124 13 0,78 0,12 0,77 0,15 C1 1034 13 0,74 0,10 0,70 0,15 C2 1161 13 0,68 0,11 0,70 0,17 C3 1243 13 0,68 0,13 0,68 0,17 <t< td=""><th></th><td>CI</td><td>1034</td><td>28</td><td>0.70</td><td>0.12</td><td>0.54</td><td>0.07</td><td>06.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		CI	1034	28	0.70	0.12	0.54	0.07	06.0										
C3 1243 28 074 0.12 0.52 0.08 D1 989 28 0.77 0.15 0.47 0.10 D2 853 28 0.73 0.16 0.46 0.08 A1 1842 11 0.71 0.14 0.69 0.09 A2 1917 11 0.69 0.13 0.66 0.13 B1 1206 13 0.76 0.12 0.67 0.11 B2 1116 13 0.76 0.12 0.67 0.15 B3 1231 13 0.74 0.10 0.70 0.15 C1 1034 13 0.68 0.11 0.70 0.17 C2 1161 13 0.68 0.08 0.73 0.15 C3 1243 13 0.65 0.13 0.64 0.18 D1 989 13 0.76 0.10 0.64 0.18 <td< td=""><th></th><td>C</td><td>1161</td><td>28</td><td>0.71</td><td>0.11</td><td>0.52</td><td>80.0</td><td>0.88</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		C	1161	28	0.71	0.11	0.52	80.0	0.88										
D1 989 28 0.77 0.15 0.47 0.10 D2 853 28 0.73 0.16 0.46 0.08 D3 1072 28 0.76 0.13 0.45 0.08 A2 1917 11 0.69 0.13 0.66 0.13 A3 1427 11 0.76 0.12 0.66 0.13 B1 1206 13 0.76 0.12 0.67 0.11 B3 1211 13 0.74 0.10 0.70 0.11 C1 1034 13 0.68 0.11 0.70 0.12 C2 1161 13 0.68 0.11 0.70 0.12 C3 1243 13 0.68 0.11 0.70 0.15 D1 989 13 0.76 0.10 0.64 0.18 D2 853 13 0.75 0.10 0.67 0.17 <td< td=""><th></th><td>ප</td><td>1243</td><td>28</td><td>0.74</td><td>0.12</td><td>0.52</td><td>80.0</td><td>0.89</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		ප	1243	28	0.74	0.12	0.52	80.0	0.89										
D2 853 28 0.73 0.16 0.46 0.08 D3 1072 28 0.76 0.13 0.45 0.08 A1 1842 11 0.71 0.14 0.69 0.09 A2 1917 11 0.69 0.13 0.66 0.13 B1 1206 13 0.76 0.12 0.66 0.13 B3 1211 13 0.78 0.12 0.67 0.16 B3 1231 13 0.78 0.12 0.70 0.15 C1 1034 13 0.68 0.11 0.70 0.17 C2 1161 13 0.68 0.11 0.70 0.15 C3 1243 13 0.68 0.13 0.68 0.17 D2 853 13 0.76 0.10 0.64 0.18 D3 1072 0.16 0.10 0.67 0.17 D3 <		DI	686	28	0.77	0.15	0.47	0.10	0.85										
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A1 1842 11 0.71 0.14 0.69 0.09 A2 1917 11 0.69 0.13 0.66 0.13 A3 1427 11 0.69 0.13 0.66 0.13 B1 1206 13 0.76 0.12 0.67 0.16 B3 1211 13 0.74 0.10 0.70 0.15 C1 1034 13 0.68 0.11 0.70 0.17 C2 1161 13 0.68 0.11 0.70 0.17 C3 1243 13 0.65 0.13 0.68 0.17 D1 989 13 0.76 0.10 0.64 0.18 D2 853 13 0.75 0.11 0.62 0.17 D3 1072 13 0.75 0.11 0.62 0.27		D3	1072	28	92.0	0.13	0.45	80.0	0.82										
A2 1917 11 0.69 0.13 0.66 0.13 A3 1427 11 0,73 0.14 0,70 0.11 B1 1206 13 0,76 0,12 0,67 0,16 B3 1116 13 0,78 0,12 0,72 0,15 C1 1034 13 0,68 0,11 0,70 0,12 C2 1161 13 0,68 0,11 0,70 0,17 C3 1243 13 0,65 0,13 0,68 0,17 D1 989 13 0,76 0,10 0,64 0,18 D2 853 13 0,75 0,89 0,67 0,18 D3 1072 13 0,75 0,11 0,62 0,27	Speaking	A1	1842	Ξ	0.71	0.14	69.0	0.09	0.87										
1427 11 0.73 0.14 0.70 0.11 1206 13 0.76 0.12 0.67 0.16 1116 13 0.78 0.12 0.72 0.15 1231 13 0.68 0.11 0.70 0.12 1161 13 0.68 0.08 0.73 0.15 1143 13 0.68 0.03 0.15 1243 13 0.65 0.13 0.68 0.17 989 13 0.75 0.09 0.64 0.18 853 13 0.75 0.08 0.67 0.17 1072 13 0.75 0.11 0.62 0.22	(All CR items)	A2	1917	11	69'0	0.13	99.0	0.13	0.85										
1206 13 0.76 0.12 0.67 0.16 1116 13 0.74 0.12 0.72 0.15 1034 13 0.74 0.10 0.70 0.12 1161 13 0.68 0.11 0.70 0.17 1243 13 0.68 0.13 0.68 0.17 989 13 0.75 0.10 0.64 0.18 853 13 0.75 0.11 0.64 0.18 1072 13 0.75 0.11 0.62 0.27		A3	1427	11	0.73	0.14	0.70	0.11	0.88										
1116 13 0.78 0.12 0.72 0.15 1231 13 0.74 0.10 0.70 0.12 1034 13 0.68 0.11 0.70 0.17 1161 13 0.68 0.08 0.73 0.15 1243 13 0.76 0.13 0.68 0.17 989 13 0.76 0.10 0.64 0.18 853 13 0.75 0.08 0.67 0.17 1072 13 0.75 0.11 0.62 0.22		B1	1206	13	9.76	0.12	29.0	0.16	0.93										
1231 13 0.74 0.10 0.70 0.12 1034 13 0.68 0.11 0.70 0.17 1161 13 0.68 0.13 0.15 1243 13 0.65 0.13 0.68 0.17 989 13 0.76 0.10 0.64 0.18 853 13 0.75 0.08 0.67 0.17 1072 13 0.75 0.11 0.62 0.22		B2	1116	13	0.78	0.12	0.72	0.15	0.93										
1034 13 0.68 0.11 0.70 0.17 1161 13 0.68 0.08 0.73 0.15 1243 13 0.65 0.13 0.68 0.17 989 13 0.76 0.10 0.64 0.18 853 13 0.75 0.08 0.67 0.17 1072 13 0.75 0.11 0.62 0.22		B3	1231	13	0.74	0.10	0.70	0.12	0.92										
1161 13 0.68 0.08 0.73 0.15 1243 13 0.65 0.13 0.68 0.17 989 13 0.76 0.10 0.64 0.18 853 13 0.75 0.08 0.67 0.17 1072 13 0.75 0.11 0.62 0.22		CI	1034	13	89.0	0.11	0.70	0.17	0.94										
1243 13 0.65 0.13 0.68 0.17 989 13 0.76 0.10 0.64 0.18 853 13 0.75 0.08 0.67 0.17 1072 13 0.75 0.11 0.62 0.22		3	1161	13	89.0	80.0	0.73	0.15	0.95										
989 13 0.76 0.10 0.64 0.18 853 13 0.75 0.08 0.67 0.17 1072 13 0.75 0.11 0.62 0.22		బ	1243	13	0.65	0.13	89.0	0.17	0.94										
853 13 0.75 0.08 0.67 0.17 1072 13 0.75 0.11 0.62 0.22		DI	686	13	9.76	0.10	0.64	0.18	0.92										
1072 13 0.75 0.11 0.62 0.22		D2	853	13	0.75	80.0	29.0	0.17	0.92										
		D3	1072	13	0.75	0.11	0.62	0.22	0.91										

Table 3 (cont.)

Item Statistics by Modality, Test Level, and Field Test Form

Test											
Level/ No. of No. of Form Cases Items Mean SD A1 1263 21 0.56 0.19 A2 1242 21 0.60 0.21 A3 900 21 0.60 0.21 A1+Ext 517 31 0.76 0.19 A2+Ext 429 31 0.75 0.21 A2+Ext 429 31 0.75 0.19 A3+Ext 429 31 0.75 0.19 B2 1180 31 0.75 0.19 B3 107 31 0.57 0.13 C1 1096 34 0.57 0.13 C2 1190 29 0.53 0.14 D1 997 32 0.61 0.14 D2 967 33 0.61 0.13 A2 1190 29 0.37 0.15 A3 1092 7 </th <th>Discrimination</th> <th></th> <th></th> <th>Difficulty</th> <th> </th> <th>Discrimination</th> <th>ı</th> <th>D</th> <th>Difficulty</th> <th>Discrin</th> <th>Discrimination</th>	Discrimination			Difficulty		Discrimination	ı	D	Difficulty	Discrin	Discrimination
Form Cases Items Mean SD A1 1263 21 0.56 0.19 A2 1242 21 0.56 0.19 A3 900 21 0.60 0.21 A1+Ext 517 31 0.75 0.19 A2+Ext 429 31 0.75 0.19 A3+Ext 429 31 0.75 0.19 BB 1277 31 0.75 0.19 BB 1277 31 0.75 0.14 BB 1277 31 0.57 0.16 C1 1096 34 0.57 0.13 C2 1190 29 0.53 0.14 D1 997 32 0.61 0.14 D2 967 33 0.61 0.13 A1 1373 7 0.37 0.15 A2 1366 7 0.37 0.15 A3		Internal	No. of				No. of	Jo			
A1 1263 21 0.56 0.19 A2 1242 21 0.60 0.21 A3 900 21 0.69 0.19 A2+Ext 517 31 0.76 0.19 A2+Ext 429 31 0.75 0.19 B1 1251 31 0.74 0.19 B2 1180 31 0.74 0.19 B3 1277 31 0.74 0.19 C2 1190 34 0.58 0.14 B3 1177 31 0.57 0.13 C2 1190 29 0.53 0.13 C3 1177 33 0.60 0.14 D3 1117 33 0.60 0.13 A1+Ext 545 16 0.37 0.15 A2+Ext 580 16 0.79 0.14 B3 1285 25 0.59 0.11 B4	Mean SD	Consistency	Items M	Mean S	SD	Mean SD	Items	ıs Mean	SD	Mean	SD
A1 1203 21 0.30 0.19 A3 900 21 0.50 0.19 A3 900 21 0.50 0.19 A3+Ext 561 31 0.75 0.19 A3+Ext 429 31 0.75 0.19 B1 1251 31 0.58 0.19 B2 1180 31 0.58 0.14 B3 1277 31 0.58 0.14 C1 1096 34 0.54 0.13 C2 1190 29 0.53 0.13 D1 997 32 0.63 0.14 D2 967 33 0.61 0.14 D3 1117 33 0.60 0.13 A1 1373 7 0.38 0.13 A2+Ext 580 16 0.37 0.15 A3+Ext 455 16 0.59 0.14 B1 1255 25 0.59 0.12 C2 1191 25 0.59 0.13 C3 1252 25 0.59 C4 1191 25 0.61 C5 1190 25 0.15 C6 1191 25 0.61 C7 0.14 D1 1373 7 0.37 0.15 C8 0.19 C9 0.14 D1 1373 7 0.37 0.15 C9 0.15 C1 0.19 0.25 0.59 C1 1101 25 0.59 C1 1101 25 0.54 D1 1030 25 0.61		0 0			01		,	400	30 0	630	000
A1+Ext 517 31 0.76 0.19 A2+Ext 561 31 0.75 0.19 A3+Ext 429 31 0.75 0.19 B1 1251 31 0.75 0.19 B2 1180 31 0.58 0.14 B3 1277 31 0.58 0.14 C1 1096 34 0.54 0.13 C2 1190 29 0.53 0.14 D2 967 33 0.61 0.14 D3 1117 33 0.60 0.13 A1 1373 7 0.38 0.13 A2+Ext 545 16 0.37 0.15 A3+Ext 455 16 0.37 0.15 B1 1255 25 0.59 0.11 B2 1182 25 0.59 0.11 C1 1101 25 0.59 C2 1191 25 0.59 C3 1192 25 0.59 C4 1191 25 0.61 D1 1030 25 0.14 D1 1030 25 0.14 D2 0.15 D3 0.14 D3 0.15 D4 0.15 D5 0.15 D6 0.15 D7 0.15 D7 0.15 D8 0.1		0.85			o <u>«</u>		9		0.0	0.02	0.09
A1+Ext 517 31 0.76 0.19 A3+Ext 561 31 0.75 0.21 A3+Ext 429 31 0.75 0.19 BB 1251 31 0.75 0.19 BB 180 31 0.58 0.14 BB 1277 31 0.57 0.15 C1 1096 34 0.54 0.13 C2 1190 34 0.54 0.13 D1 997 32 0.63 0.14 D2 967 33 0.60 0.13 A1 1373 7 0.37 0.15 A2 1117 33 0.60 0.13 A3 1182 7 0.37 0.15 A3+Ext 545 16 0.37 0.15 A3+Ext 455 16 0.59 0.14 B3 1285 25 0.59 0.14 C1	0.56 0.15	0.82	15 0	0.53 0.	0.19	0.54 0.16	9	0.74	0.08	0.61	0.11
A2+Ext 561 31 0.75 0.21 A3+Ext 429 31 0.74 0.19 B1 1251 31 0.58 0.16 B2 1180 31 0.58 0.16 B3 1277 31 0.58 0.13 C1 1096 34 0.54 0.13 C2 1190 29 0.53 0.13 D1 997 32 0.63 0.14 D2 967 33 0.60 0.13 A1 1373 7 0.38 0.13 A2 1366 7 0.37 0.15 A3 1092 7 0.37 0.15 A3+Ext 545 16 0.37 0.15 A3+Ext 455 16 0.69 0.14 B1 1255 25 0.59 0.12 B2 182 25 0.59 0.12 C2 <		0.82			19		9		0.15	0 .42	0.16
A3+Ext 429 31 0.74 0.19 B1 1251 31 0.58 0.16 B2 1180 31 0.58 0.14 B3 1180 31 0.58 0.14 C1 1096 34 0.54 0.15 C2 1190 29 0.53 0.13 D1 997 32 0.63 0.14 D2 967 33 0.61 0.14 D3 1117 33 0.60 0.13 A1 1373 7 0.37 0.15 A2 136 7 0.37 0.15 A3 102 7 0.37 0.15 A3 16 0.37 0.15 A3+Ext 580 16 0.59 0.14 B1 1255 25 0.59 0.11 B3 1285 25 0.59 0.12 C2 1191 25 </td <td></td> <td>92.0</td> <td></td> <td></td> <td>21</td> <td></td> <td>9</td> <td></td> <td>0.12</td> <td>0.28</td> <td>0.18</td>		92.0			21		9		0.12	0.28	0.18
B1 1251 31 0.58 0.16 B2 1180 31 0.58 0.14 B3 1177 31 0.58 0.14 C1 1096 34 0.57 0.15 C2 1190 29 0.53 0.13 C3 1249 34 0.57 0.15 D1 997 32 0.63 0.14 D2 967 33 0.61 0.14 D3 1117 33 0.60 0.13 A1 1373 7 0.37 0.13 A2 1366 7 0.37 0.15 A3+Ext 455 16 0.37 0.15 A3+Ext 455 16 0.53 0.14 B4 1255 25 0.59 0.14 B7 125 0.59 0.12 B3 1285 25 0.59 0.12 C1 1101		0.77			19		9		0.14	0.48	0.15
B2 1180 31 0.58 0.14 B3 1277 31 0.57 0.15 C1 1096 34 0.57 0.13 C3 1249 34 0.57 0.13 D1 997 32 0.63 0.14 D2 967 33 0.61 0.14 D3 1117 33 0.60 0.13 A1 1373 7 0.37 0.15 A2 1366 7 0.37 0.15 A3+Ext 455 16 0.37 0.15 A3+Ext 455 16 0.53 0.15 A3+Ext 455 16 0.69 0.14 B1 1255 25 0.59 0.12 B2 1182 25 0.59 0.12 B3 1285 25 0.59 0.12 C1 1101 25 0.61 0.14 C3 <t< td=""><td></td><td>0.87</td><td></td><td></td><td>16</td><td></td><td>1*</td><td></td><td>ì</td><td>0.62</td><td>•</td></t<>		0.87			16		1*		ì	0.62	•
B3 1277 31 0.57 0.15 C1 1096 34 0.54 0.13 C2 1190 29 0.53 0.13 D1 997 32 0.63 0.14 D2 967 33 0.61 0.14 D3 1117 33 0.60 0.13 A1 1373 7 0.38 0.13 A2 1366 7 0.37 0.15 A3+Ext 545 16 0.37 0.15 A3+Ext 545 16 0.37 0.15 A3+Ext 455 16 0.53 0.14 B1 1255 25 0.59 0.14 B2 1182 25 0.59 0.11 B3 1285 25 0.59 0.12 C1 1101 25 0.58 0.13 C2 1191 25 0.58 0.13 C3 <t< td=""><td></td><td>68.0</td><td></td><td></td><td>14</td><td></td><td>1*</td><td></td><td>ì</td><td>0.70</td><td>1</td></t<>		68.0			14		1*		ì	0.70	1
C1 1096 34 0.54 0.13 C2 1190 29 0.53 0.13 C3 1499 34 0.57 0.13 D1 997 32 0.63 0.14 D2 967 33 0.61 0.14 D3 1117 33 0.60 0.13 A1 1373 7 0.38 0.13 A2 1366 7 0.37 0.15 A3 1092 7 0.37 0.15 A3+Ekt 545 16 0.53 0.12 A3+Ekt 455 16 0.53 0.13 B2 1182 25 0.58 0.11 B3 1285 25 0.59 0.12 C1 1101 25 0.59 0.14 C3 1252 25 0.61 D1 1030 25 0.66 0.14		0.87			15		**		i	0.59	ì
C2 1190 29 0.53 0.13 C3 1249 34 0.57 0.15 D1 997 32 0.63 0.14 D2 967 33 0.61 0.14 D3 1117 33 0.60 0.13 A1 1373 7 0.38 0.13 A2 1366 7 0.37 0.15 A3+Ext 545 16 0.37 0.15 A2+Ext 580 16 0.70 0.13 A3+Ext 455 16 0.69 0.14 B1 1255 25 0.59 0.12 B2 1182 25 0.59 0.12 C1 1101 25 0.59 0.12 C2 1191 25 0.61 0.14 C3 1252 25 0.61 0.14 C3 1252 25 0.61 0.14 C3 <t< td=""><td></td><td>0.88</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		0.88									
C3 1249 34 0.57 0.15 D1 997 32 0.63 0.14 D2 967 33 0.61 0.14 D3 1117 33 0.60 0.13 A1 1373 7 0.38 0.13 A2 1366 7 0.37 0.15 A2+Ext 545 16 0.37 0.15 A2+Ext 580 16 0.59 0.14 B1 1255 25 0.59 0.11 B2 1182 25 0.59 0.12 B3 1285 25 0.59 0.12 C1 1101 25 0.59 0.12 C2 1191 25 0.59 0.13 C3 1252 25 0.61 0.14 D1 1030 25 0.61 0.14		98.0									
DI 997 32 0.63 0.14 D2 967 33 0.61 0.14 D3 1117 33 0.60 0.13 A1 1373 7 0.38 0.13 A2 1366 7 0.37 0.15 A1+Ext 586 16 0.53 0.15 A2+Ext 580 16 0.69 0.14 B1 1255 25 0.69 0.14 B2 1182 25 0.59 0.12 B3 1285 25 0.59 0.12 C1 1101 25 0.59 0.13 C2 1191 25 0.59 0.13 C3 1252 25 0.61 0.14 C3 1252 25 0.61 0.14 D1 1030 25 0.66 0.14		0.88									
D2 967 33 0.61 0.14 D3 1117 33 0.60 0.13 A1 1373 7 0.38 0.13 A2 1366 7 0.37 0.15 A1+Ext 545 16 0.37 0.15 A2+Ext 580 16 0.53 0.12 A3+Ext 455 16 0.69 0.14 B1 1255 25 0.59 0.11 B2 1182 25 0.59 0.12 B3 1285 25 0.59 0.12 C1 1101 25 0.59 0.13 C2 1191 25 0.59 0.13 C3 1252 25 0.58 0.13 C3 1252 25 0.61 0.14 D1 1030 25 0.61 0.14		0.87									
D3 1117 33 0.60 0.13 A1 1373 7 0.38 0.13 A2 1366 7 0.37 0.15 A1+Ekt 545 16 0.37 0.15 A2+Ext 580 16 0.53 0.12 A3+Ext 455 16 0.70 0.13 B1 1255 25 0.58 0.11 B2 1182 25 0.59 0.12 B3 1285 25 0.59 0.12 C1 1101 25 0.59 0.13 C2 1191 25 0.58 0.13 C3 1252 25 0.59 0.13 C3 1252 25 0.61 0.14 D1 1030 25 0.61 0.14	0.49 0.08	68.0									
A1 1373 7 0.38 0.13 A2 1366 7 0.37 0.15 A1+Ekt 545 16 0.37 0.15 A2+Ext 580 16 0.53 0.12 A3+Ext 455 16 0.69 0.14 B1 1255 25 0.58 0.11 B2 1182 25 0.59 0.12 C1 1101 25 0.59 0.13 C2 1191 25 0.58 0.13 C3 1252 25 0.61 0.14 C3 1191 25 0.61 0.14 D1 1030 25 0.61 0.14		0.88									
A2 1366 7 0.37 0.15 A3 1092 7 0.37 0.15 A1+Ext 545 16 0.53 0.15 A2+Ext 580 16 0.53 0.12 A3+Ext 455 16 0.69 0.14 B1 1255 25 0.59 0.11 B2 1182 25 0.59 0.12 B3 1285 25 0.59 0.12 C1 1101 25 0.59 0.13 C2 1191 25 0.58 0.13 C3 1252 25 0.58 0.13 C3 1252 25 0.61 0.14 D1 1030 25 0.66 0.14		94. 0									
A3 1092 7 0.37 0.15 A1+Ekt 545 16 0.53 0.12 A2+Ekt 580 16 0.53 0.13 A3+Ekt 455 16 0.69 0.14 B1 1255 25 0.58 0.11 B2 1182 25 0.59 0.12 C1 1101 25 0.59 0.12 C2 1191 25 0.58 0.13 C3 1252 25 0.61 0.14 D1 1030 25 0.61 0.14		0.94									
A1+Ext 545 16 0.53 0.12 A2+Ext 580 16 0.70 0.13 A3+Ext 455 16 0.69 0.14 B1 1255 25 0.58 0.11 B2 1182 25 0.59 0.12 C1 1101 25 0.59 0.12 C2 1191 25 0.61 0.14 C3 1252 25 0.61 0.14 D1 1030 25 0.66 0.14		0.95									
580 16 0.70 0.13 455 16 0.69 0.14 1255 25 0.58 0.11 1182 25 0.59 0.12 1101 25 0.59 0.12 1191 25 0.58 0.13 1191 25 0.61 0.14 1252 25 0.61 0.14 1030 25 0.66 0.14	0.65 0.15	0.92	5 0		0.15		=		0.11	0.73	60.0
455 16 0.69 0.14 1255 25 0.58 0.11 1182 25 0.59 0.12 1285 25 0.59 0.12 1101 25 0.59 0.13 1191 25 0.61 0.14 1252 25 0.61 0.14 1030 25 0.66 0.14		0.93			15	0.47 0.06	=======================================		0.12	0.75	0.08
1255 25 0.58 0.11 1182 25 0.59 0.12 1285 25 0.59 0.12 1101 25 0.58 0.13 1191 25 0.61 0.14 1252 25 0.61 0.14 1030 25 0.66 0.14		0.93	5 0		17		Ξ		0.13	0.75	0.08
1182 25 0.59 0.12 1285 25 0.59 0.12 1101 25 0.58 0.13 1191 25 0.61 0.14 1282 25 0.61 0.14 1030 25 0.66 0.14		0.94			==		9		0.11	0.82	0.01
1285 25 0.59 0.12 1101 25 0.58 0.13 1191 25 0.61 0.14 1252 25 0.61 0.14 1030 25 0.66 0.14		0.94			13		9		0.11	0.82	0.02
1101 25 0.58 0.13 1191 25 0.61 0.14 1252 25 0.61 0.14 1030 25 0.66 0.14		0.94			12		9		0.12	0.81	0.02
1191 25 0.61 0.14 1252 25 0.61 0.14 1030 25 0.66 0.14		0.94			13		9		0.13	0.80	0.04
1252 25 0.61 0.14 1030 25 0.66 0.14		0.94		0.58 0.	13		9		0.10	0.82	0.03
1030 25 0.66 0.14	0.52 0.20	0.94			13	0.44 0.13	9		0.00	0.80	0.04
		0.93	19 0		0.14	0.48 0.08	9	69.0	0.15	0.77	0.01
969 25 0.62 0.13	0.57 0.14	0.94		0.61 0.	0.13	0.51 0.08	9		0.16	0.78	0.02
1122 25 0.63 0.14		0.91			15		9	99.0	0.14	0.71	0.01

^{*} Reading aloud fluency item.

Table 4

Raw Score Summary Statistics by Modality, Grade, and Field Test Form $^{\!\!1,\,2}$

					Form	1 1			Form 2	1 2			Form 3	n 3	
Modality	Grade	Test Level	Max. Score	No. of Cases	Mean	SD	Median	No. of Cases	Mean	SD	Median	No. of Cases	Mean	SD	Median
Listening	K	A	20	413	10	4	10	413	10	4	10	345	11	4	11
	_	A	20	499	13	4	14	499	13	4	41	326	14	ε	15
	7	Ą	20	406	16	4	16	406	16	4	16	319	16	ϵ	17
	3	A	20	524	17	8	18	524	17	3	18	437	17	ε	18
	4	В	28	424	19	9	21	424	19	9	21	396	19	5	19
	5	В	28	436	19	9	21	436	19	9	21	428	20	7	22
	9	В	28	346	20	9	22	346	20	9	22	407	19	9	21
	7	C	28	326	19	7	21	326	19	7	21	395	21	9	23
	∞	C	28	374	20	7	22	374	20	7	22	443	22	9	24
	6	C	28	334	20	7	22	334	20	7	22	405	19	7	22
	10	D	28	303	21	9	23	303	21	9	23	483	21	9	22
	11	О	28	337	21	7	23	337	21	7	23	358	21	S	23
	12	Ω	28	349	22	S	23	349	22	S	23	231	23	S	23
Speaking	X	Ą	16	413	7	4	7	421	7	S	7	345	∞	S	∞
	_	Ą	16	499	10	4	11	434	10	4	11	326	11	4	12
	7	A	16	406	12	4	13	490	12	4	13	319	12	ε	13
	С	Ą	16	524	13	4	14	572	13	\mathcal{E}	14	437	13	4	14
	4	В	24	424	18	9	20	415	18	9	20	396	18	5	20
	2	В	24	436	18	9	20	330	18	7	21	428	18	9	20
	9	В	24	346	18	9	20	371	18	7	21	407	17	7	19
	7	C	24	326	16	7	19	457	17	7	19	395	16	7	18
	∞	C	24	374	16	∞	19	377	17	7	19	443	17	9	19
	6	C	24	334	16	7	18	327	14	∞	16	405	15	7	17
	10	D	24	303	17	9	19	269	16	7	18	483	17	9	19
	11	О	24	337	19	5	20	289	18	9	20	358	18	S	19
	12	D	24	349	18	5	20	295	19	5	20	231	19	5	20
-	;			1							,				

¹Results for Reading and Writing Forms 4, 5, and 6 are combined with results for Forms 1, 2, and 3, because they are based on the same item sets.

² A shaded block identifies students in grades administered the same test level.

Raw Score Summary Statistics by Modality, Grade, and Field Test Form Table 4 (cont'd)

					Form	ı 1			Form 2	1 2			Form 3	n 3	
Modality	Grade		Max. Score	No. of Cases	Mean	SD	Median	No. of Cases	Mean	SD	Median	No. of Cases	Mean	SD	Median
Reading	K	Ą	24	381	9	\mathcal{E}	9	358	9	4	9	274	7	ε	7
	_	A	24	483	12	4	11	405	12	2	12	315	12	4	12
	2	Ą	24	399	17	4	18	479	18	4	19	311	18	4	18
	3	A+Ext	34	517	25	5	26	561	25	S	26	429	25	9	26
	4	В	34	448	18	∞	19	437	18	∞	18	408	18	7	17
	5	В	34	445	19	∞	20	360	19	∞	19	440	20	∞	22
	9	В	34	358	21	∞	22	383	21	∞	22	429	20	∞	20
	7	C	34	336	18	∞	17	475	15	9	15	401	18	7	17
	~	C	34	384	18	∞	18	384	16	9	15	448	20	7	21
	6	C	34	376	19	∞	18	331	16	7	15	400	20	∞	19
	10	Ω	33	311	19	7	19	339	18	7	18	487	19	7	19
	11	Ω	33	339	20	7	20	313	22	7	23	379	20	7	21
	12	О	33	347	21	7	22	315	22	7	22	251	22	7	23
Writing	×	Ą	16	418		7	0	425	_	7	0	378	-	7	
	_	Ą	16	528	9	4	9	438	2	4	S	368	9	4	S
	7	A	16	427	11	4	11	503	10	4	111	346	11	4	12
	\mathcal{C}	A+Ext	34	545	24	7	26	580	24	∞	26	455	23	∞	26
	4	В	39	450	22	6	24	437	23	6	25	409	23	∞	24
	5	В	39	446	23	6	26	360	23	10	24	441	24	10	27
	9	В	39	359	24	6	27	385	24	6	26	435	23	6	24
	7	C	39	339	23	6	25	475	25	6	27	401	24	6	26
	8	C	39	387	24	6	25	387	26	6	28	450	27	∞	29
	6	C	39	375	23	6	24	329	24	10	26	401	25	6	56
	10	О	39	315	25	6	27	338	21	6	21	493	24	∞	25
	11	О	39	359	56	6	27	316	56	6	27	380	25	7	25
	12	D	39	356	27	∞	28	315	26	6	27	249	27	∞	27

¹Results for Reading and Writing Forms 4, 5, and 6 combined with results for Forms 1, 2, and 3, because they are based on the same item sets.

² A shaded block identifies students in grades administered the same test level.

Table 5

Listening/Speaking: Cumulative Raw Score Distributions for Field Tests by Grade

Cum Cum <th>Gra</th> <th>Grade K</th> <th></th> <th></th> <th>G</th> <th>Grade 01</th> <th>_</th> <th> </th> <th>G</th> <th>Grade 02</th> <th>2</th> <th></th> <th>Gra</th> <th>Grade 03</th> <th></th> <th></th> <th>Grade 04</th> <th>le 04</th> <th></th> <th></th> <th>Grade 05</th> <th>e 05</th> <th></th> <th></th> <th>Gra</th> <th>Grade 06</th> <th></th>	Gra	Grade K			G	Grade 01	_		G	Grade 02	2		Gra	Grade 03			Grade 04	le 04			Grade 05	e 05			Gra	Grade 06	
RS point RS	cam.		cam.		cnu	_,	cnn	1.	can	1.	cnm.		cnm.		cnm.	9	mm.	•	cum.	J	mm.		cnm.		cnm.		cnm.
17 29 55.5 1 0.1 29 88.5 0 0.2 30.5 0 20 30.5 0 20 10.1 20 88.5 1 0.3 31 69.4 2 0.2 31 69.4 2 0.2 31 69.4 2 0.2 31 69.4 2 0.2 31 69.4 2 0.2 31 69.4 2 0.2 31 69.4 2 0.2 31 69.4 2 0.2 31 69.4 2 0.2 31 69.4 2 0.2 31 49.7 2 0.0 31 19.7 4 0.0 31 19.7 4 0.0 31 19.7 4 0.0 32 9.0 4 0.0 32 0.0 32 9.0 4 0.0 32 10.0 33 10.0 33 10.0 33 10.0 33 10.0 33 10.0 33		RS	pent	RS	bcu				S			RS	pcnt	RS	pent		cnt		cnt		cnt		pent	RS	pent	RS	pent
10 28 95.6 1 29 95.5 1 1 28 95.6 1 29 95.5 1 0.2 30 95.5 1 0.0 30 95.5 1 0.0 30 85.5 1 0.0 30 85.5 1 0.0 30 85.5 1 0.0 30 85.5 1 0.0 30 85.5 1 0.0 30 95.5 1 0.0 30 95.5 1 0.0 30 95.5 1 0.0 3 90 4 0.0 3 95.0 4 0.0 3 90 4 0.0 3 4 0.0 3 4 0.0 3 4 0.0 3 4 0.0 3 4 0.0 9 3 4 0.0 3 4 0.0 3 3 4 0.0 3 3 4 0.0 3 3 4 0.0																											
17 29 55.5 2 0.2 30 69.4 2 0.2 31 49.7 2 0.2 31 69.4 2 0.2 31 49.7 2 0.2 31 49.7 2 0.2 31 98.7 4 0.6 3.2 0.1 0.2 3.2 0.1 3.2 0	9.0 0	28			0.1	29		2	0 0.2			0	0.1	30	39.5	0	0.2	29	15.5		0.1	29	18.1	0	0.1	30	19.2
24 30 94 3 96 3 3 1 88 3 0 3 1 88 3 0 3 1 1 2 3 0 3 1 88 3 1 3 3 1 8 4 0 3 3 3 3 1 3 3 1 8 3 1 8 4 0 3 3 3 3 1 3 2 3 1 3 4 0 3 3 3 3 1 3 4 0 3 3 3 3 1 3 5 0 3 3 1 3 4 0 3<	1 1.7	29		7	0.2	30		2	1 0.3			7	0.2	31	49.7	7	0.2	_	16.3	7	0.3	30	19.3	7	0.3	31	20.0
31 38 4 0.7 33 73.9 4 0.6 32 18.9 4 0.8 2 1.1 35 2 1.1 35 2 2 1.1 35 2 2 3 3 3 3 3 2 2 3 3 3 4 0.8 3 3 3 2 6 1.3 3 3 6 1.3 3 3 2 6 1.1 3 2 6 1.1 3 2 6 1.3 3 2 6 1.1 3 3 2 6 1.1 3 3 3 2 6 1.1 3 4 8 1 3 6 1.1 3 4 8 1 3 6 1.1 3 4 8 1 3 6 1.1 3 4 8 1 3 6 1.1 3 4	2 2.4	30		3	0.5	31		2	3 0.6			4	0.4	32	61.3	3	0.3		17.4	3	0.5	31	8.61	4	0.4	32	21.5
50 32 98.9 5 1.4 33 96.7 5 1.8 34 44 6 0.8 34 86 5 0.6 33 20.6 5 1.3 32.0 6 1.1 34 62 33 99.4 6 2.2 34 98.7 7 1.2 36 1000 7 1.1 35 24.4 7 2.3 35 2.6 9 2.5 1.7 2.3 35 2.6 9 2.3 3.4 7 1.2 36 1000 8 1.8 36 1000 8 1.8 36 100 9 2.5 9 2.5 3.5 3.6 9 3.7 3.8 3.6 9 3.7 3.8 3.8 3.9 3.8 3.9 3.8 3.9 3.8 3.9 3.8 3.9 3.8 3.9 3.8 3.9 3.9 3.8 3.9 3.9 3.9 3.8	3 3.1	31		4	0.7	32						5	0.7	33	73.9	4	9.0		6.81	4	8.0	32	21.1	5	9.0	33	22.8
62 33 994 6 23 994 6 22 35 984 7 12 35 950 6 0.8 34 223 6 13 994 6 13 95 7 14 13 35 244 7 34 21 35 36 100 8 27 41 35 244 7 34 41 11 35 244 7 35 36 98 3 36 10 3 36 10 3 36 10 3 36 10 3 36 30 3 34 41 41 41 41 42 43 43 44	4 5.0	32		5	1.4	33						9	8.0	34	9.98	5	9.0	33 ;	9.02	2	1.3	33	22.6	9	1.1	34	24.6
8.7 34 1000 7 3.2 3.5 9.8 7 2.6 36 100.0 8 1.1 3.5 2.4.4 7 2.3 3.5 2.5 8 2.3 3.6 2.5 3.6 100.0 8 2.7 1.1 3.6 2.7 3.4 7 2.4 7 2.3 3.6 2.7 3.4 9 2.4 7 2.3 3.7 2.4 7 2.3 3.6 2.7 3.4 9 2.4 7 2.3 3.6 2.7 3.4 9 3.4 7 2.4 9 3.4 9 3.4 9 9 2.3 3.7 2.4 9 3.4 10 3.9 3.7 3.4 9 3.4 10 3.4 9 3.4 10 3.4 9 3.4 11 3.7 3.4 11 3.7 3.4 11 3.7 3.4 11 3.7 3.4 11 3.2 3.4 11 <td>5 6.2</td> <td>33</td> <td></td> <td>9</td> <td>2.3</td> <td>34</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7</td> <td>1.2</td> <td>35</td> <td>95.0</td> <td>9</td> <td>8.0</td> <td></td> <td>22.3</td> <td>9</td> <td>1.7</td> <td>34</td> <td>24.1</td> <td>7</td> <td>1.9</td> <td>35</td> <td>26.3</td>	5 6.2	33		9	2.3	34						7	1.2	35	95.0	9	8.0		22.3	9	1.7	34	24.1	7	1.9	35	26.3
11.2 8 3.7 36 100.0 8 2.7 9 2.5 8 1.4 36 20.1 8 2.7 9 2.9 3.4 10 2.9 3.4 3.7 38 3.6 10 3.4 3.7 38 3.7 3.8 3.7 3.8 3.7 3.8 3.7 3.8 3.9 3.1 10 4.7 3.8 3.7 3.8 3.7 3.8 3.7 3.8 3.7 3.8 3.7 3.8 3.7 3.8 3.7 3.8 3.7 3.8 3.7 3.8 3.7 3.8 3.7 3.8 3.7 3.8 3.7 3.8 3.7 3.8 3.7 3.8 3.7 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 4.9 4.9 4.4 4.9 3.8 4.9 4.9 4.4 4.8 4.1 4.2 4.1 4.2 4.1 4.2 4		34	_	7	3.2						_	8	1.8	36	100.0	7	1.1		24.4	7	2.3		25.2	∞	2.3	36	28.1
14.1 9 4.5 9 3.4 10 2.9 3.7 28.4 9 3.4 37 28.4 9 3.4 37 28.4 9 3.4 37 28.4 9 3.4 37 28.4 9 3.4 37 3.4 37 3.4 3				∞	3.7		_					6	2.5			8	1.4		26.1	∞	2.8		26.7	6	2.9	37	31.1
16.6 10 5.4 10 3.6 11 3.1 10 2.8 33.4 10 4.1 38 30.1 11 3.7 39 19.7 11 6.4 12 4.0 12 3.6 11 30 33.3 11 4.9 39 33.5 11 4.9 39 33.5 11 4.9 33.9 11 4.9 39 33.5 11 4.9 40 37.5 12 4.9 40 37.5 12 4.9 40 37.5 12 4.9 40 37.5 14 40 40 40 37.5 14 40 <td< td=""><td></td><td></td><td></td><td>6</td><td>4.5</td><td></td><td></td><td></td><td></td><td></td><td></td><td>10</td><td>2.9</td><td></td><td></td><td>6</td><td>2.3</td><td></td><td>28.4</td><td>6</td><td>3.4</td><td></td><td>28.4</td><td>10</td><td>3.4</td><td>38</td><td>33.5</td></td<>				6	4.5							10	2.9			6	2.3		28.4	6	3.4		28.4	10	3.4	38	33.5
19.7 11 6.4 12 4.0 12 3.6 11 3.9 33.9 11 4.9 12 4.0 12 3.6 11 3.9 33.9 11 4.0 3.5 12 4.5 40 23.2 13 4.6 13 4.0 12 3.6 40 37.2 12 4.1 3.5 41 4.2 4.1				10	5.4							11	3.1			10	2.8		31.4	10	4.1		30.1	Ξ	3.7	39	35.1
23.2 12 7.1 13 4.6 13 4.0 12 3.6 40 37.2 12 6.1 40 35.6 13 5.4 41 27.6 13 8.3 14 5.0 14 4.2 13 4.5 14 4.5 4.4 4.4 4.5 4.4 4.4 4.5 4.4 4.5 4.4 4.5 4.4 4.5 4.4 4.5 4.4 4.5 4.4 4.5 4.				11	6.4					_		12	3.6			11	3.0		33.9	Ξ	4.9		33.5	12	4.5	40	37.4
27.6 13 8.3 14 5.0 14 4.2 13 4.5 41 40.5 13 6.8 41 38.2 14 2.0 31.7 14 9.7 15 5.7 15 4.7 14 40.5 13 6.8 41 38.2 14 6.2 42 33.8 15 16 6.3 16 6.3 16 5.4 11 7.6 42 41.9 14 7.6 42 41.9 14 7.6 42 41.9 14 7.6 42 41.9 14 7.6 42 41.9 41.0	11 23.2			12	7.1							13	4.0			12	3.6		37.2	12	6.1		35.6	13	5.4	41	40.4
31.7 14 9.7 15 5.7 15 4.7 14 4.9 42 44.9 14 7.6 42 4.9 14 7.6 41 16 6.3 43 45.1 16 4.9 44 48.1 15 44 48.1 18 49.1 18 49.1 18 49.1 18 49.1 18 49.1 18 49.1 18 49.1 18 49.1 18 49.1 18 49.1 18 49.1 18 49.1 18 49.1 18 49.1 18 49.1 18 49.1 49.2 49.1 49.2				13	8.3							14	4.2			13	4.5	41	40.5	13	8.9		38.2	14	6.2	42	43.6
35.8 15 11.6 16 6.3 16 5.4 15 5.5 43 49.1 15 8.1 43 45.1 16 7.7 44 40.6 16 13.2 17 7.2 17 5.9 16 6.1 44 53.4 16 8.4 44 48.7 17 44 45.2 17 15.7 18 7.9 17 6.1 44 53.4 16 8.4 44 48.7 17 44 45.2 17 15.7 18 8.9 17 6.4 48.7 17 9.0 45 53.5 18 46 46 48 46 46 46 46 48 46 46 46 46 48 46 46 46 46 46 46 48 46 46 46 48 46 48 46 48 46 48 46 48 46 <td< td=""><td></td><td></td><td></td><td>14</td><td>9.7</td><td></td><td></td><td></td><td></td><td></td><td></td><td>15</td><td>4.7</td><td></td><td></td><td>14</td><td>6.4</td><td>42</td><td>44.9</td><td></td><td>9.7</td><td></td><td>41.6</td><td>15</td><td>6.9</td><td>43</td><td>47.4</td></td<>				14	9.7							15	4.7			14	6.4	42	44.9		9.7		41.6	15	6.9	43	47.4
40.6 16 13.2 17 7.2 17 5.9 16 6.1 44 53.4 16 8.4 44 48.7 17 84 45 45.2 17 15.7 18 7.9 18 6.9 17 6.3 45 58.9 17 9.0 45 53.5 18 86 46 46 48.7 17 84 45 58.9 17 9.0 45 53.5 18 86 46 68.8 18 9.0 46 53.5 18 86 46 53.5 18 86 46 63.8 18 9.0 46 9.1 47 48				15	11.6							16	5.4			15	5.5	43 ,	19.1		8.1		45.1	16	7.7	44	51.4
45.2 17 15.7 18 7.9 18 7.9 18 7.9 18 7.9 45 58.9 17 9.0 45 53.5 18 86 46 49.7 18 18.8 19 7.5 18 6.6 46 63.8 18 9.0 46 59.7 19 7.1 47 64.9 7.1 47 69.7 19 7.1 47 69.7 19 9.7 47 64.8 20 10.1 48 59.1 49 7.1 47 69.7 19 9.7 47 64.8 9.0 46 59.7 19 9.7 47 64.8 9.0 46 9.0 48 49 81.7 20 10.5 48 49 81.7 21 11.4 49 74.8 22 11.0 9.0 48 49 81.7 21 11.4 49 74.8 52 11.0 49 49 41.8				16	13.2							17	5.9				6.1		53.4		8.4		48.7	17	8.4	45	54.9
49.7 18 18.8 19 8.9 19 7.5 18 6.6 46 63.8 18 9.0 46 59.7 19 7.1 47 69.7 19 7.1 47 69.7 19 9.7 44 59.7 19 9.7 47 69.7 19 9.7 47 69.7 19 9.7 47 69.4 8.1 48 75.7 20 10.5 48 69.6 21 10.9 9.7 47 64.8 9.0 46.8 9.0				17	15.7	_				-		18	6.9			17	6.3	. 54	6.89		0.6		53.5	18	9.8	46	58.8
54.2 19 21.5 20 10.8 3 19 7.1 47 69.7 47 64.8 20 10.1 48 59.1 20 25.4 21 12.6 21 9.5 20 8.1 48 75.7 20 10.5 48 69.6 21 10.9 49 49 49 77.7 20 10.5 48 69.6 21 10.9 49				18	18.8					_		19	7.5				9.9	46	53.8		0.6		59.7	19	9.1	47	62.8
59.1 20 25.4 20 25.4 48 75.7 20 10.5 48 69.6 21 10.9 49 64.0 21 30.6 22 14.6 22 10.4 21 88 49 81.7 21 11.4 49 74.8 22 11.0 49 64.0 21 30.6 22 13.4 22 9.7 50 86.9 22 11.7 50 80.4 22 11.6 50 74.6 22 34.4 22 9.7 50 86.9 22 11.7 50 80.4 22 11.6 50 74.6 23 41.4 24 43.4 24 13.6 25 13.1 50 80.4 25 13.6 80.6 25 13.1 50 80.4 25 13.8 53 13.8 53 13.8 53 13.2 54 13.1 53 90.4 25 <				19	21.5			(4		~		20	8.3			19	7.1	47 (29.7		2.6		8.49	20	10.1	48	68.5
64.0 21 30.6 22 14.6 22 10.4 21 8.8 49 81.7 21 11.4 49 74.8 22 11.6 50 69.4 22 35.3 23 17.0 23 12.2 22 9.7 50 86.9 22 11.7 50 80.4 23 12.5 51 74.6 23 41.4 24 19.9 24 13.6 23 10.4 51 90.6 23 12.2 51 80.4 22 11.7 50 80.4 23 12.5 51 80.6 23 12.2 51 80.6 23 12.2 51 80.4 23 13.4 52 13.8 53 90.4 23 13.4 52 13.8 53 90.4 25 13.8 53 13.8 53 13.8 53 14.9 54 14.9 54 14.9 54 14.9 14.1 53				20	25.4			6.4		2		21	9.5				8.1		75.7		5.01		9.69	21	10.9	49	73.6
694 22 35.3 23 17.0 23 12.2 27 50 86.9 22 11.7 50 80.4 23 12.5 51 74.6 23 41.4 24 19.9 24 13.6 23 10.4 51 90.6 23 12.2 51 86.3 24 13.4 52 93.7 24 13.1 52 90.4 25 13.8 53 93.7 24 13.1 52 90.4 25 13.8 53 93.7 24 13.1 52 90.4 25 13.8 53 93.7 24 13.1 53 90.4 25 13.8 53 93.7 24 13.1 53 90.4 25 13.8 53 93.7 24 13.1 53 90.4 25 13.8 53 93.7 24 14.1 53 90.4 25 14.9 54 14.9 54 14.9 54 14.1				21	30.6			4		2		22	10.4				8.8		81.7		1.4		74.8	22	11.6	20	77.8
74.6 23 41.4 24 19.9 24 13.6 23 10.4 51 90.6 23 12.2 51 86.3 24 13.4 52 78.9 24 47.4 25 25.1 25 15.2 24 11.3 52 93.7 24 13.1 52 90.4 25 13.8 53 82.1 25 53.9 26 17.5 25 11.7 53 96.6 25 14.1 53 93.7 26 14.9 54 85.7 26 61.5 27 36.3 27 21.4 26 12.2 54 98.7 26 14.9 54 98.8 27 16.0 55 88.6 27 68.3 29 27 13.6 58 99.8 27 16.0 59 17.6 56 17.6 91.3 28 74.5 56 100.0 29 17.6 59 17.6 17.6 17.6				22	35.3			6.4		(23	12.2				6.7		86.9		11.7		80.4	23	12.5	51	81.4
78.9 24 47.4 25 25.1 82.1 25 33.9 26 30.3 26 17.5 27 11.7 53 96.6 25 14.1 53 93.7 26 14.9 54 85.7 26 61.5 27 36.3 27 21.4 26 12.2 54 98.7 26 15.2 54 98.7 26 15.2 54 98.8 27 16.0 55 88.6 27 68.3 28 42.2 28 25.0 27 13.6 59.8 27 16.2 59 98.8 28 16.7 56 100.0 29 17.6 91.3 28 74.5 5 10.0 28 17.1 56 100.0 29 17.6				23	41.4			CA		(24	13.6			23	10.4		9.06		12.2		86.3	24	13.4	52	8.98
82.1 25 53.9 26 30.3 26 17.5 36.6 25 14.1 53 93.7 26 14.9 54 85.7 26 61.5 26 12.2 54 98.7 26 15.2 54 98.8 27 16.0 55 9 88.6 27 68.3 28 42.2 28 25.0 27 13.6 55 99.8 27 16.2 55 98.8 28 16.7 56 1 91.3 28 74.5 29 50.2 29 31.3 28 14.7 56 100.0 29 17.6				24	47.4			. 1		_		25	15.2			24	11.3		93.7		13.1		90.4	25	13.8	53	92.2
85.7 26 61.5 27 36.3 27 21.4 26 12.2 54 98.7 26 15.2 54 96.8 27 16.0 55 98 88.6 27 68.3 28 42.2 28 25.0 27 13.6 55 99.8 27 16.2 55 98.8 28 16.7 56 1 91.3 28 74.5 29 50.2 29 31.3 28 14.7 56 100.0 29 17.6				25	53.5	_		. 4		3		26	17.5			25 i	11.7		9.96	52	[4.1		93.7	26	14.9	54	8.56
88.6 27 68.3 28 42.2 28 25.0 27 13.6 55 99.8 27 16.2 55 98.8 28 16.7 56 1 91.3 28 74.5 29 50.2 29 31.3 28 14.7 56 100.0 28 17.1 56 100.0 29 17.6				26	61.5			. 4		3		27	21.4			26 i	12.2		7.86	76	15.2		8.96	27	16.0	55	98.5
91.3 28 74.5 29 50.2 29 31.3 28 14.7 56 100.0 28 17.1 56 100.0 29 39				27	68.3			. 4		2		28	25.0			27 i	13.6		8.66	72	16.2		8.86	28	16.7	99	100.0
				28	74.5			CA		2		29	31.3				14.7	_	0.00	78	17.1	_	0.00	29	17.6		

Table 5 (cont.)

Listening/Speaking: Cumulative Raw Score Distributions for Field Tests by Grade

	Grade 07	7		Gra	Grade 08			Gra	Grade 09			Gra	Grade10			Grad	Grade 11			Gra	Grade 12	
cn	cnm.	cnm.		cnm.		cnm.		cum.		cam.		cnm.		cnm.		com.		cnm.		cum.		cum.
RS pc	pent RS	pent	RS	pent	RS	pent	RS	pcnt	RS	pcnt	RS	pent	RS	pent	RS	pcnt	RS	pent	RS	pent	RS	pcnt
ć			C	-	5		<	0	ć	,	-	6	;	6	-	-	?	t	-	-	ć	1
0 7	.1 50		0	0.1	31	C.C2	0	7.0	27	57.3	4	7.0	33	55.0	_	0.1	34	72.7	10	0.1	39	5/.5
3 0.	.2 31	27.7	_	0.3	32	26.2	-	0.3	59	33.6	9	0.5	34	34.1	3	0.2	35	28.7	Ξ	0.3	40	40.7
4 0.	.7 32		2	0.5	33	28.1	7	0.5	30	35.4	7	9.0	35	36.5	9	0.3	36	30.3	12	0.5	41	44.7
5 1.	1.3 33		9	Ξ:	34	29.6	3	0.7	31	36.9	8	6.0	36	38.8	7	9.0	37	32.6	13	9.0	42	48.1
6 1.			7	1.8	35	31.8	4	1	32	39.2	6	1.0	37	41.1	∞	0.7	38	34.6	15	1.5	43	53.6
7 2			8	2.5	36	33.7	5	1.8	33	40.8	10	4.1	38	44.1	10	1.0	39	37.8	16	1.8	44	58.1
8 3.	3.8 36	36.7	6	3.4	37	35.8	9	2.4	34	43.7	11	2.4	39	45.9	11	1.3	40	40.9	17	2.3	45	63.5
9 5.			10	4.2	38	38.4	7	3.3	35	45.6	12	3.1	40	50.5	13	1.6	41	45.1	18	5.9	46	68.5
10 6.1			11	9.6	39	42.0	∞	4.8	36	46.8	13	3.5	41	53.0	14	2.2	42	49.1	19	3.3	47	73.0
11 6.			12	6.5	40	45.5	6	5.9	37	48.9	14	4.5	42	57.0	15	2.7	43	54.0	20	3.7	48	80.0
12 8.	8.1 40		13	7.4	41	48.7	10	7.8	38	51.8	15	5.2	43	61.2	16	3.0	4	59.7	21	4.3	49	85.7
13 8.			14	8.0	42	54.3	11	0.6	39	54.1	16	6.1	44	65.7	17	3.5	45	65.2	22	5.0	20	92.0
14 9.	.3 42		15	9.3	43	57.5	12	10.1	40	26.7	17	6.7	45	8.07	18	4.0	46	72.5	23	5.8	51	97.5
15 16			16	10.0	44	61.7	13	11.3	41	8.69	18	7.9	46	75.8	19	4.9	47	77.5	24	6.9	52	100.0
16 11	0 44	8.89	17	10.8	45	9.99	14	12.4	45	62.4	19	9.4	47	81.6	20	5.5	48	84.0	25	7.7		
17 12	12.1 45		18	11.4	46	71.8	15	13.6	43	65.5	20	10.9	48	8.98	21	8.9	49	89.5	26	9.8		
18 12		80.3	19	12.3	47	78.2	16	14.6	44	0.69	21	12.1	46	90.4	22	9.7	20	94.3	27	6.6		
	13.3 47		20	13.5	48	83.0	17	16.1	45	73.5	22	13.8	20	95.0	23	9.8	51	6.76	28	11.5		
20 14		89.3	21	14.7	49	88.9	18	17.5	46	77.0	23	15.5	51	98.2	24	10.0	52	100.0	29	13.1		
21 15	15.4 49	93.0	22	15.8	20	94.1	19	18.9	47	9.08	24	17.1	52	100.0	25	10.7			30	15.0		
	16.2 50	96.1	23	16.8	51	9.86	20	20.1	48	84.4	25	18.4			26	12.0			31	15.7		
	17.2 51	98.6	24	18.0	52	100.0	21	21.0	49	91.1	56	20.0			27	13.3			32	17.9		
24 17	17.9 52	100.0	25	19.1			22	23.2	20	95.7	27	21.3			28	14.9			33	20.2		
	18.7		26	19.9			23	24.5	51	28.7	28	22.8			29	16.2			34	22.9		
26 19	8.61		27	21.3			24	26.3	52	100.0	29	24.3			30	17.8			35	25.8		
27 21	2.		28	22.0			25	27.5			30	26.8			31	19.9			36	28.6		
28 22.	4.		29	23.1			26	29.4			31	28.6			32	22.0			37	30.9		
29 24.	4.1		30	24.1			27	30.6			32	31.0			33	23.7			38	33.8		

Table 6

Reading: Cumulative Raw Score Distributions for Field Tests by Grade

Gra	Grade K	Gra	Grade 01	Gra	Grade 02		Grad	de 03			Grade 04	le 04			Gra	Grade 05			Grade 06	90 a	
	cum.		cnm.		cum.		cnm.		cum.		cnm.		cum.		cnm.		cum.		cnm.		cnm.
RS	pcnt	RS	pent	RS	pcnt	RS	pcnt	RS	pent	RS	pent	RS	pcnt	RS	pcnt	RS	pent	RS	pcnt	RS	pent
0	2.9	0	0.2		0.1	3	0.1		91.4	0	6.0	28	6.06	0	0.4	28	85.4	0	0.3	28	80.4
_	8.5	1	0.7	2	0.3	4	0.1		96.1	_	1.6	29	93.5		6.0	53	9.68	1	0.4	29	85.2
7	15.3	2	1.7	3	9.0	2	0.3	33	98.3	7	2.2	30	95.9	7	1.4	30	93.2	7	0.7	30	7.68
3	22.8	3	2.4	4	1.0	9	0.3		0.001	3	3.1	31	8.76	3	2.4	31	92.6	3	6.0	31	92.9
4	34.6	4	4.0	2	1.3	7	9.0			4	3.8	32	7.86	4	3.2	32	98.4	4	1.4	32	6.56
2	43.6	2	6.4	9	2.0	∞	1.1			2	5.1	33	99.2	2	4.4	33	9.66	2	2.1	33	98.1
9	55.1	9	9.6	7	3.4	6	1.2			9	6.2	34	100.0	9	5.7	34	100.0	9	3.2	34	100.0
7	0.99	7	14.0	∞	4.6	10	1.3			7	7.9			7	7.1			7	4.7		
∞	77.0	∞	21.5	6	6.1	111	1.9			∞	10.2			∞	8.6			∞	7.7		
6	84.2	6	30.0	10	7.5	12	2.6				13.4			6	13.3			6	10.9		
10	6.06	10	39.7	11	9.4	13	3.2			10	17.5			10	16.7			10	14.2		
11	94.4	11	49.0	12	11.9	14	4.4			11	20.8			11	19.4			11	18.5		
12	96.3	12	58.8	13	14.9	15	5.9			12	25.1			12	22.6			12	21.1		
13	7.76	13	66.4	14	19.8	16	7.0			13	29.1			13	25.5			13	23.8		
14	98.3	14	72.8	15	25.2	17	9.2			4	33.5			14	30.0			14	26.1		
15	8.86	15	6.87	16	31.7	18	11.1			15	36.5			15	32.7			15	28.7		
16	0.66	16	83.8	17	39.1	19	13.1			16	41.8			16	36.2			16	32.6		
18	99.3	17	88.3	18	50.4	20	16.5			17	46.2			17	39.5			17	35.9		
19	9.66	18	6.06	19	61.6	21	20.8				51.5			18	42.7			18	39.7		
20	8.66	19	93.7	20	73.2	22	25.1				56.3			19	47.0			19	43.8		
21	6.66	20	96.2	21	84.4	23	31.6			_	60.4			20	9.09			20	47.4		
22	100.0	21	9.76	22	92.9	24	38.1				64.5			21	54.7			21	50.7		
		22	99.2	23	98.3	25	47.0				8.89			22	60.1			22	55.0		
		23	2.66	24	100.0	26	55.3			23	73.9			23	65.1			23	59.7		
		24	100.0			27	63.2				77.8			24	0.69			24	63.2		
						28	71.6				81.5			25	72.4			25	0.79		
						29	78.5			56	85.2			76	8.92			26	71.8		
						30	84.7				88.2			27	80.5			27	76.5		

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Table 6 (cont.)

Reading: Cumulative Raw Score Distributions for Field Tests by Grade

RS cum		Gra	Grade 07			Grad	Grade 08			Grade 09	le 09			Gra	Grade 10		Gra	Grade 11		Grade 12	le 12	
point RS PS PS PS PS RS PS RS PS RS		cnm.		cnm.		cum.		cam.		cnm.		cnm.		cnm.		cam.		cum.		cum.		cum.
0.2 2.8 9.3.6 1 0.1 29 9.29 0 0.2 28 9.3 0 0.1 28 9.3 0 0.1 28 9.3 0 0.1 3 9.3 0 0.1 3 9.3 0 0.1 0.1 2.0 0.2 3 9.2 1 0.3 29 9.2 2 0.2 0 0.1 3 9.2 2 0.2 0 0.1 3 9.2 2 0 0.1 3 9.2 2 0 0.1 3 9.2 2 0 0.1 3 9.2 0 0.1 3 9.2 0 0.1 3 9.2 0 0.1 0 <th< th=""><th>RS</th><th>pent</th><th>RS</th><th>pcnt</th><th>RS</th><th>pcnt</th><th>RS</th><th>pcnt</th><th>RS</th><th>pcnt</th><th>RS</th><th>pcnt</th><th>RS</th><th>pent</th><th>RS</th><th>pcnt</th><th>RS</th><th>pcnt</th><th>RS</th><th>pcnt</th><th>RS</th><th>pent</th></th<>	RS	pent	RS	pcnt	RS	pcnt	RS	pcnt	RS	pcnt	RS	pcnt	RS	pent	RS	pcnt	RS	pcnt	RS	pcnt	RS	pent
03 29 956 2 0.2 30 92.5 1 0.3 29 2.2 0.2 0.2 0.4 0.2 0.4 2 0.4 3 29 0.2 0.4 3 29 0.4 3 0.4 3 0.4 3 0.4 3 0.4 3 0.4 3 0.4 3 0.4 3 0.4 3 0.4 3 0.4 3 0.4 3 0.4 3 0.4 3 0.4 3 0.4 0.8 3 9.0 4 0.8 3 0.9 5 0.7 0.9 0.8 3 0.9 5 0.7 0.9 0.8 3 0.9 5 0.7 0.9 0.9 0.9 0.7 0.9 </th <th>0</th> <th>0.2</th> <th>28</th> <th>93.6</th> <th>1</th> <th>0.1</th> <th>29</th> <th>92.9</th> <th>0</th> <th>0.2</th> <th>28</th> <th>89.3</th> <th>0</th> <th>0.1</th> <th>28</th> <th>89.3</th> <th>0</th> <th>0.1</th> <th>8</th> <th>0.3</th> <th>31</th> <th>93.8</th>	0	0.2	28	93.6	1	0.1	29	92.9	0	0.2	28	89.3	0	0.1	28	89.3	0	0.1	8	0.3	31	93.8
08 30 96.9 3 0.6.9 3 0.5 31 97.7 2 0.7 30 94.9 2 0.4 30 95.8 3 1.4 31 96.1 3 0.5 31 98.8 3 1.4 31 96.1 3 0.6 31 99.7 6 3.9 34 100.0 5 3.8 34 90.2 5 1.9 33 100.0 6 2.1 9 4 5 1.1 6.3 34 100.0 7 6.4 3.9 3.9 1.0 3.3 3.0 9.0 5 1.0 3.3 9.0 6 2.1 9 4.5 1.0 1	1	0.3	29	92.6	2	0.2	30	95.1	1	0.5	53	92.5	_	0.3	29	92.2	7	0.2	4	0.5	32	98.4
1.3 31 98.3 4 1.3 32 98.8 3 1.4 31 96.1 3 0.5 31 98.2 4 0.5 31 98.2 5 1.5 3 99.6 5 1.5 3 99.6 5 1.5 3 99.6 5 1.5 3 99.6 5 1.5 1.5 3 100.0 6 3.1 9 5 1.5 3 100.0 6 3.1 9 7 6.2 8 4.8 10 <td>2</td> <td>8.0</td> <td>30</td> <td>6.96</td> <td>3</td> <td>0.5</td> <td>31</td> <td>7.76</td> <td>2</td> <td>0.7</td> <td>30</td> <td>94.9</td> <td>7</td> <td>0.4</td> <td>30</td> <td>95.8</td> <td>3</td> <td>0.4</td> <td>5</td> <td>0.7</td> <td>33</td> <td>100.0</td>	2	8.0	30	6.96	3	0.5	31	7.76	2	0.7	30	94.9	7	0.4	30	95.8	3	0.4	5	0.7	33	100.0
2.5 3.2 99.1 5 2.5 33 99.5 4 2.8 32 98.0 4 0.8 32 99.6 5 1.5 7 6.3 3.4 100.0 7 6.4 4 2.8 34 100.0 6 5.8 34 100.0 6 2.1 8 1.2 3 10.0 6 2.1 8 1.0 6 2.1 8 4.8 10 1.2 9 1.2 1.2 9 1.2 1.2 9 1.2 1.0 9 1.2 9 1.2 1.0 9 1.2 9 1.2 9 1.2 1.0 9 1.0 1.0 9 1.0 1.0 1.0 9 1.0 1.0 9 1.0 9 1.2 9 1.0 9 1.0 9 1.0 9 1.0 9 1.0 9 1.0 9 1.0 9 1.0 1.0	3	1.3	31	98.3	4	1.3	32	8.86	3	1.4	31	96.1	3	0.5	31	98.2	4	0.5	9	1.2		
3.9 3.9 <td>4</td> <td>2.5</td> <td>32</td> <td>99.1</td> <td>2</td> <td>2.5</td> <td>33</td> <td>99.5</td> <td>4</td> <td>2.8</td> <td>32</td> <td>0.86</td> <td>4</td> <td>8.0</td> <td>32</td> <td>9.66</td> <td>2</td> <td>1.5</td> <td>7</td> <td>2.1</td> <td></td> <td></td>	4	2.5	32	99.1	2	2.5	33	99.5	4	2.8	32	0.86	4	8.0	32	9.66	2	1.5	7	2.1		
6.3 34 100.0 7 64 6 5.8 34 100.0 6 3.3 7 2.9 9 10.8 8 10.4 7 8.3 10.0 6 3.3 7 2.9 9 10.4 9 13.3 8 11.9 8 9.1 10 8.9 11 23.5 11 22.0 10 19.9 10 16.5 11 11.0 13 28.1 12 26.2 11 22.0 10 16.9 10 16.8 11 11 11.0 13 33.2 13 31.0 12 27.8 11 20.2 11 11.0 13 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14 <t< td=""><td>2</td><td>3.9</td><td>33</td><td>2.66</td><td>9</td><td>3.9</td><td>34</td><td>100.0</td><td>2</td><td>3.8</td><td>33</td><td>99.2</td><td>2</td><td>1.9</td><td>33</td><td>100.0</td><td>9</td><td>2.1</td><td>∞</td><td>3.1</td><td></td><td></td></t<>	2	3.9	33	2.66	9	3.9	34	100.0	2	3.8	33	99.2	2	1.9	33	100.0	9	2.1	∞	3.1		
10.8 8 10.4 7 8.3 7 6.2 8 4.8 10 14.4 9 13.3 8 11.9 8 9.1 9 7.0 11 18.7 10 17.2 9 15.4 9 12.3 10 8.9 1 9 7.0 11 23.5 11 22.0 10 19.9 10 16.5 11 11.0 13 33.2 12 26.2 11 23.6 11 20.2 14 14 37.1 14 37.1 14 37.1 14 37.1 14 37.1 14 37.1 14 37.1 14 33.5 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14	9	6.3	34	100.0	7	6.4			9	5.8	34	100.0	9	3.3			7	2.9	6	4.5		
14.4 9 13.3 8 11.9 8 9.1 9 7.0 11 18.7 10 172 9 15.4 9 12.3 10 8.9 12 28.3 11 22.0 10 19.9 10 16.5 11 11.0 13 38.2 12 24.8 12 24.8 13 18.3 14 14 14 11 11.0 13 14 14 14 11 11.0 13 14 14 14 14 14 14 14 14 37.1 14 33.5 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14 21.3 14	7	10.8			∞	10.4			7	8.3			_	6.2			∞	4.8	10	6.1		
18.7 10 17.2 9 15.4 9 12.3 10 8.9 12 23.5 11 22.0 10 19.9 10 16.5 11 11.0 13 28.1 12 26.2 11 23.6 11 20.2 11 11.0 13 33.2 13 31.0 12 27.8 12 24.8 13 14 14 11	∞	14.4			6	13.3			∞	11.9			∞	9.1			6	7.0	11	8.7		
23.5 11 22.0 10 19.9 10 16.5 11 11.0 13 28.1 12 26.2 11 23.6 11 20.2 11 14.3 14 14 33.2 13 31.0 12 27.8 13 28.8 14 21.3 14 43.2 14 35.1 14 37.1 14 33.5 15 15 17 14 21.3 16 45.0 17 48.9 14 21.3 16 25.0 17 48.9 17 45.8 17 25.0 17 48.9 17 45.8 17 25.0 17 18 37.7 20 18 55.0 17 45.8 16 45.0 16 47.8 17 45.8 18 47.9 17 45.8 18 37.7 20 18 55.0 17 45.8 18 47.9 18 45.9 18 45.9 <t< td=""><td>6</td><td>18.7</td><td></td><td></td><td>10</td><td>17.2</td><td></td><td></td><td>6</td><td>15.4</td><td></td><td></td><td>6</td><td>12.3</td><td></td><td></td><td>10</td><td>8.9</td><td>12</td><td>11.3</td><td></td><td></td></t<>	6	18.7			10	17.2			6	15.4			6	12.3			10	8.9	12	11.3		
28.1 12 26.2 11 23.6 11 20.2 12 24.8 13 14.3 15 14.2 15 14.2 14.4 21.3 16 45.0 14.4 21.3 16 45.0 17 45.8 18 17 25.0 17 25.0 17 25.0 17 25.0 17 25.0 27 20 <td>10</td> <td>23.5</td> <td></td> <td></td> <td>11</td> <td>22.0</td> <td></td> <td></td> <td>10</td> <td>19.9</td> <td></td> <td></td> <td>10</td> <td>16.5</td> <td></td> <td></td> <td>11</td> <td>11.0</td> <td>13</td> <td>14.3</td> <td></td> <td></td>	10	23.5			11	22.0			10	19.9			10	16.5			11	11.0	13	14.3		
33.2 13 31.0 12 27.8 12 24.8 13 18.3 15 38.7 14 35.1 13 32.2 13 29.8 14 21.3 16 43.2 15 39.1 14 37.1 14 33.5 15 25.0 17 46.9 16 42.2 15 42.4 15 37.6 16 20.2 18 51.8 17 46.9 16 47.9 16 41.8 17 32.5 19 56.4 18 51.0 17 48.9 17 45.8 18 37.7 20 61.2 19 54.9 16 41.8 17 45.8 18 37.7 20 61.2 19 54.9 18 49.9 19 42.6 21 42.9 19 42.6 21 65.8 20 59.7 19 54.3 20 58.2 2	11	28.1			12	26.2			11	23.6			111	20.2			12	14.3	14	17.5		
38.7 14 35.1 13 32.2 13 29.8 14 21.3 16 43.2 15 39.1 14 37.1 14 33.5 15 25.0 17 46.9 16 42.2 15 42.4 15 37.6 16 29.2 18 51.8 17 46.9 16 45.0 16 41.8 17 32.5 19 56.4 18 51.0 17 48.9 17 45.8 18 37.7 20 61.2 19 54.9 17 48.9 17 45.8 18 37.7 20 61.2 19 54.9 17 48.9 17 45.8 18 37.7 20 61.2 19 54.9 18 53.3 18 49.9 19 42.6 21 65.8 20 56.5 19 54.3 20 42.6 22 42.6 2	12	33.2			13	31.0			12	27.8			12	24.8			13	18.3	15	21.6		
43.2 15 39.1 14 37.1 14 33.5 15 25.0 17 46.9 16 42.2 15 42.4 15 37.6 16 29.2 18 51.8 17 46.9 16 45.0 16 41.8 17 32.5 19 56.4 18 51.0 17 48.9 17 45.8 18 37.7 20 61.2 19 54.9 17 45.8 18 37.7 20 65.8 20 59.7 19 56.5 19 54.3 20 48.1 22 65.8 20 59.7 19 56.5 19 54.3 20 48.1 22 70.0 21 63.3 20 60.3 20 58.2 21 52.8 23 77.2 23 72.3 74 74.9 22 76.5 24 74.9 25 70.6 2	13	38.7			14	35.1			13	32.2			13	29.8			14	21.3	16	25.0		
46.9 16 42.2 15 42.4 15 37.6 16 29.2 18 51.8 17 46.9 16 45.0 16 41.8 17 32.5 19 56.4 18 51.0 17 48.9 17 45.8 18 37.7 20 61.2 19 54.9 18 53.3 18 49.9 19 42.6 21 65.8 20 59.7 19 56.5 19 54.3 20 48.1 22 70.0 21 63.3 20 60.3 20 58.2 21 52.8 23 77.2 22 68.5 21 64.2 21 62.9 26.5 24 77.2 23 72.3 27 67.6 22 66.7 23 70.5 26 24 44.7 24 74.9 25 70.6 27 70.6 27 70.6 27	14	43.2			15	39.1			14	37.1			14	33.5			15	25.0	17	28.3		
51.8 17 46.9 16 45.0 16 41.8 17 32.5 19 56.4 18 51.0 17 48.9 17 45.8 17 32.5 19 61.2 19 54.9 17 45.8 18 37.7 20 61.2 19 54.9 17 45.8 18 37.7 20 61.2 19 54.9 19 54.3 20 48.1 22 70.0 21 63.3 20 60.3 20 58.2 20 48.1 22 70.0 21 63.3 20 60.3 20 58.2 21 52.8 23 77.2 22 68.5 21 64.2 21 62.9 22 56.5 24 77.2 23 72.3 22 67.6 22 66.7 23 60.5 25 80.6 24 75.9 23 71.8 23 70.5 24 74.9 25 70.6 27 70.6 27 88.3 86.3 27 87.4 27 85.1 27 85.1 27 85.1 28 83.9 30	15	46.9			16	42.2			15	42.4			15	37.6			16	29.2	18	32.0		
56.4 18 51.0 17 48.9 17 45.8 18 37.7 20 61.2 19 54.9 17 48.9 17 49.9 19 42.6 21 65.8 20 59.7 19 56.5 19 54.3 20 48.1 22 70.0 21 63.3 20 60.3 20 58.2 21 52.9 22 48.1 22 70.0 21 63.3 20 66.7 20 58.5 24 77.2 23 72.3 22 67.6 22 66.7 23 60.5 25 80.6 24 75.9 23 71.8 23 70.5 24 44.9 25 70.6 27 83.4 25 79.2 24 74.7 24 74.9 25 78.9 26 75.2 28 86.3 27 87.4 27 87.4 2	16	51.8			17	46.9			16	45.0			16	41.8			17	32.5	19	36.6		
61.2 19 54.9 18 53.3 18 49.9 19 42.6 21 65.8 20 59.7 19 56.5 19 54.3 20 48.1 22 70.0 21 63.3 20 60.3 20 58.2 21 52.8 23 73.8 22 68.5 21 64.2 21 62.9 22 56.5 24 77.2 23 72.3 22 67.6 22 66.7 23 60.5 25 80.6 24 75.9 23 71.8 23 70.5 24 65.5 26 83.4 25 79.2 24 74.7 24 74.9 25 70.6 27 86.3 20 83.2 25 79.0 25 78.9 26 75.2 28 90.7 28 90.4 27 85.5 27 85.1 27 86.1 2	17	56.4			18	51.0			17	48.9			17	45.8			18	37.7	20	42.4		
65.8 20 59.7 19 56.5 19 54.3 20 48.1 22 70.0 21 63.3 20 60.3 20 58.2 21 52.8 23 73.8 22 68.5 21 64.2 21 62.9 22 56.5 24 77.2 23 72.3 22 67.6 22 66.7 23 60.5 25 80.6 24 75.9 23 71.8 23 70.5 24 65.5 26 83.4 25 79.2 24 74.7 24 74.9 25 70.6 27 86.3 26 83.2 25 79.0 25 78.9 26 75.2 28 88.5 27 87.4 27 85.5 27 85.1 30 90.7 28 90.4 27 85.5 27 85.1 27 85.1 27 89.3 3	18	61.2			19	54.9			18	53.3			18	49.9			19	42.6	21	47.0		
70.0 21 63.3 20 60.3 20 58.2 21 52.8 23 73.8 22 68.5 21 64.2 21 62.9 22 56.5 24 77.2 23 72.3 22 67.6 22 66.7 23 60.5 25 80.6 24 75.9 23 71.8 23 70.5 24 65.5 26 83.4 25 79.2 24 74.7 24 74.9 25 70.6 27 86.3 26 83.2 25 79.0 25 78.9 26 75.2 28 88.5 27 87.4 27 85.5 27 79.6 29 90.7 28 90.4 27 85.5 27 85.1 27 85.1 30	19	65.8			20	59.7			19	56.5			19	54.3			20	48.1	22	50.9		
73.8 22 68.5 21 64.2 21 62.9 22 56.5 24 77.2 23 72.3 22 67.6 22 66.7 23 60.5 25 80.6 24 75.9 23 71.8 23 70.5 24 65.5 26 83.4 25 79.2 24 74.7 24 74.9 25 70.6 27 86.3 26 83.2 25 79.0 25 78.9 26 75.2 28 88.5 27 87.4 26 82.2 26 81.7 27 79.6 29 90.7 28 90.4 27 85.5 27 85.1 30 30	20	70.0			21	63.3			20	60.3			20	58.2			21	52.8	23	55.9		
77.2 23 72.3 67.6 22 66.7 23 60.5 25 80.6 24 75.9 23 71.8 23 70.5 24 65.5 26 83.4 25 79.2 24 74.9 25 70.6 27 86.3 26 83.2 25 79.0 25 78.9 26 75.2 28 88.5 27 87.4 26 82.2 26 81.7 27 79.6 29 90.7 28 90.4 27 85.5 27 85.1 28 83.9 30	21	73.8			22	68.5			21	64.2			21	67.9			22	56.5	24	8.69		
80.6 24 75.9 23 71.8 23 70.5 24 65.5 26 83.4 25 79.2 24 74.7 24 74.9 25 70.6 27 86.3 26 83.2 25 79.0 25 78.9 26 75.2 28 88.5 27 87.4 26 82.2 26 81.7 27 79.6 29 90.7 28 90.4 27 85.5 27 85.1 28 83.9 30	22	77.2			23	72.3			22	9.79			22	2.99			23	60.5	25	64.0		
83.4 25 79.2 24 74.7 24 74.9 25 70.6 27 86.3 26 83.2 25 79.0 25 78.9 26 75.2 28 88.5 27 87.4 26 82.2 26 81.7 27 79.6 29 90.7 28 90.4 27 85.5 27 85.1 28 83.9 30	23	9.08			24	75.9			23	71.8			23	70.5			24	65.5	26	8.79		
86.3 26 83.2 25 79.0 25 78.9 26 75.2 28 88.5 27 87.4 26 82.2 26 81.7 27 79.6 29 90.7 28 90.4 27 85.5 27 85.1 28 83.9 30	24	83.4			25	79.2			24	74.7			24	74.9			25	9.07	27	74.0		
27 87.4 26 82.2 26 81.7 27 79.6 29 28 90.4 27 85.5 27 85.1 28 83.9 30	25	86.3			26	83.2			25	79.0			25	78.9			26	75.2	28	7.67		
28 90.4 27 85.5 27 85.1 28 83.9 30	26	88.5			27	87.4			26	82.2			26	81.7			27	9.62	29	84.7		
	27	20.7			28	90.4			27	85.5			27	85.1			28	83.9	30	89.7		

 $\ \odot$ 2005 by Educational Testing Service 26

Table 7

Writing: Cumulative Raw Score Distributions for Field Tests by Grade

Cum. cum. <th< th=""><th>Grade K</th><th>le K</th><th>Gra</th><th>Grade 01</th><th>Gra</th><th>Grade 02</th><th></th><th>Grae</th><th>Frade 03</th><th></th><th></th><th>Grade 04</th><th>le 04</th><th></th><th></th><th>Grade 05</th><th>le 05</th><th></th><th></th><th>Grae</th><th>Grade 06</th><th></th></th<>	Grade K	le K	Gra	Grade 01	Gra	Grade 02		Grae	Frade 03			Grade 04	le 04			Grade 05	le 05			Grae	Grade 06	
Soly RS point RS PS PS RS <th></th> <th>cnm.</th> <th></th> <th>cnm.</th> <th></th> <th>cnm.</th> <th></th> <th>cnm.</th> <th></th> <th>cnm.</th> <th></th> <th>cnm.</th> <th></th> <th>cum.</th> <th></th> <th>cnm.</th> <th></th> <th>cnm.</th> <th></th> <th>cnm.</th> <th></th> <th>cnm.</th>		cnm.		cnm.		cnm.		cnm.		cnm.		cnm.		cum.		cnm.		cnm.		cnm.		cnm.
50.9 0 10.5 0 3.6 0 1.5 28 70.0 0 2.5 28 72.6 0 2.2 28 6.2.7 0 7.5 0 7.5 1 2.0 29 77.3 1 2.9 29 76.9 1 2.6 29 68.6 1 88.6 2 2.6.5 2 7.8 2 2.7 30 73.5 2 2.7 30 73.5 2 2 7 30 73.5 2 2 7 30 8.6 1 2.6 2.7 30 73.5 2 2 7 30 8.7 3 30 9 1 2.6 8.7 4 9	RS	pent	RS	pent	RS	pent	RS	pent	RS	pent	∞	pent	RS	pcnt		pent	RS	pent		pent	RS	pent
509 0 105 0 3.6 0 1.5 28 700 0 2.5 28 726 0 2.2 28 6.7 0 88.6 2 2.65 2 7.8 1 5.7 1 2.6 2.7 3 8.8 9 2 2.7 30 73.5 9 1 2.6 2.7 30 73.5 9 1 2.6 2.7 30 73.5 9 1 2.6 3 3 8 9 1 2.6 3 9 8 9 9 7 3 3 8 9 9 7 3 3 8 9 9 9 7 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 8 1 9 9 1 3 9 </th <td>•</td> <td>6</td> <td>•</td> <td>1</td> <td>•</td> <td>,</td> <td>(</td> <td>,</td> <td></td> <td>6</td> <td>•</td> <td>!</td> <td></td> <td>,</td> <td>•</td> <td></td> <td></td> <td>1</td> <td>•</td> <td></td> <td></td> <td>,</td>	•	6	•	1	•	,	(,		6	•	!		,	•			1	•			,
7.66 1 19.3 1 5.7 1 2.0 29 77.3 1 2.0 5.0 6.86 1 1 9.3 1 2.0 2.0 77.3 1 2.0 2.0 77.3 1 2.0 9.0 1 2.0 9.0 1 2.0 9.0 9.0 9 9.0 9 9.0 9 9.0 9 9.0 9	0	50.9	0	10.5	0	3.6	0	1.5	28	70.0	0	2.5	28	72.6	0	2.2	28	62.7	0	2.0	28	62.6
88.6 2 265 2 7.8 2 3.1 30 80.9 2 27 30 735 2 92.1 3 345 3 9.2 3 3.8 31 83.9 3 3.1 83.3 3 31 83.3 3	_	9.9/	_	19.3	_	5.7	_	2.0	56	77.3	_	2.9	59	6.97	_	2.6	29	9.89	_	2.1	53	67.4
92.1 3 34.5 3 3.5 31 89.4 3 3.5 31 89.4 3 3.5 31 85.3 3 3.8 31 78.1 3 3.8 31 78.1 3 3.8 31 78.1 3 3.8 31 78.1 3 3.8 3 3.8 3.8 31 78.1 3 3 3.8 3 3.8 3 4 <td>2</td> <td>9.88</td> <td>2</td> <td>26.5</td> <td>2</td> <td>7.8</td> <td>2</td> <td>2.7</td> <td>30</td> <td>82.8</td> <td>2</td> <td>3.1</td> <td>30</td> <td>6.08</td> <td>7</td> <td>2.7</td> <td>30</td> <td>73.5</td> <td>2</td> <td>2.4</td> <td>30</td> <td>72.8</td>	2	9.88	2	26.5	2	7.8	2	2.7	30	82.8	2	3.1	30	6.08	7	2.7	30	73.5	2	2.4	30	72.8
94.7 4 43.1 4 11.1 4 3.9 34.8 4 4.2 32 88.9 4 5.3 39.4 5 6.9 33 91.9 5 6.3 33 87.0 5 94.9 9 96.3 3 91.9 5 6.3 33 87.0 5 9 3 99.9 9 99.9 9	3	92.1	3	34.5	3	9.2	3	3.5	31	89.4	3	3.5	31	85.3	3	3.8	31	78.1	3	2.8	31	78.2
96.7 5 52.4 5 13.4 5 4.6 33 98.4 5 5.6 33 91.9 5 6.3 33 87.0 5 97.8 6 61.2 6 17.5 6 5.1 34 100.0 6 69 34 95.0 6 8.0 34 90.9 6 9 34 95.0 6 8.0 34 90.9 6 9 34 95.0 6 8.0 9 3 90.9 7 9 7 9 1.1 37 99.3 9 1.0 1.0 9 1.1 37 99.3 9 1.0 1.0 9 1.1 1.0 9 1.1 1.0 9 1.1 1.0 9 1.1 1.0 9 1.1 1.0 9 1.1 1.0 9 1.1 1.0 9 1.1 1.0 9 1.1 1.1 9 1.1 1.1	4	94.7	4	43.1	4	11.1	4	3.9	32	94.8	4	4.2	32	6.88	4	5.3	32	83.6	4	3.6	32	82.3
97.8 6 61.2 6 17.5 6 5.1 34 100.0 6 69 34 95.0 6 8.0 34 90.9 6 98.9 7 70.2 7 23.1 7 59 7 94 35 94.5 7 99.3 8 20.4 8 6.3 8 9.3 9 11.8 3 94.9 1 99.5 10 89.4 10 43.9 10 8.0 11.8 3 99.8 10.1 13.2 38 94.4 10 99.8 11 92.4 11 8.0 11.13.3 39 100.0 11 15.0 19 100.0 10 11.1 11.3 39 100.0 11 15.0 19 100.0 11 15.0 19 100.0 11 15.0 10 11.1 33 99.4 10 10.0 11 15.0 11 15.0	5	2.96	2	52.4	5	13.4	5	4.6	33	98.4	2	5.6	33	91.9	2	6.3	33	87.0	5	5.2	33	86.1
98.9 7 70.2 7 23.1 7 5.9 7 81 35 97.0 7 94.4 35 94.5 7 99.3 8 93 36 98.5 8 10.7 36 94.4 8 99.4 10 99.4 9 11.1 37 99.3 9 11.8 37 99.4 9 99.4 10 8.0 10 11.1 37 99.3 10 11 37 99.8 10 11.8 37 99.9 10 99.4 10 99.4 10 99.9 11 13.0 99.9 10 11 10 99.9 10 11 11 10 <	9	8.76	9	61.2	9	17.5	9	5.1	34	100.0	9	6.9	34	95.0	9	8.0	34	6.06	9	5.9	34	89.5
99.3 8 7.6 8 6.3 8 9.9 98.5 8 10.7 36 97.4 8 99.4 9 85.2 9 37.0 9 7.1 3 98.5 8 10.7 36 97.4 8 99.5 10 80.4 10 8.0 11 37 99.3 9 11.8 9 9 10 99.3 10 11 10 99.3 10 11 10	7	6.86	7	70.2	7	23.1	7	5.9			7	8.1	35	97.0	7	9.4	35	94.5	7	7.0	35	92.5
994 9 85.2 9 37.0 9 7.1 9 11.1 37 99.3 9 11.8 37 98.6 9 99.5 10 89.4 10 43.9 10 8.0 11 13.3 39 10.0 11 15.0 39 99.4 10 99.8 11 52.4 11 8.9 11 13.3 39 100.0 11 15.0 39 99.4 10 100.0 12 6.2.8 12 10.3 12 15.0 12 15.0 11 15.0 39 100.0 11 14 98.4 14 81.4 12.2 14 18.4 14 20.6 14 18.4 14 20.6 14 18.4 15 18.2 18 20.5 14 18.4 14 20.6 14 18.4 15 20.5 17 22.1 14 18.4 18.4 18.4 <	8	99.3	∞	9.87	8	29.4	8	6.3			∞	9.3	36	98.5	∞	10.7	36	97.4	∞	7.7	36	95.3
99.5 10 89.4 10 43.9 10 43.9 10 43.9 10 43.9 10 43.9 10 43.9 10 13.2 38 99.4 10 11 13.3 39 100.0 11 15.0 39 100.0 11 15.0 39 100.0 11 15.0 39 100.0 11 15.0 39 100.0 11 15.0 39 100.0 11 15.0 39 100.0 11 15.0 12 17.0 12 13 18.4 18 19 18 18 18 19 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18	6	99.4	6	85.2	6	37.0	6	7.1			6	11.1	37	99.3	6	11.8	37	9.86	6	9.6	37	8.76
99,8 11 92,4 11 52,7 11 8,9 11 13,3 39 100.0 11 15.0 39 100.0 11 100,0 12 94,8 12 62,8 12 10,3 12 15.0 12 17.0 12 13 96,9 13 72,5 13 11,3 16 17 13 18,4 13 18,4 14 13 18,4 14 16 14 18,4 14 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 17 16 17 16 17 16 17 16 17 16 17 17 18 18 17 16 17 16 17 18 18 18 18 18 18 18 18 11 18 18 18 18 18 1	10	99.5	10	89.4	10	43.9	10	8.0				12.1	38	8.66	10	13.2	38	99.4	10	10.9	38	99.2
100.0 12 94.8 12 62.8 12 10.0 12 17.0 13 18.4 13 13 18.4 13 18.4 13 18.4 13 18.4 13 18.4 13 18.4 13 18.4 19	11	8.66	11	92.4	11	52.7	11	8.9			111	13.3	39	100.0	11	15.0	39	100.0	111	13.1	39	100.0
96.9 13 72.5 13 11.3 16.7 13 18.4 13 18.4 13 18.4 13 18.4 18.5 <td>13</td> <td>100.0</td> <td>12</td> <td>94.8</td> <td>12</td> <td>62.8</td> <td>12</td> <td>10.3</td> <td></td> <td></td> <td>12</td> <td>15.0</td> <td></td> <td></td> <td>12</td> <td>17.0</td> <td></td> <td></td> <td>12</td> <td>15.2</td> <td></td> <td></td>	13	100.0	12	94.8	12	62.8	12	10.3			12	15.0			12	17.0			12	15.2		
98.4 14 81.4 14 12.2 14 18.4 14 20.6 14 20.6 14 15 20.5 14 20.6 14 20.6 14 15 20.6 14 16 23.8 16 23.7 16 15 16 23.7 16 16 23.7 16 16 23.7 16 16 23.7 16 16 23.7 16 16 23.7 16 16 23.7 16 16 23.7 16 17 16 23.7 16 23.7 16 17 25.7 17 17 16 23.7 16 17 25.7 17 17 16 23.7 16 23.7 16 23.7 17 25.7 17 25.7 17 25.7 18 27.3 18 27.3 27 27 23.4 23.4 23.4 23 23.4 23 23 23 23 23 23			13	6.96	13	72.5	13	11.3			13	16.7			13	18.4			13	16.6		
99.3 15 90.0 15 14.4 15 20.5 15 22.1 15 100.0 16 16.1 16 23.8 16 23.7 16 100.0 16 16.1 17 26.3 17 25.7 16 10 18 20.0 18 28.6 18 27.3 18 18 19 24.1 19 31.9 19 29.3 19 19 20 26.4 20 35.4 20 31.4 20 31.4 20 21 29.8 21 39.4 21 34.1 21 22 33.4 22 43.4 22 38.2 22 23 38.8 23 47.4 23 41.5 24 24 43.8 24 52.2 24 45.8 24 25 49.5 25 57.3 25 49.6 25 27 57 57.8 27 57.8 27			14	98.4	14	81.4	14	12.2			14	18.4			14	20.6			14	18.2		
100.0 16 16.1 16 23.8 16 23.7 16 17 17 18.7 17 26.3 17 25.7 17 17 18 18 28.6 18 27.3 18 17 17 17 17 18 17 18 17 17 17 17 17 17 17 17 17 17 18 17 17 17 17 17 18 17 17 17 18 17 17 18 18 18 18 18 18 18 18 18 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 <t< th=""><td></td><td></td><td>15</td><td>99.3</td><td>15</td><td>0.06</td><td>15</td><td>14.4</td><td></td><td></td><td>15</td><td>20.5</td><td></td><td></td><td>15</td><td>22.1</td><td></td><td></td><td>15</td><td>20.0</td><td></td><td></td></t<>			15	99.3	15	0.06	15	14.4			15	20.5			15	22.1			15	20.0		
18.7 17 26.3 17 25.7 17 22.0 18 28.6 18 27.3 18 24.1 19 31.9 19 29.3 19 26.4 20 35.4 20 31.4 20 29.8 21 39.4 21 34.1 21 33.4 22 43.4 22 38.2 22 38.8 23 47.4 23 41.5 23 43.8 24 52.2 24 45.8 24 49.5 25 57.3 26 61.9 26 53.7 62.8 27 67.4 27 57.8 27 57.8			16	100.0	16	100.0	16	16.1				23.8			16	23.7			16	21.7		
22.0 18 28.6 18 27.3 18 24.1 19 31.9 19 29.3 19 26.4 20 35.4 20 31.4 20 29.8 21 39.4 21 34.1 21 33.4 22 43.4 22 38.2 22 38.8 23 47.4 23 41.5 23 43.8 24 52.2 24 45.8 24 49.5 25 57.3 26 61.9 26 53.7 26 52.8 27 67.4 27 57.8 27							17	18.7			17	26.3			17	25.7			17	24.1		
24.1 19 31.9 19 29.3 19 26.4 20 35.4 20 31.4 20 29.8 21 39.4 21 34.1 20 33.4 22 43.4 22 38.2 22 38.8 23 47.4 23 41.5 23 43.8 24 52.2 24 45.8 24 49.5 25 57.3 25 49.6 25 55.4 26 61.9 26 53.7 26 62.8 27 67.4 27 57.8 27							18	22.0				28.6			18	27.3			18	26.0		
26.4 20 35.4 20 31.4 20 29.8 21 39.4 21 34.1 21 33.4 22 43.4 22 38.2 22 38.8 23 47.4 23 41.5 23 43.8 24 52.2 24 45.8 24 49.5 25 57.3 25 49.6 25 55.4 26 61.9 26 53.7 26 62.8 27 67.4 27 57.8 27							19	24.1				31.9			19	29.3			19	29.9		
29.8 21 39.4 21 34.1 21 33.4 22 43.4 22 38.2 22 38.8 23 47.4 23 41.5 23 43.8 24 52.2 24 45.8 24 49.5 25 57.3 25 49.6 25 55.4 26 61.9 26 53.7 26 62.8 27 67.4 27 57.8 27							20	26.4				35.4			20	31.4			20	32.8		
33.4 22 43.4 22 38.2 22 38.8 23 47.4 23 41.5 23 43.8 24 52.2 24 45.8 24 49.5 25 57.3 25 49.6 25 55.4 26 61.9 26 53.7 26 62.8 27 67.4 27 57.8 27							21	29.8			21	39.4			21	34.1			21	35.9		
38.8 23 47.4 23 41.5 23 43.8 24 52.2 24 45.8 24 49.5 25 57.3 25 49.6 25 55.4 26 61.9 26 53.7 26 62.8 27 67.4 27 57.8 27							22	33.4			22	43.4			22	38.2			22	38.8		
43.8 24 52.2 24 45.8 24 49.5 25 57.3 25 49.6 25 55.4 26 61.9 26 53.7 26 62.8 27 67.4 27 57.8 27							23	38.8			23	47.4			23	41.5			23	41.8		
49.5 25 57.3 25 49.6 25 55.4 26 61.9 26 53.7 26 62.8 27 67.4 27 57.8 27							24	43.8			24	52.2			24	45.8			24	46.1		
55.4 26 61.9 26 53.7 26 62.8 27 67.4 27 57.8 27							25	49.5			25	57.3			25	49.6			25	49.5		
62.8 27 67.4 27 57.8 27							26				26	61.9			26	53.7			26	53.3		
0.10							27	62.8			27	67.4			27	57.8			27	57.7		

Table 7 (cont.)

Writing: Cumulative Raw Score Distributions for Field Tests by Grade

		Grade 07	07			Grade 08	80			Grade	de 09			Gra	Grade 10			Ģ	Grade 11			Ğ	Grade 12	
	cn	cum.	cnm.	m.)	cum.		cnm.		cnm.		cam.		cnm.		cam.		cnm.		cam.		cnm.		cnm.
RS		pent R	RS pent	nt	RS p	pcnt	RS	pcnt	RS	pent	RS	pcnt	RS	pent	RS	pcnt	RS	pcnt	RS	pent	RS	pcnt	RS	pcnt
0	0		28 61.2	2	0	0.3	28	55.3	0	9.0	28	62.1	0	1.9	30	0.97	0	2.5	29	63.0	0	2.2	30	64.5
	0			6.	_	9.0	56	60.4	-	8.0	59	65.3	3	2.5	31	80.8	-	2.7	30	9.89	7	2.3	31	69.3
2				7.	7	6.0	30	64.5	7	1.1	30	70.0	4	3.2	32	84.4	2	2.9	31	73.5	4	2.4	32	73.6
3	2.	2.1 3		5.	3	1.3	31	9.69	3	1.7	31	73.4	5	3.7	33	88.0	3	3.0	32	9.87	5	2.6	33	78.8
4	Э.			9:	4	2.5	32	74.0	4	2.3	32	8.9/	9	4.5	34	91.6	4	3.3	33	83.9	9	2.7	34	83.3
5	4.			6.	5	3.4	33	80.3	2	2.9	33	6.08	7	5.5	35	94.2	5	3.6	34	9.78	7	2.8	35	87.7
9	5.			6.		4.0	34	85.0	9	3.9	34	85.2	8	6.4	36	86.3	9	3.9	35	91.1	8	3.2	36	92.0
7	9			∞.	, ,	4.9	35	0.06	7	5.0	35	89.2	6	7.7	37	6.76	7	4.5	36	94.8	6	3.3	37	95.5
8	∞.		36 96.0	0:		5.9	36	93.6	∞	7.1	36	93.8	10	9.2	38	99.4	6	5.2	37	2.96	10	3.8	38	9.86
6	9.			7.	6	9.9	37	0.96	6	8.8	37	96.4	Ξ	10.7	39	100.0	10	6.2	38	6.86	11	4.2	39	100.0
10	16			2.	, 01	7.8	38	9.86	10	10.3	38	7.86	12	13.1			11	6.9	39	100.0	12	5.0		
11	12		39 100.0	0.0	11	9.1	39	100.0	11	12.6	39	100.0	13	15.4			12	8.1			13	6.5		
12	14	14.1			12 1	9.01			12	14.3			14	17.9			13	0.6			14	7.7		
13	15	15.6			13 1	12.0			13	16.4			15	19.7			14	10.8			15	9.5		
14	17	0.7			14 1	13.7			7	19.0			16	22.5			15	12.4			16	10.9		
15		3.4			15 1	15.5			15	21.1			17	25.6			16	14.1			17	13.3		
16		20.4			16 1	17.6			16	23.6			18	28.7			17	16.3			18	14.6		
17	22	2.9			17 1	19.4			17	26.3			19	32.2			18	19.1			19	17.1		
18		24.9			18 2	21.8			18	29.1			20	35.6			19	22.3			20	19.5		
19	27	7.4			19 2	24.4			19	32.1			21	38.9			20	24.8			21	22.4		
20		30.3				27.2			20	34.8			22	41.6			21	27.7			22	26.3		
21		32.9				30.5			21	37.7			23	44.9			22	31.0			23	30.9		
22		5.7				32.8			22	40.9			24	49.2			23	35.6			24	35.3		
23		39.3			23 3	35.8			23	43.9			25	53.1			24	40.6			25	40.0		
24		43.0				39.0			24	47.2			26	57.1			25	45.1			26	44.6		
25	47	47.5				42.2			25	50.8			27	62.1			26	50.4			27	50.1		
26	52.1	2.1			26 4	46.1			26	54.4			28	8.99			27	54.3			28	54.6		
27	55	55.8				50.7			27	58.5			29	9.07			28	58.8			29	59.7		

Table 8

Calibration Design for the Field Test and Vertical Linking Items

			Sets of Items Cal	ibrated Together
Grades	Calibration Run	Test Level	On-Level Items	Vertical Linking Items
K, 1, 2, 3	1	A	A1, A2, A3, A1+Ext, A2+Ext, A3+Ext ¹	Level B
4, 5, 6	2	В	B1, B2, B3 B4, B5, B6	Level A Level C
7, 8, 9	3	C	C1, C2, C3 C4, C5, C6	Level B Level D
10, 11, 12	4	D	D1, D2, D3	Level C

¹These forms were included in the calibration runs for Reading and Writing.

Table 9

Vertical Linking Design

			ng (for	*)	ing ing		SL linking	
	D 10, 11, 12		SL linking (for	Neadung and Writing*)	SL linking		sms	Selected Level C Items
	C 7, 8, 9		SL linking (for Listening/ Speaking*)			Selected Level B Items	Selected Level D Items	Selecti
rade Level				ws	Selected Level C Items	Selected Ly	S	
Test Level and Grade Level	B 4, 5, 6		Items	Selected Level A Items	Selected I			
Te	A+Ext 3		Selected Level B Items	Sele				
	A K, 1, 2							
	Test Form	A1, A2, A3	A1+Ext, A2+Ext, A3+Ext	B1, B2, B3	B4, B5, B6	C1, C2, C3	C4, C5, C6	D1, D2, D3

^{*}Items from A+Ext forms were used for linking Reading and for Writing; items from A forms were used for linking Listening/Speaking

 $\label{eq:Table 10}$ Scale Score Summary Statistics by Modality and Grade Based on Field Test Forms

Modality	Grade	Test Level	N	Mean	SD	Median	% at Loss
Listening/Speaking	K	A	1179	617	45	626	6%
Listening/Speaking	1	A	1259	651	36	655	1%
	2	A	1215	672	39	675	2%
	3	A	1533	686	39	690	1%
	4	В	1235	698	38	703	1%
	5	В	1194	700	45	707	2%
	6	В	1124	701	45	704	2%
	7	C	1178	694	44	707	5%
	8	C	1178	698	43	707	3%
	9	C	1066	687	48	700	6%
	10	D	1055	703	38	713	2%
	11	D	984	712	32	719	1%
	12	D	875	715	28	719	0%
Reading	K	A	1013	404	79	345	55%
	1	A	1203	541	99	561	10%
	2	A	1189	646	79	655	2%
	3	A+Ext	1507	677	65	687	1%
	4	В	1293	688	46	697	10%
	5	В	1245	694	48	706	10%
	6	В	1170	700	49	710	8%
	7	C	1212	711	53	724	14%
	8	C	1216	720	49	731	10%
	9	C	1107	718	52	727	11%
	10	D	1137	733	49	744	9%
	11	D	1031	746	41	751	5%
	12	D	913	752	38	755	3%
Writing	K	A	1221	550	40	515	51%
	1	A	1334	619	47	630	10%
	2	A	1276	665	45	670	4%
	3	A+Ext	1580	683	38	688	2%
	4	В	1296	693	43	699	4%
	5	В	1247	697	48	707	5%
	6	В	1179	700	47	707	4%
	7	C	1215	712	52	723	4%
	8	C	1224	721	52	727	3%
	9	C	1105	713	54	719	3%
	10	D	1146	709	44	710	3%
	11	D	1055	718	43	717	3%
	12	D	920	724	43	721	2%

Table 11

Listening/Speaking: Cumulative Scale Score Distributions for Field Tests by Grade

cum. cum. <th< th=""><th></th><th></th><th>Grade K</th><th>le K</th><th></th><th></th><th></th><th></th><th>Gr</th><th>rade 01</th><th></th><th></th><th></th><th></th><th>Gra</th><th>Grade 02</th><th></th><th></th><th></th><th></th><th>Gra</th><th>Grade 03</th><th></th><th></th></th<>			Grade K	le K					Gr	rade 01					Gra	Grade 02					Gra	Grade 03		
66 618 416 675 96.1 SS port SS		cnm.		cnm.		cnm.		cum.		cum.		cum.		cnm.		cnm.		cum.		cum.		cnm.		cum.
5.6 618 41.6 67.5 64.1 61.5 61.8 41.6 67.5 66.5 61.9 42.8 67.9 84.1 49.5 1.5 63.2 92.7 70.6 63.5 57.5 68.7 6.6 619 42.8 67.9 68.1 17.2 61.9 17.8 92.9 63.9 62.7 67.0 68.7 87.2 68.8 83.9 5.7 17.9 90.0 52.4 60.0 69.9 87.2 17.0 90.0 52.4 60.0 69.0 87.8 52.4 17.0 90.0 52.4 60.0 69.0 98.0 67.2 17.1 68.0 18.0 58.2 1.0 71.8 63.9 18.1 63.0 17.1 69.0 99.0 56.4 1.0 97.8 64.7 16.6 69.0 99.0 56.4 1.0 97.8 64.7 16.0 69.0 99.0 56.4 1.0 97.8 64.7 16.6 99.0 99.0	SS	pcnt	SS	pcnt	SS	pcnt	SS	pcnt	SS	pent	SS	pent	SS	pcnt	SS	pcnt	SS	pent	SS	pcnt	SS	pcnt	SS	pent
56 618 411 675 81 495 11 619 12.5 63 92 70 88 0 52 55 68 62 55 68 66 619 42.8 61 41.8 61.9 68 61.9 41.8 61.9 68 61.9 71.8 62.9 51.9 68 52.4 40.8 83 53 11.9 71.8 94 55.0 50.0 60.0 </td <td></td>																								
66 619 42.8 679 68 53.4 1.4 620 12.9 68 53.4 1.4 620 13.9 68 53.4 1.4 620 1.3 68.5 61.9 63.2 1.0 63.7 19.9 60.2 44.0 68.1 73.4 68.2 87.1 53.2 1.0 67.1 90.0 53.4 1.8 4.3 92.0 53.0 18.0 93.0 68.0 69.0 93.0 56.4 2.4 63.0 1.0 71.2 90.0 78.2 78.1 78.0 93.0 93.0 93.0 93.0 93.0 93.0 93.0 93.0 93.0 93.0 93.0 93.0 93.0 93.0 93.0 94.0	495	9.6	618	41.6	675	96.3	495	1:1	619	12.5	629	84.1	495	1.5	632	9.2	705	88.0	495	0.5	622	5.5	989	45.9
72 620 440 681 974 530 117 622 13.7 682 87.1 532 20 63 63 605 619 718 944 532 0.8 62 64 62 44 68 98.1 62 44 68 98.1 62 44 68 98.1 62 44 68 98.1 62 10.9 718 944 532 0.8 66 63 99 66 63 99 68 27 640 129 732 95.4 39 0.9 68 89 24 43 11.0 68 92.4 44 732 95.4 70 93 92.4 74 70 93 94 44 732 96.4 70 99 74 44 63 24 44 73 96 97 74 44 73 96 97 97 98 98 74 44	524	9.9	619	42.8	629	8.96	524	1.4	620	12.9	681	85.5	530	1.8	633	9.5	712	0.06	524	9.0	623	5.7	289	49.7
8.2 6.2 4.44 6.82 9.79 5.32 1.47 6.86 8.84 5.54 2.2 6.7 10.9 718 9.44 6.82 9.9 6.5 6.9 6.9 9.8 9.8 6.2 4.86 8.81 5.49 1.2 7.2 9.44 5.5 9.9 9.0 9.0 9.0 9.8 5.4 4.8 9.4 7.2 9.4 5.7 1.0 9.7 9.0	530	7.2	620	44.0	681	97.4	530	1.7	622	13.7	682	87.1	532	2.0	635	10.5	715	92.0	530	8.0	624	6.1	069	53.4
90 623 844 686 981 549 21 624 150 687 892 564 24 639 124 732 954 549 687 990 98 624 496 687 892 564 30 624 496 887 551 23 66 100 993 584 30 624 496 897 554 30 624 496 897 554 30 628 30 628 30 628 30 628 30 628 30 588 34 630 102 700 993 588 34 630 102 700 993 588 34 630 102 700 993 588 34 630 102 700 993 588 34 630 102 700 993 38 48 633 220 712 703 903 64 41 649	532	8.2	622	46.4	682	6.76	532	1.8	623	14.7	989	88.4	554	2.2	637	10.9	718	94.4	532	8.0	626	6.3	693	6.99
9.8 6.24 4.96 687 9.24 6.64 9.09 5.68 2.7 640 12.9 5.51 1.0 6.28 6.7 9.8 6.7 1.0 6.0 8.7 5.4 3.1 6.41 1.2 735 9.65 5.51 1.0 6.93 7.2 7.0 9.0 8.7 2.7 8.8 2.4 4.1 7.8 9.84 5.61 1.0 6.93 7.2 7.0 9.3 5.8 4.2 6.8 7.0 9.3 5.8 4.2 6.8 7.0 9.3 5.8 4.2 6.8 7.0 9.3 5.8 4.2 6.8 7.0 9.3 5.8 8.1 6.3 1.0 9.3 6.8 4.1 6.4 1.7 7.5 1.0 9.3 6.8 4.0 6.1 7.0 9.3 9.3 1.0 9.3 9.3 9.3 9.4 1.7 9.3 9.4 1.7 9.3 9.4 1.7 9.3	549	0.6	623	48.4	989	98.1	549	2.1	624	15.0	289	89.5	564	2.4	639	12.4	732	95.4	549	6.0	627	6.7	695	61.3
103 626 509 987 554 28 621 17.5 693 92.4 57.4 3.1 643 14.4 738 98.4 563 1.3 630 97.2 703 11.1 627 52.7 695 98.9 564 3.0 628 17.9 60.9 97.7 69.9 564 16.6 7.0 99.7 70.9 97.7 69.0 99.4 71.2 99.7 70.8 4.0 63.1 63.2 10.0 99.4 71.2 99.7 50.9 58.8 3.4 63.0 21.0 99.7 57.8 4.2 63.2 21.0 70.9 94.7 64.8 71.2 99.7 57.8 4.2 63.2 21.0 70.9 4.1 65.2 50.4 4.0 69.3 4.0 4.0 69.3 4.0 4.0 69.3 4.0 4.0 69.3 4.0 4.0 6.0 4.0 6.0 4.0 6.0 4.0 6	551	8.6	624	49.6	289	98.2	551	2.3	626	16.0	069	6.06	899	2.7	640	12.9	735	5.96	551	1.0	628	6.9	700	8.49
11.1 627 52.7 695 98.9 564 3.0 628 17.9 695 93.8 58.3 3.4 641 15.1 755 100.0 564 1.7 70 94.7 58.6 3.6 647 16.6 568 1.6 63.8 1.6 40 61.2 70 94.7 58.6 3.6 647 16.6 568 1.6 568 1.6 568 1.6 568 1.6 568 1.6 56.4 1.7 57.2 1.7 77.7 1.7 60.2 1.7 648 1.7 56.4 58 1.6 64.7 1.6 58.8 1.6 63.2 1.7 7.2 1.7 1.7 1.7 64.8 1.7 57.4 1.6 63.2 1.7 7.2 1.8 1.1 63.2 1.7 7.2 1.8 1.8 60.4 4.4 65.9 2.7 2.7 64.8 1.7 58.2 64.9 1.7 58.2 <	554	10.3	626	6.05	069	7.86	554	2.8	627	17.5	693	92.4	574	3.1	643	14.4	738	98.4	563	1.3	630	7.2	703	6.89
12.0 62.8 3.4.0 70.0 99.3 56.8 3.4. 63.0 94.7 58.6 3.6 4.7 16.6 56.8 1.6 56.8 1.6 63.2 7.6 71.2 12.0 63.5 73.6 73.6 4.8 17.5 95.6 50.7 3.7 64.8 17.5 97.7 60.2 3.0 64.8 17.5 98.7 60.7 3.0 64.7 16.6 3.7 64.8 17.5 98.7 60.7 3.0 64.7 18.8 63.7 2.0 64.0 4.4 65.2 64.0 3.7 64.9 18.8 63.2 2.0 4.4 65.2 2.6 64.0 9.7 7.8 9.8 6.0 4.4 65.2 2.6 4.0 9.7 6.4 4.4 65.2 2.6 4.0 9.7 6.4 9.8 6.0 3.1 6.0 4.4 65.2 6.4 9.7 6.4 9.7 7.2 9.7 9.4	563	11.1	627	52.7	695	6.86	564	3.0	628	17.9	695	93.8	583	3.4	644	15.1	755	100.0	564	1.4	631	7.5	705	73.9
12.9 63.0 55.6 70.3 99.4 57.4 4.0 631 20.3 70.3 99.4 57.4 4.0 631 20.3 70.3 99.4 57.4 4.0 631 20.3 70.3 96.7 60.2 3.9 651 21.6 57.8 2.0 635 2.0 63.7 8.3 71.8 70.0 50.3 71.2 99.7 60.2 3.9 651 21.6 57.8 2.0 63.9 9.3 71.8 100.0 586 63.2 21.2 71.2 99.7 60.9 4.4 65.9 27.7 58.9 60.9 77.7 60.9 77.7 60.9 77.7 60.9 77.7 60.9 77.7 60.9 77.7 60.9 77.7 60.9 77.7 60.9 77.7 60.9 77.7 60.9 77.7 60.9 77.7 60.9 77.7 60.9 77.2 60.9 77.7 60.9 77.2 60.9 77.2 60.9	564	12.0	628	54.0	700	99.3	268	3.4	630	19.2	700	94.7	586	3.6	647	16.6			899	1.6	632	9.7	712	77.3
14.7 631 56.8 712 99.7 578 4.2 632 21.0 705 96.7 602 3.9 651 21.6 578 21. 67. 86. 3.1 67. 6	268	12.9	630	55.6	703	99.4	574	4.0	631	20.3	703	92.6	597	3.7	648	17.5			574	2.0	635	8.3	715	82.1
15.9 63.2 58.0 71.5 98.3 2.2 71.2 97.7 60.3 4.1 655 26.4 98.3 2.2 63.9 71.2 97.7 60.3 4.1 655 26.4 98.3 2.0 4.4 659 27.7 586 2.6 640 9.7 735 9.2 1.1 735 9.2 1.1 98.3 60.4 4.4 659 27.7 586 2.6 640 9.7 735 9.2 1.1 586 2.6 640 9.7 735 9.2 1.1 680 3.1 4.2 9.7 60.4 4.4 669 3.7 641 1.7 755 1.3 9.2 641 1.7 755 1.3 9.2 641 1.7 755 1.3 9.2 641 1.7 755 1.3 9.2 641 1.7 755 1.3 735 9.2 610 9.2 641 9.2 9.2 641 9.2 <td>574</td> <td>14.7</td> <td>631</td> <td>8.99</td> <td>712</td> <td>7.66</td> <td>578</td> <td>4.2</td> <td>632</td> <td>21.0</td> <td>705</td> <td>2.96</td> <td>602</td> <td>3.9</td> <td>651</td> <td>21.6</td> <td></td> <td></td> <td>578</td> <td>2.1</td> <td>637</td> <td>9.8</td> <td>718</td> <td>9.98</td>	574	14.7	631	8.99	712	7.66	578	4.2	632	21.0	705	2.96	602	3.9	651	21.6			578	2.1	637	9.8	718	9.98
18.1 633 60.3 718 60.9 4.4 659 27.7 586 2.6 640 9.7 735 18.8 635 6.3 718 98.7 60.9 4.8 660 31.6 593 2.9 641 718 97.7 735 98.2 10.4 738 99.2 61.1 4.9 664 37.8 596 3.2 649 10.4 596 4.2 599 2.7 60.9 4.8 660 31.6 599 2.9 611 4.9 644 37.8 596 3.2 644 10.7 758 10.0 618 5.8 604 44.2 599 2.7 644 31.2 39.8 616 5.5 614 46.8 599 3.2 641 11.6 599 3.2 641 4.8 609 3.8 679 3.2 641 4.8 609 3.2 699 4.2 610 4.2 609 4.2 </td <td>578</td> <td>15.9</td> <td>632</td> <td>58.0</td> <td>715</td> <td>6.66</td> <td>583</td> <td>4.8</td> <td>633</td> <td>22.2</td> <td>712</td> <td>7.76</td> <td>603</td> <td>4.1</td> <td>655</td> <td>26.4</td> <td></td> <td></td> <td>583</td> <td>2.2</td> <td>639</td> <td>9.3</td> <td>732</td> <td>89.5</td>	578	15.9	632	58.0	715	6.66	583	4.8	633	22.2	712	7.76	603	4.1	655	26.4			583	2.2	639	9.3	732	89.5
18.8 635 63.5 63.5 63.5 63.5 63.5 63.5 63.5 63.5 63.5 63.5 63.5 63.5 63.5 63.5 63.5 63.5 63.5 63.5 63.5 64.2 37.8 69.5 32.9 64.5 73.8 73.5 94.6 10.7 75.5 10.4 73.8 94.6 44.2 59.6 44.2 59.7 33.6 64.1 10.7 75.7 11.6 75.7 11.6 75.7 11.6 75.7 11.6 75.7 11.6 75.7 11.6 75.7 11.6 75.7 11.6 75.7 11.6 75.7 11.6 75.7 11.6 75.7 11.1 75.7 75.7 11.1 75.7 75.7 75.2	583	18.1	633	60.3	718	100.0	286	5.1	635	24.7	715	98.3	604	4.4	629	27.7			989	2.6	640	6.7	735	92.2
196 637 65.4 65.4 37.8 596 3.2 644 10.7 755 1 21.3 639 69.1 5.8 639 29.2 611 4.9 664 37.8 596 3.2 644 10.7 755 1 21.3 639 69.1 5.9 6.1 640 31.3 73 99.4 614 5.4 669 44.2 597 3.3 647 11.6 22.1 640 71.1 596 6.3 643 346 78 99.8 616 5.8 675 51.9 692 3.7 641 11.6 23.2 643 74.1 596 6.7 644 36.9 675 51.9 692 3.7 641 11.6 44.2 51.9 679 3.7 671 44.8 44.2 46.8 45.2 46.9 47.2 46.8 47.2 46.8 47.2 46.9 47.2 46.	286	18.8	635	63.5			290	5.3	637	26.8	718	7.86	609	8.8	099	31.6			593	2.9	643	10.4	738	95.0
21.3 639 69.1 59.4 614 5.4 669 44.2 59.7 3.3 647 22.1 640 71.1 596 6.3 643 34.6 738 99.8 616 5.5 674 46.8 599 3.5 648 22.1 640 71.1 596 6.3 643 34.6 738 99.8 616 5.5 674 46.8 599 3.7 648 23.2 643 74.1 599 7.0 644 40.0 619 6.3 679 55.3 609 3.7 648 42.5 100.0 618 5.8 673 53.3 679 3.7 681 681 58.4 604 3.9 651 679 652 671 682 62.1 604 3.9 652 653 682 62.1 604 3.9 652 653 693 683 684 684 684 684 684	280	19.6	637	65.4			591	5.8	639	29.2	732	99.2	611	4.9	664	37.8			969	3.2	644	10.7	755	100.0
22.1 640 71.1 596 6.3 643 34.6 738 99.8 616 5.5 674 46.8 599 3.6 648 755 100.0 618 5.8 675 51.9 602 3.7 651 24.8 64.4 75.7 64.4 36.8 75.5 100.0 618 5.8 675 51.9 602 3.7 651 25.8 64.4 75.7 64.8 42.5 60.0 6.6 681 58.4 60.4 3.9 655 25.8 64.7 78.3 60.2 7.7 64.8 42.5 62.0 6.6 681 58.4 60.4 3.9 659 27.1 64.8 7.9 651 49.2 62.0 6.6 681 68.4 69.4 60.4 4.0 60.4 69.4 60.4 69.4 60.4 4.0 60.4 69.4 69.4 69.4 69.4 69.4 69.4 69.4	591	21.3	639	69.1			593	6.1	640	31.3	735	99.4	614	5.4	699	44.2			297	3.3	647	11.6		
23.2 643 74.1 597 67.1 644 36.8 755 100.0 618 5.8 675 51.9 602 3.7 651 24.8 644 75.7 648 42.5 100.0 619 6.3 679 55.3 603 3.9 659 25.8 647 78.3 602 7.7 648 42.5 620 6.6 681 58.4 604 3.9 659 27.1 648 79.8 603 7.9 651 49.2 6.7 682 62.1 604 4.0 609 28.8 651 83.4 604 7.9 655 55.8 623 6.9 668 65.8 609 4.1 604 7.2 609 4.1 604 7.2 609 7.2 609 7.2 609 7.2 609 7.2 609 7.4 609 7.6 628 7.7 693 7.4 618	593	22.1	640	71.1			969	6.3	643	34.6	738	8.66	919	5.5	674	46.8			299	3.5	648	12.5		
24.8 644 75.7 599 7.0 647 40.0 619 6.3 679 55.3 603 3.8 655 25.8 647 78.3 602 7.7 648 42.5 620 6.6 681 58.4 604 3.9 659 25.8 647 78.3 603 7.9 651 49.2 67.2 67.2 67.2 67.3 69.4 67.9 68.6 65.8 65.9 68.0 65.8 66.9 4.1 66.9 30.6 655 86.6 67.3 6.9 686 65.8 65.9 4.1 66.9 4.1 66.9 4.1 66.9 4.1 66.9 67.2 69.0 72.2 69.0 72.2 69.0 4.1 67.5 4.2 67.2 69.0 4.9 67.0 4.9 67.0 67.0 68.0 68.0 4.1 67.0 68.0 4.2 67.0 68.0 4.2 67.0 68.	969	23.2	643	74.1			597	6.7	644	36.8	755	100.0	618	5.8	675	51.9			602	3.7	651	14.1		
25.8 647 78.3 602 7.7 648 42.5 620 6.6 681 58.4 604 3.9 659 27.1 648 79.8 603 7.9 651 49.2 6.7 682 62.1 60.1 60.4 4.0 600 28.8 651 83.4 604 7.9 655 55.8 6.9 686 65.8 60.9 4.1 664 30.6 655 86.6 607 8.2 659 57.3 624 7.0 687 69.4 611 4.2 669 31.7 659 87.3 60 63.1 626 7.2 690 72.2 614 4.6 674 36.2 664 89.3 664 69.9 66.7 7.7 693 74.9 616 4.7 675 36.2 664 99.0 667 7.7 693 79.4 618 4.8 679	297	24.8	644	75.7			599	7.0	647	40.0			619	6.3	629	55.3			603	3.8	655	16.0		
27.1 648 79.8 603 7.9 651 49.2 67 682 67.1 682 62.1 68.4 67.3 69.9 68.6 68.8 65.8 67.3 69.9 68.0 68.0 68.0 68.0 68.0 68.0 68.0 68.0 68.0 68.0 68.0 68.0 68.0 68.0 68.0 69.0 <td>299</td> <td>25.8</td> <td>647</td> <td>78.3</td> <td></td> <td></td> <td>602</td> <td>7.7</td> <td>648</td> <td>42.5</td> <td></td> <td></td> <td>620</td> <td>9.9</td> <td>681</td> <td>58.4</td> <td></td> <td></td> <td>604</td> <td>3.9</td> <td>629</td> <td>16.8</td> <td></td> <td></td>	299	25.8	647	78.3			602	7.7	648	42.5			620	9.9	681	58.4			604	3.9	629	16.8		
28.8 651 83.4 604 7.9 655 55.8 623 6.9 686 65.8 66.9 4.1 664 30.6 655 86.6 607 8.2 659 57.3 624 7.0 687 69.4 611 4.2 669 31.7 659 87.3 609 9.3 660 63.1 626 7.2 690 72.2 614 4.6 674 34.4 660 89.3 611 9.8 664 69.9 627 7.7 693 74.9 616 4.7 675 36.2 644 92.0 614 11.0 669 76.6 628 8.0 695 79.4 618 4.8 679 38.8 669 94.3 616 11.4 674 78.6 630 8.1 700 82.1 619 5.0 681 38.8 669 94.3 618 12.0 675	602	27.1	648	8.62			603	7.9	651	49.2			622	6.7	682	62.1			209	4.0	099	18.3		
30.6 655 86.6 607 8.2 659 57.3 624 7.0 687 69.4 611 4.2 669 31.7 659 87.3 609 9.3 660 63.1 626 7.2 690 72.2 614 4.6 674 34.4 660 89.3 611 9.8 664 69.9 627 7.7 693 74.9 616 4.7 675 36.2 664 92.0 614 11.0 669 76.6 628 8.0 695 79.4 618 4.8 679 38.8 669 94.3 616 11.4 674 78.6 631 8.1 700 82.1 619 5.0 681 38.8 679 94.8 618 12.0 675 82.1 82.3 620 5.1 682 82 630 82.1 630 82.1 630 82.1 630 82.1 630	603	28.8	651	83.4			604	7.9	655	55.8			623	6.9	989	8.59			609	4.1	664	22.2		
31.7 659 87.3 609 9.3 660 63.1 626 7.2 690 72.2 691 4.6 674 34.4 660 89.3 611 9.8 664 69.9 627 7.7 693 74.9 616 4.7 675 36.2 664 92.0 614 11.0 669 76.6 628 8.0 695 79.4 618 4.8 679 38.8 669 94.3 616 11.4 674 78.6 630 8.1 700 82.1 619 5.0 681 39.8 674 94.8 618 12.0 675 82.1 631 8.6 703 85.2 620 5.1 682	604	30.6	655	9.98			209	8.2	629	57.3			624	7.0	289	69.4			611	4.2	699	27.1		
34.4 660 89.3 611 9.8 664 69.9 627 7.7 693 74.9 616 4.7 675 36.2 664 92.0 614 11.0 669 76.6 628 8.0 695 79.4 618 4.8 679 38.8 669 94.3 616 11.4 674 78.6 630 8.1 700 82.1 619 5.0 681 39.8 674 94.8 618 12.0 675 82.1 631 8.6 703 85.2 620 5.1 682	209	31.7	629	87.3			609	9.3	099	63.1			626	7.2	069	72.2			614	4.6	674	28.9		
36.2 664 92.0 614 11.0 669 76.6 628 8.0 695 79.4 618 4.8 679 1 38.8 669 94.3 616 11.4 674 78.6 630 8.1 700 82.1 619 5.0 681 5 39.8 674 94.8 618 12.0 675 82.1 631 8.6 703 85.2 620 5.1 682	609	34.4	099	89.3			611	8.6	664	6.69			627	7.7	693	74.9			919	4.7	675	33.5		
669 94.3 616 11.4 674 78.6 630 8.1 700 82.1 619 5.0 681 674 94.8 618 12.0 675 82.1 631 8.6 703 85.2 620 5.1 682	611	36.2	664	92.0			614	11.0	699	9.97			628	8.0	969	79.4			618	4.8	629	36.5		
674 94.8 618 12.0 675 82.1 631 8.6 703 85.2 620 5.1 682	614	38.8	699	94.3			616	11.4	674	9.87			630	8.1	700	82.1			619	5.0	681	39.5		
	616	39.8	674	94.8			618	12.0	675	82.1			631	9.8	703	85.2			620	5.1	682	42.1		

Table 11 (cont.)

Listening/Speaking: Cumulative Scale Score Distributions for Field Tests by Grade

Cum. Cum. <th< th=""><th></th><th></th><th></th><th>Gr</th><th>Grade 04</th><th></th><th></th><th></th><th></th><th></th><th></th><th>Grade 05</th><th>le 05</th><th></th><th></th><th></th><th></th><th></th><th></th><th>Grae</th><th>Grade 06</th><th></th><th></th><th></th></th<>				Gr	Grade 04							Grade 05	le 05							Grae	Grade 06			
point SS 24 SS 24 SS 24 SS 24 SS 24 SS 24 SS 26 SS 25 11 680 SS 25 11 680 SS 25 11 680 SS 26 SS 27 27 27 27 27 28 64 11 680 SS 23 26 28 28 11 680 SS 23 26 28 27 27 27 <th></th> <th>cnm.</th> <th></th> <th>cum.</th> <th></th> <th>cnm.</th> <th></th> <th>cnm.</th> <th></th> <th>cnm.</th> <th></th> <th>cnm.</th> <th></th> <th>cnm.</th> <th></th> <th>cnm.</th> <th></th> <th>cum.</th> <th></th> <th>cnm.</th> <th></th> <th>cnm.</th> <th></th> <th>cum.</th>		cnm.		cum.		cnm.		cnm.		cnm.		cnm.		cnm.		cnm.		cum.		cnm.		cnm.		cum.
14 647 91 680 241 720 560 225 71 675 573 20 648 110 680 241 120 732 730 732 730 675 573 20 648 110 681 261 731 731 731 731 731 732 730 673 230 643 110 680 283 730 732 730 648 110 681 263 731 683 731 683 732 731 683 732 731 683 732 731 683 732 734 732 846 110 683 734 732 849 631 130 857 649 130 732 840 831 732 848 831 732 844 831 732 844 831 732 844 833 833 834 834 834 833 834 834	SS	pent	SS	pent	SS	pent	SS	pent	SS	pent	SS	pent		pent	SS	pent	SS	pent	SS	pent	SS	pent	SS	pent
11. 644 9.1 8.0 2.3 644 1.0 679 2.2 7.0 1.8 7.0 1.0 1.0 1.0 1.0 9.0 2.2 7.0 1.0 1.0 8.0 2.0 1.0 1.0 8.0 2.0 1.0 1.0 8.0 2.0 1.0 1.0 8.0 2.0 1.0 8.0 2.0 1.0 8.0 2.0 1.0 8.0 2.0 4.0 1.0 8.0 2.0 2.0 4.0 1.0 8.0 2.0 6.0 1.0 8.0 2.0 6.0 1.0 8.0 2.0 6.0 1.0 8.0 2.0 8.0 2.0 6.0 1.0 8.0 2.0 6.0 1.0 8.0 8.0 2.0 8.0 <td>1</td> <td>,</td> <td></td> <td>•</td> <td></td> <td></td> <td>i i</td> <td>i i</td> <td></td> <td></td> <td></td> <td>0</td> <td>į</td> <td></td> <td>i</td> <td>1</td> <td></td> <td>•</td> <td>į</td> <td>•</td> <td>Q.</td> <td></td> <td>i i</td> <td>(</td>	1	,		•			i i	i i				0	į		i	1		•	į	•	Q.		i i	(
12 648 16 71 75 74	260	-:	64./	9.1	089	24.1	/20	73.2	260	2.3	646	10.9	6/9	22.7	118	65.9	260	1.9	64.7	10.9	089	26.5	/50	0.99
14 649 100 683 279 72 78 11 649 100 683 274 72 77 78 28 71 681 28 71 681 28 71 681 28 73 61 10 683 29 726 88 29 12 684 28 71 73 88 11 683 29 726 88 29 29 12 684 28 74 73 88 29 89 29 68 29 74 73 74 89 29 68 29 74 73 74 89 73 74 89 73 74 89 73 74 89 74 73 89 74 89 74 89 74 89 74 89 74 89 74 89 74 89 74 89 74 89 74 89 74 <td>573</td> <td>1.2</td> <td>648</td> <td>9.4</td> <td>681</td> <td>26.1</td> <td>721</td> <td>75.1</td> <td>574</td> <td>2.7</td> <td>647</td> <td>11.1</td> <td>089</td> <td>25.8</td> <td>720</td> <td>67.5</td> <td>573</td> <td>2.0</td> <td>648</td> <td>11.2</td> <td>681</td> <td>27.8</td> <td>721</td> <td>8.79</td>	573	1.2	648	9.4	681	26.1	721	75.1	574	2.7	647	11.1	089	25.8	720	67.5	573	2.0	648	11.2	681	27.8	721	8.79
1.6 651 10.4 684 288 724 80.4 590 2.9 649 12.0 683 27.4 71.0 651 10.4 684 288 724 80.4 590 2.9 649 12.0 683 27.4 73.0 57.2 80.0 3.0 2.0 6.2 12.5 684 28.2 71.0 57.0 52.0 23.0 <t< td=""><td>574</td><td>1.4</td><td>649</td><td>10.0</td><td>683</td><td>27.0</td><td>722</td><td>9.77</td><td>579</td><td>2.8</td><td>648</td><td>11.6</td><td>681</td><td>26.8</td><td>721</td><td>6.89</td><td>574</td><td>2.2</td><td>649</td><td>11.7</td><td>683</td><td>28.9</td><td>722</td><td>70.3</td></t<>	574	1.4	649	10.0	683	27.0	722	9.77	579	2.8	648	11.6	681	26.8	721	6.89	574	2.2	649	11.7	683	28.9	722	70.3
2.2 652 11.0 686 29.9 726 82.9 726 82.9 726 82.9 726 82.9 726 82.9 726 82.9 726 82.9 72.9 82.9 72.9 83.9 83.9	590	1.6	651	10.4	684	28.8	724	80.4	590	2.9	649	12.0	683	27.4	722	71.0	579	2.3	651	12.4	684	30.2	724	72.2
23 653 11.1 687 3.0 727 84.0 600 3.6 622 12.9 74.0 75.0 65.7 12.9 68.0 29.0 72.0 74.0 83.7 72.0 83.7 72.0 83.7 84.0 60.0 3.0 653 11.0 688 31.3 73.0 83.2 73.0 83.2 83.0 73.0 83.7 84.0 84.0 60.0 44 652 13.4 63.2 84.0 60.0 3.6 63.2 13.2 84.0 60.0 44.0 65.2 13.4 63.2 83.2 83.2 83.2 65.0 13.0 63.7 13.0 83.2 13.2 84.0 60.0 44.0 65.2 13.4 63.2 13.2 84.0 60.0 44.0 65.2 13.2 84.2 60.0 3.6 61.0 44.0 65.0 13.2 63.2 13.2 84.2 65.0 13.0 63.2 13.2 84.2 65.0	591	2.2	652	11.0	989	29.9	726	82.8	591	3.4	651	12.5	684	28.2	724	73.0	590	2.5	652	12.5	989	32.3	726	73.2
2.5 6.54 11.4 6.88 31.7 73.0 8.5.7 6.0 3.9 6.53 13.1 68.7 3.4 6.54 11.4 6.88 31.7 73.0 8.3 73.0 8.3 73.0 8.3 73.0 8.3 73.0 8.3 73.0 8.3 73.0 8.3 73.0 8.3 73.0 8.3 73.0 8.3 73.0 8.3 73.0 8.3 73.0 8.3 8.3 73.0 8.3 73.0 8.3 8.3 73.0 8.3 73.0 8.3 9.3 73.0 8.3 73.0 8.3 73.0 8.3 73.0 8.3 73.0 8.3 73.0 8.3 73.0 8.3 8.3 73.0 8.3 73.0 8.3 8.3 73.0 8.3 73.0 8.3 73.0 8.3 8.3 73.0 8.3 73.0 8.3 73.0 8.3 73.0 8.3 73.0 8.3 73.0 8.3 73.0 <th< td=""><td>595</td><td>2.3</td><td>653</td><td>11.1</td><td>289</td><td>30.9</td><td>727</td><td>84.0</td><td>009</td><td>3.6</td><td>652</td><td>12.9</td><td>989</td><td>29.6</td><td>726</td><td>74.6</td><td>595</td><td>2.9</td><td>653</td><td>13.0</td><td>289</td><td>32.7</td><td>727</td><td>74.6</td></th<>	595	2.3	653	11.1	289	30.9	727	84.0	009	3.6	652	12.9	989	29.6	726	74.6	595	2.9	653	13.0	289	32.7	727	74.6
2.8 6.55 11.6 6.89 3.4.4 73.2 88.4 6.05 4.1 654 13.6 688 3.1.8 730 78.2 60.2 3.4 655 13.6 88.3 13.8 730 78.2 60.2 3.4 655 14.9 60.2 3.4 65.2 14.4 65.2 13.7 68.9 12.8 73.2 82.2 60.9 3.6 61.2 3.7 65.8 14.6 69.1 3.4 73.2 83.2 60.9 3.6 61.2 3.7 65.9 14.0 65.2 15.2 69.2 37.2 74.0 69.9 3.6 61.2 3.7 61.0 4.4 65.1 13.0 69.9 3.6 61.0 4.4 65.1 13.0 69.9 3.6 61.0 4.4 65.1 12.0 69.9 3.8 74.0 69.1 3.4 73.2 8.9 3.7 74.0 69.1 3.4 74.0 69.1 3.4 74.0 69.1	009	2.5	654	11.4	889	31.7	730	85.7	602	3.9	653	13.1	289	30.4	727	76.4	009	3.3	654	13.3	889	33.0	730	0.97
2.8 656 11.8 691 35.5 736 90.0 607 4.4 655 13.7 689 3.2 60.9 3.6 656 14.9 63.1 73.9 87.8 61.3 7.6 69.2 37.1 73.9 91.7 60.9 3.4 65.1 4.4 65.1 4.4 65.1 4.4 65.1 4.4 65.1 4.4 65.1 4.4 65.1 4.4 65.1 4.4 65.1 4.4 65.1 4.4 65.1 4.4 65.2 1.4 69.1 4.4 65.2 1.4 69.1 4.4 65.1 4.4 65.2 1.4 69.1 4.4 65.2 66.1 6.2 69.2 4.4 69.2 4.4 69.2 4.4 69.2 4.4 69.2 4.4 69.2 4.4 69.2 4.4 69.2 4.4 69.2 4.4 69.2 4.4 69.2 4.4 69.2 4.4 69.2 4.4 69.2	602	2.8	655	11.6	689	34.4	732	88.4	605	4.1	654	13.6	889	31.8	730	78.2	602	3.4	655	13.8	689	34.7	732	79.3
3.0 658 126 692 37.1 739 91.7 609 4.8 656 14.4 691 33.4 736 84.1 612 3.7 658 13.9 67.3 14.9 93.0 612 4.9 658 15.2 692 35.1 73.9 87.8 61.3 4.0 659 14.9 699 39.9 74 3.4 659 13.4 692 15.2 692 35.1 73.9 87.8 61.3 4.0 692 37.2 74 3.9 660 13.4 692 15.2 692 35.1 73.9 88.9 66.0 15.0 692 37.2 74 74 74 74 74 74 74 74 74 74 74 74 74 74 75 74 74 75 74 74 74 74 74 74 74 74 74 74 74 74 74	209	2.8	959	11.8	691	35.5	736	0.06	209	4.4	655	13.7	689	32.8	732	82.2	609	3.6	959	14.3	691	35.2	736	80.3
3.4 659 1.9. 694 3.9. 744 93.0 612 4.9 682 3.5.1 739 87.8 613 4.0 659 14.9 694 3.9.1 744 3.5 660 13.4 695 41.0 746 93.7 613 5.4 659 15.2 694 37.6 744 88.6 615 4.3 601 15.6 695 3.9 746 3.9 661 13.8 697 41.6 693 4.6 650 15.6 697 40.6 618 4.8 611 6.0 697 4.6 697 40.6 697 40.6 697 40.6 697 40.6 697 40.6 698 41.9 748 94.9 698 41.9 748 94.0 44.6 67.8 41.0 748 94.0 688 41.9 748 94.0 689 41.9 753 95.0 698 41.9 748	609	3.0	859	12.6	692	37.1	739	91.7	609	4.8	959	14.4	691	33.4	736	84.1	612	3.7	859	14.6	692	37.2	739	83.8
3.5 660 13.4 695 41.0 746 93.7 613 5.4 659 15.2 694 37.6 615 6.4 615 6.4 88.6 615 4.8 61.0 15.0 693 39.4 746 99.7 61.3 5.4 691 15.7 692 4.1 61.0 <	613	3.4	629	12.9	694	39.4	744	93.0	612	4.9	859	15.2	692	35.1	739	87.8	613	4.0	629	14.9	694	39.1	744	85.2
3.9 661 13.8 697 43.3 748 94.7 615 5.8 660 15.7 695 38.4 746 90.4 618 4.8 611 15.7 697 4.06 748 91.9 620 5.1 662 16.6 684 4.0 748 91.9 620 5.1 662 16.6 684 4.0 748 91.9 620 5.1 662 17.0 698 41.9 753 92.8 623 17.0 698 41.9 753 92.8 620 15.7 698 41.9 753 92.8 60 15.7 698 41.9 753 92.8 60 95.7 66 17.0 698 41.9 753 95.8 66 17.3 70 44.4 756 95.7 62 17.0 698 41.9 753 95.8 66 18.2 70 44.4 756 95.0 66 18.2 70 44.4 <t< td=""><td>615</td><td>3.5</td><td>099</td><td>13.4</td><td>695</td><td>41.0</td><td>746</td><td>93.7</td><td>613</td><td>5.4</td><td>629</td><td>15.2</td><td>694</td><td>37.6</td><td>744</td><td>9.88</td><td>615</td><td>4.3</td><td>099</td><td>15.6</td><td>969</td><td>39.9</td><td>746</td><td>8.98</td></t<>	615	3.5	099	13.4	695	41.0	746	93.7	613	5.4	629	15.2	694	37.6	744	9.88	615	4.3	099	15.6	969	39.9	746	8.98
4.0 662 14.6 698 44.6 753 95.6 618 6.2 661 16.2 697 40.6 74.8 91.9 620 5.1 662 17.0 698 41.9 753 92.8 623 17.0 698 41.9 753 92.8 623 17.0 698 41.9 753 92.8 623 17.0 700 44.4 756 93.7 624 17.0 700 44.4 756 93.7 624 17.0 700 44.4 756 93.7 629 73 45.4 769 93.7 620 17.3 701 44.4 760 95.0 667 18.9 702 44.4 760 95.0 667 18.9 703 44.4 760 95.0 667 18.2 703 45.4 760 96.0 67.0 18.2 703 46.4 760 96.0 67.0 18.2 703 48.4 781 97.2 660	618	3.9	661	13.8	269	43.3	748	94.7	615	5.8	099	15.7	695	38.4	746	90.4	618	4.8	199	15.7	L69	42.4	748	89.3
4.5 663 14.8 700 47.3 756 96.6 620 17.0 698 41.9 753 92.8 623 5.6 663 17.0 700 46.3 756 49.3 756 93.7 624 60 65 17.3 701 47.9 760 95.0 65 65 17.3 701 47.9 760 95.0 65 17.3 701 47.9 760 95.0 65 17.3 701 47.9 760 95.0 65 17.3 701 47.9 760 95.0 65 17.3 701 47.0 760 95.0 65 17.9 702 703 703 704 47.2 769 96.0 67 17.0 47.0 702 96.0 67 17.0 47.2 769 96.3 67.3 703 47.2 769 96.3 67.3 703 703 703 703 704 704 705 703 <t< td=""><td>620</td><td>4.0</td><td>662</td><td>14.6</td><td>869</td><td>44.6</td><td>753</td><td>92.6</td><td>618</td><td>6.2</td><td>199</td><td>16.2</td><td>L69</td><td>40.6</td><td>748</td><td>91.9</td><td>620</td><td>5.1</td><td>662</td><td>9.91</td><td>869</td><td>44.0</td><td>753</td><td>6.06</td></t<>	620	4.0	662	14.6	869	44.6	753	92.6	618	6.2	199	16.2	L69	40.6	748	91.9	620	5.1	662	9.91	869	44.0	753	6.06
4.8 665 15.1 701 49.1 760 97.7 623 7.3 663 17.3 700 44.4 756 93.7 624 6.0 665 17.3 701 49.0 95.0 627 6.5 666 18.3 703 45.4 769 95.0 627 6.5 666 18.3 703 45.4 769 96.0 667 18.9 704 47.2 769 96.8 631 87.2 666 18.3 703 45.4 769 96.9 667 18.9 704 47.2 769 96.8 631 87.2 666 18.3 703 48.4 781 97.7 638 89.1 704 47.2 769 96.8 631 87.2 669 18.2 704 47.2 769 96.8 631 87.2 48.4 781 97.7 638 89.2 601 97.0 48.4 781 97.7 638 97.1 638 </td <td>623</td> <td>4.5</td> <td>693</td> <td>14.8</td> <td>700</td> <td>47.3</td> <td>756</td> <td>9.96</td> <td>620</td> <td>6.4</td> <td>662</td> <td>17.0</td> <td>869</td> <td>41.9</td> <td>753</td> <td>92.8</td> <td>623</td> <td>9.6</td> <td>699</td> <td>17.0</td> <td>200</td> <td>46.3</td> <td>756</td> <td>92.2</td>	623	4.5	693	14.8	700	47.3	756	9.96	620	6.4	662	17.0	869	41.9	753	92.8	623	9.6	699	17.0	200	46.3	756	92.2
5.3 666 15.5 703 50.9 765 98.4 624 7.4 665 17.8 701 44.6 760 95.0 627 65 18.9 703 49.0 765 5.4 667 16.4 704 51.9 76 98.7 627 7.6 666 18.3 703 45.4 765 96.1 628 67 18.4 704 57.5 668 18.9 704 47.2 769 96.8 671 75 668 18.7 703 48.4 781 97.7 638 87.1 69.8 67.1 704 47.2 769 96.8 67.1 704 47.2 769 96.8 67.1 705 48.4 781 97.7 68.8 67.1 705 48.4 781 97.7 68.8 67.0 707 708 88.8 69.0 19.9 707 51.6 708 88.8 69.0 19.9 707 51.6	624	4.8	999	15.1	701	49.1	092	7.76	623	7.3	699	17.3	700	44.4	156	93.7	624	0.9	999	17.3	701	47.9	092	93.5
5.4 667 16.4 704 51.9 76 98.7 666 18.3 703 45.4 765 96.1 628 67 18.4 704 50.2 96.1 628 67 18.9 704 47.2 769 96.8 631 7.5 688 18.7 705 48.4 781 97.7 689 689 631 8.2 669 19.9 704 47.2 769 96.8 631 7.5 688 19.7 769 96.8 631 7.5 689 97.7 639 98.2 634 87.7 669 20.1 707 53.6 77 78 78 98.2 634 87.7 669 20.1 707 53.6 77 67 87.7 683 87.7 683 87.7 683 87.2 707 87.8 87.2 708 87.2 708 87.2 708 87.2 709 88.2 67.2 87.2 87.2	627	5.3	999	15.5	703	50.9	765	98.4	624	7.4	999	17.8	701	44.6	092	95.0	627	6.5	999	18.0	703	49.0	292	95.2
5.7 668 16.8 705 53.4 781 99.3 628 8.0 667 18.9 704 47.2 769 96.8 631 7.5 668 18.7 705 51.5 781 5.8 669 17.9 707 51.6 782 98.2 634 8.2 670 20.1 707 53.6 785 6.3 670 18.2 708 52.8 707 51.6 785 98.2 634 8.2 670 20.1 707 53.6 98.2 639 98.2 639 98.2 639 707 51.6 785 98.2 634 8.2 670 20.1 707 51.6 788 88.2 639 88.2 649 707 51.6 788 88.2 634 89.2 670 89.2 670 89.2 670 89.2 670 89.2 670 89.2 670 89.2 670 89.2 670	630	5.4	<i>L</i> 99	16.4	704	51.9	692	7.86	627	9.7	999	18.3	703	45.4	765	96.1	628	6.7	L99	18.4	704	50.4	692	95.8
5.8 669 17.9 707 57.2 785 99.5 631 8.2 668 19.3 705 48.4 781 97.7 633 7.7 669 70.1 707 51.6 785 98.2 634 8.2 670 20.6 707 716 716 718 719 98.8 636 8.4 672 21.3 710 56.4 805 710 678 57.8 719 98.8 636 8.4 672 21.3 710 56.4 805 700 672 21.0 710 56.8 805 100 672 21.0 710 56.8 805 100 634 805 710 639 87 674 805	631	5.7	899	16.8	705	53.4	781	99.3	628	8.0	<i>L</i> 99	18.9	704	47.2	692	8.96	631	7.5	899	18.7	705	51.5	781	97.5
6.3 670 18.2 708 58.7 791 99.8 633 8.5 669 19.9 707 51.6 785 98.2 634 8.2 670 20.6 708 52.8 791 98.8 636 8.4 672 21.3 710 56.4 805 6.8 6.7 10.0 634 8.9 670 20.7 708 52.8 791 98.8 636 8.4 672 21.3 710 56.4 805 100.0 637 8.6 673 21.6 711 58.1 711 8.8 673 21.6 711 58.1 711 8.8 673 8.6 673 21.6 711 58.1 711 8.8 673 8.6 673 21.6 711 58.1 711 8.8 8.8 674 8.9 8.8 8.8 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9	633	5.8	699	17.9	707	57.2	785	99.5	631	8.2	899	19.3	705	48.4	781	7.76	633	7.7	699	20.1	707	53.6	785	0.86
6.5 672 18.8 710 60.4 805 100.0 634 8.9 670 20.7 708 52.8 791 98.8 636 8.4 672 21.3 710 56.4 805 6.8 673 19.4 711 62.1 71 54.8 805 100.0 637 8.6 673 21.0 710 54.8 805 100.0 637 8.6 673 21.0 711 56.5 8.9 673 21.0 711 56.5 8.0 673 21.9 711 56.5 8.9 674 22.8 712 58.0 642 9.1 674 23.1 712 58.0 642 9.1 675 23.6 714 59.6 7.9 676 21.9 712 58.0 643 9.4 676 23.6 716 69.1 675 23.3 714 61.1 644 9.9 678 25.3 716 62.7 <td>634</td> <td>6.3</td> <td>029</td> <td>18.2</td> <td>802</td> <td>58.7</td> <td>791</td> <td>8.66</td> <td>633</td> <td>8.5</td> <td>699</td> <td>19.9</td> <td>707</td> <td>51.6</td> <td>785</td> <td>98.2</td> <td>634</td> <td>8.2</td> <td>029</td> <td>20.6</td> <td>208</td> <td>55.1</td> <td>791</td> <td>98.5</td>	634	6.3	029	18.2	802	58.7	791	8.66	633	8.5	699	19.9	707	51.6	785	98.2	634	8.2	029	20.6	208	55.1	791	98.5
6.8 673 19.4 711 62.1 636 9.0 672 21.0 710 54.8 805 100.0 637 8.6 673 21.6 711 6.9 674 20.2 712 64.6	636	6.5	672	18.8	710	60.4	805	100.0	634	8.9	029	20.7	802	52.8	791	8.86	989	8.4	672	21.3	710	56.4	805	100.0
6.9 674 20.2 712 64.6 64.6 64.6 64.2 <t< td=""><td>639</td><td>8.9</td><td>673</td><td>19.4</td><td>711</td><td>62.1</td><td></td><td></td><td>989</td><td>0.6</td><td>672</td><td>21.0</td><td>710</td><td>54.8</td><td>805</td><td>100.0</td><td>637</td><td>9.8</td><td>673</td><td>21.6</td><td>711</td><td>58.1</td><td></td><td></td></t<>	639	8.9	673	19.4	711	62.1			989	0.6	672	21.0	710	54.8	805	100.0	637	9.8	673	21.6	711	58.1		
7.7 675 20.5 714 66.3 639 9.5 674 22.8 712 58.0 642 9.1 675 23.6 714 7.9 676 21.9 715 68.2 642 9.9 675 23.3 714 61.1 643 9.4 676 24.6 715 8.4 678 22.2 716 69.6 644 10.1 676 23.8 715 63.1 644 9.9 678 25.3 716 8.6 679 23.6 711 642 10.6 678 24.1 716 642 10.5 679 26.2 718	640	6.9	674	20.2	712	64.6			637	0.6	673	21.9	7111	56.5			639	8.7	674	23.1	712	58.9		
7.9 676 21.9 71.5 68.2 64.2 9.9 675 23.3 714 61.1 64.3 9.4 676 24.6 715 8.4 678 22.2 716 69.6 69.6 64.3 10.1 676 23.8 715 63.1 644 9.9 678 25.3 716 8.6 679 23.6 71.1 644 10.6 678 24.1 716 64.2 646 10.5 679 26.2 718	642	7.7	675	20.5	714	66.3			639	9.5	674	22.8	712	58.0			642	9.1	675	23.6	714	9.69		
8.4 678 22.2 716 69.6 643 10.1 676 23.8 715 63.1 644 9.9 678 25.3 716 8.6 679 23.6 718 71.1 644 10.6 678 24.1 716 64.2 646 10.5 679 26.2 718	643	7.9	929	21.9	715	68.2			642	6.6	675	23.3	714	61.1			643	9.4	9/9	24.6	715	61.0		
8.6 679 23.6 718 71.1 644 10.6 678 24.1 716 64.2 646 10.5 679 26.2 718	644	8.4	829	22.2	716	9.69			643	10.1	9/9	23.8	715	63.1			644	6.6	829	25.3	716	62.7		
	646	9.8	629	23.6	718	71.1			644	10.6	829	24.1	716	64.2			646	10.5	629	26.2	718	64.5		

Table 11 (cont.)

Listening/Speaking: Cumulative Scale Score Distributions for Field Tests by Grade

4.0. 5.0. 6.0. <th< th=""><th></th><th></th><th></th><th>Grade 07</th><th>le 07</th><th></th><th></th><th></th><th></th><th></th><th></th><th>Grade 08</th><th>e 08</th><th></th><th></th><th></th><th></th><th></th><th></th><th>Grae</th><th>Grade 09</th><th></th><th></th><th></th></th<>				Grade 07	le 07							Grade 08	e 08							Grae	Grade 09			
5.3 point SS 142 684 284 284 285 384 286 35 675 785 685 185 675 189 685 184 785 884 285 384 285 384 285 384 285 385		cnm.		cnm.		cam.		cnm.		cnm.	-	cam.		cum.		cum.		cnm.		cnm.		cmm.		cum.
5.3 65.2 13.9 68.3 2.6 7.2 7.8 4 65.3 13.5 68.4 25.8 7.2 7.8 4 65.2 13.2 68.5 5.9 7.6 7.5 8.9 3.6 4.1 68.4 2.8.1 7.2 8.8 3.6 13.0 68.5 2.9 7.2 7.5 8.9 3.0 6.5 6.7 7.9 7.2 8.9 7.0 6.2 19.3 6.8 3.0 6.2 9.0 6.0	SS	pcnt	SS	pcnt	SS	pent	SS	pent	SS	pent		pent		pent	SS	pent	SS	pent	SS	pent	SS	pent	SS	pent
5.5 65.2 1.2 68.4 2.8 7.4 7.8 7.5 7.4 7.8 7.5 7.4 7.8 7.2 7.4 7.8 7.2 7.4 7.8 7.5 7.4 7.8 7.2 7.4 7.8 7.5 7.2 </td <td></td> <td>Ċ</td> <td></td> <td></td> <td>0</td> <td></td> <td>C</td> <td>9</td> <td></td> <td>,</td> <td></td> <td></td> <td></td> <td>0</td> <td></td> <td>c E</td> <td></td> <td>(</td> <td></td> <td>9</td> <td>Ç</td> <td></td> <td></td> <td>i</td>		Ċ			0		C	9		,				0		c E		(9	Ç			i
57 633 142 684 281 725 893 589 159 685 219 688 365 172 782 780 653 191 684 374 725 61 655 147 686 294 726 83 35 43 66 177 729 78 71 684 374 77 77 79 78 71 685 376 78 78 77 78	202	5.5	700	15.9	083	6.07	77/	4.8/	202	5.4		13.5		8.67		71.8	202	6.0	000	7.61	189	33.9	/19	/1.8
5.8 6.54 14.5 6.85 2.8.4 7.2 8.3 3.9 6.5 14.3 6.85 2.8.4 7.2 8.3 3.9 6.5 14.7 68.8 2.8.4 7.2 8.3 3.9 6.5 14.7 68.8 2.8.7 7.2 8.0 5.0 6.0 6.0 6.0 6.0 8.0 5.0 7.8 8.0	580	5.7	653	14.2	684	28.1	725	80.3	280	3.5		13.9		25.9		75.9	280	6.5	652	19.3	683	36.5	722	75.7
61 655 147 686 295 729 85.5 386 42 666 147 687 730 80.5 786 730 83.7 786 786 787 789 787 786 786 787 787 787 786 787 787 887 738 88.0 788 88.0 88.0 788 88.0 89.0	583	5.8	654	14.5	685	28.4	726	83.3	583	3.9		14.3		27.1		79.2	583	7.1	653	20.1	684	37.4	725	77.0
6.3 6.5 6.4 6.8 15.4 687 15.4 687 15.4 687 15.4 687 29.8 73.0 83.0 <td>286</td> <td>6.1</td> <td>655</td> <td>14.7</td> <td>989</td> <td>29.5</td> <td>729</td> <td>85.5</td> <td>989</td> <td>4.2</td> <td></td> <td>14.7</td> <td></td> <td>27.2</td> <td></td> <td>80.5</td> <td>586</td> <td>7.8</td> <td>654</td> <td>20.4</td> <td>685</td> <td>38.2</td> <td>726</td> <td>79.5</td>	286	6.1	655	14.7	989	29.5	729	85.5	989	4.2		14.7		27.2		80.5	586	7.8	654	20.4	685	38.2	726	79.5
6.5 6.7 15.8 6.89 31.0 733 89.3 5.9 5.2 6.8 15.3 69.0 2.4 734 6.9 6.6 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 9	297	6.3	959	15.4	289	29.8	730	87.1	597	4.7		15.1		28.9		83.0	597	8.1	655	20.6	989	39.6	729	81.9
6.9 688 15.9 690 31.6 73.4 91.9 601 5.6 59.4 601 50.6 61.9 61.9 60.9 61.2 63.1 73.8 91.6 60.9 61.2 63.1 73.9 91.0 60.9 62.2 61.0 63.2 61.0 92.6 61.0 63.2 61.0 63.2 61.0 73.8 94.0 61.0 63.2 13.2 73.9 91.0 60.0 62.0 61.0 73.9 91.0 60.0 62.0 62.0 13.2 74.9 91.0 60.0 62.0 91.0 60.0 92.0 61.0 62.0 93.0 61.0 72.0 61.0 74.0 94.0 62.0 62.0 74.0 94.0 62.0 94.0 62.0 94.0<	599	6.5	657	15.8	689	31.0	733	89.3	599	5.2		15.3		29.4		86.4	599	8.4	959	21.0	289	40.1	730	83.3
7.4 659 16.2 691 3.3.0 73.8 94.0 60.0 6.2 60.1 73.9 91.6 60.9 9.6 65.8 22.7 690 4.2 73.4 7.6 660 16.8 692 33.7 73.9 95.0 61.0 64.0 61.0 64.0 61.0 64.0 61.0 64.0 61.0 64.0 61.0 64.0 61.0 62.0 18.9 65.0 17.0 690 33.7 74.4 96.0 61.0 62.0 18.0 69.0 61.0 62.0 18.0 69.0 61.0 62.0 18.0 69.0 61.0 61.0 62.0 18.0 62.0 18.0 62.0 18.0 62.0 18.0 69.0 43.0 69.0 49.0 61.0 62.0 18.0 69.0 43.1 79.0 99.0 61.0 62.0 18.0 69.0 43.1 79.0 69.0 49.0 61.0 69.0 49.0 69.0	601	6.9	859	15.9	069	31.6	734	91.9	601	5.6		15.8		30.8		90.4	601	0.6	657	21.8	689	41.7	733	84.4
7.6 6.60 16.8 69.2 33.7 739 95.0 610 6.4 61.1 6.3 34.1 61.0 9.9 63.2 23.2 63.1 4.2 73.4 8.1 661 17.0 694 35.0 74.3 66.1 16.2 65.2 18.8 695 3.3.1 74.4 95.6 61.0 17.4 95.6 61.0 17.4 95.6 17.2 695 34.2 74.9 95.6 61.0 10.4 66.1 17.8 696 37.9 74.9 86.6 61.0 17.8 697 38.5 74.9 98.6 61.0 17.8 99.7 61.1 17.9 699 40.5 75.0 99.2 62.0 17.9 699 40.5 75.0 99.1 66.4 18.7 75.0 99.2 66.4 18.7 75.0 99.2 60.0 19.0 69.2 18.9 99.2 61.0 19.0 69.2 36.7 19.0 69.2	609	7.4	629	16.2	691	33.0	738	94.0	609	6.2		16.2		31.2		91.6	609	9.6	859	22.7	069	42.9	734	88.4
8.1 6d1 17.0 694 35.0 743 96.1 612 6.5 662 16.8 693 33.1 744 95.6 61.0 60.0 23.5 692 44.7 73.9 8.3 662 17.2 664 17.6 693 34.3 74.5 97.0 61.0 10.4 66.1 23.5 69.4 46.0 74.4 86.6 61.7 67.0 69.2 47.2 64.7 17.6 99.6 61.7 60.4 17.0 69.9 46.7 17.0 60.4 17.0 69.9 46.7 17.0 99.7 62.0 17.0 69.9 46.7 17.0 99.7 62.0 17.0 69.9 46.7 17.0 69.9 46.7 17.0 69.0 49.7 49.0 49.0 49.0 49.0 49.0 49.0 49.0 49.0 49.0 49.0 49.0 49.0 49.0 49.0 49.0 49.0 49.0 49.0 49.0	610	9.7	099	16.8	692	33.7	739	95.0	610	6.4		16.3		32.4		94.1	610	6.6	629	23.2	691	44.2	738	92.3
8.3 662 17.2 695 3.5.7 744 96.6 617 6.7 663 16.8 696 34.3 745 97.2 617 10.4 662 12.5 694 46.0 23.7 64.4 66.4 17.6 697 34.8 749 98.6 617 64 17.6 697 34.8 749 98.6 619 72 64.1 70 37.7 750 90.7 62.0 11.3 66.2 23.4 69.9 40.5 72.9 98.6 610 17.6 69.9 36.7 70 99.7 62.0 17.0 69.0 69.0 17.7 70 99.7 62.0 11.0 69.0 18.7 70 49.1 70 49.0 66.0 18.7 70 49.1 70 49.0 66.0 18.7 70 49.1 70 49.0 69.0 49.0 70.0 49.0 60.0 49.0 60.0 49.0 60.0 49.0	612	8.1	199	17.0	694	35.0	743	96.1	612	6.5		8.91		33.1		92.6	612	10.1	099	23.5	692	44.7	739	93.3
8.4 663 17.6 696 37.9 745 98.0 619 7.2 644 17.6 693 34.8 749 98.6 619 10.8 662 24.5 695 47.7 749 8.6 664 17.8 694 17.8 697 38.5 749 98.6 620 7.4 665 18.0 699 36.7 750 99.2 620 17.9 699 40.7 750 99.2 620 17.9 666 18.1 700 37.7 752 99.7 624 11.8 664 47.2 99.9 666 18.1 700 37.7 752 99.9 69.9 40.7 75.7 100.0 62.0 70.4 41.0 75.7 100.0 69.1 70.7 75.7 100.0 66.1 17.0 41.0 75.7 100.0 69.1 70.7 41.0 75.7 100.0 60.1 70.7 41.0 75.7 100.0 60.1	617	8.3	662	17.2	695	35.7	744	9.96	617	6.7		8.91		34.3		97.2	617	10.4	199	23.7	694	46.0	743	95.7
8.6 644 17.8 697 38.5 749 98.6 620 7.4 665 18.0 699 36.7 750 99.7 65.1 11.3 663 25.4 696 47.7 742 9.0 665 17.9 699 40.5 750 99.1 626 18.1 700 62 1.1.8 644 25.8 697 48.7 79.8 699 40.6 18.1 700 67.1 68.7 18.0 62.1 66.7 18.9 66.7 18.9 69.7 62.1 68.9 66.7 18.0 69.7 69.9 49.0 66.8 19.0 67.0 19.9 69.9 49.0 68.1 19.0 62.0 19.0 62.0 19.0 62.0 19.0 69.0 49.0 68.1 19.0 68.1 19.0 68.1 19.0 68.1 19.0 68.1 19.0 68.1 19.0 69.1 43.1 43.1 69.1 69.2 19.	619	8.4	663	17.6	969	37.9	745	0.86	619	7.2		17.6		34.8		9.86	619	10.8	662	24.5	695	46.2	744	6.96
9.0 665 17.9 699 40.5 750 99.1 666 18.1 700 37.7 752 99.7 624 11.8 664 25.8 697 48.5 749 9.3 666 18.4 700 41.3 752 99.8 630 18.5 701 60.0 12.4 662 26.3 699 49.6 750 9.8 667 18.5 701 49.1 757 100.0 631 9.0 662 12.9 662 26.3 699 49.6 750 9.8 667 18.2 701 49.1 757 100.0 631 9.0 64.0 18.3 79 49.6 750 99.8 699 49.6 750 99.8 699 49.6 790 99.8 690 49.6 790 99.8 690 49.6 790 99.9 69.9 12.9 49.6 79.9 49.0 79.0 69.0 12.0	620	9.8	664	17.8	L69	38.5	749	9.86	620	7.4		18.0		36.7		99.2	620	11.3	663	25.4	969	47.7	745	7.76
9.3 666 18.4 700 41.3 752 99.8 630 8.4 667 18.5 701 670 41.3 752 99.8 630 681 97.7 100.0 631 97.7 100.0 631 97.2 47.0 665 18.5 701 44.1 757 100.0 631 97.0 40.0 631 18.1 667 27.2 701 50.0 757 10.2 668 19.0 702 45.0 19.3 704 43.1 631 13.1 667 27.2 701 50.0 757 10.4 670 19.5 704 43.1 639 10.2 67.0 43.1 661 75.7 701 50.0 75.7 10.4 671 20.2 70.4 43.1 67.2 10.0 67.2 11.0 70.4 43.1 68.1 10.2 67.2 10.0 63.2 10.2 10.2 10.2 10.2	624	0.6	999	17.9	669	40.5	750	99.1	626	8.0		18.1		37.7		7.66	624	11.8	664	25.8	269	48.5	749	7.86
9.8 667 18.5 701 44.1 757 100.0 631 9.0 668 19.2 702 41.0 631 9.0 668 19.2 702 41.0 631 9.3 670 19.3 704 43.1 631 9.0 668 19.2 702 45.0 9.0 67.2 10.0 632 9.4 671 20.5 705 43.1 667 27.2 701 52.0 707 43.1 631 632 9.4 671 20.5 43.9 632 13.0 632 <td>979</td> <td>9.3</td> <td>999</td> <td>18.4</td> <td>200</td> <td>41.3</td> <td>752</td> <td>8.66</td> <td>630</td> <td>8.4</td> <td></td> <td>18.5</td> <td></td> <td>39.7</td> <td></td> <td>0.001</td> <td>979</td> <td>12.4</td> <td>999</td> <td>26.3</td> <td>669</td> <td>49.6</td> <td>750</td> <td>99.1</td>	979	9.3	999	18.4	200	41.3	752	8.66	630	8.4		18.5		39.7		0.001	979	12.4	999	26.3	669	49.6	750	99.1
10.2 668 19.0 702 45.0 632 9.3 670 19.3 704 43.1 661 27.2 701 52.6 757 1 10.4 670 19.5 704 47.5 635 9.4 671 20.5 705 43.9 632 13.6 668 28.4 702 53.0 10.6 671 20.2 705 48.1 63 9.7 672 21.0 707 47.2 635 13.9 670 28.8 704 53.0 10.6 671 20.2 705 48.1 672 21.0 707 47.2 635 10.2 674 11.0 52.6 637 10.0 673 11.0 52.6 637 10.0 673 11.0 52.6 637 10.0 673 11.0 52.6 637 10.0 673 11.0 52.2 70 53.0 70 50.0 63.0 63.0 64.1	630	8.6	<i>L</i> 99	18.5	701	44.1	757	100.0	631	0.6		19.2		41.0			630	12.9	999	26.5	700	9.09	752	99.4
10.4 670 19.5 704 47.5 635 9.4 671 20.5 705 43.9 632 13.6 688 28.4 702 10.6 671 20.2 705 48.1 636 9.7 67.2 21.0 707 47.2 635 13.9 670 28.8 704 10.7 67.2 21.0 707 53.1 63 14.2 635 14.3 671 29.4 705 11.0 673 21.2 709 56.4 67 21.3 710 52.6 637 10.0 673 11.3 709 50.5 631 14.6 672 29.7 707 11.1 674 21.2 710 57.5 641 10.8 672 21.8 712 55.3 641 16.1 674 31.0 710 12.0 676 22.9 711 676 22.4 715 58.8 643 16.2	631	10.2	899	19.0	702	45.0			632	9.3		19.3		43.1			631	13.1	<i>L</i> 99	27.2	701	52.6	757	100.0
10.6 671 20.2 705 48.1 636 9.7 672 21.0 707 47.2 635 13.9 670 28.8 704 10.7 672 21.0 707 47.2 63.5 63.5 63.6 14.3 671 29.4 705 11.0 673 21.2 709 56.4 64.1 10.8 67.2 21.8 71.2 55.3 63.9 15.0 67.2 29.7 707 11.1 67.4 21.5 71.0 55.3 64.1 10.8 67.2 21.8 71.2 55.3 67.9 17.0 71.0 12.1 67.5 21.9 71.2 61.0 67.2 21.8 71.2 55.3 67.1 71.0 71.0 12.1 67.6 22.9 71.3 65.7 71.4 67.8 22.7 71.5 58.8 64.3 16.1 71.1 71.2 71.2 71.2 71.2 71.2 71.2 <td>632</td> <td>10.4</td> <td>029</td> <td>19.5</td> <td>704</td> <td>47.5</td> <td></td> <td></td> <td>635</td> <td>9.4</td> <td></td> <td>20.5</td> <td></td> <td>43.9</td> <td></td> <td></td> <td>632</td> <td>13.6</td> <td>899</td> <td>28.4</td> <td>702</td> <td>53.0</td> <td></td> <td></td>	632	10.4	029	19.5	704	47.5			635	9.4		20.5		43.9			632	13.6	899	28.4	702	53.0		
10.7 67.2 21.0 707 53.1 63.7 10.0 67.3 21.3 709 50.5 63.6 14.3 67.1 29.4 705 11.0 67.3 21.2 709 56.4 63.9 10.2 67.4 21.5 710 52.6 63.7 14.6 67.2 29.7 707 11.1 67.4 21.5 71.2 55.3 63.9 15.0 67.3 30.6 709 12.1 67.4 21.5 71.2 55.3 64.1 16.1 67.4 31.0 710 12.1 67.5 21.8 71.2 55.3 64.1 16.1 67.4 31.0 710 12.0 67.6 22.9 71.3 55.9 64.1 16.1 67.4 31.0 713 12.9 67.8 23.7 71.6 59.9 64.1 17.7 67.8 33.0 715 13.1 680 25.6 71.8 71.8	635	10.6	671	20.2	705	48.1			989	6.7		21.0		47.2			635	13.9	029	28.8	704	54.9		
11.0 673 21.2 709 56.4 639 10.2 674 21.5 710 52.6 637 14.6 672 29.7 707 11.4 674 21.5 712 55.3 639 15.0 673 30.6 709 12.1 675 21.9 712 61.0 643 11.1 676 22.4 713 55.9 641 16.1 674 31.0 710 12.6 676 22.9 713 65.2 643 11.4 678 22.7 715 58.8 643 16.1 674 31.0 710 12.9 678 23.7 716 59.9 643 17.5 676 32.6 713 13.1 679 24.9 716 63.9 645 17.7 678 33.0 715 13.3 680 25.6 718 71.2 649 18.1 679 649 18.9 689	989	10.7	672	21.0	707	53.1			637	10.0		21.3		50.5			989	14.3	671	29.4	705	9.55		
11.4 674 21.5 710 57.5 641 10.8 675 21.8 712 55.3 630 15.0 673 30.6 709 12.1 675 21.9 712 61.0 643 11.1 676 22.4 713 55.9 641 16.1 674 31.0 710 12.6 676 22.9 713 62.2 645 11.4 678 22.7 715 58.8 643 16.3 675 31.1 712 12.9 678 23.7 716 59.9 645 17.5 676 32.6 713 13.1 679 24.9 716 59.9 645 17.7 678 33.0 715 13.3 680 25.6 718 70.5 681 24.8 719 64.2 648 18.1 679 34.3 716 13.4 681 26.7 712 72.7 70.2 70.2	637	11.0	673	21.2	400	56.4			639	10.2		21.5		52.6			637	14.6	672	29.7	707	58.4		
12.1 675 21.9 712 61.0 643 11.1 676 22.4 713 55.9 641 16.1 674 31.0 710 12.6 676 22.9 713 62.2 645 11.4 678 22.7 715 58.8 643 16.3 675 31.1 712 12.9 678 23.7 716 69.9 64.2 716 69.9 64.2 716 69.9 717 678 33.0 715 13.1 679 24.9 716 66.9 64.2 12.3 680 23.7 718 63.1 64.7 77.7 678 33.0 715 13.3 680 25.6 718 71.2 72.7 70.2 649 18.9 680 34.9 718 13.4 681 26.7 71.2 72.7 70.2 649 18.9 680 34.9 718	639	11.4	674	21.5	710	57.5			641	10.8		21.8		55.3			639	15.0	673	9.08	400	60.3		
12.6 676 22.9 713 62.2 64.5 11.4 678 22.7 715 58.8 64.3 16.3 675 31.1 712 12.9 678 23.7 715 65.7 64.9 11.9 679 23.4 716 59.9 645 17.5 676 32.6 713 13.1 679 24.9 716 66.9 64.9 12.3 680 23.7 718 63.1 64.7 17.7 678 33.0 715 13.3 680 25.6 718 70.5 650 12.7 681 24.8 719 64.2 648 18.1 679 34.3 716 13.4 681 26.7 719 72.1 682 13.1 683 25.1 72.2 70.2 649 18.9 680 34.9 718	641	12.1	675	21.9	712	61.0			643	11.1		22.4		55.9			641	16.1	674	31.0	710	61.3		
12.9 678 23.7 715 65.7 648 11.9 679 23.4 716 59.9 645 17.5 676 32.6 713 13.1 679 24.9 716 66.9 66.9 649 12.3 680 23.7 718 63.1 64.7 17.7 678 33.0 715 13.3 680 25.6 718 70.5 650 12.7 681 24.8 719 64.2 648 18.1 679 34.3 716 13.4 681 26.7 719 72.1 682 25.1 72.2 70.2 649 18.9 680 34.9 718	645	12.6	929	22.9	713	62.2			645	11.4		22.7		58.8			643	16.3	675	31.1	712	63.3		
13.1 679 24.9 716 66.9 649 12.3 680 23.7 718 63.1 64.7 17.7 678 33.0 715 13.3 680 25.6 718 70.5 650 12.7 681 24.8 719 64.2 648 18.1 679 34.3 716 13.4 681 26.7 719 72.1 652 13.1 683 25.1 722 70.2 649 18.9 680 34.9 718	647	12.9	829	23.7	715	65.7			648	11.9		23.4		6.65			645	17.5	9/9	32.6	713	64.4		
13.3 680 25.6 718 70.5 650 12.7 681 24.8 719 64.2 648 18.1 679 34.3 716 13.4 681 26.7 719 72.1 652 13.1 683 25.1 722 70.2 649 18.9 680 34.9 718	648	13.1	629	24.9	716	6.99			649	12.3		23.7	718	63.1			647	17.7	829	33.0	715	66.1		
13.4 681 26.7 719 72.1 652 13.1 683 25.1 722 70.2 649 18.9 680 34.9 718	649	13.3	089	25.6	718	70.5			650	12.7	- 1	24.8	719	64.2			648	18.1	629	34.3	716	0.89		
	650	13.4	681	26.7	719	72.1			652	13.1		25.1	722	70.2			649	18.9	089	34.9	718	8.69		

Table 11 (cont.)

Listening/Speaking: Cumulative Scale Score Distributions for Field Tests by Grade

vm. vm. <th></th> <th></th> <th>Gr</th> <th>Grade 10</th> <th></th> <th></th> <th></th> <th></th> <th>Ğ</th> <th>Grade 11</th> <th></th> <th></th> <th></th> <th></th> <th>Gr</th> <th>Grade 12</th> <th></th> <th></th>			Gr	Grade 10					Ğ	Grade 11					Gr	Grade 12		
25 port SS Port SS Port SS Port SS		cnm.		cnm.		cam.		cam.		cnm.		cnm.		cnm.		cam.		cam.
25 663 147 708 45.6 580 1.2 672 11.1 716 46.1 58.9 0.2 679 11.0 26 666 160 710 46.5 583 1.3 673 11.3 717 47.7 583 0.5 681 11.8 27 667 16.4 711 49.4 611 1.4 674 11.6 710 615 0.6 682 12.1 3.2 660 17.3 71.3 51.2 618 1.7 67.7 53.0 620 0.8 68.1 1.8 1.1 68.4 1.4 1.2 77.2 57.0 63.0 6.3 68.4 1.4 1.2 77.2 57.0 63.0 6.3 6.4 1.1 1.8 1.1 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3	SS	pcnt	SS	pent	SS	pcnt	SS	pcnt	SS	pent	SS	pcnt	SS	pcnt	SS	pcnt	SS	pcnt
2.6 666 160 710 46.5 58.9 13 67.3 11.3 71.7 47.7 58.9 0.5 68.1 11.8 2.6 666 16.0 71.0 46.5 58.8 13 67.3 11.3 71.7 47.7 58.3 0.5 68.1 11.8 2.7 667 11.4 67.4 11.6 77.0 53.0 62.0 0.8 64.1 3.6 67.2 11.8 67.7 12.7 72.2 57.0 63.0 0.8 64.1 3.7 67.2 11.8 71.7 47.2 57.0 63.0 69.0 68.1 11.3 71.2 68.4 14.1 72.2 67.2 11.1 72.2 67.2 11.1 72.2 67.2 11.1 72.2 67.2 11.2 72.2 68.3 68.3 68.3 68.3 68.3 68.3 68.3 68.3 68.3 69.3 69.3 69.2 11.2 72.2 <td>580</td> <td>2 5</td> <td>663</td> <td>14.7</td> <td>708</td> <td>456</td> <td>580</td> <td>1.2</td> <td><i>CL9</i></td> <td>111</td> <td>716</td> <td>46.1</td> <td>580</td> <td>0.0</td> <td>629</td> <td>11 0</td> <td>775</td> <td>9 09</td>	580	2 5	663	14.7	708	456	580	1.2	<i>CL9</i>	111	716	46.1	580	0.0	629	11 0	775	9 09
2.7 667 16.4 71 67 11. 71.	583	2.5	999	16.0	710	46.5	583	7	673	11.3	717	47.7	583	5.0	681	2 = 1	902	61.7
2.8 669 17.3 71.3 51.2 618 1.7 675 12.1 720 53.0 622 0.8 61.1 3.2 670 17.8 714 52.3 622 1.9 677 12.7 720 57.0 630 0.9 686 14.3 3.6 672 1.8 716 55.6 625 2.0 678 14.1 723 57.9 630 0.9 686 14.3 3.9 674 1.8 716 632 2.0 678 14.1 723 63.9 689 14.3 689 18.0 726 63.8 689 18.0 726 63.8 699 17.2 64.2 690 689 18.0 72.9 64.2 690 689 18.0 72.2 64.2 690 689 18.0 689 18.0 689 18.0 72.2 64.2 69.2 18.0 689 18.0 689 18.0	596	2.7	299	16.4	711	49.4	611	4.1	674	11.6	719	51.6	615	9.0	682	12.1	728	64.2
3.2 670 17.8 714 52.3 622 1.9 677 12.7 722 57.0 630 0.9 686 14.3 3.6 672 18.8 716 55.6 625 2.0 678 14.1 723 57.9 632 1.1 687 15.2 3.9 674 19.2 716 66.5 62.0 681 18.9 63.2 1.1 687 17.3 69.8 18.9 69.3 18.9 69.9 17.3 4.2 67.5 20.8 720 60.9 64.3 67.9 67.8 67.9	009	2.8	699	17.3	713	51.2	618	1.7	675	12.1	720	53.0	622	8.0	684	14.1	729	67.1
3.6 672 188 716 55.6 625 2.0 678 14.1 723 57.9 632 1.1 687 15.2 3.7 673 19.1 717 56.3 627 2.4 679 14.5 725 61.8 634 1.6 689 17.3 4.2 674 19.2 719 60.0 632 2.6 681 15.9 726 64.5 69.2 19.1 729 684 17.2 729 684 17.2 729 684 17.2 729 684 17.2 729 684 18.0 73.2 644 2.8 69.1 640 3.3 684 18.0 73.2 74.2 644 3.8 686 18.0 73.2 74.2 649 3.2 648 18.0 73.2 74.1 640 3.3 684 17.2 74.2 648 3.0 686 18.0 74.2 648 2.1 67.0	605	3.2	029	17.8	714	52.3	622	1.9	<i>LL</i> 9	12.7	722	57.0	630	6.0	989	14.3	732	70.2
3.7 673 19.1 717 56.3 627 2.4 679 14.5 725 61.8 634 1.6 689 17.3 3.9 674 19.2 719 600 632 2.6 681 15.9 726 63.5 63.8 1.6 63.9 61.9 19.1 4.2 677 21.2 72.2 64.4 63.7 2.9 684 18.0 73.2 64.4 2.3 694 20.7 5.1 678 21.2 72.2 64.5 69.1 69.0 73.2 74.5 684 18.0 73.2 74.5 69.4 20.0 55.4 20.0 55.4 20.0 55.4 20.0 55.4 20.0 55.4 20.0 55.4 20.0 55.4 20.0 55.4 20.0 55.4 20.0 55.4 20.0 55.4 20.0 55.4 20.0 55.4 20.0 55.4 20.0 55.4 20.0 55.4	611	3.6	672	18.8	716	55.6	625	2.0	829	14.1	723	57.9	632	1.1	289	15.2	733	71.5
3.9 674 19.2 719 60.0 632 2.6 681 15.9 726 63.5 63.8 1.8 69.2 19.1 4.2 675 20.8 720 60.7 63.4 2.7 682 16.1 728 66.3 64.4 2.3 694 20.7 4.5 678 21.2 72.2 64.5 67.1 67.8 17.2 64.9 20.7 69.7 67.1 67.8 27.5 69.1 640 3.0 688 18.0 73.2 74.5 64.8 25.2 67.1 64.9 20.7 67.8 19.1 73.6 64.8 25.2 67.1 64.9 20.7 67.2 69.1 64.0 3.8 68.9 21.2 74.0 68.9 21.2 74.0 68.9 21.2 74.0 68.9 21.2 74.0 68.9 21.2 74.0 68.9 21.2 74.0 68.9 21.2 74.0 68.9 21.2 74.0<	615	3.7	673	19.1	717	56.3	627	2.4	629	14.5	725	8.19	634	1.6	689	17.3	736	77.5
4.2 675 20.8 720 60.7 634 2.7 682 16.1 728 66.3 644 2.3 694 20.7 4.5 677 21.2 722 64.5 637 2.9 684 17.2 729 70.8 647 2.4 695 21.8 4.7 678 21.3 72.5 64.5 63.7 2.9 684 17.2 649 3.0 686 18.0 73.2 74.5 648 2.7 69.1 69.2 23.4 74.5 648 3.0 68.7 19.1 73.3 74.5 69.3 3.0 78.2 68.7 19.1 73.3 74.1 69.2 23.4 74.0 67.1 74.0 68.7 19.1 73.2 74.0 67.2 74.9 74.0 67.2 23.4 74.0 87.2 87.2 68.2 23.4 74.0 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2	618	3.9	674	19.2	719	0.09	632	2.6	681	15.9	726	63.5	638	1.8	692	19.1	740	83.9
4.5 677 21.2 72.2 64.5 637 2.9 684 17.2 72.9 70.8 647 2.4 695 21.8 4.7 678 21.8 72.3 65.1 638 3.0 686 18.0 73.2 74.5 649 2.5 697 25.4 5.6 681 22.3 72.8 69.7 642 3.6 689 21.2 736 649 3.0 700 27.7 5.8 682 23.4 740 87.6 69.7 64.4 3.8 689 21.2 740 649 3.0 700 27.7 680 23.2 700 87.0 69.3 66.0 23.2 702 31.8 740 87.0 87	622	4.2	675	20.8	720	2.09	634	2.7	682	16.1	728	66.3	644	2.3	694	20.7	745	89.4
4.7 678 21.8 723 65.1 638 3.0 686 18.0 732 74.5 648 2.5 697 25.4 5.1 679 22.3 725 69.1 640 3.3 687 19.1 733 76.1 649 3.0 700 27.7 5.6 681 23.4 726 69.7 642 3.6 689 21.2 736 82.4 651 3.2 702 29.0 5.8 682 23.5 728 71.7 644 3.8 692 23.4 740 87.6 653 3.5 702 29.0 6.1 684 26.1 74 4.1 694 24.6 745 92.9 655 3.8 705 31.8 705 31.8 705 31.8 705 31.8 705 31.8 705 31.8 705 31.8 705 31.8 705 31.8 705 31.8 705<	625	4.5	<i>L</i> 129	21.2	722	64.5	637	2.9	684	17.2	729	70.8	647	2.4	695	21.8	749	92.0
5.1 679 22.3 725 69.1 640 3.3 687 19.1 733 76.1 649 3.0 700 27.7 5.6 681 23.4 726 69.7 642 3.6 689 21.2 736 82.4 651 3.2 702 29.0 5.8 682 23.5 728 71.7 644 3.8 692 23.4 740 87.6 653 3.5 702 29.0 6.1 684 26.1 720 642 4.1 694 24.6 745 652 3.8 702 3.9 652 3.9 702 3.18 702 3.18 702 3.18 702 3.18 702 3.17 756 94.3 666 4.3 692 24.9 749 94.3 660 4.3 602 24.9 749 94.3 662 3.2 702 3.1 702 3.1 702 3.1 702 <td>627</td> <td>4.7</td> <td>829</td> <td>21.8</td> <td>723</td> <td>65.1</td> <td>829</td> <td>3.0</td> <td>989</td> <td>18.0</td> <td>732</td> <td>74.5</td> <td>648</td> <td>2.5</td> <td>L69</td> <td>25.4</td> <td>750</td> <td>95.7</td>	627	4.7	829	21.8	723	65.1	829	3.0	989	18.0	732	74.5	648	2.5	L69	25.4	750	95.7
5.6 681 23.4 726 69.7 642 3.6 689 21.2 736 82.4 651 3.2 702 29.0 5.8 682 23.5 728 71.7 644 3.8 692 23.4 740 87.6 653 3.5 702 29.0 6.1 684 26.1 729 74.0 644 4.1 694 24.6 745 92.9 653 3.8 702 31.8 6.3 688 26.8 732 78.2 648 4.3 695 24.9 749 94.3 656 3.9 702 31.8 702 31.7 756 96.5 660 4.3 702 31.7 756 98.3 660 5.0 703 90.7 90.9 660 5.0 703 90.2 660 5.0 702 31.7 756 98.3 660 5.0 703 90.2 660 5.0 703 90.2	630	5.1	629	22.3	725	69.1	640	3.3	L89	19.1	733	76.1	649	3.0	200	27.7	755	97.5
5.8 682 23.5 728 71.7 644 3.8 692 23.4 740 87.6 653 3.5 703 29.9 6.1 684 26.1 729 74.0 647 4.1 694 24.6 745 92.9 655 3.8 705 31.8 6.3 686 26.8 73.2 78.2 648 4.3 695 24.9 749 94.3 656 3.9 706 31.8 6.7 687 28.2 78.2 648 4.3 695 24.9 749 94.3 666 4.3 707 31.8 7.2 689 30.3 740 90.0 651 70 29.8 756 98.3 666 5.6 710 33.8 7.8 692 3.2 70 31.7 756 98.3 669 5.6 70 98.3 669 5.6 70 98.3 70 71 71	632	9.6	681	23.4	726	2.69	642	3.6	689	21.2	736	82.4	651	3.2	702	29.0	756	98.4
6.1 684 26.1 729 74.0 647 4.1 694 24.6 745 92.9 655 3.8 705 31.8 6.3 686 26.8 732 78.2 648 4.3 695 24.9 749 94.3 656 3.9 706 32.7 6.7 687 28.0 687 28.0 750 96.5 660 4.3 707 33.8 7.2 689 30.3 736 85.2 6.1 77 69.3 660 4.3 707 33.8 7.8 692 32.2 702 31.7 756 98.3 666 5.6 710 37.7 8.4 695 33.4 749 94.3 656 5.6 703 32.2 757 99.2 667 711 37.1 43.1 8.4 695 34.9 76 33.3 761 100.0 669 5.6 711 43.1	637	5.8	682	23.5	728	71.7	644	3.8	692	23.4	740	9.78	653	3.5	703	29.9	757	99.2
6.3 686 26.8 732 78.2 648 4.3 695 24.9 749 94.3 656 3.9 706 6.7 687 28.2 733 80.0 651 4.7 697 28.0 756 96.5 660 4.3 707 7.2 689 30.3 736 85.2 5.1 700 29.8 755 97.9 663 5.0 708 7.8 692 32.5 740 90.0 653 5.3 702 31.7 756 98.3 666 5.6 710 8.4 695 33.8 749 95.0 656 5.8 705 33.3 761 100.0 669 6.0 711 714	638	6.1	684	26.1	729	74.0	647	4.1	694	24.6	745	92.9	655	3.8	705	31.8	761	100.0
6.7 687 28.2 733 80.0 651 4.7 697 28.0 750 96.5 660 4.3 707 7.2 689 30.3 736 85.2 65.1 700 29.8 755 97.9 666 5.0 708 7.8 692 32.5 740 90.0 653 5.3 702 31.7 756 98.3 666 5.6 710 8.4 695 33.4 745 94.3 655 5.6 703 32.2 757 99.2 667 6.1 711 8.4 695 33.4 705 33.3 761 100.0 669 6.0 706 33.7 670 71 714 8.9 697 756 98.9 660 70 708 37.0 672 7.1 716 9.9 702 40.0 756 98.9 666 8.5 710 70 70 <	640	6.3	989	8.97	732	78.2	648	4.3	969	24.9	749	94.3	959	3.9	902	32.7		
7.2 689 30.3 736 85.2 65.2 5.1 700 29.8 755 97.9 663 5.0 708 7.8 692 32.5 740 90.0 653 5.3 702 31.7 756 98.3 666 5.6 710 8.4 695 33.4 745 94.3 655 5.6 703 32.2 757 99.2 667 6.1 711 8.4 695 33.8 749 95.0 656 5.8 705 33.3 761 100.0 669 6.6 713 8.9 697 758 98.2 660 70 707 34.7 672 7.7 716 9.9 702 40.0 756 98.9 666 8.5 710 707 34.7 673 8.8 720 10.5 703 40.8 757 99.9 666 8.5 711 40.1 674	642	6.7	289	28.2	733	80.0	651	4.7	<i>L</i> 69	28.0	750	96.5	099	4.3	707	33.8		
7.8 692 32.5 740 90.0 653 5.3 702 31.7 756 98.3 666 5.6 710 8.2 694 33.4 745 94.3 655 5.6 703 32.2 757 99.2 667 6.1 711 8.4 695 33.8 749 95.0 656 5.8 705 33.7 670 670 713 8.9 697 35.8 750 97.7 659 6.0 706 33.7 670 7.1 714 9.9 700 38.0 75 98.9 663 8.0 708 37.0 673 7.8 717 10.5 703 40.8 757 99.9 666 8.5 710 37.7 674 8.2 719 11.6 705 43.0 761 100.0 667 8.6 711 40.1 673 8.8 720 12.5	644	7.2	689	30.3	736	85.2	652	5.1	200	29.8	755	6.76	663	5.0	208	36.1		
8.2 694 33.4 745 94.3 655 5.6 703 32.2 757 99.2 667 6.1 711 8.4 695 33.8 749 95.0 656 5.8 705 33.3 761 100.0 669 6.6 713 8.9 697 35.8 750 97.7 659 6.0 706 33.7 670 7.1 714 9.7 700 38.0 755 98.9 663 8.0 708 37.0 673 7.8 717 10.5 702 40.0 756 98.9 666 8.5 710 37.7 674 8.2 719 11.6 705 43.0 761 100.0 667 8.6 711 40.1 675 8.8 720 11.5 706 43.4 670 10.3 714 43.6 678 9.3 723 13.1 707 44.2	647	7.8	692	32.5	740	0.06	653	5.3	702	31.7	756	98.3	999	9.6	710	37.7		
8.4 695 33.8 749 95.0 656 5.8 705 33.3 761 100.0 669 6.6 713 8.9 697 35.8 750 97.7 659 6.0 706 33.7 670 7.1 714 9.7 700 38.0 755 98.2 660 7.0 707 34.7 672 7.7 716 9.9 702 40.0 756 98.9 666 8.5 710 37.7 674 8.2 719 10.5 703 40.8 757 99.9 666 8.5 711 40.1 675 8.8 720 11.6 705 43.4 761 100.0 667 8.6 711 40.1 675 8.8 720 12.5 706 43.4 670 10.3 714 43.6 678 9.3 723 13.1 707 44.2 679 670	648	8.2	694	33.4	745	94.3	655	5.6	703	32.2	757	99.2	<i>L</i> 99	6.1	7111	39.9		
8.9 697 35.8 750 97.7 659 6.0 706 33.7 670 7.1 714 9.7 700 38.0 755 98.2 660 7.0 707 34.7 672 7.7 716 9.9 702 40.0 756 98.9 663 8.0 708 37.0 673 7.8 717 10.5 703 40.8 757 99.9 666 8.5 710 37.7 674 8.2 719 11.6 705 43.0 761 100.0 667 8.6 711 40.1 675 8.8 720 12.5 706 43.4 670 10.3 714 43.6 678 9.3 723	649	8.4	695	33.8	749	95.0	959	5.8	705	33.3	761	100.0	699	9.9	713	43.1		
9.7 700 38.0 755 98.2 660 7.0 707 34.7 672 7.7 716 9.9 702 40.0 756 98.9 663 8.0 708 37.0 673 7.8 717 10.5 703 40.8 757 99.9 666 8.5 710 37.7 674 8.2 719 11.6 705 43.0 761 100.0 667 8.6 711 40.1 675 8.8 720 12.5 706 43.4 679 9.9 713 42.9 677 9.3 722 13.1 707 44.2 670 10.3 714 43.6 678 10.3 723	651	8.9	L69	35.8	750	7.76	629	0.9	90/	33.7			029	7.1	714	43.9		
9.9 702 40.0 756 98.9 663 8.0 708 37.0 673 7.8 717 10.5 703 40.8 757 99.9 666 8.5 710 37.7 674 8.2 719 11.6 705 43.0 761 100.0 667 8.6 711 40.1 675 8.8 720 12.5 706 43.4 669 9.9 713 42.9 677 9.3 722 13.1 707 44.2 670 10.3 714 43.6 678 10.3 723	652	6.7	700	38.0	755	98.2	099	7.0	707	34.7			672	7.7	716	46.2		
10.5 703 40.8 757 99.9 666 8.5 710 37.7 674 8.2 719 11.6 705 43.0 761 100.0 667 8.6 711 40.1 675 8.8 720 12.5 706 43.4 669 9.9 713 42.9 677 9.3 722 13.1 707 44.2 670 10.3 714 43.6 678 10.3 723	653	6.6	702	40.0	756	6.86	663	8.0	802	37.0			673	7.8	717	47.0		
11.6 705 43.0 761 100.0 667 8.6 711 40.1 675 8.8 720 12.5 706 43.4 669 9.9 713 42.9 677 9.3 722 13.1 707 44.2 670 10.3 714 43.6 678 10.3 723	655	10.5	703	40.8	757	6.66	999	8.5	710	37.7			674	8.2	719	51.0		
12.5 706 43.4 669 9.9 713 42.9 677 9.3 722 13.1 707 44.2 670 10.3 714 43.6 678 10.3 723	959	11.6	705	43.0	761	100.0	<i>L</i> 99	9.8	711	40.1			675	8.8	720	52.1		
13.1 707 44.2 670 10.3 714 43.6 678 10.3 723	629	12.5	902	43.4			699	6.6	713	42.9			<i>LL</i> 9	9.3	722	55.4		
	099	13.1	707	44.2			029	10.3	714	43.6			829	10.3	723	6.95		

Table 12

Reading: Cumulative Scale Score Distributions for Field Tests by Grade

	n.	CIII														
				cnm.		cnm.		cnm.		cnm.		cnm.		cnm.		cnm.
	nt SS	pcnt	SS	pcnt	SS	pcnt	SS	pent	SS	pcnt	SS	pcnt	SS	pent	SS	pent
		99.2	345	9.6	628	83.8	345	2.0	638	34.2	345	1.2	637	16.5	737	93.1
		99.3	377	10.7	638	85.3	377	2.7	641	39.1	377	1.3	646	19.4	744	94.8
400 61.9	899 6	99.4	400	12.3	641	88.3	400	2.9	649	42.5	426	1.7	647	20.8	748	96.1
		9.66	418	14.0	649	6.88	418	3.4	654	45.6	451	1.9	655	22.6	759	97.2
		8.66	426	16.1	654	89.5	441	3.7	655	50.4	467	2.3	959	25.1	762	0.86
		6.66	441	19.4	655	6.06	459	4.6	199	54.8	485	2.5	664	29.7	773	98.3
		100.0	459	21.5	199	92.0	467	5.0	899	57.5	499	5.6	999	31.6	800	100.0
	-		467	23.2	899	92.8	475	5.5	671	9.19	504	2.7	672	33.5		
	∞.		475	26.8	671	93.7	494	6.1	675	66.2	515	3.0	673	36.7		
	2		494	30.0	675	94.6	504	6.4	683	69.3	530	3.2	674	38.1		
	9:		504	32.3	683	95.3	909	6.7	289	73.2	536	3.7	629	40.9		
	5		909	36.7	L89	96.2	525	7.5	691	6.77	543	4.1	681	44.3		
	6		525	39.7	691	96.5	535	8.0	701	81.0	557	4.4	683	47.0		
	-		535	44.1	701	6.96	537	9.8	704	84.4	564	4.7	289	50.0		
	4		537	46.1	704	9.76	553	9.4	712	88.8	267	5.4	689	53.2		
	4		553	49.0	712	98.4	561	10.3	722	90.4	579	5.9	691	55.3		
	6		561	53.2	722	8.86	564	10.8	724	92.9	584	0.9	694	58.1		
	9:		564	55.9	724	99.2	216	11.9	740	6.56	587	6.7	869	2.09		
	3		276	58.8	740	99.4	583	12.8	751	8.96	595	7.0	669	63.2		
	∞.		583	61.5	751	9.66	286	13.5	754	98.3	601	7.8	701	8.59		
	5		286	63.8	754	7.66	593	14.9	790	100.0	603	8.4	902	69.1		
	7		593	66.4	790	100.0	009	16.5			209	9.2	707	71.6		
	6		009	68.2			602	18.2			614	8.6	208	74.1		
	2		602	9.07			909	19.8			616	10.4	714	78.5		
	3		909	72.8			615	21.9			618	11.1	715	9.08		
	5		615	75.5			616	23.5			625	11.9	723	84.7		
	∞.		616	6.97			617	25.2			627	13.1	724	87.1		
	0		617	78.9			628	31.7			636	14.1	732	89.3		

 $\ensuremath{\text{@}}\xspace$ 2005 by Educational Testing Service \$36\$

Table 12 (cont.)

Reading: Cumulative Scale Score Distributions for Field Tests by Grade

SS pent SS pent SS pent cum. 590 10.2 701 54.8 764 98.5 590 9.8 701 45.6 618 11.2 702 56.3 769 98.7 618 10.8 702 47.0 620 12.6 704 59.2 773 99.0 620 11.7 704 49.6 625 13.4 706 60.4 786 99.2 625 13.3 706 50.6 641 17.5 710 64.5 810 100.0 637 146 704 49.6 641 17.5 710 64.5 810 100.0 637 146 704 49.6 641 17.5 710 64.5 60.0 11.7 711 60.0 64.1 14.7 711 66.0 17.7 711 66.0 57.1 65.1 66.2 11.0 712 712 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th>20 22 20</th><th></th><th></th><th></th><th></th><th></th><th></th><th>20 222</th><th></th><th></th></t<>							20 22 20							20 222		
pent SS pent SS pent SS 10.2 701 54.8 764 98.5 590 9.8 701 11.2 70.2 56.3 769 98.7 61.8 10.8 702 12.6 704 59.2 773 99.0 620 11.7 704 13.4 706 60.4 786 99.2 625 13.3 706 14.9 708 63.5 810 100.0 637 14.6 708 17.5 710 64.5 773 99.0 620 11.7 710 18.2 711 66.0 78 706 11.7 711 19.6 71 67.4 78 99.2 65.3 18.0 712 20.1 71.5 71.4 68.8 66.2 21.6 718 20.1 71.5 71.4 68.8 66.2 21.6 719 20.1 71.5 </th <th>m.</th> <th>cnm.</th> <th></th> <th>cam.</th> <th></th> <th>cum.</th> <th></th> <th>cnm.</th> <th></th> <th>cam.</th> <th></th> <th>cnm.</th> <th></th> <th>cnm.</th> <th></th> <th>cam.</th>	m.	cnm.		cam.		cum.		cnm.		cam.		cnm.		cnm.		cam.
10.2 701 54.8 764 98.5 590 9.8 701 11.2 702 56.3 769 98.7 618 10.8 702 12.6 704 59.2 773 99.0 620 11.7 704 13.4 706 60.4 786 99.2 625 13.3 706 14.9 708 63.5 810 100.0 637 14.6 708 17.5 710 64.5 810 100.0 637 14.6 708 18.2 711 66.0 649 17.7 711 19.6 712 67.4 68.9 10.7 711 20.8 714 68.8 66.9 17.7 711 20.9 714 68.8 66.2 11.6 718 22.1 715 71.9 66.4 20.6 716 22.1 719 76.7 664 20.6 716 22.1 719 76.7 664 20.6 718 22.1 <th>i</th> <th>pcnt</th> <th>SS</th> <th>pent</th>	i	pcnt	SS	pcnt	SS	pcnt	SS	pcnt	SS	pcnt	SS	pcnt	SS	pcnt	SS	pent
11.2 702 56.3 769 98.7 618 10.8 702 11.2 702 56.3 769 98.7 618 10.8 702 12.6 704 59.2 773 99.0 620 11.7 704 14.9 708 63.5 810 100.0 637 14.6 708 17.5 710 64.5 810 100.0 637 14.6 708 18.2 711 66.0 649 17.7 711 19.6 712 67.4 649 17.7 711 19.6 712 67.4 653 18.0 712 20.8 714 68.8 664 19.4 714 20.1 715 719 664 22.6 715 20.2 714 68.8 66.2 21.6 718 20.1 719 76.7 664 22.6 719 20.2 718 73.9 664 22.6 719 20.1 720 88.7		54.8	764	98.5	290	8 6	701	45.6	764	97.5	690	77	701	1 27 1	764	95.4
12.6 704 59.2 773 99.0 625 11.7 704 13.4 706 60.4 786 99.2 625 13.3 706 14.9 708 63.5 810 100.0 637 14.6 708 17.5 710 64.5 810 100.0 637 14.6 708 18.2 711 66.0 649 17.7 711 19.6 712 67.4 653 18.0 712 20.8 714 68.8 654 19.4 714 20.8 714 68.8 66.4 19.4 714 20.1 715 71.9 658 20.6 715 20.1 719 76.7 664 22.6 719 20.2 719 664 22.6 719 20.1 720 84.7 670 24.5 720 20.1 720 84.7 671 25.5 729 30.2 734 88.2 671 24.5 746		56.3	692	98.7	618	10.8	702	47.0	692	98.4	618	8.7	702	43.8	692	95.9
13.4 706 60.4 786 99.2 625 13.3 706 14.9 708 63.5 810 100.0 637 14.6 708 17.5 710 64.5 810 100.0 637 14.6 708 18.2 711 66.0 64.9 17.7 711 19.6 712 67.4 66.9 17.7 711 20.8 714 68.8 654 19.4 714 20.1 715 71.9 658 20.6 715 20.1 71.9 66.2 21.6 718 20.1 71.9 66.2 21.6 719 20.1 70.7 66.2 21.6 719 20.1 70.7 66.2 21.6 719 20.1 70.9 84.7 67.1 22.6 729 30.2 73.4 88.2 67.1 22.6 730 30.2 74.9 <t< td=""><td></td><td>59.2</td><td>773</td><td>0.66</td><td>620</td><td>11.7</td><td>704</td><td>49.6</td><td>773</td><td>8.86</td><td>620</td><td>6.6</td><td>704</td><td>46.5</td><td>773</td><td>97.0</td></t<>		59.2	773	0.66	620	11.7	704	49.6	773	8.86	620	6.6	704	46.5	773	97.0
14.9 708 63.5 810 100.0 637 14.6 708 17.5 710 64.5 64.9 17.7 710 18.2 711 66.0 64.9 17.7 711 19.6 712 67.4 68.8 66.9 17.7 711 20.8 714 68.8 65.4 19.4 714 712 712 714 712 714 714 715 719 716 718 719 719 716 718 719 718 719 718 718 718 718 719 718 720 718 720 <t< td=""><td></td><td>60.4</td><td>982</td><td>99.2</td><td>625</td><td>13.3</td><td>902</td><td>9.09</td><td>781</td><td>99.3</td><td>625</td><td>10.9</td><td>902</td><td>47.4</td><td>781</td><td>97.5</td></t<>		60.4	982	99.2	625	13.3	902	9.09	781	99.3	625	10.9	902	47.4	781	97.5
17.5 710 64.5 64.1 16.7 710 18.2 711 66.0 649 17.7 711 19.6 712 67.4 653 18.0 712 20.8 714 68.8 654 19.4 714 20.1 715 71.9 658 20.6 715 22.1 718 73.9 662 21.6 719 25.1 719 76.7 664 22.6 719 26.5 722 80.4 666 23.7 720 27.6 73.8 84.7 670 24.5 720 29.1 729 84.7 671 25.5 729 30.2 734 88.2 677 20.9 734 30.2 734 88.2 676 28.8 734 31.3 73 90.1 677 30.0 735 32.5 749 93.3 682 32.0 740 38.3 745 94.3 688 36.7 745		63.5	810	100.0	637	14.6	208	52.9	982	9.66	637	11.6	802	49.1	982	98.1
18.2 711 66.0 649 17.7 711 19.6 712 67.4 653 18.0 712 20.8 714 68.8 653 18.0 712 20.8 714 68.8 653 18.0 714 22.1 715 71.9 658 20.6 715 23.7 718 73.9 664 22.6 719 26.5 722 80.4 664 22.6 719 26.5 722 80.4 664 22.6 719 27.6 73.8 670 24.5 726 29.1 729 84.7 671 25.5 729 30.2 734 88.2 671 25.5 729 30.2 734 88.2 677 30.0 738 34.3 738 91.1 680 30.9 738 34.3 745 94.3 682 32.0 740 36.5 749 95.6 688 36.2 745 48.2 752 97.0 693 39.5 752 48.2 754 97.5 695 40.8 752 48.2 </td <td></td> <td>64.5</td> <td></td> <td></td> <td>641</td> <td>16.7</td> <td>710</td> <td>54.7</td> <td>810</td> <td>100.0</td> <td>641</td> <td>14.2</td> <td>710</td> <td>50.7</td> <td>810</td> <td>100.0</td>		64.5			641	16.7	710	54.7	810	100.0	641	14.2	710	50.7	810	100.0
19.6 712 67.4 653 18.0 712 20.8 714 68.8 654 19.4 714 20.1 715 71.9 658 20.6 715 23.7 718 73.9 662 21.6 718 25.1 719 76.7 664 22.6 719 26.5 722 80.4 666 23.7 722 27.6 726 83.8 670 24.5 722 29.1 729 84.7 671 25.5 729 30.2 731 87.4 671 25.5 729 30.2 734 88.2 677 30.0 735 31.5 735 90.1 677 30.0 735 34.3 748 91.1 680 30.9 734 35.5 740 92.5 682 32.0 740 36.5 743 93.3 688 36.2 746 41.8 746 95.6 691 37.3 752		0.99			649	17.7	711	9.99			649	15.0	711	52.4		
20.8 714 68.8 654 19.4 714 22.1 715 71.9 68.8 20.6 715 23.7 718 73.9 66.2 21.6 718 25.1 719 76.7 66.4 22.6 719 26.5 722 80.4 66.6 23.7 722 27.6 726 83.8 670 24.5 726 29.1 729 84.7 671 25.5 729 30.2 731 87.4 671 25.5 729 30.2 731 87.4 676 28.8 734 31.2 734 88.2 676 28.8 734 32.2 749 89.1 680 30.9 738 34.3 748 91.1 682 32.0 740 35.5 740 92.5 682 32.0 740 36.5 743 93.3 688 36.2 746 41.8 746 95.6 691 37.3 752		67.4			653	18.0	712	57.8			653	17.0	712	53.2		
22.1 715 71.9 658 20.6 715 23.7 718 73.9 662 21.6 718 25.1 719 76.7 664 22.6 719 26.5 722 80.4 666 23.7 722 27.6 726 83.8 670 24.5 726 29.1 729 84.7 671 25.5 729 30.2 731 87.4 671 25.5 729 30.2 734 88.2 671 25.5 729 32.2 734 88.2 676 28.8 734 33.5 734 88.2 676 28.8 734 34.3 738 91.1 680 30.9 738 35.5 740 92.5 682 32.0 740 36.5 745 94.3 688 36.2 745 41.8 746 95.6 683 32.7 745 48.2 750 96.7 691 37.3 750		8.89			654	19.4	714	60.1			654	18.5	714	55.0		
23.7 718 73.9 662 21.6 718 25.1 719 76.7 664 22.6 719 26.5 722 80.4 666 23.7 722 27.6 726 83.8 670 24.5 726 29.1 729 84.7 671 25.5 729 30.2 731 87.4 673 27.4 731 32.2 734 88.2 677 30.0 735 34.3 738 91.1 680 30.9 738 34.3 749 92.5 682 32.0 740 36.5 749 93.3 683 32.7 743 38.3 745 94.3 688 36.2 746 41.8 746 95.6 691 37.3 750 46.2 752 97.0 693 39.5 752 48.2 75.4 97.5 695 40.8		71.9			859	20.6	715	62.7			859	19.4	715	58.3		
25.1 719 76.7 664 22.6 719 26.5 722 80.4 666 23.7 722 27.6 726 83.8 670 24.5 722 29.1 729 84.7 671 25.5 729 30.2 731 87.4 671 25.5 729 32.2 734 88.2 676 28.8 734 33.5 735 90.1 680 30.9 738 34.3 738 91.1 680 30.9 738 35.5 740 92.5 682 32.0 740 36.5 743 93.3 683 32.7 743 41.8 746 95.6 688 36.2 746 42.9 750 96.7 691 37.3 750 48.2 754 97.5 695 40.8 754 48.2 754 97.5 695 40.8 754		73.9			662	21.6	718	65.1			662	20.5	718	59.7		
26.5 722 80.4 666 23.7 722 27.6 726 83.8 670 24.5 726 29.1 729 84.7 671 25.5 729 30.2 731 87.4 671 25.5 729 30.2 731 87.4 676 28.8 734 33.5 735 90.1 677 30.0 735 34.3 738 91.1 680 30.9 738 35.5 740 92.5 682 32.0 740 36.5 743 93.3 683 32.7 743 38.3 745 94.3 686 34.4 745 41.8 746 95.6 683 36.2 746 42.9 750 96.7 691 37.3 750 48.2 754 97.5 695 40.8 754 48.2 75.4 97.5 695 40.8 754		76.7			664	22.6	719	9.79			664	21.1	719	62.0		
27.6 726 83.8 670 24.5 726 29.1 729 84.7 671 25.5 729 30.2 731 87.4 673 27.4 731 32.2 734 88.2 676 28.8 734 33.5 735 90.1 677 30.0 735 34.3 738 91.1 680 30.9 738 35.5 740 92.5 682 32.0 740 36.5 743 93.3 683 32.7 743 38.3 745 94.3 686 34.4 745 41.8 746 95.6 688 36.2 746 42.9 750 96.7 691 37.3 750 48.2 754 97.5 695 40.8 754 48.2 75.4 97.7 695 40.8 754		80.4			999	23.7	722	8.07			999	21.9	722	9.59		
29.1 729 84.7 671 25.5 729 30.2 731 87.4 673 27.4 731 30.2 734 88.2 676 28.8 734 33.5 735 90.1 677 30.0 735 34.3 738 91.1 680 30.9 738 35.5 740 92.5 682 32.0 740 36.5 743 93.3 683 32.7 743 38.3 745 94.3 686 34.4 745 41.8 746 95.6 688 36.2 746 42.9 750 96.7 691 37.3 750 48.2 754 97.5 695 40.8 754 48.2 754 97.5 695 40.8 754		83.8			029	24.5	726	75.1			029	23.2	726	8.69		
30.2 731 87.4 673 27.4 731 32.2 734 88.2 676 28.8 734 33.5 735 90.1 677 30.0 735 34.3 738 91.1 680 30.9 738 35.5 740 92.5 682 32.0 740 36.5 743 93.3 683 32.7 743 38.3 745 94.3 686 34.4 745 41.8 746 95.6 688 36.2 746 42.9 750 96.7 691 37.3 750 48.2 754 97.5 695 40.8 754 48.2 754 97.5 695 40.8 754		84.7			671	25.5	729	75.8			671	23.8	729	71.7		
32.2 734 88.2 676 28.8 734 33.5 735 90.1 677 30.0 735 34.3 738 91.1 680 30.9 738 35.5 740 92.5 682 32.0 740 36.5 743 93.3 683 32.7 743 38.3 745 94.3 686 34.4 745 41.8 746 95.6 688 36.2 746 42.9 750 96.7 691 37.3 750 48.2 754 97.5 695 40.8 754 48.2 754 97.5 695 40.8 754		87.4			673	27.4	731	78.9			673	24.4	731	75.3		
33.5 735 90.1 677 30.0 735 34.3 738 91.1 680 30.9 738 35.5 740 92.5 682 32.0 740 36.5 743 93.3 683 32.7 743 38.3 745 94.3 686 34.4 745 41.8 746 95.6 688 36.2 746 42.9 750 96.7 691 37.3 750 48.2 754 97.5 695 40.8 754 48.2 756 695 40.8 756		88.2			929	28.8	734	80.5			929	25.2	734	76.5		
34.3 738 91.1 680 30.9 738 35.5 740 92.5 682 32.0 740 36.5 743 93.3 683 32.7 743 38.3 745 94.3 686 34.4 745 41.8 746 95.6 688 36.2 746 42.9 750 96.7 691 37.3 750 46.2 752 97.0 693 39.5 754 48.2 754 97.5 695 40.8 754 48.2 756 697 697 750 750		90.1			<i>LL</i> 9	30.0	735	83.4			<i>LL</i> 9	26.1	735	78.8		
35.5 740 92.5 682 32.0 740 36.5 743 93.3 683 32.7 743 38.3 745 94.3 686 34.4 745 41.8 746 95.6 688 36.2 746 42.9 750 96.7 691 37.3 750 46.2 752 97.0 693 39.5 754 48.2 754 97.5 695 40.8 754		91.1			089	30.9	738	84.3			089	26.7	738	80.3		
36.5 743 93.3 683 32.7 743 38.3 745 94.3 686 34.4 745 41.8 746 95.6 688 36.2 746 42.9 750 96.7 691 37.3 750 46.2 752 97.0 693 39.5 754 48.2 754 97.5 695 40.8 754 51.5 750 96.1 750 750		92.5			682	32.0	740	87.7			682	27.4	740	83.2		
38.3 745 94.3 686 34.4 745 41.8 746 95.6 688 36.2 746 42.9 750 96.7 691 37.3 750 46.2 752 97.0 693 39.5 752 48.2 754 97.5 695 40.8 754 51.5 750 697 750 750		93.3			683	32.7	743	8.88			683	28.7	743	85.3		
41.8 746 95.6 688 36.2 746 42.9 750 96.7 691 37.3 750 46.2 752 97.0 693 39.5 752 48.2 754 97.5 695 40.8 754 51.5 750 691 37.3 750		94.3			989	34.4	745	9.06			989	29.9	745	87.3		
42.9 750 96.7 691 37.3 750 46.2 752 97.0 693 39.5 752 48.2 754 97.5 695 40.8 754 51.5 750 691 37.3 750		92.6			889	36.2	746	91.9			889	32.6	746	88.4		
46.2 752 97.0 693 39.5 752 48.2 754 97.5 695 40.8 754 51.5 759 98.1 759 759		2.96			691	37.3	750	92.5			691	33.4	750	89.7		
48.2 754 97.5 695 40.8 754 51.5 750 00.1 750 00.1		97.0			693	39.5	752	93.8			693	35.9	752	91.0		
215 750 001		97.5			969	40.8	754	95.0			695	36.5	754	92.0		
51.5 738 98.1 69.7 42.7 738		98.1			269	42.7	758	96.1			L69	39.7	758	93.3		
53.7 759 98.3 700 44.4 759		98.3			700	44.4	759	9.96			700	41.0	759	94.3		

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Table 12 (cont.)

Reading: Cumulative Scale Score Distributions for Field Tests by Grade

SS point CMI SS point SS point CMI SS point SS<			Grade 07	e 07					Gra	Grade 08					Gra	Grade 09		
pcn SS pcnt SS pcnt <th></th> <th>cnm.</th> <th></th> <th>cnm.</th> <th></th> <th>cnm.</th> <th></th> <th>cnm.</th> <th></th> <th>cnm.</th> <th></th> <th>cum.</th> <th></th> <th>cnm.</th> <th></th> <th>cnm.</th> <th></th> <th>cnm.</th>		cnm.		cnm.		cnm.		cnm.		cnm.		cum.		cnm.		cnm.		cnm.
13.7 733 60.6 781 97.3 60.0 9.6 733 52.1 781 96.8 600 11.2 733 54.3 788 18.8 17.3 647 12.1 734 55.2 788 97.3 647 12.1 734 55.2 788 97.3 647 12.1 734 55.2 788 97.3 647 12.1 734 55.2 788 97.6 659 13.7 735 56.4 788 97.6 659 13.7 735 56.4 788 97.6 659 13.7 735 56.4 788 79.7 66.0 15.3 737 58.4 788 79.7 79.7 79.6 69.9 13.8 73.9 99.9 13.7 79.9 79.7 <th>SS</th> <th>pcnt</th> <th>SS</th> <th>pcnt</th> <th>SS</th> <th>pent</th> <th>SS</th> <th>pcnt</th> <th>SS</th> <th>pent</th> <th>SS</th> <th>pent</th> <th>SS</th> <th>pcnt</th> <th>SS</th> <th>pent</th> <th>SS</th> <th>pcnt</th>	SS	pcnt	SS	pcnt	SS	pent	SS	pcnt	SS	pent	SS	pent	SS	pcnt	SS	pent	SS	pcnt
13.1 7.5 60.0 7.0 7.3 7.2 7.0 7.0 7.3 7.2 7.0 7.0 7.3 7.2 7.0 7.3 7.2 7.0 </td <td>009</td> <td>12.7</td> <td>722</td> <td>909</td> <td>701</td> <td>07.2</td> <td>009</td> <td>90</td> <td>722</td> <td>50.1</td> <td>701</td> <td>8 90</td> <td>009</td> <td>11 2</td> <td>722</td> <td>5 1 2</td> <td>701</td> <td>9 30</td>	009	12.7	722	909	701	07.2	009	90	722	50.1	701	8 90	009	11 2	722	5 1 2	701	9 30
149 734 61.7 783 97.9 647 10.5 744 53.5 783 97.3 647 12.1 744 55.2 788 97.5 647 18.1 734 64.7 18.2 19.3 64.7 18.3 78.3 97.5 64.7 18.3 78.3 97.5 64.7 18.3 78.3 97.5 64.7 18.3 78.3 79.7 67.0 18.3 79.5 79.3 79.7 67.0 18.3 79.5 79.3	000	7.01	007	0.00	107	0.17	000	0.7	001	1.70	107	0.00	000	7:11	001	0.+.	107	0.00
168 735 64.3 788 98.3 659 12.1 735 55.3 788 97.6 659 13.7 735 564 788 18.1 737 66.7 793 98.8 670 14.8 739 97.7 670 15.3 737 86 793 21.1 740 71.3 80.2 99.3 681 16.0 687 19.2 740 67.9 88.7 67.1 16.5 739 89.9 21.2 740 71.3 80.2 99.3 681 10.0 687 19.2 74.1 67.1 67.2 89.9 99.3 681 99.3 681 99.3 681 99.3 681 99.3 681 99.3 681 99.3 681 99.3 681 99.3 681 99.3 681 99.3 681 99.3 681 99.3 681 99.3 681 99.3 681 99.3 681 99.3 <td>647</td> <td>14.9</td> <td>734</td> <td>61.7</td> <td>783</td> <td>6.76</td> <td>647</td> <td>10.5</td> <td>734</td> <td>53.5</td> <td>783</td> <td>97.3</td> <td>647</td> <td>12.1</td> <td>734</td> <td>55.2</td> <td>783</td> <td>96.3</td>	647	14.9	734	61.7	783	6.76	647	10.5	734	53.5	783	97.3	647	12.1	734	55.2	783	96.3
18.1 737 66.7 793 98.8 670 13.0 737 57.9 99.3 97.7 670 15.3 737 58.6 793 21.1 739 69.1 797 99.2 671 14.8 739 59.3 797 98.4 671 16.5 739 59.9 797 21.1 742 72.9 815 100.0 687 17.7 42.0 43 67.1 18.8 743 69.1 18.2 74.0 68.1 81.5 79.9 79.9 74.0 68.1 18.2 74.2 64.1 81.5 79.9 74.0 68.1 81.5 74.2 64.1 81.5 74.2 64.1 81.2 74.2 64.1 81.2 74.2 64.1 81.2 74.2 64.1 81.2 74.2 64.1 81.2 74.2 64.1 81.2 74.2 64.1 81.2 74.2 64.1 81.2 74.2 64.1 81.2 81.	629	16.8	735	64.3	788	98.3	629	12.1	735	55.3	788	9.76	629	13.7	735	56.4	788	6.96
192 739 69.1 797 99.2 677 14.8 739 59.3 797 98.4 677 16.5 739 59.9 797 21.1 740 71.3 802 99.3 681 16.0 740 62.9 80.9 11.6 740 62.3 80.9 19.9 740 62.9 80.1 18.2 740 62.9 80.1 18.2 740 62.9 80.1 18.2 740 62.9 740 68.1 18.2 740 68.2 80.2 99.1 68.1 18.2 74.2 66.6 80.2 18.2 740 68.2 80.2 80.2 18.2 740 68.2 80.2 74.1 74.2 74	029	18.1	737	2.99	793	8.86	029	13.0	737	57.9	793	7.76	029	15.3	737	58.6	793	97.5
21.1 740 71.3 802 99.3 681 16.0 740 62.9 802 99.1 681 18.0 62.9 802 99.1 681 18.0 66.6 802 802 99.1 681 18.0 66.6 802 802 802 99.1 681 18.0 66.6 802 802 99.1 66.6 802 802 802 99.1 66.6 802 802 802 902 10.0 66.6 802 802 902 902 10.0 66.6 802 802 902 902 10.0 66.6 802 802 9	<i>LL</i> 9	19.2	739	69.1	797	99.2	<i>L L L L L L L L L L</i>	14.8	739	59.3	797	98.4	<i>L L L L L L L L L L</i>	16.5	739	59.9	797	98.4
226 742 729 815 100.0 687 17.7 742 64.1 815 100.0 687 19.5 742 63.6 815 23.8 743 75.0 691 18.8 743 66.7 69.1 21.2 749 66.6 26.2 746 77.4 71.2 69.3 69.4 21.2 746 68.9 27.1 749 79.9 700 22.1 747 71.2 69.6 24.4 747 69.6 29.1 749 79.9 700 22.1 747 71.2 69.6 24.4 747 69.6 31.8 75.0 81.9 70.0 21.1 74.1 70.0 25.8 74.9 70.9 31.8 75.0 81.9 70.0 21.7 75.4 77.5 70.0 29.7 75.0 74.1 70.0 29.7 75.0 74.1 70.0 29.7 75.0 74.1 75.0	681	21.1	740	71.3	802	99.3	681	16.0	740	62.9	802	99.1	681	18.2	740	62.3	802	0.66
23.8 743 75.0 691 18.8 743 66.7 691 21.2 748 26.2 746 77.4 694 19.9 746 69.3 694 22.9 746 27.6 747 71.2 694 22.9 746 70 22.1 747 71.2 696 24.4 747 29.1 749 79.9 70 22.1 749 71.8 700 25.8 749 31.8 750 81.9 70 22.1 749 71.8 70 25.8 749 31.8 750 81.9 70 22.1 749 71.8 70 25.8 749 31.8 750 82.4 70 22.1 74 77.5 74 77.5 76 77 74 77.5 76 77 74 77.5 77 74 77.5 77 74 77 77 74 77 77 77 </td <td>L89</td> <td>22.6</td> <td>742</td> <td>72.9</td> <td>815</td> <td>100.0</td> <td>CR 1</td> <td>17.7</td> <td>742</td> <td>64.1</td> <td>815</td> <td>100.0</td> <td>289</td> <td>19.5</td> <td>742</td> <td>63.6</td> <td>815</td> <td>100.0</td>	L 89	22.6	742	72.9	815	100.0	CR 1	17.7	742	64.1	815	100.0	289	19.5	742	63.6	815	100.0
26.2 746 77.4 694 19.9 746 69.3 694 22.9 746 27.6 747 78.9 696 20.7 747 71.2 696 24.4 747 29.1 749 79.9 700 22.1 749 71.8 700 25.8 749 31.8 752 81.9 703 24.2 750 74.4 703 26.9 770 33.8 752 82.4 704 26.2 75.2 75.6 709 25.8 74.9 36.5 755 84.4 704 26.2 75.6 709 27.0 709 27.0 709 </td <td>691</td> <td>23.8</td> <td>743</td> <td>75.0</td> <td></td> <td></td> <td>691</td> <td>18.8</td> <td>743</td> <td>2.99</td> <td></td> <td></td> <td>691</td> <td>21.2</td> <td>743</td> <td>9.99</td> <td></td> <td></td>	691	23.8	743	75.0			691	18.8	743	2.99			691	21.2	743	9.99		
27.6 747 78.9 696 20.7 747 71.2 696 24.4 747 29.1 749 79.9 700 22.1 749 71.8 700 25.8 749 31.8 750 81.9 700 22.1 749 71.8 700 25.8 749 33.8 752 82.4 704 26.2 75.2 75.6 704 27.6 75.6 36.5 75.8 83.2 706 27.7 75.4 77.5 70.0 27.7 75.4 77.5 70.0 27.7 75.4 77.5 70.0 27.7 75.4 77.5 70.0 27.7 75.4 77.5 70.0 27.7 75.4 77.5 70.0 27.7 75.4 77.5 70.0 27.7 75.4 77.5 70.0 27.7 75.4 77.5 70.0 27.1 37.0 70.0 27.1 37.0 70.0 27.0 70.0 27.0 70.0 <td>694</td> <td>26.2</td> <td>746</td> <td>77.4</td> <td></td> <td></td> <td>694</td> <td>19.9</td> <td>746</td> <td>69.3</td> <td></td> <td></td> <td>694</td> <td>22.9</td> <td>746</td> <td>6.89</td> <td></td> <td></td>	694	26.2	746	77.4			694	19.9	746	69.3			694	22.9	746	6.89		
29.1 749 79.9 700 22.1 749 71.8 700 25.8 749 31.8 750 81.9 703 24.2 750 74.4 703 26.9 750 33.8 752 82.4 704 26.2 752 756 706 27.6 750 36.5 755 84.4 709 28.9 755 79.0 709 31.9 758 38.5 756 85.0 711 30.9 756 80.8 711 33.2 758 40.8 75 86.0 711 30.9 756 80.8 711 33.4 759 84.0 711 33.4 759 84.0 711 33.4 759 84.0 714 34.4 758 84.0 714 36.7 750 44.9 760 84.0 714 36.7 750 44.9 760 88.0 714 36.0 771 36.0 772	969	27.6	747	78.9			969	20.7	747	71.2			969	24.4	747	9.69		
31.8 750 81.9 703 24.2 750 74.4 703 26.9 750 750 78.6 704 27.6 750	200	29.1	749	6.62			700	22.1	749	71.8			700	25.8	749	70.9		
33.8 752 82.4 704 26.2 75.6 75.6 706 27.7 754 77.5 76.6 29.7 75.7 75.6 706 29.7 75.4 75.5 70.0 29.7 75.4 75.5 70.0 29.7 75.4 75.5 70.0	703	31.8	750	81.9			703	24.2	750	74.4			703	26.9	750	74.1		
35.0 754 83.2 706 27.7 754 775 776 775 776 776 776 28.7 776 28.9 755 790 31.9 758 38.5 758 84.4 709 31.9 758 38.6 709 31.9 758 38.7 711 33.2 758 32.7 711 33.2 758 34.9 758 40.9 711 33.4 758 82.7 712 34.4 758 40.9 711 33.4 758 82.7 712 34.4 758 40.9 711 33.4 759 84.0 714 34.4 758 40.0 714 36.7 714 36.7 714 36.7 714 36.7 714 36.7 714 36.7 714 36.7 714 36.7 714 36.7 714 36.7 714 36.7 714 36.7 714 36.7 714 36.7 714 36.7 714 </td <td>704</td> <td>33.8</td> <td>752</td> <td>82.4</td> <td></td> <td></td> <td>704</td> <td>26.2</td> <td>752</td> <td>75.6</td> <td></td> <td></td> <td>704</td> <td>27.6</td> <td>752</td> <td>75.2</td> <td></td> <td></td>	704	33.8	752	82.4			704	26.2	752	75.6			704	27.6	752	75.2		
36.5 755 84.4 709 28.9 755 79.0 709 31.9 755 38.5 756 85.0 711 30.9 756 80.8 711 33.2 756 39.7 758 86.0 712 32.3 758 82.7 712 34.4 758 40.8 759 87.2 714 33.4 759 84.0 712 34.4 758 40.8 759 87.2 714 33.4 759 84.0 714 36.7 759 41.9 760 88.1 714 33.4 759 84.6 717 39.8 762 44.9 762 80.8 764 87.5 717 39.8 762 46.1 767 92.2 720 41.9 761 46.1 762 49.4 768 93.1 724 42.4 769 91.8 724 46.1 769 52.	902	35.0	754	83.2			902	27.7	754	77.5			902	29.7	754	9.92		
38.5 756 85.0 711 30.9 756 80.8 711 33.2 756 39.7 758 86.0 712 32.3 758 82.7 712 34.4 758 40.8 759 87.2 714 33.4 759 84.0 714 36.7 759 41.9 760 88.1 716 34.6 760 84.6 717 39.8 762 44.9 764 91.3 717 35.9 762 86.2 717 39.8 762 44.9 764 91.3 718 36.8 764 87.5 717 39.8 762 46.1 767 92.2 720 37.8 767 89.2 720 41.9 767 49.4 768 93.1 722 40.8 768 90.7 724 46.1 769 50.1 769 94.6 774 92.9 774 92.9	400	36.5	755	84.4			400	28.9	755	0.62			400	31.9	755	77.5		
39.7 758 86.0 712 32.3 758 82.7 712 34.4 758 40.8 759 87.2 714 33.4 759 84.0 714 36.7 759 41.9 760 88.1 716 34.6 760 84.6 717 39.8 760 43.6 762 89.8 717 35.9 762 86.2 717 39.8 762 44.9 764 91.3 718 36.8 764 87.5 717 39.8 762 46.1 767 92.2 720 37.8 767 89.2 720 41.9 767 49.4 768 93.1 722 40.8 768 90.7 722 45.0 768 50.1 769 94.5 724 42.4 769 91.8 724 46.1 769 52.5 773 94.6 727 46.7 774 92.9	711	38.5	756	85.0			711	30.9	756	8.08			7111	33.2	756	78.9		
40.8 759 87.2 714 33.4 759 84.0 714 36.7 759 41.9 760 88.1 716 34.6 760 84.6 717 39.8 760 43.6 762 89.2 717 39.8 762 86.2 717 39.8 762 44.9 764 91.3 718 36.8 764 87.5 718 41.1 764 46.1 767 92.2 720 37.8 767 89.2 718 41.1 764 49.4 768 93.1 722 40.8 768 90.7 722 45.0 768 50.1 769 94.2 724 42.4 769 91.8 724 46.1 769 52.5 773 94.6 727 46.7 774 92.9 727 48.6 773 53.9 774 95.5 775 96.5 775 96.5	712	39.7	758	0.98			712	32.3	758	82.7			712	34.4	758	80.0		
41.9 760 88.1 716 34.6 760 84.6 716 38.6 760 43.6 762 86.2 717 39.8 762 44.9 764 91.3 718 36.8 764 87.5 718 41.1 764 46.1 767 92.2 720 37.8 767 89.2 720 41.9 767 49.4 768 93.1 722 40.8 768 90.7 722 45.0 768 50.1 769 94.2 724 42.4 769 91.8 724 46.1 769 52.5 773 94.6 724 46.1 769 91.8 724 46.1 769 53.9 774 95.5 727 46.7 774 92.9 727 50.3 774 55.2 775 96.5 730 48.2 775 93.9 730 51.5 775 59.2 780 96.9 731 53.9 730 51.5 730 51.5	714	40.8	759	87.2			714	33.4	759	84.0			714	36.7	759	81.3		
43.6 762 89.8 717 35.9 762 86.2 717 39.8 762 44.9 764 91.3 718 36.8 764 87.5 718 41.1 764 46.1 767 92.2 720 37.8 767 89.2 720 41.9 767 49.4 768 93.1 722 40.8 768 90.7 724 46.1 769 50.1 769 94.2 724 42.4 769 91.8 724 46.1 769 52.5 773 94.6 724 46.7 774 92.9 724 46.1 769 53.9 774 95.5 727 46.7 774 92.9 727 50.3 774 55.2 775 96.5 730 48.2 775 93.9 730 51.5 775 59.2 780 96.9 731 53.6 730 51.5 775	716	41.9	092	88.1			716	34.6	09/	84.6			716	38.6	092	82.1		
44.9 764 91.3 718 36.8 764 87.5 718 41.1 764 46.1 767 92.2 720 37.8 767 89.2 720 41.9 767 49.4 768 93.1 722 40.8 768 90.7 722 45.0 768 50.1 769 94.2 724 42.4 769 91.8 724 46.1 769 52.5 773 94.6 726 45.6 773 92.4 726 48.6 773 53.9 774 95.5 730 48.2 774 92.9 730 51.5 775 55.2 775 96.9 731 50.3 774 93.9 730 51.5 775 59.2 780 96.9 731 50.3 780 96.1 731 52.8 780	717	43.6	762	8.68			717	35.9	762	86.2			717	39.8	762	84.3		
46.1 767 92.2 720 37.8 767 89.2 720 41.9 767 49.4 768 93.1 722 40.8 768 90.7 722 45.0 768 50.1 769 94.2 724 42.4 769 91.8 724 46.1 769 52.5 773 94.6 726 45.6 773 92.4 726 48.6 773 53.9 774 95.5 730 48.2 775 93.9 730 51.5 775 59.2 780 96.9 731 52.8 780 96.1 731 52.8 780	718	44.9	764	91.3			718	36.8	764	87.5			718	41.1	764	86.7		
49.4 768 93.1 722 40.8 768 90.7 724 45.0 769 724 46.1 769 724 46.1 769 724 46.1 769 724 46.1 769 724 46.1 769 724 46.1 769 724 46.1 769 724 46.1 769 773 773 773 774 774 774 774 774 774 774 774 774 774 774 774 774 775 <td>720</td> <td>46.1</td> <td>167</td> <td>92.2</td> <td></td> <td></td> <td>720</td> <td>37.8</td> <td>167</td> <td>89.2</td> <td></td> <td></td> <td>720</td> <td>41.9</td> <td>167</td> <td>88.4</td> <td></td> <td></td>	720	46.1	167	92.2			720	37.8	167	89.2			720	41.9	167	88.4		
50.1 769 94.2 724 42.4 769 91.8 724 46.1 769 52.5 773 94.6 726 45.6 773 92.4 726 48.6 773 53.9 774 95.5 727 46.7 774 92.9 727 50.3 774 55.2 775 96.5 730 48.2 775 93.9 730 51.5 775 59.2 780 96.9 731 52.8 780 96.1 731 52.8 780	722	49.4	892	93.1			722	8.04	892	7.06			722	45.0	892	89.3		
52.5 773 94.6 726 45.6 773 92.4 726 48.6 773 53.9 774 95.5 727 46.7 774 92.9 727 50.3 774 55.2 775 96.5 730 48.2 775 93.9 730 51.5 775 59.2 780 96.9 731 52.8 780 96.1 731 52.8 780	724	50.1	692	94.2			724	42.4	692	91.8			724	46.1	692	6.06		
53.9 774 95.5 727 46.7 774 92.9 727 50.3 774 55.2 775 96.5 730 48.2 775 93.9 730 51.5 775 59.2 780 96.9 731 50.5 780 96.1 731 52.8 780	726	52.5	773	94.6			726	45.6	773	92.4			726	48.6	773	92.4		
55.2 775 96.5 730 48.2 775 93.9 730 51.5 775 59.2 780 96.9 731 50.5 780 96.1 731 52.8 780	727	53.9	774	95.5			727	46.7	774	92.9			727	50.3	774	93.1		
59.2 780 96.9 731 50.5 780 96.1 731 52.8 780	730	55.2	775	96.5			730	48.2	775	93.9			730	51.5	775	93.8		
	731	59.2	780	6.96			731	50.5	780	96.1			731	52.8	780	94.3		

 $\ensuremath{\text{@}}\xspace$ 2005 by Educational Testing Service \$38\$

Table 12 (cont.)

Reading: Cumulative Scale Score Distributions for Field Tests by Grade

Math SS point SS PS PS <th></th> <th></th> <th>Gr</th> <th>Grade 10</th> <th></th> <th></th> <th></th> <th></th> <th>Gr</th> <th>Grade 11</th> <th></th> <th></th> <th></th> <th></th> <th>Ğ</th> <th>Grade 12</th> <th></th> <th></th>			Gr	Grade 10					Gr	Grade 11					Ğ	Grade 12		
Port SS port <th></th> <th>cnm.</th> <th></th> <th>cam.</th>		cnm.		cnm.		cnm.		cnm.		cnm.		cnm.		cnm.		cnm.		cam.
9.1 746 544 791 95.2 605 4.8 746 43.1 791 93.3 605 3.1 746 544 792 94.0 673 3.3 747 39.2 11.1 748 57.1 795 94.6 673 5.3 747 45.0 94.0 673 3.3 747 39.2 11.1 748 57.1 795 94.6 683 7.9 94.0 673 3.3 747 39.2 13.7 751 62.0 80.7 98.0 686 7.0 749 49.7 80.9 98.4 46.1 795 95.6 688 7.0 749 49.7 80.0 98.4 80.7 749 49.7 80.9 98.4 46.1 795 95.6 688 7.0 749 49.7 80.0 98.4 80.7 749 49.7 80.0 98.4 80.7 749 49.4 79.3 748 46.1	SS	pcnt	SS	pent	SS	pcnt	SS	pcnt	SS	pcnt	SS	pcnt	SS	pcnt	SS	pcnt	SS	pcnt
104 747 559 964 673 5.3 747 450 792 940 673 3.3 747 39.2 964 673 5.3 748 461 792 960 683 3.9 748 461 792 966 683 3.9 748 461 792 966 683 3.9 748 461 792 966 683 3.9 748 461 792 966 683 3.9 748 407 183 184 451 807 984 685 487 <td>909</td> <td>9.1</td> <td>746</td> <td>54.4</td> <td>791</td> <td>95.2</td> <td>909</td> <td>4.8</td> <td>746</td> <td>43.1</td> <td>791</td> <td>93.3</td> <td>909</td> <td>3.1</td> <td>746</td> <td>37.2</td> <td>791</td> <td>89.3</td>	909	9.1	746	54.4	791	95.2	909	4.8	746	43.1	791	93.3	909	3.1	746	37.2	791	89.3
11.1 748 57.1 795 97.5 683 5.9 748 46.1 795 95.6 683 3.9 748 46.1 795 95.6 686 4.5 749 49.7 803 96.6 686 4.5 749 43.7 13.7 751 62.0 80.7 98.9 686 7.0 749 49.7 803 96.6 686 4.5 749 43.7 14.5 752 63.9 80.0 100.0 702 7.9 752 53.8 820 100.0 703 49.4 18.0 754 64.8 7.2 53.8 820 100.0 703 69.4 49.4	673	10.4	747	55.9	792	96.4	673	5.3	747	45.0	792	94.0	673	3.3	747	39.2	792	6.06
12.3 749 60.9 80.3 98.0 686 7.0 749 49.7 80.3 96.6 686 4.5 749 43.7 18.1 75.1 6.1 80.3 96.6 686 4.5 749 43.7 18.1 75.2 68.3 8.2 100.0 70.2 5.8 75.2 49.3 75.3 49.3 75.3 8.3 8.0 100.0 70.2 5.8 75.2 49.4 49.7 75.4 49.4 49.7 89.4 65.3 48.4 49.4 65.3 49.4 65.3 49.4 65.3 49.4 65.3 49.4 49.7 79.4 49.4 49.4 65.3 49.4	683	11.1	748	57.1	795	97.5	683	5.9	748	46.1	795	92.6	683	3.9	748	40.7	795	92.7
13.7 751 62.0 80.7 98.9 695 7.3 751 51.7 80.7 98.4 695 4.8 751 45.3 16.5 752 63.9 16.5 752 53.8 820 100.0 702 7.9 752 53.8 820 100.0 702 7.9 752 53.8 820 100.0 702 7.8	989	12.3	749	6.09	803	0.86	989	7.0	749	49.7	803	9.96	989	4.5	749	43.7	803	95.5
14.5 752 63.9 820 100.0 702 754 54.9 752 63.8 820 100.0 702 5.8 754 64.9 768 64.9 768 64.8 769 754 64.9 768 64.9 769 779 770 771 771 771 771 771 771 772 773 773 773 773 773	969	13.7	751	62.0	807	6.86	969	7.3	751	51.7	807	98.4	969	4.8	751	45.3	807	6.76
16.5 754 64.8 703 8.9 754 54.9 703 6.1 754 18.0 755 67.4 706 9.3 755 57.3 706 76 75 61.0 706 76 75 71.0 70 75 61.0 71.2 76 75 71.0 76 75 71.0 77 75 76 76 75 76 76 75 76 76 75 76 76 75 76 76 75 76	702	14.5	752	63.9	820	100.0	702	7.9	752	53.8	820	100.0	702	5.8	752	47.8	820	100.0
18.0 755 67.4 706 9.3 755 57.3 706 7.6 757 61.0 757 61.0 757 61.0 757 61.0 757 712 757 757 712 757	703	16.5	754	64.8			703	8.9	754	54.9			703	6.1	754	49.4		
20.2 757 71.4 71.2 11.0 757 61.0 71.2 8.7 757 21.8 759 72.7 71.4 11.6 759 62.7 71.4 9.9 759 24.8 760 74.1 11.6 759 62.7 71.4 9.9 759 28.5 76.1 75.3 76.1 65.9 77.0 11.3 760 28.5 76.5 77.5 17.1 76.2 66.4 77.4 13.1 762 30.9 76.5 77.5 17.1 76.2 67.4 77.5 17.5 76.1 76.3 76.4 76.1 76.3 76.4 76.1 76.2 76.4 76.2 76.4 76.2 76.4 76.2 76.4 76.2 76.4 76.2 76.4 76.2 76.4 76.2 76.2 76.2 76.2 76.2 76.2 76.2 76.2 76.2 76.2 76.2 76.2 76.2 76.2 </td <td>902</td> <td>18.0</td> <td>755</td> <td>67.4</td> <td></td> <td></td> <td>902</td> <td>9.3</td> <td>755</td> <td>57.3</td> <td></td> <td></td> <td>902</td> <td>9.7</td> <td>755</td> <td>53.3</td> <td></td> <td></td>	902	18.0	755	67.4			902	9.3	755	57.3			902	9.7	755	53.3		
21.8 759 72.7 714 11.6 759 62.7 714 9.9 759 24.8 760 74.1 11.6 750 64.3 719 11.3 760 24.8 760 74.1 71.9 14.3 760 64.3 719 11.3 760 26.4 761 75.3 72.0 15.6 761 65.9 720 12.0 761 30.9 76.3 76.6 76.4 76.3 68.6 72.2 13.1 762 30.9 76.3 76.7 76.4 76.3 68.6 72.2 15.2 76.3 32.2 76.4 78.8 76.2 76.2 72.3 76.2 76.3 76.3 76.3 76.3 76.3 76.3 76.3 77.0 77.0 77.0 77.0 77.0 77.0 77.0 77.0 77.0 77.0 77.0 77.0 77.0 77.0 77.0 77.0 77.0	712	20.2	757	71.4			712	11.0	757	61.0			712	8.7	757	55.8		
24.8 760 74.1 719 14.3 760 64.3 719 11.3 760 26.4 761 75.3 720 15.6 761 65.9 720 12.6 761 28.5 76.2 76.4 76.3 68.6 72.4 13.1 76.2 30.9 76.3 77.5 19.0 76.3 68.6 72.5 15.2 76.3 32.2 76.4 78.8 20.0 76.4 70.5 72.8 16.5 76.4 32.9 76.6 79.5 70.0 76.4 70.5 72.9 18.1 76. 34.2 76.7 80.9 73.2 24.4 77.0 73.2 73.0 19.1 76. 36.2 76.8 82.5 73.2 23.5 76.9 73.2 73.2 77. 37.0 77.1 84.3 74.4 77.0 73.2 77. 73.2 77. 41.0 77.2 <	714	21.8	759	72.7			714	11.6	759	62.7			714	6.6	759	8.99		
26.4 76.1 75.3 720 15.6 76.1 65.9 720 12.6 76.1 28.5 76.2 76.2 76.4 76.2 67.4 724 17.1 76.2 67.4 72.4 13.1 76.2 30.9 76.3 76.5 76.3 68.6 72.3 72.4 13.1 76.2 32.2 76.4 77.8 76.2 76.4 70.3 72.3 72.4 76.7 72.3 72.4 76.7 72.3 72.4 76.7 74.3 72.0 72.4 76.7 74.3 72.4 76.7 74.3 72.4 76.7 74.3 72.2 72.4 76.7 74.3 72.2 72.7 76.7 72.2	719	24.8	092	74.1			719	14.3	092	64.3			719	11.3	092	57.8		
28.5 76.2 76.4 77.4 17.1 76.2 67.4 72.4 13.1 76.2 30.9 76.3 77.5 77.5 19.0 76.4 76.3 68.6 72.5 15.2 76.3 32.2 76.4 78.8 72.8 10.0 76.4 70.5 72.8 16.5 76.4 32.9 76.6 79.5 72.9 21.0 76.4 77.3 72.9 18.1 76.7 34.2 76.7 80.9 73.2 22.4 76.7 74.3 73.0 76.9 36.2 76.8 82.5 76.8 75.8 75.8 77.0 77.8 77.2 77.0 77.8 77.2 77.0 77.8 77.2	720	26.4	761	75.3			720	15.6	761	6.59			720	12.6	761	58.7		
30.9 763 77.5 19.0 763 68.6 725 15.2 763 32.2 764 78.8 72.8 20.0 764 70.5 72.8 16.5 764 32.9 766 72.9 21.0 766 72.3 72.9 18.1 766 34.2 76.8 82.5 73 22.4 76 74.3 73 20.0 76 36.2 76.8 82.5 73 24.4 77 76.9 73 20.0 76 37.0 771 84.3 74.4 77 76.9 77 77 41.0 77.2 86.0 77 77 74 81.2 76 77 42.0 77 86.0 77 77 83.0 77 77 44.5 77 88.2 77 87 74 77 74 74 74 77 45.9 77 88.2 77	724	28.5	762	9.9/			724	17.1	762	67.4			724	13.1	762	9.69		
32.2 764 78.8 728 20.0 764 70.5 728 16.5 764 32.9 766 79.5 729 21.0 766 72.3 729 18.1 766 34.2 76 80.9 730 22.4 76 74.3 730 19.1 76 36.2 768 82.5 73 23.4 770 76.9 732 20.0 76 37.0 77 83.5 73 24.4 770 76.9 73 20.9 770 41.0 77 86.0 77 77 77 77 77 77 41.0 77 86.0 77 77 81.2 73 23.2 77 42.0 77 87 77 87 74 87 77 44.5 77 88.2 77 86.7 77 74 74 74 74 74 74 74 74 </td <td>725</td> <td>30.9</td> <td>763</td> <td>77.5</td> <td></td> <td></td> <td>725</td> <td>19.0</td> <td>763</td> <td>9.89</td> <td></td> <td></td> <td>725</td> <td>15.2</td> <td>763</td> <td>9.19</td> <td></td> <td></td>	725	30.9	763	77.5			725	19.0	763	9.89			725	15.2	763	9.19		
32.9 766 75.3 72.9 21.0 766 72.3 72.3 72.4 76.7 74.3 76.7 74.3 76.7 74.3 76.7 74.3 76.7 74.3 76.7 76.3 76.7 76.3 76.7 76.7 76.7 77.2 76.7 77.2 7	728	32.2	764	78.8			728	20.0	764	70.5			728	16.5	764	62.0		
34.2 767 80.9 730 22.4 767 74.3 77.0 76.9 75.8 75.8 75.8 75.8 75.8 75.8 75.8 75.8 75.8 76.9 77.0 76.9 77.0 76.9 77.0 76.9 77.0 76.9 77.0 77.8 77.2 77.0 77.8 77.2 77.1 77.4 81.2 77.2 77.1 77.4 81.2 77.4 77.4 77.4 81.2 77.6 83.0 77	729	32.9	992	79.5			729	21.0	992	72.3			729	18.1	992	63.4		
36.2 768 82.5 768 75.8 75.8 76.9 76.9 76.9 76.9 77.0 76.9 77.0 76.9 77.0 7	730	34.2	<i>1</i> 9 <i>L</i>	6.08			730	22.4	<i>L</i> 9 <i>L</i>	74.3			730	19.1	192	8.59		
37.6 770 83.5 733 24.4 770 76.9 771 77.8 734 20.9 770 39.0 771 84.3 734 26.0 771 77.8 734 22.5 771 41.0 772 86.0 772 79.3 735 23.2 772 42.0 774 87.3 736 28.4 774 81.2 736 24.1 774 44.5 776 88.2 776 83.0 738 26.8 776 45.9 777 86.7 777 85.3 740 27.7 777 48.6 779 90.3 741 35.8 779 86.7 741 29.7 771 49.4 781 91.4 743 37.6 784 90.7 744 32.7 784 53.1 787 94.6 745 41.5 787 745 35.0 787	732	36.2	892	82.5			732	23.5	892	75.8			732	20.0	892	8.79		
39.0 771 84.3 734 26.0 771 77.8 734 22.5 771 41.0 772 86.0 735 27.5 772 79.3 735 23.2 772 42.0 774 87.3 774 81.2 736 24.1 774 44.5 776 88.2 776 83.0 738 26.8 776 45.9 777 89.5 740 32.7 777 85.3 740 27.7 777 48.6 779 90.3 741 35.8 779 86.7 741 29.7 779 49.4 781 91.4 743 37.6 784 90.7 744 32.7 784 51.9 784 93.8 749 90.7 745 35.0 787 53.1 787 94.6 745 41.5 787 92.2 745 35.0 787	733	37.6	770	83.5			733	24.4	770	6.97			733	20.9	770	2.69		
41.0 772 86.0 735 27.5 772 79.3 735 23.2 772 42.0 774 87.3 736 28.4 774 81.2 736 24.1 774 44.5 776 88.2 738 31.6 776 83.0 738 26.8 776 45.9 777 89.5 740 32.7 777 86.7 741 29.7 777 48.6 779 90.3 741 35.8 779 86.7 741 29.7 779 49.4 781 91.4 743 37.6 781 87.6 744 32.7 784 51.9 784 93.8 749 90.7 744 32.7 784 53.1 787 94.6 745 41.5 787 92.2 745 35.0 787	734	39.0	771	84.3			734	26.0	771	77.8			734	22.5	771	71.6		
42.0 774 87.3 736 28.4 774 81.2 736 24.1 774 44.5 776 88.2 776 83.0 738 26.8 776 45.9 777 89.5 740 32.7 777 85.3 740 27.7 777 48.6 779 90.3 741 35.8 779 86.7 741 29.7 779 49.4 781 91.4 743 37.6 781 87.6 743 31.5 781 51.9 784 93.8 745 41.5 787 92.2 745 35.0 787	735	41.0	772	0.98			735	27.5	772	79.3			735	23.2	772	73.3		
44.5 776 88.2 776 83.0 738 26.8 776 45.9 777 89.5 740 32.7 777 85.3 740 27.7 777 48.6 779 90.3 741 35.8 779 86.7 741 29.7 779 49.4 781 91.4 743 37.6 781 87.6 743 31.5 781 51.9 784 93.8 744 39.6 784 90.7 744 32.7 784 53.1 787 94.6 745 41.5 787 92.2 745 35.0 787	736	42.0	774	87.3			736	28.4	774	81.2			736	24.1	774	75.1		
45.9 777 89.5 740 32.7 777 85.3 740 27.7 777 48.6 779 90.3 741 35.8 779 86.7 741 29.7 779 49.4 781 91.4 743 37.6 781 87.6 743 31.5 781 51.9 784 93.8 744 39.6 784 90.7 744 32.7 784 53.1 787 94.6 745 41.5 787 92.2 745 35.0 787	738	44.5	922	88.2			738	31.6	9//	83.0			738	26.8	9//	77.5		
48.6 779 90.3 741 35.8 779 86.7 741 29.7 779 49.4 781 91.4 743 37.6 781 87.6 743 31.5 781 51.9 784 93.8 744 39.6 784 90.7 744 32.7 784 53.1 787 94.6 745 41.5 787 92.2 745 35.0 787	740	45.9	777	89.5			740	32.7	LLL	85.3			740	27.7	777	78.8		
49.4 781 91.4 743 37.6 781 87.6 743 31.5 781 51.9 784 93.8 744 39.6 784 90.7 744 32.7 784 53.1 787 94.6 745 41.5 787 92.2 745 35.0 787	741	48.6	779	90.3			741	35.8	622	86.7			741	29.7	677	8.62		
51.9 784 93.8 744 39.6 784 90.7 744 32.7 784 53.1 787 94.6 745 41.5 787 92.2 745 35.0 787	743	49.4	781	91.4			743	37.6	781	9.78			743	31.5	781	82.0		
53.1 787 94.6 745 41.5 787 92.2 745 35.0 787	744	51.9	784	93.8			744	39.6	784	2.06			744	32.7	784	85.3		
	745	53.1	787	94.6			745	41.5	787	92.2			745	35.0	787	88.0		

Table 13

Writing: Cumulative Scale Score Distributions for Field Tests by Grade

	Grade K	×		Ğ	Grade 01			Gra	Grade 02					Grade 03	e 03					Ğ	Grade 04		
	cum.	cnm	η.	cnm	ı	cum.		cnm.		cnm.		cnm.		cum.	cnm	m.	cum.		cnm	1.	cum.		cnm.
SS	pent SS	S pent	ıt SS	bcnt	t	pent	SS	pcnt	SS	pent	SS	pcnt	SS	pcnt	SS pent	nt SS	S pent	SS	S pent	SS	pcnt	SS	pcnt
515		.66 089				86.3	515	3.6	629	38.7	515	1.5	637		_			575	5 4.2			720	75.6
		683 99.9				89.4	559	4.5	663	43.9	551	1.5	889	Ĭ	671 29				•			721	6.97
267	68.4 68		.0 567	7 16.4	999 †	7.06	267	5.1	999	46.2	556	1.9	639	9.8	673 30.8	.8 743	13 97.0			672	25.3	723	77.9
	9.92		57,			91.8	572	5.7	699	49.6	562	2.0	640									724	9.62
	82.4		588			92.4	588	6.2	029	52.7	578	2.2	642						_			725	80.9
	85.8		265			93.3	594	7.4	673	54.8	582	2.5	643			7.		611				728	82.7
	9.88		59',			94.2	597	7.8	929	58.7	585	2.7	645			6.		615				729	84.2
	89.4		709			94.8	605	8.0	<i>L L D D D D D D D D D D</i>	62.8	593	2.9	949			∞.		620				730	85.3
	90.5		509			95.5	609	0.6	089	8.59	969	3.2	647			2		621				733	86.7
	92.1		61.			96.1	611	9.2	683	68.3	869	3.5				9:		62				735	88.9
	93.0		610			6.96	919	8.6	685	72.5	603	3.6			682 43	∞.		62				739	8.68
	93.8		62(97.5	620	10.6	069	75.1	909	3.7	059	12.2		0:		62				741	91.9
	94.7		627			8.76	622	11.1	692	6.77	209	3.9			686 49	5.		631		689		745	92.7
	95.2		62;			98.4	625	11.8	969	81.4	611	4.2				0:		63				747	95.0
	95.8		628			7.86	628	12.5	703	83.9	613	4.4	653			4.		636				753	95.7
	2.96		(93			0.66	630	13.4	705	87.2	614	4.6	654			T:		637				755	97.0
	97.3		63.			99.3	633	14.3	802	0.06	617	4.9	655	15.3		∞.		641				762	6.76
	97.5		630			100.0	989	16.3	730	100.0	620	5.1				.3		642				764	98.1
	8.76		638		6)		638	17.5			622	5.3		8.91	02 669	0:		646	6 12.7	7 700		765	98.5
	0.86		64(640	18.9			624	5.4				.3		647				774	98.7
	98.3		64.				643	21.2			625	5.9	629			.3		651				9//	99.2
	6.86		49		6)		644	23.1			627	0.9				4.		652		707	60.7	778	99.3
	0.66		64				646	24.7			629	6.3	662			∞.		959	6 16.2		Ī.	795	99.5
	99.3		92(650	27.7			631	6.7	663			6.		657	7 16.7			862	7.66
	99.4		(5))		651	29.4			632	8.9	664	23.3		∞.		099		•	67.4	800	8.66
-	5.66		65	3 79.8	~		653	31.1			633	7.1	999	24.1		4.		661	1 18.4	1 715		825	100.0
699	9.66		650				959	34.0			635	7.5	7 299	. 6.42	724 91.	-:		664	4 19.7	717	72.6		
029	8.66		65.	7 85.2	2,		657	37.0			989	7.8	899	, 4.92	727 93.0	0:		999	5 20.5	5 719	`		

Table 13 (cont.)

Writing: Cumulative Scale Score Distributions for Field Tests by Grade

	cam.	pent	77.9	78.7	6.08	82.0	83.5	85.2	8.98	87.5	89.2	91.9	93.8	94.5	95.7	96.4	97.1	7.76	7.86	100.0											
		SS	754	756	757	761	762	764	892	692	772	778	783	682	792	862	908	814	821	845											
e 09	cum.	pent	30.5	31.9	32.9	34.7	35.4	36.0	38.4	40.3	41.8	44.0	45.2	47.8	48.7	49.5	51.8	55.4	58.5	59.7	62.1	63.3	65.3	8.99	0.07	6.07	71.9	73.4	74.1	75.6	8.92
Grade 09		SS	692	663	694	269	869	701	702	90/	707	710	711	714	715	718	719	723	727	728	731	732	736	737	740	742	745	746	748	750	751
	cam.	pent	2.9	3.6	3.9	8.8	5.0	5.5	6.3	7.1	7.9	8.8	0.6	10.3	11.0	12.6	13.2	14.3	14.6	16.4	16.8	17.7	19.0	19.5	20.1	22.0	24.5	26.1	6.92	28.4	29.8
		SS	580	287	280	909	209	819	619	620	628	679	989	889	643	949	650	653	959	099	662	999	L99	899	672	673	829	683	684	889	689
	cum.	pcnt	6.	7.3	6.	0	5.	7.	8.	.5	7.	6:	∞ .	.5	7.	4.	97.1	7.7	7.3	0.0											
	cn	SS bc															26 908			345 10											
80	cnm.	- 1																		~	-	3	3	∞ .	0:	6.	6:	4.	-:	9:	% :
Grade 08	cn	SS pent																		728 59										50 75.6	
	cum.	pent					5.0 6																							28.4 7	
	ว	SS bc																		660 16					• •	• •			584 26	•	689 29
	1.	1																			9	9	9	9	9	9	9	9	9	9	ŷ
	cnm	pcnt															97.9														
	٦.	t SS															908		821	845	6)	<u> </u>	~	~	7	~	~	10	6)	~	, 0
Grade 07	cnm	bcnt	- '	- 1	4 28.2			1 32.3												8 58.0										9.62 0	
Ģ	نہ	SS	692	693	694	L 69	69	70	70	70	70	71								728											Ì
	cnm	pcnt	Ċ	ĺ	5.1			7.2																						•	
		SS	580	587	290	909	209	618	619	620	628	629	636	989	643	646	920	653	959	099	99	999	199	899	672	673	829	683	684	889	689
	cam.	pent	6.89	71.1	72.8	74.6	76.4	78.2	7.67	82.3	83.9	86.1	87.7	89.5	9.06	92.5	93.2	94.2	95.3	96.1	97.0	8.76	98.3	9.86	99.2	100.0					
		SS	723	724	725	728	729	730	733	735	739	741	745	747	753	755	762	764	292	774	9//	178	795	862	800	825					
e 06	cum.	pcnt	21.7	23.6	24.1	25.4	0.92	28.2	6.67	9.08	31.7	32.8	34.1	35.9	37.4	88.8	40.5	41.8	44.0	46.1	48.2	49.5	52.2	53.3	8.99	57.7	50.1	52.6	54.0	0.99	67.4
Grade 06		SS	699		673		. 229	_	681				289				, 569			, 002											_
	cum.	pcnt	3.6	4.1	8.4	5.2	5.3	5.7	5.9	6.3	6.9	7.0	7.4	7.5	7.7	8.4	9.1	9.6	10.2	6.01	11.7	13.1	14.1	15.2	15.9	9.91	17.2	18.2	19.1	0.02	21.4
		SS	575	595	969	605	610	611	615	620	621	624	628	679	631	635	989	637	641	642	949	647	651	652	959	657	099	199	664	999	899
	cnm.	pent	5.	.5	5.	<u>«</u>	7.9	Ξ	5.	9.	5.	0.	1.	6.0	6.	5.	5.	4.	4.	9.76	3	9.9	<u>«</u> .	2.0	99.4	0.0					
	ฮ																								_	Ξ					
2	n.	ıt SS																		8 774					1 800	•	7	7	9	4	9
Grade 05	cnm	bcnt	_																	0 45.8									_		
9	1.	t SS	99	. 67.	673	1/9	. 67	. 680			684									2 700		_		_	`_	`	`_	5 717	`	1 720	~
	cnm	bcnt	5 5.3	5 5.7	5 5.9	2 6.3	7.0	7.4		6.8										2 13.2						7 18.4	19.9	_	1 21.7		
		SS	575	595	296	602	610	611	615	620	621	624	628	629	631	635	636	637	641	642	646	647	651	652	959	657	099	199	664	999	899

Table 13 (cont.)

Writing: Cumulative Scale Score Distributions for Field Tests by Grade

																			;	OI age 15			
၁	cum.	ರ	ım.	5	cnm.	-	cum.		cum.		cam.		cum.		cum.		cnm.		cum.		cum.		cnm.
þ	pent	SS bc	pent	SS bo	. !	SS	pcnt	SS	pent	SS	pcnt	SS	pent	SS	pent	SS	pcnt	SS	pent	SS	pent	SS	pcnt
						922	95.4	009	3.4	683	16.3	720	53.1	862	2.96	009	2.5	684	13.8	721	50.1	908	8.96
					•	781	96.3	209	3.5	684	17.4	721	54.3		9.76	209	2.6	989	14.6	723	52.7	814	8.76
							9.96	809	3.6	989	19.1	723	55.4		9.86	621	2.7	889	15.5	724	53.7	828	9.86
							97.2	618	3.9	889	19.8	724	8.99		6.86	630	2.8	689	16.3	726	54.6	850	100.0
						862	6.76	629	4.1	689	20.8	726	8.89	850	100.0	637	2.9	069	17.1	728	58.5		
	4.6 6	684 26	26.8 7.	721 62	62.1 8		98.4	630	4.5	069	22.3	728	61.4			638	3.2	691	17.7	730	59.7		
							0.66	643	8.4	691	22.7	_	63.0			644	3.3	693	18.5	732	61.5		
						828	99.4	644	5.2	693	23.5	732	65.0			650	3.8	694	19.5	733	62.9		
						850 1	0.001	649	5.4	694	24.8		6.99			654	3.9	695	20.3	735	64.5		
643 6					0.6			650	6.2	695	25.8	735	9.89			655	4.0	269	21.4	738	68.2		
					9.0			655	6.3	L69	26.4		71.7			959	4.2	869	22.4	741	69.3		
					1.9			959	6.9	869	27.7		73.5			629	4.5	669	23.8	743	72.1		
_					3.6			629	7.1	669	28.8	743	76.7			099	4.8	700	25.3	747	73.6		
					9.0			099	7.4	700	29.4		9.87			661	5.0	702	26.3	749	74.7		
					8.5			199	8.1	702	31.0		80.2			663	5.3	703	27.9	750	8.97		
					8.0			663	8.3	703	32.8		82.0			999	5.9	704	29.2	753	78.8		
					3.1			999	9.8	704	34.0		83.9			999	6.5	902	30.9	756	80.5		
_					4.4			999	0.6	902	35.6	756	85.5			899	7.1	707	32.7	757	82.1		
					5.5			899	6.6	707	37.3		87.1			699	7.2	208	34.2	761	83.3		
					6.3			699	10.3	708	38.7		9.78			029	7.7	402	35.3	764	84.8		
					8.0			029	10.8	709	40.6		88.3			672	8.2	710	37.1	99/	8.98		
					0.6			672	11.2	710	41.8	992	90.2			674	9.5	712	38.5	770	87.7		
					0.2			674	12.4	712	42.7	770	91.1			929	6.6	713	40.0	773	89.2		
					1.6			929	12.8	713	45.1	773	92.2			829	10.8	714	42.0	9//	6.06		
_					2.5			829	13.1	714	8.94	9//	93.9			629	10.9	715	43.8	781	92.0		
					3.4			629	14.1	715	48.6	781	94.8			089	12.1	717	44.6	98/	93.7		
					4.2			089	14.8	717	50.4	982	92.6			682	12.8	719	47.2	790	94.8		
Ì					1.4			682	15.4	719	8 1 8	190	0.96			683	13.3	720	48.5	798	95.5		

Table 14

Listening/Speaking: Percentage of Field Test Students Reaching Benchmarks

	Grade K	Grade 01	Grade 02	Grade 03	Grade 04	Grade 05	Grade 06
<620	42.8	12.5	6.3	5.0	3.9	6.2	4.8
620<=SS<660	44.4	44.9	21.5	11.8	9.0	9.0	10.1
660<=SS<700	11.6	36.5	51.7	44.5	31.7	26.6	29.1
700<=SS<740	1.1	6.0	18.9	33.7	47.0	45.9	39.9
740<=SS	0.0	0.2	1.6	5.0	8.3	12.2	16.2

	Grade 07	Grade 08	Grade 09	Grade 10	Grade 11	Grade 12
<620	8.4	7.2	10.8	3.9	1.7	0.6
620<=SS<660	7.8	8.6	12.4	8.6	4.3	3.3
660<=SS<700	24.3	20.9	26.5	23.3	22.1	21.5
700<=SS<740	54.5	54.9	43.7	49.4	54.4	52.1
740<=SS	5.0	8.4	6.7	14.8	17.6	22.5

Table 15

Reading: Percentage of Field Test Students Reaching Benchmarks

	Grade K	Grade 01	Grade 02	Grade 03	Grade 04	Grade 05	Grade 06
<620	98.8	78.9	25.2	11.1	11.2	10.8	8.7
620<=SS<660	0.5	12.0	25.1	14.0	10.9	9.8	10.7
660<=SS<700	0.6	5.7	27.5	38.1	29.4	22.2	20.3
700<=SS<740	0.1	2.7	15.0	29.9	39.6	41.6	40.5
740<=SS<780	0.0	0.5	5.5	5.2	7.9	14.5	16.8
780<=SS	0.0	0.3	1.7	1.7	1.0	1.2	3.0

	Grade 07	Grade 08	Grade 09	Grade 10	Grade 11	Grade 12
<620	13.7	9.6	11.2	9.1	4.8	3.1
620<=SS<660	3.1	2.5	2.5	0.0	0.0	0.0
660<=SS<700	10.7	8.6	10.7	4.6	2.5	1.8
700<=SS<740	41.6	38.6	35.5	30.8	24.3	22.0
740<=SS<780	27.4	34.6	33.9	45.8	55.1	53.0
780<=SS	3.5	6.1	6.2	9.7	13.3	20.2

Table 16

Writing: Percentage of Field Test Students Reaching Benchmarks

	Grade K	Grade 01	Grade 02	Grade 03	Grade 04	Grade 05	Grade 06
<620	93.0	37.0	9.8	4.9	6.9	8.0	5.9
620<=SS<660	6.5	49.3	28.9	13.8	9.7	10.4	10.8
660<=SS<700	0.6	12.1	42.7	51.3	34.0	25.8	27.4
700<=SS<740	0.0	1.6	18.6	26.2	39.1	40.3	39.9
740<=SS<780	0.0	0.0	0.0	3.8	9.5	14.0	13.9
780<=SS	0.0	0.0	0.0	0.0	0.7	1.4	2.2

	Grade 07	Grade 08	Grade 09	Grade 10	Grade 11	Grade 12
<620	7.7	5.6	6.3	4.1	3.9	2.6
620<=SS<660	6.9	5.3	8.2	7.2	3.2	1.8
660<=SS<700	16.6	17.1	20.8	28.0	21.7	19.3
700<=SS<740	38.6	34.1	31.4	39.2	42.8	44.3
740<=SS<780	25.3	29.7	25.2	16.8	22.3	22.7
780<=SS	4.9	8.3	8.1	4.6	6.1	9.1

Table 17

Item Statistics by Modality, Test Level, and Final Form

			Diffi	culty	Discrim	Discrimination	
Modality	Test Level/ Form	No. of Items	Mean	SD	Mean	SD	
Listening	A1	20	0.74	0.13	0.62	0.09	
	A2	20	0.74	0.13	0.57	0.09	
	B1	22	0.72	0.13	0.54	0.09	
	B2	22	0.69	0.15	0.54	0.07	
	C 1	22	0.73	0.12	0.61	0.09	
	C2	22	0.71	0.13	0.60	0.08	
	D1	22	0.76	0.14	0.58	0.09	
	D2	22	0.75	0.15	0.55	0.09	
Speaking	A1	10	0.72	0.14	0.75	0.08	
	A2	10	0.68	0.14	0.74	0.08	
	B1	13	0.78	0.08	0.75	0.10	
	B2	13	0.80	0.08	0.75	0.10	
	C1	13	0.69	0.11	0.74	0.13	
	C2	13	0.67	0.11	0.75	0.12	
	D1	13	0.72	0.11	0.72	0.13	
	D2	13	0.74	0.07	0.71	0.13	
Reading	A1	21	0.70	0.16	0.64	0.13	
	A2	21	0.70	0.16	0.63	0.16	
	A1+Ext	31	0.64	0.17	0.58	0.14	
	A2+Ext	31	0.66	0.16	0.61	0.14	
	B1	27	0.60	0.16	0.59	0.14	
	B2	27	0.61	0.13	0.60	0.10	
	C 1	26	0.57	0.14	0.59	0.11	
	C2	26	0.57	0.13	0.58	0.09	
	D1	26	0.62	0.13	0.57	0.10	
	D2	26	0.63	0.12	0.57	0.08	
Writing	A1	7	0.50	0.13	0.84	0.05	
	A2	7	0.47	0.12	0.80	0.01	
	A1+Ext	16	0.58	0.14	0.77	0.12	
	A2+Ext	16	0.57	0.14	0.76	0.10	
	B1	25	0.60	0.11	0.58	0.14	
	B2	25	0.61	0.11	0.59	0.15	
	C1	25	0.62	0.13	0.57	0.19	
	C2	25	0.59	0.14	0.58	0.17	
	D1	25	0.63	0.14	0.65	0.12	
	D2	25	0.67	0.11	0.61	0.12	

Table 18
Scoring Table for Locator Test

Raw Score	Scale Score	SEM
0	345	200
1	345	200
2	345	200
3	345	200
4	345	200
5	345	200
6	652	57
7	676	38
8	692	24
9	702	17
10	710	13
11	717	12
12	723	11
13	729	10
14	735	10
15	742	11
16	750	12
17	762	16
18	820	74

Note: SEMs for scale scores of 345 and 820 are approximate.

Table 19

Proportions of Students in the Field Test Scoring Below the Locator Cut Points and At or Above the Locator Cut Points

	Total	1.00	1.00
Cut Points	At or Above 729	0.50	0.77
	Below 729	0.50	0.23
	Test Level	C	D
	Total	1.00	1.00
Cut Points	At or Above 702	0.52	0.74
	Below 702	0.48	0.26
	Test Level	В	C
	Total	1.00	1.00
Cut Points	At or Above 652	0.41	0.83
	Below 652	0.59	0.17
	Test Level	A	В

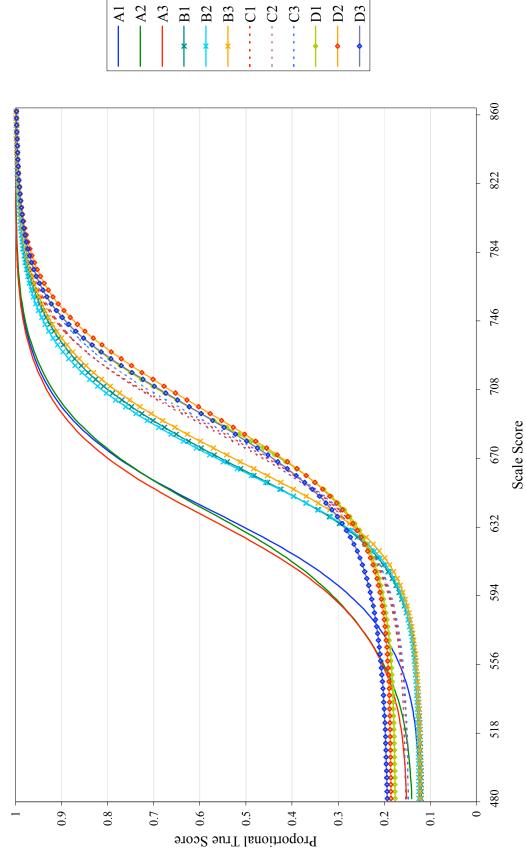


Figure 1. Listening/Speaking: Test characteristic curves for field test forms

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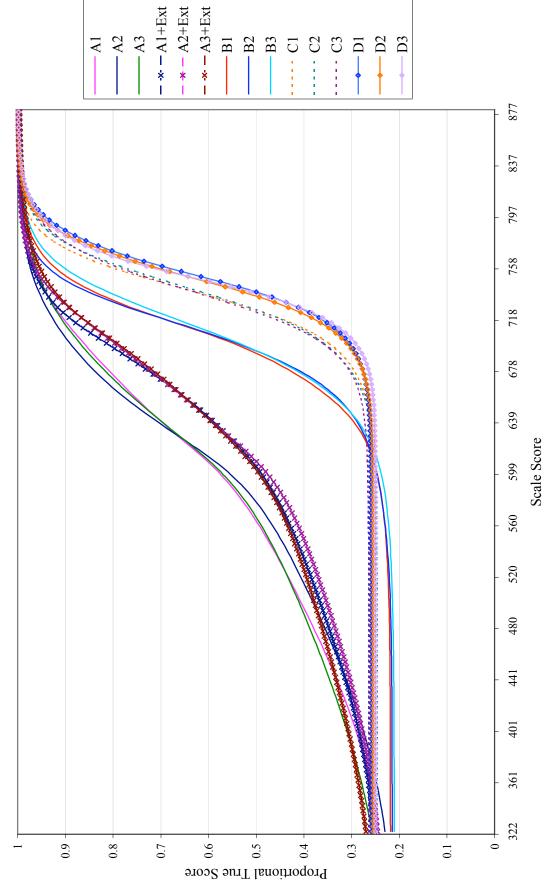


Figure 2. Reading: Test characteristic curves for field test forms

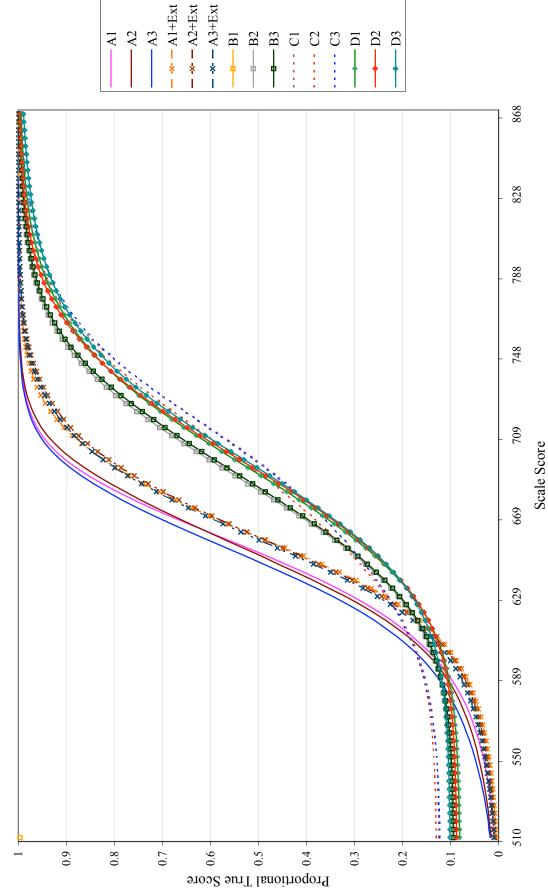
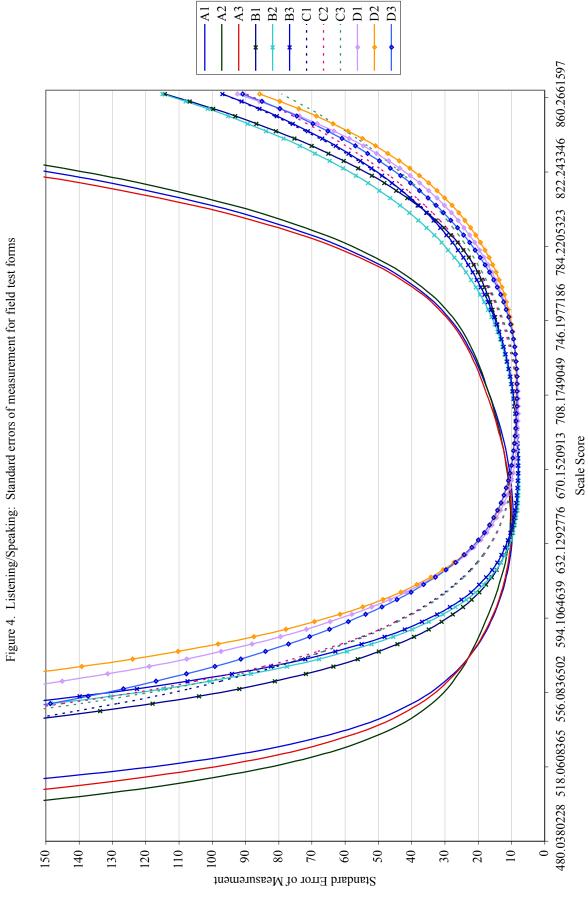


Figure 3. Writing: Test characteristic curves for field test forms

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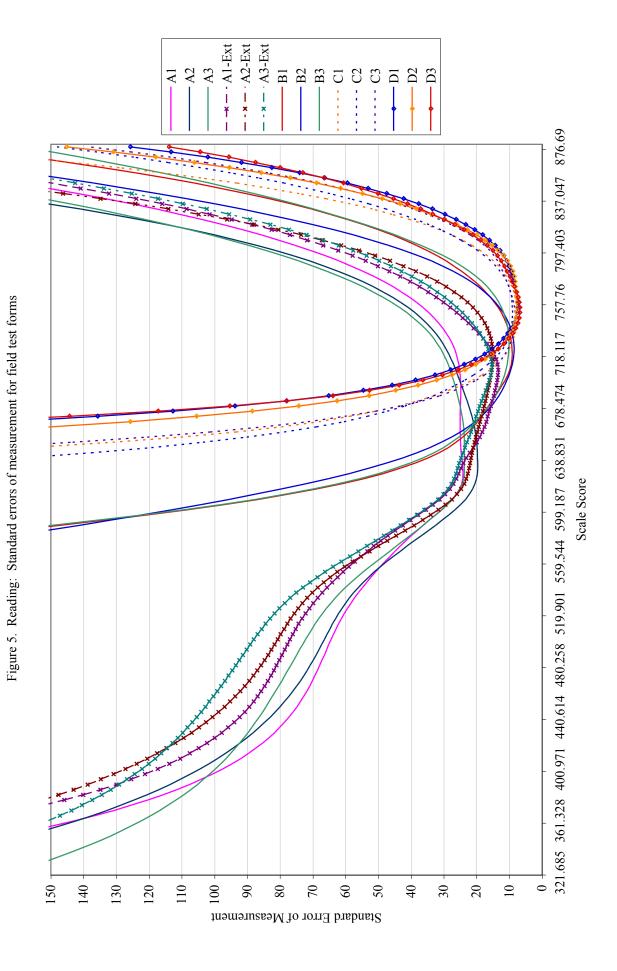
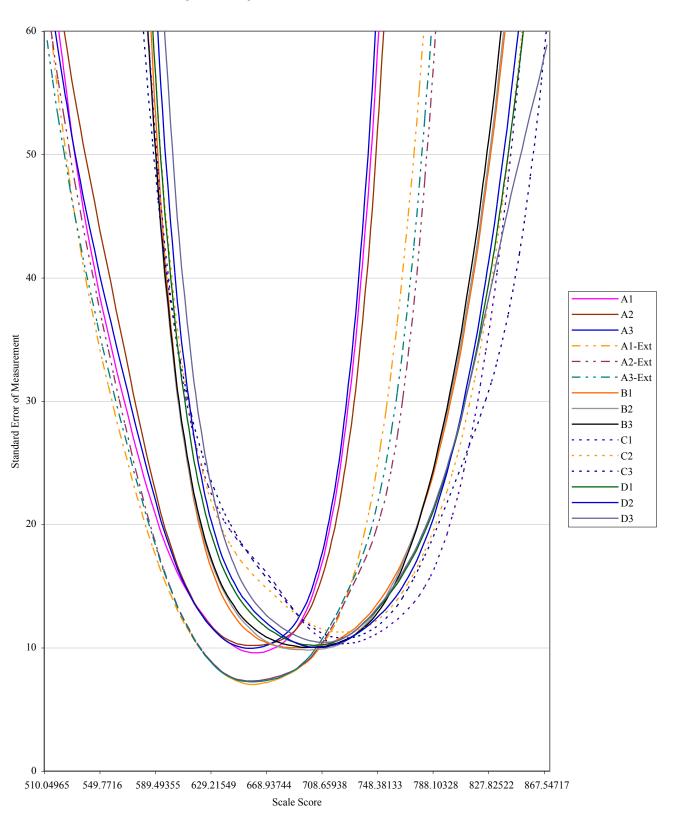


Figure 6. Writing: Standard errors of measurement for field test forms



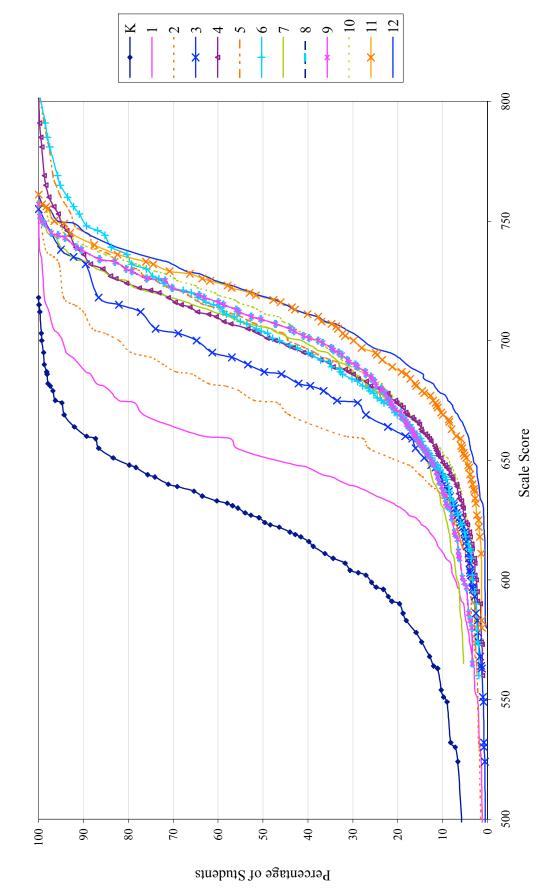
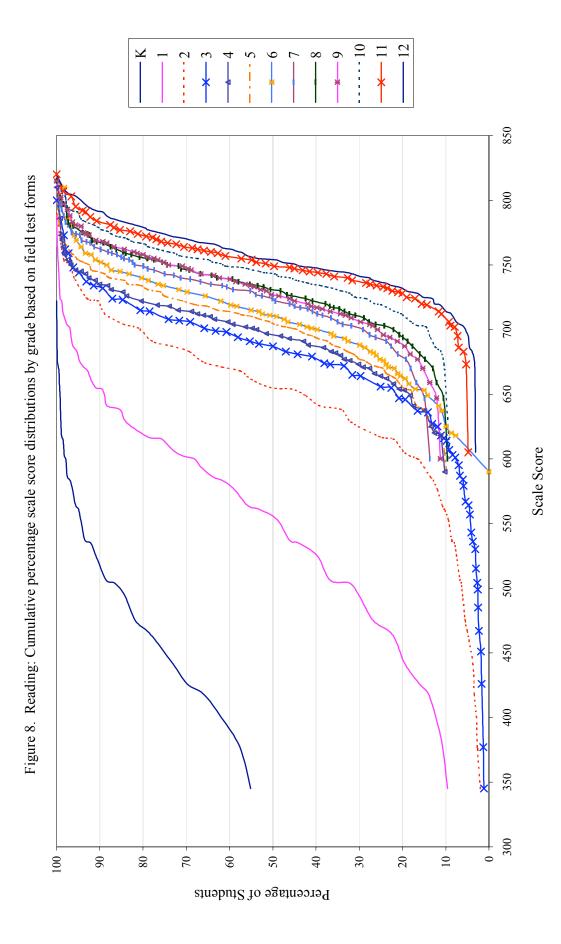
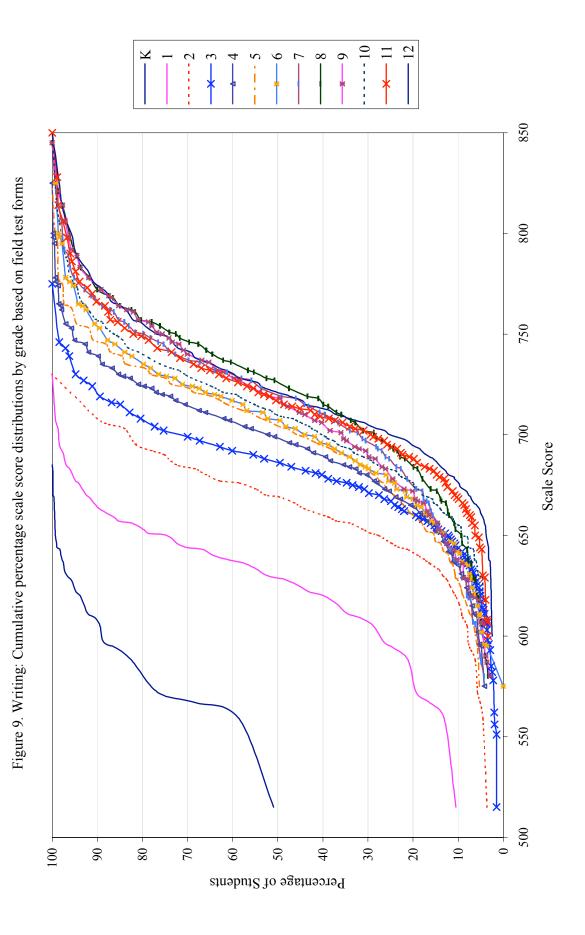


Figure 7. Listening/Speaking: Cumulative percentage scale score distributions by grade based on field test forms



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 \odot 2005 by Educational Testing Service 57

Appendix B: Overview of Skills Tested

CELLA Final Test Forms Overview—Level A and Level A Extension (Ax)

Modality	Benchmarks	Le	vel	- Item Types
Wiodanty	Deficilitat KS	A	Ax	nem Types
	Vocabulary	20-30%	N/A	Listening Vocabulary (CR)
Listening				Listen and Match
Listening	Comprehension	70-80%	N/A	Short Talks (Teacher Instruction)
				Extended Listening Comprehension
	Pronunciation*	0-15%	N/A	Oral Vocabulary (CR)
Speaking	Vocabulary Grammar/Sentence*	20-30% 0-20%	N/A N/A	Speech Functions (CR)
	Discourse	45-65%	N/A	Personal Opinion (CR)
				Story Retelling (CR)
	Print Concepts	15-30%	10-25%	Demonstrating Print Concepts (CR)
	Time Concepts	13-3070	10-2570	Naming Letters (CR)
	Phonemic Awareness,	40-55%	25-40%	Reading Aloud for Fluency (CR)
Reading	Decoding, and Word Recognition	40-33%	23-40%	Listen, Read, and Match
reading	Vocabulary	4-15%	5-15%	Listen, Read, and Match (antonym)
	v ocabular y	4-1370	J-1370	Vocabulary in Context
	Comprehension	15-30%	35-45%	Short Reading Comprehension
	Comprehension	13-30 70	33-4370	Reading Comprehension Set
	Writing from Dictation	10-25%	5-15%	Dictated Letters (CR)
	Spelling	30-50%	15-25%	Dictated Words (CR)
Writing	Punctuation & Capitalization**	0-15%	5-20%	Dictated Sentences (CR)
Willing	Grammar**	0-20%	15%	Descriptive Sentences (CR)
	Writing Sentences	20-40%	15-30%	Descriptive Sentences (CR)
	Writing Paragraphs		10-20%	Multiple Sentences (CR)
	Editing		3-15%	Editing

⁽CR) = Constructed Response Items

^{*}Pronunciation and Grammar Speaking Benchmarks are assessed through the scoring rubric for Discourse items. However, all Discourse test items are mapped to Discourse Benchmarks (since all items are mapped to a single Benchmark). Thus, though the alignment mappings may appear to suggest otherwise, the Pronunciation and Grammar Benchmarks in Speaking are assessed.

**Grammar and Punctuation & Capitalization Writing Benchmarks are assessed through some of the scoring rubrics for Sentences in Level A and the scoring rubrics for Sentences and Paragraphs in Level A Extension and Levels B - D. Thus, though the alignment mappings may appear to suggest otherwise in some cases, Grammar and Punctuation & Capitalization Benchmarks are assessed at all levels. (See CELLA Scoring Guide for Writing, Level A.)

CELLA Final Test Forms Overview—Levels B, C, and D

Modality	Benchmarks		LEVEL		Item Type
Modanty	Delicililai Ks	В	C	D	item Type
	Vocabulary	30-40%	30-40%	30-40%	Listen and Match
	Vocabulary	30-40 %	30-40 70	30-40 %	Picture Description
Listening					Short Talks (Teacher Instruction)
	Comprehension	60-70%	60-70%	60-70%	Short Talks (Partial Dialogue)
					Extended Listening Comprehension
					Oral Vocabulary (CR)
	Vocabulary Pronunciation*	15-30% 0-15%	15-30% 0-15%	15-30%	Speech Functions (CR)
Speaking	Grammar/Sentence	0-13%	0-13%	0-15% 0-20% 55-75%	Personal Opinion (CR)
	Discourse	55-75%	55-75%		Story Retelling (CR)
					Graph Interpretation (CR)
	Vocabulary	30-40%	30-40%	30-40%	Discrete Vocabulary
Reading	v ocabular y	30-40 //		30-4070	Vocabulary in Context
Reading	Comprehension	60-70%	60-70%	60-70%	Reading Aloud for Fluency (CR)
	Comprehension	00-7070	00-70 70	00-7070	Reading Comprehension
	Grammar**	15-30%	15-30%	15-30%	Grammar, Structure, Word Choice
	Punctuation &	3-15%	3-15%	3-15%	Grammar, Structure, Word Choice
	Capitalization**				Recognizing Errors
Writing	Editing, including Spelling	10-20%	10-20%	10-20%	Recognizing Errors
					Writing Sentences (CR)
	Writing Sentences	25-40%	25-40%	30-40%	Grammar, Structure, Word Choice
	Writing	25-40%	25-40%	30-40%	Writing Paragraphs (CR)
	Paragraphs	23-4070	23-4070	30-40 /0	Paragraph Choices

⁽CR) = Constructed Response Items

^{*}Pronunciation and Grammar Speaking Benchmarks are assessed through the scoring rubric for Discourse items. However, all Discourse test items are mapped to Discourse Benchmarks (since all items are mapped to a single Benchmark). Thus, though the alignment mappings may appear to suggest otherwise, the Pronunciation and Grammar Benchmarks in Speaking are assessed.

** Grammar and Punctuation & Capitalization Writing Benchmarks are assessed through some of the scoring rubrics for Sentences and Paragraphs in Levels B - C. Thus, though the alignment mappings may appear to suggest otherwise in some cases, Grammar and Punctuation & Capitalization Benchmarks are assessed at all levels. (See CELLA Scoring Guide for Writing, Levels B and C.)

Appendix C: Scale Anchoring Proposal

Scale Anchoring Proposal

The CELLA project is designed to produce an assessment of English proficiency with four test levels, two forms per level in four skill areas (i.e., Reading, Writing, Listening and Speaking). Each skill area is assessed using a variety of multiple-choice and/or constructed-response items and three scales of measurement (i.e., Reading, Writing, and combined Listening/Speaking) will be created using item response theory. Moreover, the three scales of measurement will be linked vertically such that all four CELLA levels share a common scale.

Vertical scales can be used in longitudinal analysis of student and aggregate performance and allow for the possibility of functional level testing. However, scales of measurement are not readily interpretable in terms of what students can and cannot do. In order to provide such information, scale-anchoring procedures (Zwick, Senturk, Wang and Loomis, 2001; Beaton and Allen, 1992) take particular points on the vertical scale and attempt to provide this interpretive meaning. In particular, exemplar items that best reflect performance of groups of students that perform at different points on the vertical scale are identified using psychometric analyses. Content experts then synthesize these exemplar items into behavioral descriptions. This document describes how scale anchoring will be used to develop behavioral descriptions for the CELLA product.

Response Probability: In order to describe item/items reflecting what students at a particular point on a vertical scale can do, it is important to define first what the phrase "what students can do" means. To address this question, it is common to invoke the concept of "response probability" (RP). RP is defined as the probability of a group of students getting an item correct. It is also important to define the specific group of students used to calculate RP. In this study, we will identify 4 benchmarks for each vertical scale. Given that there are limited numbers of students participating in the field test, it is impossible to have enough students to score just at specific benchmarks. We introduce the 'benchmark interval' concept, which is a group of students' scores around specific benchmarks. The RP criterion is the percent correct that is required in order for the item/items to serve as exemplar items for students in a given score group. RP-65 and RP-74 have both been used by ETS for scale anchoring. Zwick, Senturk, Wang and Loomis (2001) showed that an RP greater than 70 is favored by a panel of science experts surveyed in the study. Although the Zwick (2001) study focused on item mapping for the 1996 National Assessment of Educational Progress (NAEP) science items, the panelists in the study were asked about the meaning of "what students can do" in a generic sense, and as a result the study provides some useful guidance for

scale anchoring. In the present study, we will use RP-74 for CELLA scale anchoring. This value is recommended by the Zwick (2001) study.

It is common practice to define different RP values for multiple-choice and constructed-response items because it is impossible for the respondents to guess the correct answer on the constructed-response items. To compensate for this, the most recent NAEP/ETS scale anchoring efforts have used a lower RP criterion for constructed-response items (RP $_{CR}$) than for the multiple-choice items (RP $_{MC}$). The relation between these two types of RP values, derived from the 3PL IRT model, was assumed to be as follows:

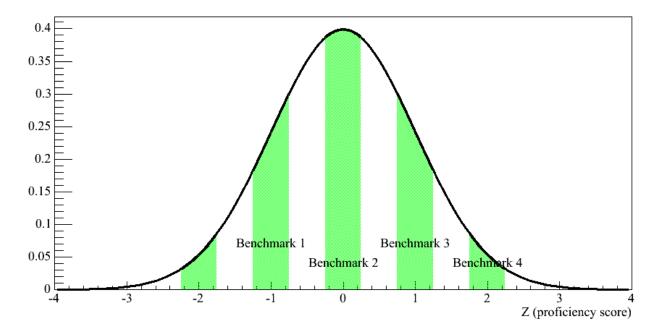
$$RP_{MC} = c + (1-c) RP_{CR}$$

Where the guessing parameter, c, was assumed to be .25. Following this precedent, we determined for the constructed-response items, a RP_{CR} value of .65, which will be used in this study. These RPs values are applied throughout the scale anchoring analyses described below.

Discrimination Criterion: In order to ensure that the exemplar items selected for a given benchmark exemplify only the given benchmark, not the benchmark below, a discrimination criterion is imposed. The discrimination criterion at a particular benchmark interval is defined as the difference between the item's value of p for that benchmark interval and its value of p for the next lowest benchmark interval. For example, if an item has a p of 0.7 at a benchmark (say benchmark 2) and a p of 0.5 at the next lower benchmark (say benchmark 1), its discrimination at benchmark 2 is 0.7-0.5 = 0.2. An item therefore would have the same number of discrimination values as the number of benchmarks. In this study, we will use 0.25 as the discrimination criterion for selecting exemplar items.

Method: Assuming the mean student proficiency for a CELLA scale is X and the standard deviation is Y, exemplar items will be selected for benchmark scores demarcated by the mean and standard deviation. That is, exemplar items will be identified for the following benchmark X–Y, X, X+Y and X+2Y on the vertical scale. The same benchmarks will be selected for Writing, Reading and Listening/Speaking scales. In order to obtain sufficient number of students for each benchmark, the benchmark intervals are defined as ¼ of a standard deviation above and below the benchmarks. The benchmark score intervals are defined as: (X–Y)±1/4Y, X±1/4Y, (X+Y)±1/4Y and (X+2Y)±1/4Y. The green highlighted area in Figure 1 demonstrates the four benchmark intervals in proficiency z-score scale. Notice that there is an extra highlighted area below benchmark level 1. This extra interval (below benchmark interval 1) is used to calculate the discriminations for items in benchmark interval 1. Note that alternative score intervals or benchmarks will be considered if sufficient numbers of exemplar items cannot be produced by the field test data.

Figure 1. Benchmark Intervals



We expect to have approximately 1000 students completing each item in the CELLA field test. This is an adequate number of students to apply the empirical midpoint method described in the Zwick et al. (2001) study for scale anchoring. The empirical method does not employ any assumption on population proficiency distribution as was done in some of the early anchoring NAEP work. The ESL population tends to be transient in nature so assuming a normal proficiency distribution might be misleading in generating exemplar items.

The RP (probability of correct response) *p* for an item under the empirical midpoint method is defined as the proportion of correct item responses for all individuals whose proficiency score falls within the benchmark intervals as indicated in Figure 1. For each MC item in the CELLA field test, a *p* value can be calculated for each of the benchmark intervals. For constructed-response items, *p* is calculated for each score level of the item. Different score levels of a given constructed-response item can potentially be exemplar items for more than one benchmark.

Items with p value equal to or greater than the RP criterion (RP-74 for multiple-choice items and RP-65 for constructed-response items) and discrimination > 0.25 will be selected as exemplar items for the given benchmark interval. Note that items being selected at a lower benchmark will not be eligible for other benchmarks. For example, if an item has a p value of 0.83 at benchmark 2 and a p value of 0.90 at benchmark 3, this item is eligible to be an exemplar item at benchmark 2 only. By definition, the

behavioral descriptions are hierarchical and students at benchmark 3 are likely to be able to answer items at benchmark 2 and 1.

After identification of the exemplar items for each benchmark, content experts will generate behavioral descriptions that characterize proficiency at the different benchmarks. These descriptions can be used to better inform stakeholders about what CELLA scores mean. Depending on how the field test data behave, we could explore alternative methods for the CELLA scale descriptors that describe what the CELLA vertical scale score means for narrower benchmark intervals instead of the broader intervals as proposed in this document.

Caveats: The scale anchoring procedures use arbitrary benchmarks to define benchmark intervals that are used in identification of exemplar items. These benchmarks used in scale anchoring do not carry the same meaning as they would if obtained in a formal standard setting, where panelists work from performance level descriptions ("A proficient student should be able to") to define what proficiency means in terms of student performance on the assessment. CELLA is an assessment that is intended for use in many states, and states can be different in their interpretation of the meaning of proficiency. This scale anchoring procedure adds behavioral meaning to the scale scores provided by CELLA and is not intended to replace states' individual formal standard settings, which will define student expectations in each state.

References

Beaton, A. E. & Allen, N. L. (1992) Interpreting scales through scale anchoring. Journal of Educational Statistics, 17, 191–204.

Zwick, R., Senturk, D., Wang, J. & Loomis, S. (2001). An Investigation of Alternative Methods for Item Mapping in the National Assessment of Educational Progress.

Educational Measurement: Issues and Practice, 20(2), 18-25.

Appendix D: Directions for Using the Locator Test

Directions for Using the Locator Test

There are several important things to keep in mind when considering functional level testing with the Locator Test:

- Functional level testing only applies to the Reading and Writing sections. It does not apply to the Listening and Speaking sections. Students should take the Listening and Speaking sections of the test level corresponding to their actual grade levels.
- The Locator Test should only be given to students in grades 3 and above. Students in kindergarten through grade 2 should take the Level A test book of CELLA that contains the following sections: Listening, Reading, Writing, and One-on-One.
- The Locator Test can only indicate that a student should take the CELLA Reading and Writing sections at a level below that corresponding to the student's grade level. Students should never take any section of CELLA at a level higher than that corresponding to their grade level.
- The Locator Test is not a placement test and should not be used to place students into ESL or bilingual education classes. Its only purpose is to provide information about what level of the CELLA Reading and Writing sections is most appropriate for a student.

Test Administration

The Locator Test must be given far enough in advance of the scheduled date for the administration of the Reading and Writing sections to allow time for the Locator Test to be scored and for the appropriate level of the Reading and Writing sections for each student to be determined.

Total administration time for the Locator Test is approximately 35 minutes. This includes 5 minutes for distribution and collection of materials, 5 minutes for explanation of directions, and 25 minutes for students to read the four passages on the Locator Test and answer the 18 questions about them.

Scoring and Interpreting Locator Test Scores

The purpose of the CELLA Locator Test is to provide general information about a student's reading level. This information should be used along with teacher judgment, classroom performance, and all other available relevant information in deciding which level of the CELLA Reading and Writing sections a student should take.

There are three steps to scoring and interpreting the CELLA Locator Test:

- Determining the raw score
- Determining the recommended test level
- Deciding on the appropriate test level for the Reading and Writing sections

Each of these steps is explained below.

Determining the Raw Score. The Locator Test is designed to be hand scored locally (i.e., scored by a teacher or test administrator). The student's raw score is simply the number of items on the Locator Test that were answered correctly.

Determining the Recommended Test Level. The table below is used to determine the recommended test level for the student based on the student's raw score.

Raw Score on	Recommended
Locator Test	Test Level
0–5	Level A
6–8	Level B
9–12	Level C
13–18	Level D

Deciding on the Appropriate Test Level for the Reading and Writing Sections. The CELLA Locator Test provides one piece of information about which level of the Reading and Writing sections is most appropriate for the student. Each student should take the level of the Reading and Writing sections that will provide the best information about the student's English language proficiency, that will challenge, but not frustrate the student, and that will provide appropriate baseline data from which the student's progress can be measured.

The recommended test level is an indication of which test level of the CELLA Reading and Writing sections may be most appropriate for the student. However, other factors should also be considered in determining the actual test level of the CELLA Reading and Writing sections. These include:

- Students should not take a test level higher than that corresponding to their grade. For example, a student in grade 3 (Level B) should not take a Level C or Level D test, regardless of the score on the Locator Test.
- Teacher judgment and student classroom performance should be strongly considered in assigning a test level.
- The table below lists possible test levels that may be appropriate in an individual situation:

Student's Grade*	Possible Test Levels for Reading and Writing
3-5 (Level B)	Levels B or A
6-8 (Level C)	Levels C, B, or A
9-12 (Level D)	Levels D, C, B, or A

*Grades K-2 are not included in this chart because all students in kindergarten through grade 2 should take the Level A test book that includes the following sections: Listening, Reading, Writing, and One-on-One.

Tests N in each modality by Home Language

Tested N	modalty			
HomeLang	Oral	Read	Write	Grand Total*
**	98	106	106	310
Arabic	633	635	641	1,909
Chaldean	61	61	61	183
Chinese	407	408	415	1,230
French	200	201	207	608
Haitian Creole	434	448	450	1,332
Korean	350	348	360	1,058
NA	62	59	65	186
Other	2,522	2,552	2,585	7,659
Russian	116	118	120	354
Spanish	9,656	9,860	10,282	29,798
Urdu	145	145	148	438
Vietnamese	346	358	363	1,067
(blank)	61	66	66	193
Grand Total	15,091	15,365	15,869	46,325

Tested %	modalty			
				Grand
HomeLang	Oral	Read	Write	Total
**	0.6	0.7	0.7	0.7
Arabic	4.2	4.1	4.0	4.1
Chaldean	0.4	0.4	0.4	0.4
Chinese	2.7	2.7	2.6	2.7
French	1.3	1.3	1.3	1.3
Haitian Creole	2.9	2.9	2.8	2.9
Korean	2.3	2.3	2.3	2.3
NA	0.4	0.4	0.4	0.4
Other	16.7	16.6	16.3	16.5
Russian	0.8	0.8	0.8	0.8
Spanish	64.0	64.2	64.8	64.3
Urdu	1.0	0.9	0.9	0.9
Vietnamese	2.3	2.3	2.3	2.3
(blank)	0.4	0.4	0.4	0.4
Grand Total	100	100	100	100

^{*} Total = # of tests, not # of students