TOEFL TEST OF WRITTEN ENGLISH GUIDE

Overview of the TWE Test

The Test of Written English (TWE) is the essay component of the Test of English as a Foreign Language (TOEFL), the multiple-choice test used by more than 2,400 institutions to evaluate the English proficiency of applicants whose native language is not English. As a direct, productive skills test, the TWE® test is intended to complement TOEFL Section 2 (Structure and Written Expression). The TWE test is holistically scored, using a criterion-referenced scale to provide information about an examinee's ability to generate and organize ideas on paper, to support those ideas with evidence or examples, and to use the conventions of standard written English.

Introduced in July 1986, the TWE test is currently (1996) offered as a required component of the TOEFL test at five administrations a year — in February, May, August, October, and December. There is no additional fee for the TWE test.

The TOEFL Test

First administered in 1963-64, the TOEFL test is primarily intended to evaluate the English proficiency of nonnative speakers who wish to study in colleges or universities in English-speaking countries. Section 1 (Listening Comprehension) measures the ability to recognize and understand English as it is spoken in North America. Section 2 (Structure and Written Expression) measures the ability to recognize selected structural and grammatical points in English. Section 3 (Reading Comprehension) measures the ability to read and understand short passages similar in topic and style to those that students are likely to encounter in North American universities and colleges.

During the 1994-95 testing year, more than 845,000 persons in more than 180 countries and regions registered to take the TOEFL test.

TWE Developmental Research

Early TOEFL research studies (Pike, 1976; Pitcher & Ra, 1967) showed that performance on the TOEFL Structure and Written Expression section correlated positively with scores on direct measures of writing ability. However, some TOEFL score users expressed concern about the validity of Section 2

as a measure of a nonnative speaker's ability to write for academic purposes in English. The perception among many graduate faculty was that there might be little actual relationship between the *recognition* of correct written expression, as measured by Section 2, and the *production* of an organized essay or report (Angelis, 1982).

In surveys conducted in a number of studies (Angelis, 1982; Hale and Hinofotis, 1981; Kane, 1983) college and university administrators and faculty, as well as English as a second language (ESL) teachers, requested the development of an essay test to assess directly the academic writing skills of foreign students.

As an initial step in exploring the development of an essay component for the TOEFL test, Bridgeman and Carlson (1983) surveyed faculty in undergraduate and graduate departments with large numbers of foreign students at 34 major universities. The purpose of their study was to identify the types of academic writing tasks and skills required of college and university students.

Following the identification of appropriate writing tasks and skills, a validation study investigating the relationship of TOEFL scores to writing performance was conducted (Carlson, Bridgeman, Camp, and Waanders, 1985). It was found that, while scores on varied writing samples and TOEFL scores were moderately related, the writing samples and the TOEFL test reliably measured some aspect of English language proficiency not assessed by the other. The researchers also found that holistic scores, discourse-level scores, and sentence-level scores of the writing samples were all closely related. Finally, the researchers reported that correlations of scores were as high across writing topic types as within the topic types, suggesting that the different topic types used in the study comparably assessed overall competency in academic composition.

These research studies provided the foundation for the development of the Test of Written English. Early TWE topics were based on the types of writing tasks identified in the Bridgeman and Carlson (1983) study. Based on the findings of the validation study, a single holistic score is reported for the TWE test. This score is derived from a criterion-referenced scoring guide that encompasses relevant aspects of communicative competence.

TWE ITEM DEVELOPMENT

The TWE Committee

Tests developed by Educational Testing Service must meet requirements for fair and accurate testing, as outlined in the *ETS Standards for Quality and Fairness* (Educational Testing Service, 1987). These standards advise a testing program to:

Obtain substantive contributions to the test development process from qualified persons who are not on the ETS staff and who represent valid perspectives, professional specialties, population subgroups, and institutions.

Have subject matter and test development specialists who are familiar with the specifications and purpose of the test and with its intended population review the items for accuracy, content appropriateness, suitability of language, difficulty, and the adequacy with which the domain is sampled. (pp. 10-11)

In accordance with these ETS standards, in July 1985 the TOEFL program established the TWE Core Reader Group, now known as the TWE Committee. The committee is a consultant group of college and university faculty and administrators who are experienced with the intended test population, current writing assessment theory and practice, pedagogy, and large-scale essay testing management. The committee develops the TWE essay questions, evaluates their pretest performance using the TWE scoring criteria, and approves the items for administration. Members also participate in TWE essay readings throughout the year.

TWE Committee members are rotated on a regular basis to ensure the continued introduction of new ideas and perspectives related to the assessment of English writing. Appendix A lists current and former committee members.

Test Specifications

Test specifications outline what a test purports to measure and how it measures the identified skills. The purpose of TWE is to give examinees whose native language is not English an opportunity to demonstrate their ability to express ideas in acceptable written English in response to an assigned topic. Topics are designed to be fair, accessible, and appropriate to all members of the international TOEFL population. Each essay is judged according to lexical and syntactic standards of English and the effectiveness with which the examinee, organizes, develops, and expresses ideas in writing. A criterion-referenced scoring guide ensures that a level of consistency in scoring is maintained from one administration to another.

Development of the TWE Scoring Guide

The TWE Scoring Guide (see Appendix B) was developed to provide concise descriptions of the general characteristics of essays at each of six points on the criterion-referenced scale. The scoring guide also serves to maintain consistent scoring standards and high interrater reliability within and across administrations. As an initial step in developing these guidelines, a specialist in applied linguistics examined 200 essays from the Carlson et al. (1985) study — analyzing the rhetorical, syntactic, and communicative characteristics at each of the six points — and wrote brief descriptions of the strengths and weaknesses of the group of essays at each level. This analysis, the TWE Committee's analysis of pretest essays, and elements of scoring guides used by other large-scale essay reading programs at ETS and elsewhere were used to develop the TWE Scoring Guide.

The guide was validated on the aforementioned research essays and on pretest essays before being used to score the first TWE essays in July 1986. To maintain consistency in the interpretation and application of the guide, before each TWE essay reading TWE essay reading managers review a sample of essays that are anchored to the original essays from the first TWE administration. This review helps to ensure that a given score will consistently represent the same proficiency level across test administrations.

In September 1989 the TWE Scoring Guide was revised by a committee of TWE essay reading managers who were asked to refine it while maintaining the comparability of scores assigned at previous TWE essay readings. The revisions were based on feedback from TWE essay readers, essay reading managers, and the TWE Committee.

The primary purpose of the revision was to make the guide a more easily internalized tool for scoring TWE essays during a reading. After completing the revisions, the committee of essay reading managers rescored essays from the first TWE administration to see that no shift in scoring occurred.

The revised scoring guide was reviewed, used to score pretest essays, and approved by the TWE Committee in February 1990. It was introduced at the March 1990 TWE reading.

TWE Essay Questions

The TWE test requires examinees to produce an essay in response to a brief question or topic. The writing tasks presented in TWE topics have been identified by research as typical of those required for college and university course work. The topics and tasks are designed to give examinees the opportunity to develop and organize ideas and to express those ideas in lexically and syntactically appropriate English. Because TWE aims to measure composition skills rather than reading comprehension skills, topics are brief, simply worded, and not based on reading passages. Samples of TWE essay questions used in past administrations are included in Appendix D.

TWE questions are developed in two stages. The TWE Committee writes, reviews, revises, and approves essay topics for pretesting. In developing topics for pretesting, the committee considers the following criteria:

- the topic (prompt) should be accessible to TOEFL examinees from a variety of linguistic, cultural, and educational backgrounds
- the task to be performed by examinees should be explicitly stated
- the wording of the prompt should be clear and unambiguous
- the prompt should allow examinees to plan, organize, and write their essays in 30 minutes

Once approved for pretesting, each TWE question is further reviewed by ETS test developers and sensitivity reviewers to ensure that it is not biased, inflammatory, or misleading, and that it does not unfairly advantage or disadvantage any subgroup within the TOEFL population.

As more is learned about the processes and domains of academic writing, TWE test developers and researchers will explore the use of different kinds of writing topics and tasks in the TWE test.

TWE Pretesting Procedures

Each potential TWE item or prompt is pretested with international students (both undergraduate and graduate) studying in the United States and Canada who represent a variety of native languages and English proficiency levels. Pretesting is conducted primarily in English language institutes and university composition courses for nonnative speakers of English.

Each pretest item is sent to a number of institutions in order to obtain a diverse sample of examinees and essays. The pretest sites are chosen on the basis of geographic location, type of institution, foreign student population, and English language proficiency levels of the students at the site. The goal is to obtain a population similar to the TOEFL/TWE test population.

During a pretest administration, writers have 30 minutes to plan and write an essay under standardized testing procedures similar to those used in operational TWE administrations. The essays received for each item are then prepared for the TWE Committee to evaluate. When evaluating pretest essays, the committee is given detailed information on the examinees (native language, undergraduate/ graduate status, language proficiency test scores, if known) as well as feedback received on each essay question from pretest supervisors and examinees.

After a representative sample of pretest essays has been obtained, the sample is reviewed by the TWE Committee to evaluate the effectiveness of each prompt. An effective prompt is one that is easily understood by examinees at a range of language proficiencies and that elicits essays that can be validly and consistently scored according to the TWE scoring guide. The committee is also concerned that the prompt engage the writers, and that the responses elicited by the prompt be varied and interesting enough to engage readers. If the committee approves a prompt after reading the sample of pretest essays, it may be used in an operational TOEFL/TWE test administration.

TWE ESSAY READINGS

Reader Qualifications

Readers for the TWE test are primarily English and ESL writing specialists affiliated with accredited colleges, universities, and secondary schools in the United States and Canada. In order to be invited to serve as a reader, an individual must have read successfully for at least one other ETS program or qualify at a TWE reader training session.

TWE reader training sessions are conducted as needed. During these sessions, potential readers receive intensive training in holistic scoring procedures using the TWE Scoring Guide and TWE essays. At the conclusion of the training, participants independently rate 50 TWE essays that were scored at an operational reading. To qualify as a TWE rater, participants must demonstrate their ability to evaluate TWE essays reliably and accurately using the TWE Scoring Guide.

Scoring Procedures

All TWE essay readings are conducted in a central location under standardized procedures to ensure the accuracy and reliability of the essay scores.

TWE essay reading managers are English or ESL faculty who represent the most capable and experienced readers. In preparation for a TWE scoring session, the essay reading managers prepare packets of sample essays illustrating the six points on the scoring guide. Readers score and discuss these sets of sample essays with the essay reading managers prior to and throughout the reading to maintain scoring accuracy. Small groups of readers work under the direct supervision of reading managers, who monitor the performance of each scorer throughout the reading. Each batch of essays is scrambled between the first and second readings to ensure that readers are not unduly influenced by the sequence of essays.

Each essay is scored by two readers working independently. The score assigned to an essay is derived by averaging the two independent ratings or, in the case of a discrepancy of more than one point, by the adjudication of the score by a reading manager. For example, if the first reader assigns a score of 5 to an essay and the second reader also assigns it a score of 5, 5 is the score reported for that essay. If the first reader assigns a score of 4, the two scores are averaged and a score of 5 to an essay and the second reader assigns a score of 5 to an essay and the second reader assigns a score of 5 to an essay and the second reader assigns a score of 4.5 is reported. However, if the first reader assigns a score of 5 to an essay and the second reader assigns a score score streader assigns it a 3, the scores are considered discrepant. In this case, a reading manager scores the essay to adjudicate the score.

Using the scenario above of first and second reader scores of 3 and 5, if the reading manager assigns a score of 4, the three scores are averaged and a score of 4 is reported. However, if the reading manager assigns a score of 5, the discrepant score of 3 is discarded and a score of 5 is reported. To date, more than 2,500,000 TWE essays have been scored, resulting in some 5,000,000 readings. Discrepancy rates for the TWE readings have been extremely low, usually ranging from 1 to 2 percent per reading.

TWE SCORES

Six levels of writing proficiency are reported for the TWE test. TWE scores range from 6 to 1 (see Appendix B). A score between two points on the scale (5.5, 4.5, 3.5, 2.5, 1.5) can also be reported (see "Scoring Procedures" above). The following codes and explanations may also appear on TWE score reports:

- 1NR Examinee did not write an essay.
- OFF Examinee did not write on the assigned topic.
- * TWE not offered on this test date.
- ** TWE score not available.

Because language proficiency can change considerably in a relatively short period, the TOEFL office will not report TWE scores that are more than two years old. Therefore, individually identifiable TWE scores are retained in a database for only two years from the date of the test. After two years, information that could be used to identify an individual is removed from the database. Information such as score data and essays that may be used for research or statistical purposes may be retained indefinitely; however, this information does not include any individual examinee identification. TWE scores and all information that could identify an examinee are strictly confidential. An examinee's official TWE score report will be sent only to those institutions or agencies designated by the examinee on the answer sheet on the day of the test, or on a Score Report Request Form submitted by the examinee at a later date, or by other written authorization from the examinee.

Examinees receive their test results on a form titled **Examinee's Score Record**. These are not official TOEFL score reports and should not be accepted by institutions. If an

examinee submits a TWE score to an institution or agency and there is a discrepancy between that score and the official TWE score recorded at ETS, ETS will report the official score to the institution or agency. Examinees are advised of this policy in the *Bulletin of Information for TOEFL, TWE, and TSE*.

A TWE rescoring service is available to examinees who would like to have their essays rescored. Further information on this rescoring process can also be found in the *Bulletin of Information for TOEFL*, *TWE*, *and TSE*.

GUIDELINES FOR USING TWE TEST SCORES

An institution that uses TWE scores should consider certain factors in evaluating an individual's performance on the test and in determining appropriate TWE score requirements. The following guidelines are presented to assist institutions in arriving at reasonable decisions.

- 1. Use the TWE score as an indication of English writing proficiency only and in conjunction with other indicators of language proficiency, such as TOEFL section and total scores. Do not use the TWE score to predict academic performance.
- 2. Base the evaluation of an applicant's readiness to begin academic work on all available relevant information and recognize that the TWE score is only one indicator of academic readiness. The TWE test provides information about an applicant's ability to compose academic English. Like TOEFL, TWE is **not** designed to provide information about scholastic aptitude, motivation, language learning aptitude, field specific knowledge, or cultural adaptability.
- 3. Consider the kinds and levels of English writing proficiency required at different levels of study in different academic disciplines. Also consider the resources available at the institution for improving the English writing proficiency of students for whom English is not the native language.

- **4.** Consider that examinee scores are based on a single 30minute essay that represents a first-draft writing sample.
- **5.** Use the TWE Scoring Guide and writing samples illustrating the guide as a basis for score interpretation (see Appendix B and E). Score users should bear in mind that a TWE score level represents a range of proficiency and is not a fixed point.
- 6. Avoid decisions based on small score differences. Small score differences (i.e., differences less than approximately two times the standard error of measurement) should not be used to make distinctions among examinees. Based upon the average standard error of measurement for the past 10 TWE administrations, distinctions among individual examinees should not be made unless their TWE scores are **at least** one point apart.
- **7.** Conduct a local validity study to assure that the TWE scores required by the institution are appropriate.

As part of its general responsibility for the tests it produces, the TOEFL program is concerned about the interpretation and use of TWE test scores by recipient institutions. The TOEFL office encourages individual institutions to request its assistance with any questions related to the proper use of TWE scores.

STATISTICAL CHARACTERISTICS OF THE TWE TEST

Reliability

The reliability of a test is the extent to which it yields consistent results. A test is considered reliable if it yields similar scores across different forms of the test, different administrations, and, in the case of subjectively scored measures, different raters.

There are several ways to estimate the reliability of a test, each focusing on a different source of measurement error. The reliability of the TWE test has been evaluated by examining interrater reliability, that is, the extent to which readers agree on the ratings assigned to each essay. To date, it has not been feasible to assess alternate-form and test-retest reliability, which focus on variations in test scores that result from changes in the individual or changes in test content from one testing situation to another. To do so, it would be necessary to give a relatively large random sample of examinees two different forms of the test (alternate-form reliability) or the same test on two different occasions (testretest reliability). However, the test development procedures that are employed to ensure TWE content validity (discussed later in this section) would be expected to contribute to alternate-form reliability.

Two measures of interrater reliability are reported for the TWE test. The first measure reported is the Pearson productmoment correlation between first and second readers, which reflects the overall agreement (across all examinees and all raters) of the pairs of readers who scored each essay. The second measure reported is coefficient alpha, which provides an estimate of the internal consistency of the final scores based upon two readers per essay. Because each reported TWE score is the average of two separate ratings, the reported TWE scores are more reliable than the individual ratings. Therefore, coefficient alpha is generally higher than the simple correlation between readers, except in those cases where the correlation is equal to 0 or 1. (If there were perfect agreement on each essay across all raters, coefficient alpha would equal 1.0; if there were no relationship between the scores given by different raters, coefficient alpha would be 0.0.)

Table 1 contains summary statistics and interrater reliability statistics for the 10 TWE administrations from August 1993 through May 1995. The interrater correlations and coefficients alpha indicate that reader reliability is acceptably high, with correlations between first and second readers ranging from .77 to .81, and the values for coefficient alpha ranging from .87 to .89.

Table 1 also shows the reader discrepancy rate for each of the 10 TWE administrations. This value is simply the proportion of essays for which the scores of the two readers differed by two or more points. These discrepancy rates are quite low, ranging from 0.2 percent to 1.1 percent. (Because all essays with ratings that differed by two or more points were given a third reading, the discrepancy rates also reflect the proportions of essays that received a third reading.)

					Correlation	Correlation		N ²
Admin. Date	N	TWE Mean	TWE S.D.	Discrepancy Rate ¹	1st & 2nd Readers	Alpha	Indiv. Scores	Score Diffs.
Aug. 1993	56,240	3.66	0.84	.011	.780	.876	.30	.42
Sept. 1993	27,951	3.69	0.78	.004	.788	.881	.27	.38
Oct. 1993	87,616	3.68	0.85	.010	.782	.877	.30	.42
Feb. 1994	48,694	3.65	0.89	.010	.799	.888	.30	.42
May 1994	74,972	3.73	0.83	.010	.767	.868	.30	.43
Aug. 1994	56,553	3.66	0.80	.007	.770	.870	.29	.41
Sept. 1994	28,282	3.71	0.78	.002	.807	.893	.26	.36
Oct. 1994	89,656	3.72	0.84	.009	.783	.878	.29	.41
Feb. 1995	54,783	3.65	0.84	.010	.777	.874	.30	.42
May 1995	82,136	3.65	0.84	.009	.777	.875	.30	.42

Table 1 Reader Reliabilities (Based on scores assigned to 606.883 essays in the 10 TWE administrations from August 1993 through May 1995)

¹ Proportion of papers in which the two readers differed by two or more points. (When readers differed by two or more points, the essay was adjudicated by a third reader.) ² Standard errors of measurement listed here are based upon the extent of interrater agreement and do not take into account other sources of error, such as differences between test forms. Therefore, these values probably underestimate the actual error of measurement.

Standard Error of Measurement

Any test score is only an estimate of an examinee's knowledge or ability, and an examinee's test score might have been somewhat different if the examinee had taken a different version of the test, or if the test had been scored by a different group of readers. If it were possible to have someone take all the editions of the test that could ever be made, and have those tests scored by every reader who could ever score the test, the average score over all those test forms and readers presumably would be a completely accurate measure of the examinee's knowledge or ability. This hypothetical score is often referred to as the "true score." Any difference between this true score and the score that is actually obtained on a given test is considered to be measurement error.

Because an examinee's hypothetical true score on a test is obviously unknown, it is impossible to know exactly how large the measurement error is for any individual examinee. However, it is possible statistically to estimate the average measurement error for a large group of examinees, based upon the test's standard deviation and reliability. This statistic is called the Standard Error of Measurement (SEM).

The last two columns in Table 1 show the standard errors of measurement for individual scores and for score differences on the TWE test. The standard errors of measurement that are reported here are estimates of the average differences between obtained scores and the theoretical true scores that would have been obtained if each examinee's performance *on a single test form* had been scored by all possible readers. For the 10 test administrations shown in the table, the average standard error of measurement was approximately .29 for individual scores and .41 for score differences.

The standard error of measurement can be helpful in the interpretation of test scores. Approximately 95 percent of all examinees are expected to obtain scores within 1.96 standard errors of measurement from their true scores and approximately 90 percent are expected to obtain scores within 1.64 standard errors of measurement. For example, in the May 1995 administration (with SEM = .30), less than 10 percent of examinees with true scores of 3.0 would be expected to obtain TWE scores lower than 2.5 or higher than 3.5; of those examinees with true scores of 4.0, less than 10 percent would be expected to obtain TWE scores lower than 3.5 or higher than 4.5.

When the scores of two examinees are compared, the difference between the scores will be affected by errors of measurement in each of the scores. Thus, the standard errors of measurement for score differences are larger than the corresponding standard errors of measurement for individual scores (about 1.4 times as large). In approximately 95 percent of all cases, the difference between obtained scores is expected to be within 1.96 standard errors above or below the difference

between the examinees' true scores; in approximately 80 percent of all cases, the difference between obtained scores is expected to be within 1.28 standard errors above or below the true difference. This information allows the test user to evaluate the probability that individuals with different obtained TWE scores actually differ in their true scores. For example, among all pairs of examinees with the same true scores (i.e., with true-score differences of zero) in the May 1995 administration, more than 20 percent would be expected to obtain TWE scores that differ from one another by one-half point or more; however, fewer than 5 percent (in fact, only about 1.7 percent) would be expected to obtain TWE scores more than one point apart.

Validity

Beyond being reliable, a test should be valid; that is, it should actually measure what it is intended to measure. It is generally recognized that validity refers to the usefulness of inferences made from a test score. The process of validation is necessarily an ongoing one, especially in the area of written composition, where theorists and researchers are still in the process of defining the construct.

To support the inferences made from test scores, validation should include several types of evidence. The nature of that evidence should depend upon the uses to be made of the test. The TWE test is used to make inferences about an examinee's ability to compose academically appropriate written English.

Two types of validity evidence are available for the TWE test: (1) construct-related evidence and (2) content-related evidence. Construct-related evidence refers to the extent to which the test actually measures the particular construct of interest, in this case, English-language writing ability. Content-related evidence refers to the extent to which the test provides an adequate and representative sample of the particular content domain that the test is designed to measure.

Construct-related Evidence. One source of constructrelated evidence for the validity of the TWE test is the relationship between TWE scores and TOEFL scaled scores. Research suggests that skills such as those intended to be measured by both the TOEFL and TWE tests are part of a more general construct of English language proficiency (Oller, 1979). Therefore, in general, examinees who demonstrate high ability on TOEFL would not be expected to perform poorly on TWE, and examinees who perform poorly on TOEFL would not be expected to perform well on TWE.

This expectation is supported by the data collected over several TWE administrations. Table 2 displays the frequency distributions of TWE scores for five different TOEFL score ranges over 10 administrations. For more material and information, please visit Tai Lieu Du Hoc at www.tailieuduhoc.org

	Table 2
	Frequency Distribution of TWE Scores for TOEFL Total Scaled Scores
1	(Based on 607,350 examinees who took the TWE test from August 1993 through May 1995)

	TOEFL	Scores	TOEF Betw an	L Scores een 477 id 523	TOEFL Scores Between 527 and 573		TOEFL Scores Between 577 and 623		TOEFL Scores Above 623	
TWE Score	N	Percent	N	Percent	N	Percent	N	Percent	N	Percent
6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0	5 27 564 1,634 20,429 18,910 49,948 17,161 15,771 2,979 2,857	0.0+ 0.02 0.43 1.25 15.68 14.51 38.34 13.17 12.11 2.29 2.19	55 205 2,949 6,695 50,451 29,066 47,702 9,203 5,182 518 372	0.04 0.13 1.94 4.39 33.10 19.07 31.30 6.04 3.40 0.34 0.24	402 1,224 10,962 16,877 75,860 28,956 31,838 4,096 1,785 165 118	0.23 0.71 6.36 9.80 44.03 16.81 18.48 2.38 1.04 0.10 0.07	1,703 3,612 19,415 18,783 47,286 10,951 7,804 685 228 23 30	1.54 3.27 17.57 17.00 42.79 9.91 7.06 0.62 0.21 0.02 0.03	4,338 5,190 13,276 7,275 9,594 1,383 721 57 27 2 2 1	10.36 12.40 31.71 17.38 22.92 3.30 1.72 0.14 0.06 0.0+ 0.0+

As the data in Table 2 indicate, across the 10 TWE administrations from August 1993 through May 1995 it was rare for examinees to obtain either very high scores on the TOEFL test and low scores on the TWE test or very low scores on TOEFL and high scores on TWE. It should be pointed out, however, that *the data in Table 2 do not suggest that TOEFL scores should be used as predictors of TWE scores*.

Although there are theoretical grounds for expecting a positive relationship between TOEFL and TWE scores, there would be no point in administering the TWE test to examinees if it did not measure an aspect of English language proficiency distinct from what is already measured by TOEFL. Thus, the correlations between TWE scores and TOEFL scaled scores should be high enough to suggest that TWE is measuring the appropriate construct, but low enough to support the conclusion that the test also measures abilities that are distinct from those measured by TOEFL. The extent to which TWE scores are independent of TOEFL scores is an indication of the extent to which the TWE test measures a distinct skill or skills.

Table 3 presents the correlations of TWE scores with TOEFL scaled scores for examinees within each of the three geographic regions in which TWE was administered at the 10 administrations. The correlations between the TOEFL total scores and TWE scores range from .57 to .68, suggesting that the productive writing abilities assessed by TWE are somewhat distinct from the proficiency skills measured by the multiple-choice items of the TOEFL test.

For more material and information, please visit Tai Lieu Du Hoc at www.tailieuduhoc.org

Table 3 Correlations between TOEFL and TWE Scores¹ (Based on 606,883 examinees who took the TWE test from August 1993 through May 1995)

					TOEFL	
	Geographic		Total	Section 1	Section 2	Section 3
Admin. Date	Region ²	N	r	r	r	r
Aug. 1993 ³	Region 1	27,807	.64	.66	.58	.57
7 kug. 1000	Region 2	12.072	.68	.66	.65	.62
	Region 3	16,361	.62	.60	.60	.57
Sopt 10023	Pogion 1	6 662	65	66	63	52
0ept. 1995	Region 2	10.961	.05	.00	.05	.55
	Region 2	10,901	.04	.02	.02	.59
	Region 3	10,328	.59	.00	06.	.03
Oct. 1993 ³	Region 1	41,638	.66	.65	.62	.62
	Region 2	16,288	.67	.65	.66	.60
	Region 3	29,690	.64	.63	.63	.58
Feb 1994	Region 1	16 555	65	65	59	60
105.1004	Region 2	11 305	60	54	60	56
	Region 3	20.834	61	59	58	56
	Region 5	20,054	.01	.55	.50	.50
May 1994	Region 1	35,290	.60	.62	.55	.54
	Region 2	14,239	.59	.53	.59	.51
	Region 3	25,443	.64	.61	.62	.57
Aug. 1994	Region 1	36,137	.63	.64	.59	.54
, ag. 1001	Region 2	4 010	64	56	66	60
	Region 3	16,406	.62	.58	.60	.54
		10,100	.02			
Sept. 1994	Region 1	14,436	.62	.64	.57	.55
	Region 2	3,623	.66	.62	.66	.61
	Region 3	10,223	.57	.55	.55	.51
Oct 1994	Region 1	48 628	68	68	63	62
	Region 2	10 289	58	52	58	54
	Region 3	30 739	62	58	59	58
		30,733	.02	.00	.00	.00
Feb. 1995	Region 1	22,102	.65	.64	.60	.59
	Region 2	11,562	.61	.52	.64	.56
	Region 3	21,119	.59	.55	.57	.54
May 1995	Region 1	43,450	.65	.65	.62	.59
	Region 2	13.825	.64	.57	.66	.56
	Region 3	24,861	.63	.58	.62	.56
		21,001				

¹Correlations have been corrected for unreliability of TOEFL scores.

² Geographic Region 1 includes Asia, the Pacific (including Australia), and Israel; Geographic Region 2 includes Africa, the Middle East, and Europe; Geographic Region 3 includes North America, South America, and Central America.

³ For these administrations, some examinees from test centers in Asia are included in Region 2 and/or Region 3.

Table 3 also shows the correlations of TWE scores with each of the three TOEFL section scores. Construct validity would be supported by higher correlations of TWE scores with TOEFL Section 2 (Structure and Written Expression) than with Section 1 (Listening Comprehension) or Section 3 (Reading Comprehension) scores. In fact, this pattern is generally found in TWE administrations for Regions 2 and 3. In Region 1, however, TWE scores correlated more highly with TOEFL Section 1 scores than with Section 2 scores in all 10 administrations. These correlations are consistent with those found by Way (1990), who noted that correlations between TWE scores and TOEFL Section 2 scores were generally lower for examinees from selected Asian language groups than for other examinees.

Content-related Evidence. As a test of the ability to compose in standard written English, TWE uses writing

tasks similar to those required of college and university students in North America. As noted earlier, the TWE Committee develops items/prompts to meet detailed specifications that encompass widely recognized components of written language facility. Thus, each TWE item is constructed by subject-matter experts to assess the various factors that are generally considered crucial components of written academic English. Each item is pretested, and results of each pretested item are evaluated by the TWE Committee to ensure that the item is performing as anticipated. Items that do not perform adequately in a pretest are not used for the TWE test.

Finally, the actual scoring of TWE essays is done by qualified readers who have experience teaching English writing to native and nonnative speakers of English. The TWE readers are guided in their ratings by the TWE Scoring Guide and the standardized training and scoring procedures used at each TWE essay reading.

Performance of TWE Reference Groups

Table 4 presents the overall frequency distribution of TWE scores based on the 10 administrations from August 1993 through May 1995.

Table 5 lists the mean TWE scores for examinees tested at the 10 administrations, classified by native language. Table 6 lists the mean TWE scores for examinees classified by native country. These tables may be useful in comparing the test performance of a particular student with the average performance of other examinees who are from the same country or who speak the same native language.

It is important to point out that the data do not permit any generalizations about differences in the English writing proficiency of the various national and language groups. The tables are based simply on the performance of those examinees who have taken the TWE test. Because different selective factors may operate in different parts of the world to determine who takes the test, the samples on which the tables are based are not necessarily representative of the student populations from which the samples came. In some countries, for example, virtually any high school, university, or graduate student who aspires to study in North America may take the test. In other countries, government regulations permit only graduate students in particular areas of specialization, depending on national interests, to do so.

	Table 4
	Frequency Distribution of TWE Scores for All Examinees
((Based on 607,350 examinees who took the TWE test from August 1993 through May 1995)

TWE Score	N	Percent	Percentile Rank
	0.500	4.07	00.47
6.0	6,503	1.07	99.47
5.5	10,258	1.69	98.09
5.0	47,166	7.77	93.36
4.5	51,264	8.44	85.25
4.0	203,620	33.53	64.28
3.5	89,266	14.70	40.16
3.0	138,013	22.72	21.45
2.5	31,202	5.14	7.52
2.0	22,993	3.79	3.06
1.5	3,687	0.61	0.87
1.0	3,378	0.56	0.28

Table 5

Ν

295

47 63 9,812

9,812 1,394 191 1,358 87 39 20

16

1,202 1,278 27

203 63

1,394 274

1,463

55 7,009

97 320 254

Mean

4.76

3.56 3.67 4.11 4.70

3.66 4.90 3.49 4.42 _

_

4.17 4.17

4.63 3.76

3.82 4.20 4.54 4.03

3.91 3.77

4.36 4.11

4.16

4.02 3.90

4.18 4.13 3.97

11

For more material and information, please visit Tai Lieu Du hoc at Wassified by Native Language¹ (Based on 594,536 examinees² who took the TWE test from August 1993 through May 1995)

Language	N Mean		Language		
Afrikaans Akan Amharic Arabic Armenian Assamese Azerbaijani	295 336 835 22,969 255 129 103	3.72 4.54 3.56 3.46 3.76 3.99 3.78	Luo Madurese Malagasy Malay Malayalam Malinke-Bambara-Dyula		
Bashkir Basque (Euskara) Belorussian Bemba Bengali Berber Bikol Bulgarian Burmese	3 52 59 46 5,594 61 39 1,444 593	4.08 3.90 4.34 4.11 3.43 4.04 4.20 3.67	Marathi Marshallese Mende Minankabau More Nepali Norwegian Nyanja		
Catalan (Provencal) Cebuano (Visayan) Chichewa Chinese Chuvash Czech	332 488 142 163,728 2 829	3.95 4.05 4.48 3.69 — 4.10	Oriya Oromo (Galla) Palauan Panay-Hilligaynon Pidgin Polish		
Danish Dutch	740 1,397	4.27 4.30	Ponapean Portuguese Puniabi		
Efik-Ibibio English Estonian Ewe	55 3,726 142 160	4.50 4.64 4.12 4.44	Romanian Ruanda		
Farsi (Persian) Fijjan Finnish French Fula (Peulh)	3,002 21 1,122 13,161 91	3.52 4.20 3.97 3.70	Samar-Leyte Samoan Santali Serbo-Croatian		
Ga Galician Ganda (Luganda) Georgian German Greek Guarani Gujarati	97 25 96 190 12,710 6,277 7 3,020	4.59 4.66 3.54 4.29 3.92 4.26	Setswana Shona Sindhi Sinhalese Siswati Slovak Somali Spanish		
Hausa Hebrew Hindi Hungarian (Magyar)	94 1,549 6,823 1,252	4.27 4.01 4.74 4.24	Swahili Swedish Tagalog		
Ibo (Igbo) Icelandic Ilocano Indonesian Italian	489 394 156 15,508 4,997	4.51 4.09 3.94 3.55 3.77	Tamii Tatar Telugu Thai Tibetan Tigrinya Tongan		
Japanese Javanese	120,746 796	3.36 3.44	Trukese Tulu Turkise		
Kannada (Kanarese) Kanuri	1,396 7	4.66	Turkmen Twi-Fante		
Kashmiri Kazakh Khalkha (Mongolian) Khmer (Kampuchean) Kikuyu Kirundi Korkani Korean Kurdish Kurukh (Oraon) Kusaiean	84 124 83 187 923 44 326 53,128 63 3 29	4.55 3.70 3.46 3.70 4.71 3.85 4.90 3.29 3.56 	Ukrainian Ulithian Urdu Vietnamese Wolof Xhosa Yapese		
Lao Latvian Lingala Lithuanian Luba-Lulua	151 119 83 288 27	3.69 3.96 3.69 3.95 —	Yiddish Yoruba Zulu		

4.56 4.52 4.84 4.37 4.25 4.58 4.01 3.79 3.87 3.59 4.41 406 406 1,023 57 413 187 30,657 102 749 2,507 4.11 3,201 4.27 3,201 5,108 12 6,386 30,074 64 187 15 137 82 8 052 4.63 4.36 3.20 4.29 3.72 3.47 4.82 8,953 3.88 9 178 4.60 776 3.91 4.21 7,902 2,852 3.70 315 3.59 43 4.74 16 8 703 4.65 80 4.82

Table 6 TWE Score Means — Nonnative English-Speaking Examinees Classified by Country¹ For more material and 597,526 examinees² who took the TWE test from August 1993 through May 1995)

Anghanistan 241 3.58 Gabon 37 37 37 Anghanistan 115 3.346 Georgia 1239 348 Andrana 11	Country*	N	Mean	Country*	N	Mean
rederated states of Micronesia2203.05Namibia24—Fiji564.39Nauru6—Finland1,1674.20Nepal1,1974.19Former Yugoslav Republic of110004.25	Afghanistan Albania Algeria American Samoa Andorra Angola Anguilla Antigua and Barbuda Argentina Armenia Aruba Australia Balamas Bahrain Barbados Belarus Belarus Bolivia Bosnia and Herzegovina Botswana Brazil British Virgin Islands Cameroon	$\begin{tabular}{ c c c c } \hline N \\ \hline 241 \\ 175 \\ 313 \\ 254 \\ 11 \\ 50 \\ 4 \\ 3 \\ 1,566 \\ 150 \\ 6 \\ 973 \\ 974 \\ 196 \\ 5 \\ 6 \\ 255 \\ 4,318 \\ 6 \\ 293 \\ 729 \\ 31 \\ 53 \\ 6 \\ 293 \\ 729 \\ 31 \\ 53 \\ 6 \\ 293 \\ 729 \\ 31 \\ 53 \\ 6 \\ 293 \\ 729 \\ 31 \\ 53 \\ 6 \\ 293 \\ 729 \\ 31 \\ 53 \\ 6 \\ 8 \\ 300 \\ 5,056 \\ 11 \\ 43 \\ 1,455 \\ 49 \\ 205 \\ 297 \\ 1,395 \\ 43 \\ 1,455 \\ 49 \\ 205 \\ 297 \\ 1,395 \\ 43 \\ 6 \\ 8 \\ 30 \\ 599 \\ 79,461 \\ 3,547 \\ 7 \\ 58 \\ 577 \\ 316 \\ 424 \\ 179 \\ 2,671 \\ 460 \\ 573 \\ 747 \\ 13 \\ 485 \\ 1062 \\ 2,981 \\ 429 \\ 94 \\ 7 \\ 599 \\ 79,461 \\ 3,547 \\ 7 \\ 58 \\ 577 \\ 316 \\ 424 \\ 179 \\ 2,671 \\ 460 \\ 573 \\ 747 \\ 13 \\ 485 \\ 1062 \\ 2,981 \\ 429 \\ 94 \\ 7 \\ 599 \\ 79,461 \\ 3,547 \\ 7 \\ 58 \\ 577 \\ 316 \\ 424 \\ 179 \\ 2,671 \\ 460 \\ 573 \\ 747 \\ 13 \\ 485 \\ 1062 \\ 2,981 \\ 429 \\ 94 \\ 7 \\ 596 \\ 1,014 \\ 200 \\ 500 \\ 1,014 \\ 200 \\ 500 \\ 1,014 \\ 200 \\ 500 \\ 1,014 \\ 200 \\ 1,014 \\ 200 \\ 1,014 \\ 200 \\ 1,014 \\ 200 \\ 1,014 \\ 200 \\ 1,014 \\ 200 \\ 1,014 \\ 200 \\ 1,014 \\ 200 \\ 1,014 \\ 1,014 \\ 200 \\ 1,014 \\ 1,014 \\ 200 \\ 1,014 \\ 1,0$	Mean 3.58 3.94 3.46 4.09 3.73 3.94 3.68 3.79 3.94 3.68 3.79 3.94 3.68 3.79 3.88 3.88 3.88 3.88 3.89 4.35 3.99 3.85 3.96 3.85 3.96 3.85 3.96 3.85 3.96 3.85 3.96 3.85 3.96 3.85 3.96 3.85 3.67 5.3 3.67 3.83 4.01 3.69 4.10 4.28 3.69 3.74 4.06 3.69 3.74 <	Country*Gabon Gambia Georgia Germany Ghana Greece Greenland (Kalaallit Nunaat) Guadaloupe Guada Guinea-Bissau Guinea-Bissau GuyanaHaiti Honduras Hong Kong HungaryIceland India Indonesia Iran Iraq Ireland Israel ItalyJamaica Japan JordanKazakhstan Kenya Kiribati Korea (DPR) Korea (ROK) Kuwait KyrgyzstanLaos Latvia Lebanon Lesotho Liberia Libya Liechtenstein Lithuania LuxembourgMacau Madagascar Madeira Islands Mariana Islands Marinique Marinique Mauritania Mauritius Marico Morocco Moigolia Morocco Mogolia Morocco Mozambique Myanmar	$\begin{tabular}{ c c c c c } \hline N \\ \hline & & & & & & & & & & & & & & & & & &$	Mean 3.97 4.06 3.58 4.29 4.63 3.97 3.79 4.01 3.79 4.01 3.79 4.01 3.79 4.01 3.77 3.55 3.97 4.10 4.61 3.55 3.51 3.64 3.97 3.66 3.69 3.71 3.36 3.61 3.77 3.36 3.52 3.81 4.71 3.30 3.66 3.69 3.93 3.61 3.72 3.62 3.61 3.72 3.62 3.63 3.93 3.61 3.93 3.97 4.01
Macedonia1173.92Netherlands Antilles524.13France9,9353.98New Caledonia673.75French Guiana4—New Zealand21—French Polynesia10—Nicaragua4583.81	Federated States of Micronesia Fiji Finland Former Yugoslav Republic of Macedonia France French Guiana French Polynesia	220 56 1,167 117 9,935 4 10	3.65 4.39 4.20 3.92 3.98 —	Myanmar Namibia Nauru Nepal Netherlands Netherlands Antilles New Caledonia New Zealand Nicaragua	611 24 6 1,197 993 52 67 21 458	3.67

¹ Because of the unreliability of statistics based on small samples, means are not reported for groups with fewer than 30 examinees.

²Excludes 6,098 examinees who did not specify country.

For more material and information, please visit Tai Lieu Du Hoc at www.tailieuduhoc.org Table 6 (continued)

Country*	N	Mean
Niger Nigeria Niue Island Northern Ireland Norway	45 1,591 4 5 1,292	3.72 4.57 4.17
Oman	456	3.56
Pakistan Panama Papua New Guinea Paraguay Peru Philippines Poland Portugal Puerto Rico	8,141 684 55 1,972 4,159 2,442 472 1,572	4.17 3.87 4.36 3.74 3.77 4.24 4.03 3.94 4.11
Qatar	252	3.28
Reunion Romania Russia Rwanda	24 1,525 4,697 69	4.17 3.93 4.09
San Marino Sao Tome and Principe Saudi Arabia Scotland Senegal Seychelles Sierra Leone Singapore Slovak Republic Slovenia Solomon Islands Somalia South Africa Spain Sri Lanka St. Lucia Sudan Suriname Swaziland Sweden Switzerland Syria	3 8 3,247 3 373 2 120 1,424 226 96 7 174 374 4,633 1,814 3 518 49 68 2,525 1,721 1,298	$\begin{array}{c}$
Tahiti Taiwan Tajikistan Tanzania Thailand Togo Tonga Trinidad and Tobago Tunisia Turkey Turkmenistan	26 47,839 32 382 30,210 92 19 6 321 8,576 13	3.47 3.81 4.21 3.20 3.77 3.53 3.88
USSR Uganda Ukraine United Arab Emirates United Kingdom United States of America Uruguay Uzbekistan	34 274 1925 1,221 21 1,009 144 257	3.71 4.67 3.90 3.35 4.13 4.11 3.50
venezuela Vietnam	2,744 2,979	3.82 3.71
Wales Western Samoa	4 6	
Yemen Yugoslavia	310 988	3.41 3.90
Zaire Zambia Zimbabwe	244 123 290	3.77 4.50 4.83

Table 7 TWE Score Means — Applicants to **Undergraduate and Graduate Programs** (Based on 518,671 examinees who took the TWE test

from August 1993 through May 1995)

	Ν	Mean
Undergraduate	217,644	3.69
Graduate	301,027	3.72

Table 7 shows the mean TWE scores and numbers of examinees who indicated that they were taking the TWE test for admission to undergraduate or graduate degree programs. As the table indicates, there was no substantial difference between the performance of self-identified undergraduate and graduate applicants. Zwick and Thayer (1995) found, however, that after matching undergraduate and graduate examinees on TOEFL total score, undergraduate TWE means were higher than graduate means in 63 of 66 data sets analyzed.

Of the 301,027 examinees who indicated that they were applying to graduate programs, 146,299 requested at the time of testing that their scores be sent to specific graduate departments in the United States and Canada. Table 8 shows the mean TWE scores for examinees who requested that their scores be sent to graduate departments in the United States and Canada, classified by major field of study. (Examinees who requested their scores be sent to programs in more than one major field were classified on the basis of the first department code they specified.) The mean TWE score for this subgroup of graduate applicants was 3.99, which is somewhat higher than the mean for the total group of graduate applicants in Table 7. Within this subgroup, there were notable differences among departments. On average, applicants in the humanities and social sciences scored higher than applicants in biological and physical sciences.

¹Because of the unreliability of statistics based on small samples,

means are not reported for groups with fewer than 30 examinees. ² Excludes 6,098 examinees who did not specify country.

Table 8 TWE Score Means — Graduate School Applicants Classified by Department* (Based on 146,299 examinees who took the TWE test from August 1993 through May 1995)

Mean

3.83

3.80

3.81

3.79

4.01

3.91

4.07

4.02

3.87

3.98

3.83

3.92

3.83

4.02

3.80

3.87

3.95

4.03

4.06

3.73

3.87

3.95

3.93

4.02

3.96

3.89

4.30

3.92

3.91

4.00

3.93

3.93

3.90

4.05

4.07

4.18

4.02

4.12 4.09

4.01

3.99

3.91

3.89

4.08

3.82

3.96

3.89

3.90

3.83

Department	N	Mean	Department	N
Humanities			Biological Sciences	
Archaeology	90	3.79	Agriculture	1,249
Architecture	1,464	3.98	Anatomy	149
Art History	184	3.95	Audiology	44
Classical Languages	46	4.27	Bacteriology	55
Comparative Literature	335	4.21	Biochemistry	2,042
Dramatic Arts	158	3.95	Biology	1,624
English	1,460	4.04	Biomedical Sciences	753
Far Eastern Languages and	192	3.93	Biophysics	204
Literature			Botany	300
Fine Arts, Art, Design	1,594	3.66	Dentistry	829
French	165	4.20	Entomology	148
German	115	4.36	Environmental Science	840
Linguistics	688	4.15	Forestry	387
Music	975	3.54	Genetics	447
Near Eastern Languages and	78	3.98	Home Economics	135
Literature			Hospital & Health Services	209
Philosophy	263	4.10	Administration	
Religious Studies or Religion	605	4.08	Medicine	2,141
Russian/Slavic Studies	100	4.02	Microbiology	1,051
Spanish	178	4.16	Molecular and Cellular Biology	1,184
Speech	38	3.96	Nursing	1,085
Other Foreign Languages	118	3.78	Nutrition	653
Other Humanities	324	3.99	Occupational Therapy	89
			Pathology	356
Social Sciences			Pharmacy	1,657
American Studies	147	4.09	Physical Therapy	344
Anthropology	313	4.04	Physiology	416
Business and Commerce	9,988	3.95	Speech-Language Pathology	83
Communications	1,364	4.00	Veterinary Medicine	309
Economics	4,273	4.03	Zoology	185
Education (including M.A. in	2,383	4.03	Other Biological Sciences	771
Teaching)			Diversional Option on a	
Educational Administration	449	3.92	Physical Sciences	507
Geography	400	3.97	Applied Mathematics	527
Government	824	4.21	Astronomy	140
History	410	4.05	Cnemistry	5,573
Industrial Relations and Personnel	147	3.97	Computer Sciences	10,824
International Relations	1,304	4.13	Engineering, Aeronautical	764
Journalism	607	4.08	Engineering, Chemical	3,138
Library Science	414	4.97	Engineering, Civil	4,244
Physical Education	304	3.59	Engineering, Electrical	10,287
Planning (City, Community,	359	4.04	Engineering, Industrial	1,825
Urban, Regional)			Engineering, Mechanical	6,285
Psychology, Clinical	338	4.18	Engineering, Otner	3,723
Psychology, Educational	263	4.02	Geology	910
Psychology, Experimental/	163	4.07	Mathematics	2,270
Developmental			Metallurgy	455
Psychology, Social	212	4.00	Develop	205
Psychology, Other	440	4.14	Physics Ctatiatian	3,460
Public Administration	443	4.02	Statistics	657
Public Health	778	3.97	Other Physical Sciences	607
Social Work	307	3.99	Other Departments	20,019
Sociology	617	4.06		
Other Social Sciences	666	3.98		

* Because of the unreliability of statistics based on small samples, means are not reported for groups with fewer than 30 examinees.

TWE RESEARCH

Ongoing research studies related to the TWE test continue to address issues of importance to the TWE program. This research, reviewed and approved by outside specialists from the academic and testing communities, is essential to continual evaluation and improvement of the technical quality and utility of the test. To date 11 TWE-related research projects have been completed, and two projects are in progress; others are under consideration. The results of research efforts are published as reports and are available to anyone interested in the TWE program by writing to TOEFL Research Reports (L03), P.O. Box 6161, Princeton, NJ 08541-6161.

Research Reports Available (by date of completion)

- Survey of Academic Writing Tasks Required of Graduate and Undergraduate Foreign Students. Brent Bridgeman and Sybil Carlson. September 1983. TOEFL Research Report 15. This report describes a survey of faculty in 190 departments at 34 US and Canadian universities with high foreign student enrollments; respondents indicated a desire to use scores on a direct writing sample to supplement admissions and placement decisions.
- Relationship of Admissions Test Scores to Writing Performance of Native and Nonnative Speakers of English. Sybil Carlson, Brent Bridgeman, Roberta Camp, and Janet Waanders. August 1985. TOEFL Research Report 19. This study investigated the relationship between essay writing skills and scores on the TOEFL test and the GRE General Test obtained from applicants to US institutions.
- A Preliminary Study of the Nature of Communicative Competence. Grant Henning and Eduardo Cascallar. February 1992. TOEFL Research Report 36. This study was conducted to survey the theoretical literature related to communicative competence; to identify major variables said to comprise the construct(s); to test for comparative presence and measurability of such variables as in typical native/nonnative speaker university academic communication; to propose a tentative model of communicative competence as a synthesis of these variables; and to examine the relationship of TOEFL, TSE®, and TWE scores with the various elements of the tentative model. Results provide information on the comparative contributions of some theory-based communicative competence variables to domains of linguistic, discourse, sociolinguistic, and strategic competencies. In turn, these competency domains were investigated for their relation to components of language proficiency as assessed by the TOEFL, TSE, and TWE tests. Twelve oral and 12 written communication

tasks were also analyzed and rank ordered for suitability in eliciting communicative language performance.

- ◆ An Investigation of the Appropriateness of the TOEFL Test as a Matching Variable to Equate TWE Topics. Gerald DeMauro. May 1992. TOEFL Research Report 37. This study explored the feasibility of using linear and equipercentile equating methods to equate forms of the TWE test by using the TOEFL test as an anchor. The differences between equated and observed scores (equating residuals) and differences among the mean equated scores for examinee groups were further examined in terms of characteristics of the TWE topics. An evaluation of the assumptions underlying the equating methods suggests that TOEFL and TWE do not measure the same skills and the examinee groups are often dissimilar in skills. Therefore, use of the TOEFL test as an anchor to equate the TWE tests does not appear appropriate.
- Scalar Analysis of the Test of Written English. Grant Henning. August 1992. TOEFL Research Report 38. This study investigated the psychometric characteristics of the TWE rating scale employing Rasch model scalar analysis methodology with more than 4,000 scored TWE essays across two prompts. Results suggest that the intervals between TWE scale steps were surprisingly uniform, and the size of the intervals was appropriately larger than the error associated with assignment of individual ratings. The proportion of positively misfitting essays was small and approximately equal to the proportion of essays that required adjudication by a third reader. This latter finding, along with the low proportion of misfitting readers detected, provides preliminary evidence of the feasibility of employing Rasch rating scale analysis methodology for the equating of TWE essays prepared across prompts.
- Effects of Amount of Time Allowed on the Test of Written English. Gordon Hale. June 1992. TOEFL Research Report 39. This study examined students' performance on TWE prompts under two time limits – 30 minutes, as on the current TWE, and 45 minutes. Mean scores on the sixpoint TWE scale were found to be significantly higher by about 1/4 to 1/3 point under the 45-minute condition, indicating that allowing additional time produced a modest but reliable increase in scores. The magnitude of the effect was roughly comparable for students of low versus high proficiency, and for students in intensive English programs versus students in academic coursework. The correlation between scores for both time conditions was relatively high; both parallel-form reliability and interrater reliability were approximately the same for the two time conditions.

Provision of additional time apparently had little effect on the relative standing of students on the test. Results are discussed in relation to the literature on time effects and to practical implications for the TWE test.

- Topic and Topic Type Comparability on the Test of Written English. Marna Golub-Smith, Clyde Reese, and Karin Steinhaus. March 1993. TOEFL Research Report 42. This study addressed the question of how comparable scores are for TWE essays written on different topics and/or different topic types, particularly compare-contrast and chart-graph topic types. It compared TWE mean scores across eight equivalent groups of examinees in an operational TWE administration and also reported on differences observed across prompts in the number of examinees at each score level. Additional analyses by gender were also conducted.
- A Comparison of Performance of Graduate and Undergraduate School Applicants on the Test of Written English. Rebecca Zwick and Dorothy T. Thayer. May 1995. TOEFL Research Report 50. The performance of graduate and undergraduate school applicants on the Test of Written English was compared for each of 66 data sets, dating from 1988 to 1993. The analyses compared the average TWE score for graduates and undergraduates after matching examinees on the TOEFL total score. The main finding was that, for matched examinees, undergraduate TWE means were higher than graduate means in 63 of the 66 data sets. Although these standardized mean differences (SMDs) never exceeded 0.3 of a TWE score point (with standard errors that were typically between 0.01 and 0.02), the results are noteworthy because they give a different picture than do simple comparisons of means for unmatched graduates and undergraduates, which showed higher mean TWE scores for graduate applicants in the majority of cases.
- Reader Calibration and Its Potential Role in Equating for the Test of Written English. Carol Myford, Diana Marr, and J. Michael Linacre. Spring 1996. TOEFL Research Report 52. When judges use a rating scale to rate performances, some may rate more severely than others, giving lower ratings. Judges may also differ in the consistency with which they apply rating criteria. This study pilot tested a quality control procedure that provides a means for monitoring and adjusting for differences in reader performance. FACETS, a Rasch-based rating scale analysis procedure, was employed to calibrate readers within

and across two TWE administrations. The study had four general foci: (1) to determine the extent to which individual readers can be considered interchangeable, both within and across TWE administrations; (2) to investigate reader characteristics and their relationships to the volume and quality of ratings; (3) to examine the efficacy of the use of a third reading to adjudicate rating discrepancies; and (4) to make a preliminary determination of the feasibility of using FACETS Reader Severity Measures as a first step toward equating TWE scores across different topics.

- ◆ A Study of Writing Tasks Assigned in Academic Degree Programs. Gordon Hale, Carol Taylor, Brent Bridgeman, Joan Carson, Barbara Kroll, and Robert Kantor. Spring 1996. TOEFL Research Report 54. Writing tasks assigned in 162 undergraduate and graduate courses in several disciplines at eight universities were collected. Using a sample of the assignments, key dimensions of difference were identified, and a classification scheme based on those dimensions was developed. Application of the classification scheme provided data on the prevalence of various types of assignments and, for essay tasks, showed the degree to which the assignments were characterized by each of several features. Differences among the kinds of writing tasks assigned in different groups of disciplines were examined.
- Adjustment for Reader Rating Behavior in the Test of Written English. Nicholas T. Longford. Spring 1996. TOEFL Research Report 55. This report evaluated the impact of a potential scheme for score adjustment using data from the administrations of the Test of Written English in 1994. It is shown that, assuming noninformative assignment of readers to essays, the adjustment due to reader differences would reduce the mean squared error for all essays except those graded by readers with small workloads. The quality of the rating process as described by the variances due to true scores, severity, and inconsistency, as well as the distribution of workloads was similar across the administrations. This would enable a reliable prediction of the optimal score adjustment in future administrations. Two approximations to the optimal adjustment are proposed, and an array of diagnostic procedures for the engaged raters are presented. The report highlights the relevance of shrinkage estimators to problems in which a large number of quantities is to be estimated and indicates how combining information across rating exercises could lead to further gains in the precision of assigned scores.

For more material and information, please visit Tai Lieu Du Hoc at www.tailieuduhoc.org

Research in Progress

- Computer Analysis of the Test of Written English. Lawrence Frase and Joseph Faletti with consultants Doug Biber, Ulla Connor, Gerard Dalgish, and Joy Reid. Seeks to conduct a variety of automated text analyses of TWE essays to summarize, analyze, and compare linguistic properties of TWE essays written by examinees from different language groups and to determine how TWE scores relate to linguistic text properties. Database of analyzed essays is now being used in other studies.
- Reliability Study of the Test of Written English Using Generalizability Theory. Gwyneth Boodoo. Investigates use of generalizability theory (G-theory) to explore and develop methods for estimating the reliability of the TWE test; will take into account sources of variation in scores

associated with the fact that different pairs of readers rate different subsets of papers within a prompt as well as variation associated with the use of different prompts.

Other Relevant Documents

- Educational Testing Service. 1987. ETS Guidelines for Developing and Scoring Free-Response Tests. Princeton, NJ.
- Educational Testing Service. 1987. ETS Standards for Quality and Fairness. Princeton, NJ.
- Livingston, S. A., and Zieky, M. J. 1982. Passing Scores: A Manual for Setting Standards of Performance on Educational and Occupational Tests. Educational Testing Service: Princeton, NJ.

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Angelis, P. J. (1982). Academic needs and priorities for testing. *American Language Journal*, 1, 41-56.

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APPENDIX A

TWE COMMITTEE MEMBERS* (1995-96)

Louis Arena Dwight Atkinson Diane Belcher Cherry Campbell Joan Carson Melinda Erickson Dennie Rothschild University of Delaware Auburn University Ohio State University Monterey Institute of International Studies Georgia State University University of California, Berkeley Vancouver Community College

FORMER MEMBERS

George Braine Milton Clark Ulla Connor William Gaskill Lynn Goldstein Roseann Duenas Gonzales Kay Grandage Robert Kantor Jane Hughey Barbara Kroll Ilona Leki Vivian McDonough Joy Reid Marian Tyacke University of South Alabama California State University, San Bernardino Purdue University San Diego State University Monterey Institute of International Studies University of Arizona, Tucson North York Board of Education, Ontario Ohio State University Texas A & M University California State University, Northridge University of Tennessee University of Toronto University of Wyoming University of Toronto

TWE CHIEF READERS (1994-95)

Mary Bly Milton Clark Lynn Goldstein John White Agnes Yamada University of California, Davis California State University, San Bernardino Monterey Institute of International Studies California State University, Fullerton California State University, Dominguez Hills APPENDIX B

TEST OF WRITTEN ENGLISH (TWE) SCORING GUIDE

Revised 2/90

Readers will assign scores based on the following scoring guide. Though examinees are asked to write on a specific topic, parts of the topic may be treated by implication. Readers should focus on what the examinee does well.

Scores

6 Demonstrates clear competence in writing on both the rhetorical and syntactic levels, though it may have occasional errors. A paper in this category -effectively addresses the writing task -is well organized and well developed -uses clearly appropriate details to support a thesis or illustrate ideas -displays consistent facility in the use of language -demonstrates syntactic variety and appropriate word choice 5 Demonstrates competence in writing on both the rhetorical and syntactic levels, though it will probably have occasional errors. A paper in this category -may address some parts of the task more effectively than others -is generally well organized and developed -uses details to support a thesis or illustrate an idea -displays facility in the use of language -demonstrates some syntactic variety and range of vocabulary 4 Demonstrates minimal competence in writing on both the rhetorical and syntactic levels. A paper in this category -addresses the writing topic adequately but may slight parts of the task -is adequately organized and developed -uses some details to support a thesis or illustrate an idea —demonstrates adequate but possibly inconsistent facility with syntax and usage -may contain some errors that occasionally obscure meaning 3 Demonstrates some developing competence in writing, but it remains flawed on either the rhetorical or syntactic level, or both. A paper in this category may reveal one or more of the following weaknesses: -inadequate organization or development -inappropriate or insufficient details to support or illustrate generalizations —a noticeably inappropriate choice of words or word forms -an accumulation of errors in sentence structure and/or usage 2 Suggests incompetence in writing. A paper in this category is seriously flawed by one or more of the following weaknesses: ---serious disorganization or underdevelopment -little or no detail, or irrelevant specifics -serious problems with focus 1 Demonstrates incompetence in writing. A paper in this category -may be incoherent -may be undeveloped -may contain severe and persistent writing errors Papers that reject the assignment or fail to address the question must be given to the Table Leader. Papers that exhibit absolutely no response at all must also be given to the Table Leader.



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APPENDIX C
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TWE TEST BOOK COVER

Form: 3RTF12		Topic A
	Test of Written English	n
	TWE [®] Test Book	
	Do NOT open this test book until you are told to do so.	
Read the direction	ons that follow.	
1. The TWE ess will have 30 r your essay. Ye	say question is printed on the inside minutes to plan, write, and make any our essay will be graded on its overa	e of this test book. You y necessary changes to all quality.
2. Read the topi sure you under	c carefully. You may want to read it erstand what you are asked to write	t more than once to be about.
3. Think before essay. Below area to outline	you write. Making notes may help the essay topic is a space marked NC e your essay or make notes.	you to organize your OTES. You may use this
4. Write only on topic, your es well you write cover the top paragraph.	the topic printed on the inside. If y ssay will not be scored. Write clear e is much more important than how pic adequately, you may want to	ou write on a different ly and precisely. How much you write, but to write more than one
5. Start writing sheet. Use Si provided. Wri large letters o	your essay on the first line of Side ide 4 if you need more space. Ex ite neatly and legibly. Do not skip line or leave large margins.	3 of the TWE answer atra paper will not be es. Do not write in very
6. Check your w your essay an	ork. Allow a few minutes before time ad make any changes.	ne is called to read over
7. After 30 min down. You M considered cl	utes, you will be instructed to stop IUST stop writing. If you continu heating.	p and put your pencil le to write, it will be
<i>Do NOT br</i> When yo	eak the seal on this book until you ou have finished reading the direct	<i>are told to do so</i> . tions, look up.
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