# Revisiting Beliefs about Foreign Language Learning ${ }^{1}$ 

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#### Abstract

Research on the beliefs of American university students about foreign language leaming has been limited in three ways: First, students surveyed have generally been drawn only frombeginning language classes. Second, research in this area has been conducted almost exclusively with students of French, German, and Spanish; the beliefs of learners of other languages such as Arabic, Chinese, Japanese, and Russian - have been largely ignored. Third, published studies have focused on the beliefs of learners at only one institution, rather than at a number of institutions; the results of such studies are, therefore, also likely limited by the local conditions of the given institution. This paper presents an investigation of these three issues. The study is based on a survey of over 1,000 learners of 10 different languages at different levels of instruction in three different institutions. Data collected over a three-year period are analyzed in order to compare the beliefs about language learning reported by learners in the present study with those held by learners in Howitz's 1988 study, "The Beliefs about Language Learning of Beginning University Students." Moreover, this paper presents comparisons of the beliefs of learners in their first year of instruction with the beliefs held by learners at other levels, of the beliefs of leamers of commonly versus less commonly taught languages, and of the beliefs of learners at a public research institution with the beliefs of learners at small, private liberal arts colleges.


## Introduction

Students' beliefs about foreign language learning - including beliefs about the time needed to attain fluency, beliefs about relative abilities of children and adults or males and females to learn a foreign language, beliefs about the roles of risk taking and communication in foreign language leaming, and other beliefs about the learning process - are of critical importance to the success or failure of any student's efforts to master a foreign language. Horwitz wrote:

Americans appear to hold strong beliefs about how languages are learned. Definite viewpoints on the best techniques for learning a language, the "right" age to begin language study, and the nature of the language learning process are the subject of airline magazine articles, Sunday supplement advertisements, and cocktail party small-talk ... If beliefs about language learning are prevalent in the culture at-large, then foreign language teachers must consider that students bring these beliefs with them into the classroom.... (Horvitz 1988, 283)

Mantle-Bromley agreed, arguing in her 1995 study of the value of "attitude intervention" in the foreign language classroom that students' counterproductive beliefs about foreign language studies may hinder success: "without a positive learning atmosphere, students may well gain little or nothing from new curricular infusions" (383). Furthemore, when learners' beliefs about language learning are at odds with those of their instructors, the results can be disastrous, as described by Oxford et al. (1991). In order to develop plans to overcome learners' counterproductive beliefs about foreign language learning, we must first understand exactly what those

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beliefs are.
Recent research on the beliefs of American university students toward the learning of a foreign language has been limited in three fundamental ways: First, students surveyed for such research have generally been drawn only from beginning language classes (e.g., Horwitz 1988, 1989, 1990; Kern 1995). Oh (1996) is one of the few researchers to date to address the issue of level of study, and she found level to be an important factor (see "Findings," below, for discussion). Second, research in this area has been conducted almost exclusively with students of French, German, and Spanish; the beliefs of learners and instru ctors of other languages - such as Arabic, Chinese, Japanese, and Russian - have not been the object of any published investigation. ${ }^{2}$ Third, none of the published research thus far has been conducted at more than one institution; all published studies as of this date have surveyed learners at only one institution. The results of such studies are thus also likely limited by the local conditions of the given institution. The current project addresses all of these issues in a survey of over 1,000 learners of 10 different languages at three different institutions.

As noted above, virtually all the previous related research has been based almost exclusively on French, German, and Spanish (languages of Groups I and II diff iculty, according to the Foreign Service Institute classification), on students studying only one of those languages (e.g., Holmquist 1993), or on students of a certain type (e.g., minority students [Davis \& Markham 1991], low achievers [Wigzell and Al-Ansari 1993], or gifted students [Carlson 1981]). Research in this area involving less commonly taught languages has tended to focus on foreign nationals studying English in their own countries or in the United States (e.g., Wigzell and Al-Ansari 1993). Even among students of more commonly taught languages there may, in fact, exist significant differences in attitude. Horwitz surveyed students in first-year classes in French, German, and Spanish (1988) and noted general consensus among all the students of all three languages on virtally all of the questions in her survey. However, Horwitz did report that the overwhelming majority of students of Spanish and German believed that "learning a foreign language is mostly a matter of translating from English" while students of French disagreed with this same statement (1989, 62).

Although this was the only discrepancy among the beliefs reported by learners of the three different languages in her survey, it suggested the possibility that there may be differences in beliefs about language learning among learners of different languages, especially among learners of languages not included in that research project. Learners of the two Romance languages (both classified in the Foreign Service Institute Category I) included in the Horwitz study did not hold similar beliefs, so it cannot be assumed that
the difficulty of the language is the key factor in predicting the beliefs of the learners who study it. Furthemore, with regard to this particular item, learners of the most commonly taught language (Spanish) agreed with learners of the third most commonly taught language (German), while the learners of the second most commonly taught language (French) disagreed. The frequency with which a language is studied is also not the key factor in predicting learner beliefs: It cannot be assumed that learners of less commonly taught languages have beliefs similar to those held by learners of French, German, and Spanish. Beginning students of French, German, and Spanish very likely know other young people studying these languages; they may also know people from Quebec, Germany, or Puerto Rico; these students have also likely been exposed to more information in the mass media about cultures where these languages are spoken. Beginning students of Arabic, Russian, or Yo ruba, however, may very likely not know any other students of these languages, may never have met anyone from Egypt, Russia, or Nigeria and may have little or no idea of the culture of these countries given that the American media rarely present information about these cultures beyond the reporting of political events.

None of the published studies on learner beliefs about foreign language learning has examined the beliefs of learners not in the first year of instruction. Learners change by virtue of the instruction they receive and we can only hope that the beliefs of students in intermediate, advanced, or even graduate level classes are different from the beliefs held by their peers in the introductory courses.

Lastly, none of the previous research projects in this area of inquiry has collected data from learners and instructors at more than one institution. Thus, the findings of Horwitz $(1988,1989,1990)$ based on surveys of students at the University of Texas-Austin, and the findings of Kern (1995) based on surveys of students at the University of California-Berkeley, may not be generalizable to other institutions. It is interesting to note that both these institutions are large public schools with significant enrollments of students originally from the states of Texas and Califomia, states with large hispanophone populations. Learners from these states may well have more exposure to bilingualism than learners in other states with less diverse populations. The measure of beliefs of students at these institutions, therefore, might well reflect beliefs pervasive among young people in the particular geographic region a product, perhaps, of local social conditions rather than national educational factors.

It cannot be emphasized enough that the studies by Horwitz (1988, 1989, 1990) and Kern (1995) were groundbreaking studies in the investigation of learners' beliefs about language learning. The intention of this study is not to refute the claims made in those important papers,
but rather to consider issues that did not enter into their research designs as part of an effort to expand the focus of the ongoing inquiry into beliefs about language leaming.

## Research Hypotheses

The present study was designed to determine whether learners at the first-year level of instruction hold beliefs similar to those held by learners at other levels of instruction, whether learners of more commonly taught languages hold beliefs similar to those held by learners of less commonly taught languages, and whether learners at large universities (research institutions) hold beliefs similar to those held by learners at small liberal arts colleges. Accordingly, the three research hypotheses were formulated as follows:

1. There is no relationship between beliefs about language learning and level of instruction.
2. There is no relationship between beliefs about language learning and language or type of language studied; specifically, learners of less commonly taught languages do not hold beliefs about language learning substantially different from those beliefs held by learmers of more commonly taught languages.
3. There is no relationship between beliefs about language learning and the nature of the institution (large research institution or small private college) in which learners are studying.

## Procedure

The investigator of the present study chose to use a slightly modified version of a belief inventory designed by Ho rwitz, the "Beliefs About Language Learning Inventory" or BALLI (Horwitz 1988, 1989, 1990). The modified verson of the BALLI differs from the BALLI only by virtue of the addition of 14 questions to the end of the instrument. These 14 questions had no order effect on the questions common to both instruments, because they were placed at the end of the modified version. ${ }^{3}$ The discussion below, however, will focus only on data collected relevant to questions common to both the BALLI and the modified version of the BALLI. Although the slightly modified version of the BALLI was used to collect the data, the term "BALLI" will be used to refer to the instrument because the data presented for analysis and discussion here are only from the questions common to both inventories, that is, BALLI questions 1-34 (see Appendix A).

In the fall of 1992 (within the first three weeks of instruction as reported by Horwitz, 1989), the BALLI was administered to 330 students in up to three first-semester sections in each of nine different foreign languages (Arabic, French, German, Italian, Japanese, Russian, Spanish, Swahili, and Yoruba) at the University of Wiscon-sin-Madison. For those languages that had more than three sections of the first-semester course, three different class
times were randomly selected and the survey was administered in the first section of all those meeting at the selected class times. In the fall of 1993, the BALLI was administered to 212 students in up to three sections of third-semester classes in Arabic, French, German, Japanese, Russian, and Spanish at the same institution according to the same principles described above. Students in both the first- and thirdsemester classes were selected randomly, so they may have been included in both samplings. This is undoubtedly the case in the least commonly taught language in the group, Arabic, somewhat likely in Japanese and Russian, but unlikely in French, German, and Spanish due to the larger populations of students from which the sample was drawn in those languages. In the summer of 1995, the BALLI was administered to a total of 389 students of Arabic, French, Chinese, German, Italian, Japanese, Russian, and Spanish at the language schools of Middlebury College. In the fall of 1995, the BALLI was administered to 68 students of French, German, Russian, and Spanish at a private liberal arts college in the Appalachians. All told, there were 1,004 respondents in the present study:

Students in first-year courses 449
Students in second-year courses 323
Students in third-year courses 90
Students in fourth-year courses 31
Students in graduate courses 100
Students at a large research institution 545
Students at small, private liberal a rts colleges 459
Students of Arabic 47
Students of Chinese 73
Students of French 220
Students of German 117
Students of Italian 57
Students of Japanese 137
Students of Russian 158
Students of Spanish 171
Students of Swahili and Yo ruba
$\quad$ (grouped together for size)
Students of commonly taught languages
(French, German, and Spanish in this study) 508
Students of less commonly taught languages
(Arabic, Chinese, Italian, Japanese, Russian, Swahili, and Yo ruba in this study) 495
Males 463
Females 508
Students 17 or younger 19
Students ages 18-25 756
Students 26 or older 194

Note: Not all of the categories add up to the total number of respondents because not all respondents answered each question.

Approximately $51 \%$ of the respondents were female, $49 \%$ were male, and the overwhelming majority ( $75 \%$ ) of the respondents were college age or slightly older (18-25 years old), with about $19 \%$ of the respondents 26 or older. In these respects, the demographic profile of the respondents (from all three institutions in which surveys were administered) is potentially similar to the demographic profile of many foreign language classrooms at the postsecondarylevel.

In her analysis of data collected on the BALLI, Horwitz grouped items according to the following categories:
I. The difficulty of learning a foreign language: Items 3, $4,6,14,24$, and 28.
II. Aptitude for language learning: Items $1,2,10,15,22$, 29, 32, 33, and 34.
III. The nature of the language learning process: Items 8 , $11,16,20,25$, and 26.
IV. Learning and communicative strategies: Items 7, 9, $12,13,17,18,19$, and 21.
V. Motivations for language learning: Items $23,27,30$, and 31 .

Horwitz did not include item 5 from the BALLI in the five categories above; accordingly, this same item is not included in the data analysis below. It is important to note that the grouping of items in Horwitz's five categories is not based on a factor analysis; indeed, a factor analysis failed to confirm this very classification system. Nonetheless, this author has used these five categories in order to facilitate comparison with studies by Horwitz (1988, 1989, 1990) and Kern (1995). ${ }^{4}$

For the present study, respondents were divided into groups in order to test the research hypotheses. First, the respondents were divided into the subgroup of all learners of commonly taught languages (CTLs) and the subgroup of all learners of less commonly taught languages (LCTLs). Next, the respondents were divided into those learners surveyed in the first year of instruction in the given language (FY) and those learners at any level above first year (NFY). Third, the respondents were divided into those at a large public research institution (RI) and those at a small private college (PC), with the PC group including both students at Middlebury College's language schools and students at the private liberal arts college. Two-sample $t$-tests were run for the items in each of Horwitz's five categories of beliefs, with $\alpha$ set at a total of $.05 ; \alpha$ was then divided by five, corresponding to the number of categories, and then again divided by the number of items in each given category, in order to determine if the mean response for each set of respondents (e.g., CTL, FY, RI) was significantly different from the mean responses of the corresponding set of respondents (LCTL, NFY, PC, respectively). ${ }^{5}$

## Findings

Two-sample $t$-tests provided an interesting perspective on the research questions with regard to each of Horwitz's five categories (beliefs about the difficulty of learning a foreign language, beliefs about the aptitude for language learning, beliefs about the nature of the language learning process, beliefs about learning and communicative strategies, motivations for language learning). Before proceeding to an examination of each research hypothesis, however, it is worthwhile to consider first an overview of the data collected in this study in comparison with the data collected by Horwitz (1988). Table 1 presents an overview of all the data collected by Horwitz, that is, data reflecting items l-4 and $6-34$, the data for the same items collected by this author (1992-1995), and the results of a two-tailed $t$-test indicating those items for which there was a significantly different response by the respondents in the two surveys. For the purposes of determining critical values for this two-tailed $t$-test, $\alpha$ was set at a total of .05 and divided by 33 (the number of items being compared.) Data from Kern's 1995 study are not presented in Table 1 because the data as reported in that study represent learners of firstand second-semester instruction conflated into one group. An overview of all the data collected for the current study is presented in Appendices B and C.

As demonstrated by Table 1, differences in the means between the Horwitz study and the present study were found for 24 of the 33 items on the BALLI, or for roughly $73 \%$ of all the items in the BALLI. In the investigation of the research hypotheses listed above, the author will attempt to provide some possible explanations for the discrepancies in the results of the two different studies using the same survey instrument.

Each research hypothesis will now be examined in turn.

1. There is no relationship between beliefs about language learning and level of instruction.

The beliefs of learners at the first-year level of instruction are not consistently similar to the beliefs of learners at other levels of instruction for all items according to the statistical analysis of the data collected for each of Horwitz's five categories, as depicted in Tables 2 to 6. (Appendices B and $C$ present all items and responses.)

There were certainly numerous instances in which the learners in the first year of language instruction held beliefs similar to those held by learners at the more advanced levels. This finding is consistent with that of Oh (1996), who reported in her dissertation that there were significant differences on some of the BALLI items between first-year and second-year students of Japanese (Oh 1996, 60-61). The statistical analysis in the present study demonstrated that in 11 of the 33 items ( $33 \%$ of all the items in Horwitz's five categories), learners at the first-year level held beliefs sig-

## Table 1

COMPARISON OF DATA COLLECTED BY HORWITZ (1988) AND RIFKIN (1992-1995)
Scale for All Items Except 4 and 14: Strongly Agree = 1; Agree = 2; Neither Agree nor Disagree = 3;
Disagree $=4 ;$ Strongly Disagree $=5$. For Items 4 and 14, see Appendix A.

| Item | Cat. | Mean(H) | StDev(H) | N(H) | $\operatorname{Mean}(\mathrm{R})$ | $\operatorname{StDev}(\mathrm{R})$ | $\mathrm{N}(\mathrm{R})$ | (df) | TS | Sig. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | II | 1.802676 | 1.524034 | 299 | 1.6851 | 0.8438 | 997 | 1294 | 1.713555 |  |
| 2 | II | 2.640678 | 2.283503 | 295 | 2.435 | 1.0338 | 1000 | 1293 | 2.188859 |  |
| 3 | I | 1.808725 | 1.412054 | 298 | 1.7698 | 0.8027 | 999 | 1295 | 0.603823 |  |
| 4 | I | 2.767677 | 2.046723 | 297 | 2.4498 | 0.8486 | 996 | 1291 | 3.905638 | * |
| 6 | I | 2.478261 | 2.06578 | 299 | 3.5876 | 0.9767 | 999 | 1296 | -12.8471 | * |
| 7 | IV | 2.589226 | 2.189645 | 297 | 2.1842 | 0.9808 | 999 | 1294 | 4.519494 | * |
| 8 | III | 2.792763 | 2.358761 | 304 | 2.4634 | 0.9786 | 997 | 1299 | 3.52657 | * |
| 9 | IV | 3.939597 | 3.058286 | 298 | 2.5713 | 1.0408 | 996 | 1292 | 11.99581 | * |
| 10 | II | 2.281879 | 1.926706 | 298 | 4.2633 | 0.7817 | 999 | 1295 | -26.1057 | * |
| 11 | III | 2.060201 | 1.760767 | 299 | 2.2661 | 0.9125 | 996 | 1293 | -2.68207 |  |
| 12 | IV | 2.89527 | 2.40116 | 296 | 2.1073 | 0.9257 | 997 | 1291 | 8.463075 | * |
| 13 | IV | 2.717172 | 2.325174 | 297 | 2.8927 | 1.0127 | 997 | 1292 | -1.86398 |  |
| 14 | I | 2.770035 | 2.351604 | 287 | 2.3049 | 0.9639 | 997 | 1282 | 4.965392 | * |
| 15 | II | 2.846154 | 2.376051 | 299 | 3.3195 | 1.1357 | 986 | 1283 | -4.72599 | * |
| 16 | III | 3.100334 | 2.423081 | 299 | 2.4251 | 0.921 | 995 | 1292 | 7.22738 | * |
| 17 | IV | 1.35906 | 0.994784 | 298 | 3.4925 | 0.9976 | 997 | 1293 | -32.4135 | * |
| 18 | IV | 2.672297 | 2.303073 | 296 | 1.4044 | 0.5525 | 999 | 1293 | 15.93417 | * |
| 19 | IV | 2.636364 | 2.313462 | 297 | 2.6743 | 1.1067 | 998 | 1293 | -0.38965 |  |
| 20 | III | 3.184397 | 2.455422 | 282 | 2.998 | 1.1829 | 993 | 1273 | 1.775271 |  |
| 21 | IV | 2.107744 | 1.737765 | 297 | 3.3266 | 0.9994 | 995 | 1290 | -15.2425 | * |
| 22 | II | 3.690236 | 3.057562 | 297 | 2.344 | 0.9606 | 997 | 1292 | 12.05639 | * |
| 23 | V | 2.535354 | 2.177647 | 297 | 3.676 | 0.9142 | 997 | 1292 | -13.1158 | * |
| 24 | I | 3.491582 | 2.75648 | 297 | 2.1453 | 0.9975 | 998 | 1293 | 12.86468 | * |
| 25 | III | 1.989796 | 1.618076 | 294 | 3.6365 | 1.0846 | 996 | 1288 | -20.2279 | * |
| 26 | III | 2.485401 | 2.165024 | 274 | 2.0111 | 0.8875 | 995 | 1267 | 5.448717 | * |
| 27 | V | 3.239865 | 2.720079 | 296 | 4.0522 | 0.8816 | 996 | 1290 | -8.10631 | * |
| 28 | I | 2.459459 | 2.084856 | 296 | 2.4058 | 1.0205 | 961 | 1255 | 0.598616 |  |
| 29 | II | 3.766892 | 3.101348 | 296 | 2.9667 | 1.1059 | 960 | 1254 | 6.730415 | * |
| 30 | V | 3.589041 | 3.019262 | 292 | 3.7469 | 0.8757 | 960 | 1250 | $-1.43472$ |  |
| 31 | V | 2.64094 | 2.195872 | 298 | 3.6844 | 1.028 | 960 | 1256 | -11.2768 | * |
| 32 | II | 3.057432 | 2.542786 | 296 | 2.2607 | 0.9346 | 959 | 1253 | 8.096815 | * |
| 33 | II | 3.417808 | 2.685233 | 292 | 2.8704 | 0.8569 | 957 | 1247 | 5.464052 | * |
| 34 | II | 2.121212 | 1.763095 | 297 | 3.3626 | 0.7226 | 957 | 1252 | -17.5533 | * |

Key: Item is the item number on the BALLI; Cat. refers to Horwitz's categorization of this item (into one of the five categories listed above); Mean(H), $\operatorname{StDev}(H)$, and $N(H)$ identify the mean, standard deviation, and number of respondents for each item in Horwitz's study. Mean(R), StDev(R), and $N(R)$ refer to the mean, standard deviation, and number of respondents for each item in the present study. (df) identifies the degrees of freedom for each item and TS the test statistic. An asterisk in the Sig. column indicates that the difference between the two means for the given item [Mean(H) and Mean(R)] is found to be significant, given $\alpha=.0007575$ (. 05 divided by 33 and divided in half again for this two-tailed test.)
nificantly different from those held by their peers at more advanced levels of instruction. The null hypothesis, that there is no relationship between beliefs about language learning and level of instruction, must be rejected because in one third of all the survey items learners at the first-year level held beliefs significantly different from those held by learners at different levels; one third of all the items is a sufficiently large proportion of all the items for us to conclude that we cannot assume that beliefs held by learners at the first-year level are always similar to beliefs held by learners at other levels. The practical implication of these differences is discussed below.
2. There is no relationship between beliefs about language learning and language or type of language studied; specifically, learners of less commonly taught languages do not hold beliefs about language learning substantially different from those beliefs held by learners of more commonly taught languages.

Once again, the statistical analysis of the data collected in this project demonstrated that learners of commonly taught languages do not necessarily hold beliefs similar to those held by learners of less commonly taught languages, but not with regard to all of Horwitz's five categories, as depicted in Tables 7 to 10 .

Again there were numerous instances in which learners of commonly taught languages held beliefs similar to those held by their peers studying less commonly taught
languages. This was shown to be especially true for the beliefs of the second category, "beliefs about the aptitude for language learning," in which there were no significant differences between the two groups. Nonetheless, the statistical analysis identified eight instances in which the learners of commonly taught languages held beliefs significantly different from those held by learners of less commonly taught languages, for a total of approximately $24 \%$ of all the items in Horwitz's five attitude categories. Accordingly, the null hypothesis, that there is no relationship between beliefs about language learning and language or type of language studied, must be rejected. This finding is also supported by Kuntz (1996, 137-138) and by Oh (1996, 65-67). It is interesting, in this respect, to consider suggestions by Kuntz (1996, 134-136), Oh (1996, 66), and Sung and Padilla (1998), that it is possible that the individual language or the difficulty of the language, rather than the language group (commonly or less commonly taught languages) may be more important in shaping or predicting learners' beliefs.
3. There is no relationship between beliefs about language learning and the nature of the institution (large research institution or small private college) in which learners are studying.

The analysis of data reflecting the institutional affiliation of the learners ("RI" representing a research institution, "PC" representing a private liberal arts college) also demonstrated that in many instances learners at different

## Table 2

CATEGORY I: THE DIFFICULTY OF LEARNING A FOREIGN LANGUAGE

| Item No. | Mean FY | Mean NFY | $\mathrm{t}(\mathrm{df})$ | $\mathrm{p}<.0016$ |
| :--- | :---: | :---: | :---: | :---: |
| 6 | 2.325 | 2.069 | $+4.138(997)$ | .000 |
| 14 | 3.000 | 3.579 | $-8.227(984)$ | .000 |
| 24 | 3.446 | 3.790 | $-5.049(994)$ | .000 |

Key: FY = first year; NFY = not first year

## Table 3

## CATEGORY II: APTITUDE FOR LANGUAGE LEARNING

| Item No. | Mean FY (first year) | Mean NFY (not first year) | $\mathbf{t}(\mathrm{df})$ | $\mathrm{p}<.001$ |
| :--- | :---: | :---: | :---: | :---: |
| 2 | 2.617 | 2.287 | $+5.085(998)$ | .000 |
| 15 | 2.531 | 2.339 | $+3.297(993)$ | .001 |

[^0]kinds of institutions hold different beliefs, as shown by Tables 11 to 15 .

While there were, once again, numerous instances in which learners at research institutions held beliefs similar to those held by learners at the small private colleges, the statistical analysis identified 21 instances in which learners of these different kinds of institutions held beliefs that were significantly different. This represents nearly $66 \%$ of all the items in Horwitz's five categories. Accordingly, the null hypothesis, that there is no relationship between beliefs about language learning and the nature of the institution (large research institution or small private college) in which learners are studying, must be rejected. It is possible that the individual institution or location of the institution, rather than the nature of the institution, is an imporant factor in shaping or predicting learners' beliefs, as suggested by Kuntz $(1996,197)$ in her comparison of data for French, German, and Spanish at the University of

Wisconsin with data collected by Horwitz (1988).

## Discussion

Examining the data once again from the perspective of each research hypothesis, it is possible to determine certain differences in beliefs among the various groups of respondents. Thus, for example, based on the data collected for this study and reported in Tables 2 to 6, students in a first-year language class were more likely than peers enrolled in language classes at other levels to believe that it is easier to speak than understand a foreign language (item 24), that learning a foreign language is mostly a matter of translating from English (item 26), that making mistakes in the beginning will be a problem later on (item 19), that language laboratory practice is important (item 21), but less confident that they will ultimately learn to speak the target language well (item 6). Students in first-year classes are more likely than peers at more advanced levels

## Table 4

## CATEGORY III: THE NATURE OF THE LANGUAGE LEARNING PROCESS

| Item No. | Mean FY | Mean NFY | $\mathrm{t}(\mathrm{df})$ | $\mathrm{p}<.0016$ |
| :--- | :---: | :---: | :---: | :---: |
| 26 | 3.928 | 4.153 | $-4.026(994)$ | .000 |

Key: FY = first year; NFY = not first year

## Table 5

CATEGORY IV: LEARNING AND COMMUNICATIVE STRATEGIES

| Item No. | Mean FY | Mean NFY | $\mathrm{t}(\mathrm{df})$ | $\mathrm{p}<.00125$ |
| :--- | :---: | :---: | :---: | :---: |
| 13 | 2.508 | 2.140 | $+6.101(995)$ | .000 |
| 19 | 2.861 | 3.110 | $-3.313(991)$ | .001 |
| 21 | 2.159 | 2.495 | $-5.570(995)$ | .000 |

Key: FY = first year; NFY = not first year

## Table 6

CATEGORY V: MOTIVATIONS FOR LANGUAGE LEARNING

| Item No. | Mean FY | Mean NFY | $\mathrm{t}(\mathrm{df})$ | $\mathrm{p}<.0025$ |
| :--- | :---: | :---: | :---: | :---: |
| 27 | 2.560 | 2.288 | $+4.128(959)$ | .000 |
| 31 | 2.366 | 2.180 | $+3.069(957)$ | .002 |

Key: FY = first year; NFY = not first year
of instruction to disagree that some people are born with foreign language learning aptitude (item 2), but are also less inclined to self-identify as having foreign language aptitude themselves (item 15). Learners in first-year classes are less disposed than their peers at more advanced levels toward guessing when they don't know a word in the target language (item 13). Lastly, students in first-year classes are less optimistic than their peers in other classes that learning to speak the target language will help them
get a good job (item 27).
Some first-year students hold beliefs that are clearly not conducive to language learning. Instructors should try to address some of these counterproductive beliefs and attitudes in order to steer learners toward beliefs that are both more conducive to language learning success and more productive for the language learning experience itself. The fact that learners at more advanced levels of instruction do not share some of these counterproductive

## Table 7

## CATEGORY I: THE DIFFICULTY OF LEARNING A FOREIGN LANGUAGE

| Item No. | Mean CTL | Mean LCTL | $\mathrm{t}(\mathrm{df})$ | $\mathrm{p}<.0016$ |
| :--- | :---: | :---: | :---: | :---: |
| 4 | 2.839 | 2.051 | $+16.550(994)$ | .000 |
| 6 | 2.303 | 2.063 | $+3.898(997)$ | .000 |
| 28 | 2.849 | 3.089 | $-3.387(958)$ | .001 |

Key: CTL = commonly taught languages; LCTL = less commonly taught languages

## Table 8

CATEGORY III: THE NATURE OF THE LANGUAGE LEARNING PROCESS

| Item No. | Mean CTL | Mean LCTL | t (df) | $\mathrm{p}<.0016$ |
| :--- | :---: | :---: | :---: | :---: |
| 8 | 2.705 | 2.434 | $+4.144(994)$ | .000 |

Key: CTL = commonly taught languages; LCTL = less commonly taught languages

## Table 9

## CATEGORY IV: LEARNING AND COMMUNICATIVE STRATEGIES

| Item No. | Mean CTL | Mean LCTL | $\mathrm{t}(\mathrm{df})$ | $\mathrm{p}<.00125$ |
| :--- | :---: | :---: | :---: | :---: |
| 12 | 3.062 | 2.720 | $+5.397(995)$ | .000 |

Key: CTL = commonly taught languages; LCTL = less commonly taught languages

| Table 10 |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | CATEGORY V: |  |  |  |
| Item No. | Mean CTL | Mean LCTL | $\mathrm{t}(\mathrm{df})$ | $\mathrm{p}<.0025$ |
| 23 | 2.308 | 1.977 | $+5.307(996)$ | .000 |
| 27 | 2.569 | 2.373 | $+5.095(959)$ | .000 |
| 31 | 2.452 | 2.062 | $+6.606(957)$ | .002 |

Key: CTL = commonly taught languages; LCTL = less commonly taught languages
beliefs may demonstrate that instructors are successful in re-educating their students with regard to such beliefs, but it is just as possible that those learners in first-year classes who hold such negative beliefs do not continue in their language classes. This kind of attrition could also account for the discrepancy in beliefs between first-year students and students in more advanced classes.

Looking at the data from the perspective of language studied, it is possible to determine a few beliefs particularly characteristic of each of the languages or language groups examined in the present study, as depicted in Table 16.

Examining the data in the table above, it is easy to see right away that students are perceptive with regard to the intellectual challenge they are taking on. Learners of Arabic, Chinese, and Japanese, all Category IV languages according to the Foreign Service Institute (FSI) classification of language difficulty, tended to identify the language they are trying to learn as very difficult (see item 4), while leamers of Russian (a Category III language according to the FSI classification) tended to identify the language they are trying to learn as difficult, and learners of French, Italian, and Spanish tended to identify the language they are trying to learn as a language of moderate difficulty or as easy. The category of learners of African languages (Yo ruba and Swahili) did not yield a clear response on this item, in contrast with all the other languages, perhaps because the two languages included in this group are very different from one another: Yo ruba is classified as a Category III language, while Swahili is classified as Category I language (together with the Romance languages). Learners of these two languages may have given verydifferent answers to the question posed in item 4 , but their responses were collapsed into one group due to the small sample size for learners of these two languages in o rder to maintain the anonymity of the students responding to the survey.

Moving on to other questions in the BALLI, it is interesting to note that learners of Arabic are more likely than peers studying other languages to believe that they would approach a native speaker of Arabic to practice speaking the language (item 12), to believe that they will have many opportunities to use Arabic if they learn to speak it well (item 23), and to believe that one of their motivations for learning Arabic is to get to know its speakers better (item 31). Learners of Arabic are less likely than their peers studying other languages to believe that Americans value language learning (item 30). Beliefs characteristic of learners of Arabic may, in part, be attributable to the learners' recognition of the strategic value of Arabic in the world today, especially in light of continuing attention to Iraq and the Middle East in the years since the Gulf War.

Leamers of Chinese are more likely than their peers to
believe in the importance of pronunciation (item 7), in the value of language laboratory practice (item 21), and in the prospect of opportunities to use the language if they learn it well (item 23). Learners of Chinese are less likely than their peers to believe that it is better to learn a foreign language in the country where it is spoken (item 11). Some of the characteristic beliefs of learners of Chinese may be attributed to the learners' recognition of the difficulties posed by the system of tones in Chinese, others, perhaps, by the learners' affective response to the crackdown in China in the years following 1989 (since the data were collected from 1992 to 1995).

Learners of French are less likely than their peers studying other languages to believe that the study of French will help them get a good job (item 27). These students may believe that other languages, such as Arabic or Spanish, carry more strategic or practical value, respectively, but may value the study of French for cultural reasons.

Learners of German are less likely than their peers studying other languages to believe in the importance of good pronunciation (item 7), in the prospect of opportunities to use German if they learn to speak it well (item 23), and in the likelihood of their knowledge of German helping them to get a good job (item 27). These learners, like the learners of French, may recognize that the study of German may not carry the strategic or practical value of Arabic or Spanish; they may also consider German linguistically close enough to English to warrant reducing the value they place on pronunciation, in comparison with the beliefs reported by learners of other languages.

Learners of Japanese are more likely than their peers studying other languages to believe that if they learn to speak Japanese well, it will help them get a good job (item 27). These learners are less likely to believe that it is easier to read and write Japanese than it is to speak it (item 28), indicative of their understanding of the complexities of the Japanese writing system as compared with the spoken language. Learners of Japanese are also less likely than their peers studying other languages to believe that it is easier for someone who already speaks one foreign language to learn another one (item 10). Perhaps learners of Japanese who had studied another language were surprised to find themselves working hard to learn Japanese despite expectations that it would be an easier task given their knowledge of another foreign language.

Learners of Spanish are less likely than their peers studying other languages to believe that they would approach a native speaker to practice speaking Spanish (item 12) and less likely to believe that getting to know native speakers of Spanish is an important motivating factor for them (item 31). Both these beliefs should give pause to instructors of Spanish, since there are probably more speakers of Spanish in the United States than speak-

## Table 11

## CATEGORY I: THE DIFFICULTY OF LEARNING A FOREIGN LANGUAGE

| Item No. | Mean RI | Mean PC | $\mathrm{t}(\mathrm{df})$ | $\mathrm{p}<.0016$ |
| :--- | :---: | :---: | :---: | :---: |
| 4 | 2.545 | 2.338 | $+3.848(994)$ | .000 |
| 6 | 2.486 | 1.828 | $+11.217(997)$ | .000 |
| 14 | 3.082 | 3.600 | $-7.312(984)$ | .000 |
| 24 | 3.453 | 3.853 | $-5.908(994)$ | .000 |
| 28 | 2.826 | 3.127 | $-4.245(958)$ | .000 |

Key: RI = research institution; $\mathrm{PC}=$ private college

## Table 12

CATEGORY II: APTITUDE FOR LANGUAGE LEARNING

| Item No. | Mean RI | Mean PC | $\mathrm{t}(\mathrm{df})$ | $\mathrm{p}<.0011$ |
| :--- | :---: | :---: | :---: | :---: |
| 2 | 2.580 | 2.264 | $+4.883(998)$ | .000 |
| 10 | 2.358 | 2.158 | $+3.475(994)$ | .001 |
| 15 | 2.576 | 2.247 | $+5.703(993)$ | .000 |
| 29 | 3.635 | 3.875 | $-4.278(958)$ | .000 |

Key: $\mathrm{RI}=$ research institution; $\mathrm{PC}=$ private college

## Table 13

CATEGORY III: THE NATURE OF THE LANGUAGE LEARNING PROCESS

| Item No. | Mean RI | Mean PC | $\mathrm{t}(\mathrm{df})$ | $\mathrm{p}<.0016$ |
| :--- | :---: | :---: | :---: | :---: |
| 16 | 3.335 | 3.678 | $-5.490(995)$ | .000 |
| 26 | 3.794 | 4.357 | $-10.581(994)$ | .000 |
| Key: $\mathrm{RI}=$ research institution; $P C=$ private college |  |  |  |  |

## Table 14

CATEGORY IV: LEARNING AND COMMUNICATIVE STRATEGIES

| Item No. | Mean RI | Mean PC | $\mathrm{t}(\mathrm{df})$ | $\mathrm{p}<.00125$ |
| :--- | :---: | :---: | :---: | :---: |
| 7 | 2.617 | 2.282 | $+5.453(995)$ | .000 |
| 9 | 4.130 | 4.421 | $-5.962(997)$ | .000 |
| 12 | 3.065 | 2.689 | $+5.933(995)$ | .000 |
| 13 | 2.522 | 2.048 | $+7.978(995)$ | .000 |
| 19 | 2.838 | 3.186 | $-4.674(991)$ | .000 |
| 21 | 2.494 | 2.168 | $+5.428(995)$ | .000 |

Key: RI = research institution; $\mathrm{PC}=$ private college

Table 15
CATEGORY V: MOTIVATIONS FOR LANGUAGE LEARNING

| Item No. | Mean RI | Mean PC | $\mathrm{t}(\mathrm{df})$ | $\mathrm{p}<.0025$ |
| :--- | :---: | :---: | :---: | :---: |
| 23 | 2.379 | 1.872 | $+8.269(996)$ | .000 |
| 27 | 2.567 | 2.221 | $+5.322(959)$ | .000 |
| 30 | 3.481 | 3.917 | $-6.720(958)$ | .000 |
| 31 | 2.462 | 2.031 | $+7.310(957)$ | .000 |

Key: RI = research institution; $\mathrm{PC}=$ private college
ers of any other language represented in this study. It is, therefore, more likely for students of Spanish to come into contact with native speakers of Spanish than it is for students of the other languages represented in the study; it would be desirable, of course, to encourage learners of all foreign languages to look forward to opportunities to interact with native speakers, whether in the United States or abroad.

Lastly, it is especially important to identify numerous differences in the beliefs about language learning held by learners in a research institution and learners in small private colleges (as reported in Tables 11 to 15). Learners in the research institution were less likely than their peers at the small private colleges to believe that they will ultimately learn to speak the target language well (item 6), less likely to believe that some people are born with foreign language aptitude (item 2), and less likely to believe that they themselves have foreign language aptitude (item 15). They were similarly less likely than their peers in the small private colleges to believe that previous foreign language leaming experience is indicative of success in future foreign language learning endeavors (item 10). Students at the research institution were less likely than their peers at the private colleges to believe in the importance of pronunciation (item 7) and the value of language laboratory practice (item 21). These students were also less likely to believe that they would approach a native speaker to practice speaking the target language (item 12) or that it is acceptable to guess if they don't know a needed word (item 13). Students at the research institution were less optimistic about opportunities to use the target language (items 23 and 27) than their peers at the private colleges and less interested in learning the target language to get to know its speakers better (item 31). It is possible that many of these beliefs may be attributed to larger class sizes (up to 25 students in each class) in the research institution; it would be interesting to collect data at a smaller research institution, one in which class sizes are more similar to those at the private colleges studied in the present investigation.

Students in the research institution were more likely
than their peers at the private colleges to believe that it is easier to speak than to understand a foreign language (item 24) and that it is easier to read and write in the target language than to speak and understand it (item 28), although this last belief clearly varies for learners of Japanese, regardless of the nature of the learners' institution, as noted above. Learners at the research institution were more likely than their peers at the private colleges to believe that learning a foreign language is mostly a matter of learning new vocabulary (item 16) or mostly a matter of translating from English (item 26), and that people who are good at math and science are not good at foreign language learning (item 29). In accordance with the beliefs held by many of these learners that guessing is not a useful strategy (item 13), learners at the research institution were more likely than their peers at private colleges to believe that errors lead to fossilization (item 19) and that one shouldn't say anything in the foreign language until one can say it correctly (item 9).

On virtually every point of comparison, learners at the research institution were more likely to hold beliefs counterproductive to successful language learning when compared with the beliefs more likely to be held by their peers at the small private colleges. It is true that the category of learners at a research institution consists, for the present study, entirely of learners at a single research institution, and the category of learners at private colleges consists of learners at only two colleges; therefore, it cannot be said that these findings are necessarily generalizable to other institutions. Nonetheless, on several of these items (items 2, 13, 19, and 28), learners at the University of Texas at Austin were shown to have similar beliefs (Horwitz 1988), as reported in Table 1. Moreover, for numerous items (items 2, 7, 9-10, 12-13, 15-16, 19, 21, 23-24, 26, 28-29, and 31 ), the trends reported in the present study correspond to those reported for learners of French at the University of California at Berkeley (Kern 1995), although this correspondence is not statistically confirmed here because Kern did not include raw data in his published study. It is, accordingly, quite possible that instructors at
research institutions may need to be especially vigilant with regard to learners' beliefs about language learning. It is impossible to determine, however, on the basis of the data collected for this study, whether these learners' belief systems are formed before they apply to college (thus determining, perhaps, or contributing to their decision to attend a research institution rather than a small college) or if they are a product of the educational system in the research institution itself. This certainly is an important area for future investigation.

## Practical Implications

It may be difficult to reduce to a sentence or two the practical implications of this study. The difference in beliefs among students surveyed by Horwitz (1988) and students surveyed by this author, was shown to be significant in 24 of the 33 items of the BALLI (or for approximately $73 \%$ of the items on that instrument.) While the differences were shown to be statistically significant, instructors examining the data may well wonder what, in fact, is the import of a statistical difference of one-half point or one point on a 5point Likert scale. This author will not argue that instru ctors can look at that kind of difference and translate this knowledge into a particular pedagogical approach or decision, such as implementing more or fewer translation activities because the respondents in the current study viewed such activities as the most important part of language learning (item 26). In fact, it is important to note that the items in the BALLI do not bear inherent meaning relative to productive approaches to language learning. For instance, a woman who believes that women are better language learners than men (item 22) might have the self-confidence necessary to succeed at her language learning, making this item predictive of language learning success for her, while a man who believes the same thing might lack the self-confidence necessary to succeed at his language learning, making the same item predictive of language learning failure for him. Accordingly, as Horwitz has argued (1988), instructors and researchers cannot interpret the BALLI with sums of scores for the items in each category nor can they move on from any interpretation of the BALLI to concrete action plans.

An instructor of any foreign language teaches a particular language to particular students at a particular level in a particular institution. It cannot be argued that any study of learners outside a given instructor's class, no matter how large the sample size, is a reliable predictor of the beliefs characteristic of the students in that particular instructor's class. It is certainly not this author's intention to provide instructors reading the present study any concrete suggestions as to the nature of beliefs they might expect to encounter among the students in their classrooms.

Despite the lack of easily identified strategies or peda-
gogical decisions instructors could implement in the classroom on the basis of this research, the research does suggest very important considerations every instructor should take into account. First, every learner has a concrete set of beliefs, some of which may be productive, others counterproductive, for the language learning enterprise. The BALLI can be a useful instrument for engaging students in selfreflection about the language learning process and their attitudes toward this process. Instructors can administer the BALLI or some other survey instrument to collect information about their students' beliefs and make decisions based on the data they collect from their own classes as to whether, for example, they should engage the students in a discussion of the relative importance of pronunciation compared with grammar with regard to command of the spoken language at the given level of instruction. Second, on the basis of the data presented here, instructors can most certainly reject the notion that their students' beliefs can be reliably predicted by analyses of data collected among learners of languages other than the given target language, among learners at levels of instuction other than the given level of instruction, and in institutions different from the given institution. Third, the present study demonstrates that while previous research in the area of beliefs about language learning has been of fundamental importance to the language teaching field, this research has been limited in critically important ways. Researchers interested in continuing investigations in this area in the future should be certain to include a mix of languages in their research design (both commonly and less commonly taught languages), a mix of levels of instruction (both first year and other levels), and a mix of institutions (large and small, public and private) in order to make certain that their research is as broadly generalizable as possible. Inasmuch as many institutions and individuals are increasing the time, energy, and resources they dedicate to teaching less commonly taught languages, from Azeri to Zulu, working with learners who vary from conventional learner profiles and using materials and media that may depart from conventional instructional materials, it behooves the research community to broaden its focus to be inclusive of all the different kinds of languages, learners, and institutions that are part of the lan-guage-learning matrix in North America today.

## Conclusions and Suggestions for Further Research

The analysis of the data supports the rejection of the null hypotheses: In 99 items (three different analyses of the 33 items in all five of Horwitz's categories), the statistical analysis identified 40 instances in which learners of the different observed groups (FY/NFY, CTL/LCTL, RI/PC) held beliefs that were not similar to those of their peers in the group with which they were compared, representing near-
ly $42 \%$ of all the items in the three comparisons. The three different null hypotheses had different rejection rates. The first null hypothesis, that there is no relationship between beliefs about language learning and level of instruction, was rejected in 11 of the 33 items compared, for a rate of approximately $33 \%$. The second null hypothesis, that there is no relationship between beliefs about language leaming and language or type of language studied, was rejected in eight of the 33 items compared, for a rate of approximate-
ly $24 \%$. The third null hypothesis, that there is no relationship between beliefs about language learning and the nature of the institution (large research institution or small private college) in which learners are studying, was rejected in 21 of the 33 items compared, for a rate of almost $66 \%$. Thus, it would seem that the institutional affiliation of the learner is the strongest of the factors examined in the present study.

One must, however, be cautioned against leaping to

## Table 16

CHARACTERISTIC BELIEFS, BY LANGUAGE STUDIED

| Language or Language Group | Item No. | Mean for Learners of This Language | Mean for All Other Learners in Study | t (df) | $\mathrm{p}<.00016$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| African | 3 | 2.3478 | 1.7561 | + 3.514 (997) | . 000 |
| Arabic | 4 | 1.8298 | 2.4805 | - 5.198 (994) | . 000 |
| Arabic | 12 | 2.3191 | 2.9211 | - 4.007 (995) | . 000 |
| Arabic | 23 | 1.5745 | 2.1735 | - 4.050 (996) | . 000 |
| Arabic | 30 | 4.2326 | 3.6587 | + 3.600 (958) | . 000 |
| Arabic | 31 | 1.7442 | 2.2849 | - 3.733 (957) | . 000 |
| Chinese | 4 | 1.6849 | 2.5103 | -8.266 (994) | . 000 |
| Chinese | 7 | 2.0685 | 2.4946 | - 3.603 (995) | . 000 |
| Chinese | 11 | 2.5753 | 2.0703 | + 4.531 (998) | . 000 |
| Chinese | 21 | 1.9452 | 2.3755 | - 3.708 (995) | . 000 |
| Chinese | 23 | 1.6986 | 2.1805 | - 4.004 (996) | . 000 |
| Chinese | 28 | 3.4028 | 2.9313 | + 3.499 (958) | . 000 |
| French | 4 | 2.7890 | 2.3548 | + 6.829 (994) | . 000 |
| French | 27 | 2.6215 | 2.3440 | + 3.527 (959) | . 000 |
| German | 7 | 2.9483 | 2.3995 | + 5.768 (995) | . 000 |
| German | 23 | 2.5690 | 2.0896 | + 4.923 (996) | . 000 |
| German | 27 | 2.7339 | 2.3638 | + 3.587 (959) | . 000 |
| Italian | 4 | 3.0000 | 2.4164 | + 5.105 (994) | . 000 |
| Japanese | 4 | 1.9111 | 2.5343 | - 8.192 (994) | . 000 |
| Japanese | 10 | 2.5522 | 2.2216 | + 3.931 (994) | . 000 |
| Japanese | 27 | 1.9600 | 2.4725 | - 5.311 (959) | . 000 |
| Japanese | 28 | 3.3280 | 2.9126 | + 3.946 (958) | . 000 |
| Russian | 4 | 2.0000 | 2.5340 | -0 7.431 (994) | . 000 |
| Spanish | 4 | 3.1000 | 2.3160 | + 11.695 (994) | . 000 |
| Spanish | 12 | 3.2294 | 2.8235 | + 4.813 (995) | . 000 |
| Spanish | 31 | 2.5241 | 2.2055 | + 4.025 (957) | . 000 |

unwarranted conclusions regarding the role that any of these factors (commonly or less commonly taught language, level of instruction, nature of institution) might play in shaping the beliefs of learners or as a predictor of learner beliefs, because the differences in beliefs on each of the items considered was not examined for that purpose. It is, of course, entirely possible that one of the factors considered in the present study may play an important role in shaping learner beliefs or may be an important predictor of learner beliefs, but that remains to be determined.

Furthermore, the present study has only considered these three factors (commonly vs. less commonly taught languages, level of instruction, and nature of institution), while other factors, such as demographic variables (gender or age, for example), learner variables (learning styles or personality traits, for example), other institutional variables (secular vs. religious orientation, for example) may play just as or more important roles than the factors considered here. The data in this study were collected from learners of certain less commonly taught languages; learners of other less commonly taught languages might be shown to have beliefs different from those demonstrated in the present study. The analysis for this study was designed in part around a contrast of learners at the first-year level and learners at all other levels of instruction; subsequent studies might show that there are significant differences in the beliefs held by learners at different levels of instruction above the first-year level.

Finally, the data for this study were collected in only three institutions, only one of which was a research institution; further research, with data collected at more institutions in more diverse locations, is certainly warranted to replicate or refute these findings. The data reported above suggest that learners at research institutions might be more likely to hold counterproductive beliefs about language learning, but these data were collected at a single research institution. It is possible that these beliefs are more reflective of that particular institution than an entire class of institutions; further studies should be conducted to determine if the pattern holds in other research institutions.

Even with all these rese nations, the present study provides evidence suggesting that learner beliefs about foreign language learning are at least as diverse as the languages, levels, and institutions in which the learners are studying and that teachers and researchers cannot assume that beliefs identified in one group of learners are representative of the beliefs of learners of different languages, at different levels, or at different kinds of institutions. It is hoped that there will be more investigations in this area in order to help foreign language instructors and researchers better understand the factors that shape or can help predict the beliefs of foreign language learners, so that classroom instruction can be as effective and productive as possible.

While the research studies conducted by Horwitz (1988, 1989, 1990) and Kern (1995) were groundbreaking, they must serve as a point of departure, not a point of a rrival, for future studies of learners' beliefs about language learning. This author welcomes a continuing discussion of learners' beliefs about language learning, a discussion as complex and varied as the learners, the variety of languages they study, the levels at which they study, and, most especially, the institutions in which they study. Research on beliefs of learners at the high school level before and after enrollment in different kinds of postsecondary institutions are particularly needed in order to help determine the source of the beliefs of students in a research institution. Furthemore, additional research is needed in the area of instructor intervention. Kern (1995) showed that changes in learners' beliefs in the course of a few weeks of instru ction were shifts "away from those of their instructors .... [suggesting] that in certain domains teachers' beliefs bear little, if any relationship to students' beliefs" (81). Clearly, more research is needed to determine effective strategies for instructors to engage learners in a productive re-examination of beliefs about language learning. Such affective "re-education" might go far towards improving learner outcomes at any level of instruction, as suggested by Mantle-Bromley (1995), Oxford, Ehrman, and Lavine (1991), and others. Ongoing research in these areas will certainly improve the design and delivery of foreign language instruction for all languages.

## Notes

1. The author thanks anonymous referees for their suggestions, and Al Cohen and Jim Wollack of the University of Wisconsin-Madison Testing and Evaluation Service for their statistical advice. All errors are the author's responsibility.
2. See, however, Kuntz (1996) and Oh (1996).
3. The modified BALLI has been called the Kuntz-Rifkin Inventory (BALLI) and is decribed by Kuntz (1996, 84-85, 273-75). The BALLI retains the sequence of the BALLI survey in order to ensure that any differences in the results cannot be attributed to a difference in the sequencing of questions; similarly, the wording of questions in the BALLI is retained in the BALLI in order to make comparisons between the data generated by the BALLI (Horwitz 1988, 1989, 1990; Kern 1995) and the data generated in this study. The BALLI also uses the same response scales as the BALLI.
4. It is not this author's intention to question the validity of this classification system or of the survey instrument itself, although others may certainly choose to do so. Rather, it is the author's intention to use the BALLI and Horwitz's classification system to examine more closely the assumptions underlying research on learners' beliefs about language leaming.
5. It is important to note here that items are never compared with other items within the same category; similarly, items are never compared across category lines. Although comparisons are made on the same category several times on the basis of dif-
ferent populations examined (learners of commonly vs. less commonly taught languages; learners at a large public institution vs. learners at a small liberal arts college; learners in a first-year class vs. learners on any other level of instruction), the research design allows for no more than a $5 \%$ probability of a type I error with $\alpha$ set at a total of .05 .

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## Appendix A

## Beliefs about Language Learning Inventory (BALLI)

For questions $1-3$, please read the following statements and mark your answer sheet with the one number which corresponds most closely to your assessment of each statement according to the following scale:
(A) strongly agree, (B) agree, (C) neither agree nor disagree, (D) disagree, (E) strongly disagree

1. It is easier for children than adults to learn a foreign language.
2. Some people are born with a special ability which helps them learn a foreign language.
3. Some languages are easier to learn than others.
4. The language I am trying to learn is (A) a very difficult language, (B) a difficult language, (C) a language of medium difficulty, (D) an easy language, (E) a very easy language.

For questions 5-13, please read the statements below and mark your answer sheet with the one number which corresponds most closely to your assessment of each statement according to the following scale:
(A) strongly agree, (B) agree, (C) neither agree nor disagree, (D) disagree, (E) strongly disagree
5. The language I am trying to learn is structured in the same way as English.
6. I believe that I will ultimately learn to speak this language very well.
7. It is important to speak a foreign language with an excellent accent.
8. It is necessary to know the foreign culture in order to speak the foreign language.
9. You shouldn't say anything in the foreign language until you can say it correctly.
10. It is easier for someone who already speaks a foreign language to learn another one.
11. It is better to learn a foreign language in the foreign country.
12. If I heard someone speaking the language I am trying to learn I would go up to them so that I could practice speaking the language.
13. It's okay to guess if you don't know a word in the foreign language.
14. If someone spent one hour a day learning a language,
how long would it take him/her to become fluent? (A) less than a year, (B) $1-2$ years, (C) 3-5 years, (D) 5-10 years, (E) you can't learn a language in 1 hour a day.
**********************************************
For questions 15-34, please read the statements below and mark your answer sheet with the one number which corresponds most closely to your assessment of each statement according to the following scale:
(A) strongly agree, (B) agree, (C) neither agree nor disagree, (D) disagree, (E) strongly disagree
15. I have foreign language aptitude.
16. Learning a foreign language is mostly a matter of learning a lot of new vocabulary words.
17. It is important to repeat and practice a lot.
18. I feel self-conscious speaking the foreign language in front of other people.
19. If you are allowed to make mistakes in the beginning it will be hard to get rid of them later on.
20. Learning a foreign language is mostly a matter of learning a lot of grammarrules.
21. It is important to practice in the language laboratory.
22. Women are better than men at learning foreign languages.
23. If I get to speak this language very well, I will have many opportunities to use it.
24. It is easier to speak than understand a foreign language.
25. Learning a foreign language is different from learning other school subjects.
26. Learning a foreign language is mostly a matter of translating from English.
27. If I learn to speak this language very well, it will help me get a good job.
28. It is easier to read and write this language than to speak and understand it.
29. People who are good at math and science are not good at learning foreign languages.
30. Americans think that it is important to speak a foreign language.
31. I would like to learn this language so that I can get to know its speakers better.
32. People who speak more than one language well are very intelligent.
33. Americans are good at learning foreign languages.
34. Everyone can learn to speak a foreign language.

## Appendix B

## Frequencies and Percentages for Each Item and Response Category

|  | TOTAL |  | FY |  | NFY |  | CT |  | LCT |  | RI |  | PC |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Item 01 |  | 97 | 447 |  | 550 |  | 505 |  | 492 |  | 539 |  | 458 |  |
| SA | 504 | 0.502 | 199 | 0.445 | 305 | 0.555 | 265 | 0.525 | 239 | 0.486 | 248 | 0.46 | 256 | 0.559 |
| A | 355 | 0.354 | 176 | 0.394 | 179 | 0.325 | 163 | 0.323 | 192 | 0.39 | 209 | 0.388 | 146 | 0.319 |
| N |  | 0.091 |  | 0.107 |  | 0.078 | 52 | 0.103 | 39 | 0.079 | 57 | 0.106 | 34 | 0.074 |
| D | 42 | 0.042 |  | 0.049 | 20 | 0.036 | 23 | 0.046 | 19 | 0.039 | 22 | 0.041 | 20 | 0.044 |
| SD | 5 | 0.005 | 2 | 0.004 | 3 | 0.005 | 2 | 0.004 | 3 | 0.006 | 3 | 0.006 | 2 | 0.004 |
| Item 02 | 1000 |  | 449 |  | 551 |  | 506 |  | 494 |  | 541 |  | 459 |  |
| SA | 171 | 0.170 |  | 0.116 |  | 0.216 | 91 | 0.18 | 80 | 0.162 | 72 | 0.133 | 99 | 0.216 |
| A | 424 | 0.422 | 181 | 0.403 | 243 | 0.441 | 194 | 0.383 | 230 | 0.466 | 209 | 0.386 | 215 | 0.468 |
| N | 243 | 0.242 | 122 | 0.272 | 121 | 0.22 | 135 | 0.267 | 108 | 0.219 | 155 | 0.287 | 88 | 0.192 |
| D | 123 | 0.123 |  | 0.167 | 48 | 0.087 | 63 | 0.125 | 60 | 0.121 | 84 | 0.155 | 39 | 0.085 |
| SD | 39 | 0.039 |  | 0.042 |  | 0.036 | 23 | 0.045 | 16 | 0.032 | 21 | 0.039 | 18 | 0.039 |
| Item 03 | 999 |  | 448 |  | 551 |  | 506 |  | 494 |  | 541 |  | 458 |  |
| SA | 402 | 0.400 |  | 0.355 |  | 0.441 | 189 | 0.374 | 213 | 0.431 | 224 | 0.414 | 178 | 0.389 |
| A | 477 | 0.475 |  | 0.527 | 241 | 0.437 | 265 | 0.524 | 212 | 0.429 | 264 | 0.488 | 213 | 0.465 |
| N | 77 | 0.077 |  | 0.083 |  | 0.073 | 38 | 0.075 | 39 | 0.079 | 33 | 0.061 | 44 | 0.096 |
| D | 34 | 0.034 |  | 0.027 | 22 | 0.04 | 12 | 0.024 | 22 | 0.045 | 15 | 0.028 | 1 | 0.002 |
| SD | 9 | 0.009 |  | 0.009 | 5 | 0.009 | 2 | 0.004 | 7 | 0.014 | 5 | 0.009 | 4 | 0.009 |
| Item 04 | 996 |  | 447 |  | 549 |  | 504 |  | 492 |  | 538 |  | 458 |  |
| Very Diff. | 131 | 0.130 |  | 0.11 | 82 | 0.149 | 11 | 0.022 | 120 | 0.244 | 50 | 0.093 | 81 | 0.177 |
| Difficult | 385 | 0.383 | 173 | 0.387 | 212 | 0.386 | 136 | 0.27 | 249 | 0.506 | 205 | 0.381 | 180 | 0.393 |
| Medium | 386 | 0.384 | 184 | 0.412 | 202 | 0.368 | 284 | 0.563 | 102 | 0.207 | 225 | 0.418 | 161 | 0.352 |
| Easy | 89 | 0.089 |  | 0.087 | 50 | 0.091 | 69 | 0.137 | 20 | 0.041 | 56 | 0.104 | 33 | 0.072 |
| Very Easy | 5 | 0.005 | 2 | 0.004 | 3 | 0.005 | 4 | 0.008 | 1 | 0.002 | 2 | 0.004 | 3 | 0.007 |
| Item 05 | 999 |  | 449 |  | 550 |  | 505 |  | 494 |  | 540 |  | 459 |  |
| SA | 10 | 0.010 | 4 | 0.009 | 6 | 0.011 | 8 | 0.016 | 2 | 0.004 | 7 | 0.013 | 3 | 0.007 |
| A | 158 | 0.157 | 59 | 0.131 | 99 | 0.18 | 121 | 0.24 | 37 | 0.075 | 95 | 0.176 | 63 | 0.137 |
| N | 233 | 0.232 | 133 | 6.045 | 100 | 5 | 165 | 7.174 | 68 | 3.579 | 148 | 6.727 | 85 | 4.25 |
| D | 431 | 0.429 | 187 | 0.416 | 244 | 0.444 | 193 | 0.382 | 238 | 0.482 | 215 | 0.398 | 216 | 0.471 |
| SD | 167 | 0.166 |  | 0.147 | 101 | 0.184 | 18 | 0.036 | 149 | 0.302 | 75 | 0.139 | 92 | 0.2 |
| Item 06 | 999 |  | 449 |  | 550 |  | 505 |  | 494 |  | 541 |  | 458 |  |
| SA | 269 | 0.268 |  | 0.174 | 191 | 0.347 | 120 | 0.238 | 149 | 0.302 | 82 | 0.152 | 187 | 0.408 |
| A | 399 | 0.397 | 199 | 0.443 | 200 | 0.364 | 194 | 0.384 | 205 | 0.415 | 211 | 0.39 | 188 | 0.41 |
| N | 223 | 0.222 | 125 | 0.278 |  | 0.178 | 115 | 0.228 | 108 | 0.219 | 160 | 0.296 | 63 | 0.138 |
| D | 94 | 0.94 | 42 | 0.094 | 52 | 0.095 | 70 | 0.139 | 24 | 0.049 | 79 | 0.146 | 15 | 0.033 |
| SD | 14 | 0.014 | 5 | 0.011 | 5 | 0.009 | 6 | 0.012 | 8 | 0.016 | 9 | 0.017 | 5 | 0.011 |
| Item 07 | 997 |  | 448 |  | 549 |  | 504 |  | 493 |  | 540 |  | 457 |  |
| SA | 153 | 0.152 | 61 | 0.136 | 92 | 0.168 | 61 | 0.121 | 92 | 0.187 | 61 | 0.113 | 92 | 0.201 |
| A | 414 | 0.412 | 175 | 0.391 | 239 | 0.435 | 212 | 0.421 | 202 | 0.41 | 204 | 0.378 | 210 | 0.46 |
| N | 260 | 0.259 | 125 | 0.279 | 135 | 0.246 | 130 | 0.258 | 130 | 0.264 | 167 | 0.309 | 93 | 0.204 |

Key: $\mathrm{SA}=$ strongly agree; $\mathrm{A}=$ agree; $\mathrm{N}=$ neither agree nor disagree; $\mathrm{D}=$ disagree; $\mathrm{SD}=$ strongly disagree; $\mathrm{FY}=$ first year; $\mathrm{NFY}=$ not first year;
$\mathrm{CT}=$ commonly taught languages; $\mathrm{LCT}=$ less commonly taught languages; $\mathrm{RI}=$ research institution; $\mathrm{PC}=$ private college

|  | TOTAL |  | FY |  | NFY |  | CT |  | LCT |  | RI |  | PC |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| D | 155 | 0.154 | 80 | 0.179 | 75 | 0.137 | 92 | 0.183 | 63 | 0.128 | 97 | 0.18 | 58 | 0.127 |
| SD | 15 | 0.015 | 7 | 0.016 | 8 | 0.015 | 9 | 0.018 | 6 | 0.012 | 11 | 0.02 | 4 | 0.009 |
| Item 08 | 996 |  | 447 |  | 549 |  | 505 |  | 491 |  | 540 |  | 456 |  |
| SA | 135 | 0.134 | 52 | 0.116 | 83 | 0.151 | 49 | 0.097 | 86 | 0.175 | 52 | 0.096 | 83 | 0.182 |
| A | 411 | 0.409 | 180 | 0.403 | 231 | 0.421 | 199 | 0.394 | 212 | 0.432 | 235 | 0.435 | 176 | 0.386 |
| N | 224 | 0.223 | 106 | 0.237 | 118 | 0.215 | 124 | 0.246 | 100 | 0.204 | 124 | 0.23 | 100 | 0.219 |
| D | 198 | 0.197 | 95 | 0.213 | 103 | 0.188 | 188 | 0.372 | 80 | 0.163 | 113 | 0.209 | 85 | 0.186 |
| SD | 28 | 0.028 | 14 | 0.031 | 14 | 0.026 | 15 | 0.03 | 13 | 0.026 | 16 | 0.03 | 12 | 0.026 |
| Item 09 | 999 |  | 448 |  | 551 |  | 506 |  | 493 |  | 540 |  | 459 |  |
| SA | 9 | 0.009 | 4 | 0.009 | 5 | 0.009 | 6 | 0.012 | 3 | 0.006 | 8 | 0.015 | 1 | 0.002 |
| A | 24 | 0.024 | 13 | 0.029 | 11 | 0.02 | 12 | 0.024 | 12 | 0.024 | 17 | 0.031 | 7 | 0.015 |
| N | 82 | 0.082 | 47 | 0.105 | 35 | 0.064 | 50 | 0.099 | 220 | 0.446 | 53 | 0.098 | 29 | 0.063 |
| D | 464 | 0.462 | 216 | 0.482 | 248 | 0.45 | 244 | 0.482 | 226 | 0.458 | 281 | 0.52 | 183 | 0.399 |
| SD | 420 | 0.418 | 168 | 0.375 | 252 | 0.457 | 194 | 0.383 | 493 | 1 | 181 | 0.335 | 239 | 0.521 |
| Item 10 | 996 |  | 447 |  | 549 |  | 504 |  | 492 |  | 539 |  | 457 |  |
| SA | 181 | 0.180 | 66 | 0.148 | 115 | 0.209 | 103 | 0.204 | 78 | 0.159 | 83 | 0.154 | 98 | 0.214 |
| A | 487 | 0.485 | 219 | 0.49 | 268 | 0.488 | 249 | 0.494 | 238 | 0.484 | 255 | 0.473 | 2323 | 5.083 |
| N | 228 | 0.227 | 104 | 0.233 | 124 | 0.226 | 105 | 0.208 | 123 | 0.25 | 136 | 0.252 | 92 | 0.201 |
| D | 82 | 0.082 | 49 | 0.11 | 33 | 0.06 | 43 | 0.085 | 39 | 0.079 | 55 | 0.102 | 27 | 0.059 |
| SD | 18 | 0.018 | 4 | 0.009 | 9 | 0.016 | 4 | 0.008 | 14 | 0.028 | 10 | 0.019 | 8 | 0.018 |
| Item 11 | 997 |  | 448 |  | 549 |  | 504 |  | 493 |  | 539 |  | 458 |  |
| SA | 290 | 0.289 | 109 | 0.243 | 181 | 0.33 | 150 | 0.298 | 140 | 0.284 | 165 | 0.306 | 125 | 0.273 |
| A | 389 | 0.387 | 191 | 0.426 | 198 | 0.361 | 200 | 0.397 | 189 | 0.383 | 220 | 0.408 | 169 | 0.369 |
| N | 249 | 0.248 | 111 | 0.248 | 138 | 0.251 | 123 | 0.244 | 126 | 0.256 | 126 | 0.234 | 123 | 0.269 |
| D | 59 | 0.059 | 31 | 0.069 | 28 | 0.051 | 27 | 0.054 | 32 | 0.065 | 24 | 0.045 | 35 | 0.076 |
| SD | 10 | 0.010 | 6 | 0.013 | 4 | 0.007 | 4 | 0.008 | 6 | 0.012 | 4 | 0.007 | 6 | 0.013 |
| Item 12 | 997 |  | 448 |  | 549 |  | 504 |  | 493 |  | 540 |  | 457 |  |
| SA | 80 | 0.080 | 21 | 0.047 | 59 | 0.107 | 32 | 0.063 | 48 | 0.097 | 27 | 0.05 | 53 | 0.116 |
| A | 280 | 0.279 | 125 | 0.279 | 155 | 0.282 | 115 | 0.228 | 165 | 0.335 | 128 | 0.237 | 152 | 0.333 |
| N | 354 | 0.353 | 177 | 0.395 | 177 | 0.322 | 182 | 0.361 | 172 | 0.349 | 202 | 0.374 | 152 | 0.333 |
| D | 233 | 0.232 | 101 | 0.225 | 132 | 0.24 | 140 | 0.278 | 93 | 0.189 | 149 | 0.276 | 84 | 0.184 |
| SD | 50 | 0.050 | 24 | 0.054 | 26 | 0.047 | 35 | 0.069 | 15 | 0.03 | 34 | 0.063 | 16 | 0.035 |
| Item 13 | 997 |  | 447 |  | 550 |  | 505 |  | 492 |  | 540 |  | 457 |  |
| SA | 190 | 0.189 | 52 | 0.116 | 138 | 0.251 | 93 | 0.184 | 97 | 0.197 | 63 | 0.117 | 127 | 0.278 |
| A | 465 | 0.463 | 202 | 0.452 | 263 | 0.478 | 242 | 0.479 | 223 | 0.453 | 245 | 0.454 | 220 | 0.481 |
| N | 205 | 0.204 | 113 | 0.253 | 92 | 0.167 | 97 | 0.192 | 108 | 0.22 | 130 | 0.241 | 75 | 0.164 |
| D | 122 | 0.122 | 74 | 0.166 | 48 | 0.087 | 67 | 0.133 | 55 | 0.112 | 91 | 0.169 | 31 | 0.068 |
| SD | 15 | 0.015 |  | 0.013 | 9 | 0.016 | 6 | 0.012 | 9 | 0.018 | 11 | 0.02 | 4 | 0.009 |
| Item 14 | 986 |  | 442 |  | 544 |  | 499 |  | 487 |  | 534 |  | 452 |  |
| $\geq 1$ Year | 36 | 0.036 | 27 | 0.061 | 9 | 0.017 | 18 | 0.036 | 18 | 0.037 | 24 | 0.045 | 12 | 0.027 |
| 1-2 Years | 212 | 0.211 | 119 | 0.269 | 93 | 0.171 | 122 | 0.244 | 90 | 0.185 | 130 | 0.243 | 82 | 0.181 |
| 3-5 Years | 347 | 0.346 | 179 | 0.405 | 168 | 0.309 | 182 | 0.365 | 165 | 0.339 | 230 | 0.431 | 117 | 0.259 |
| 5-10 Yrs | 183 | 0.182 | 61 | 0.138 | 122 | 0.224 | 76 | 0.152 | 107 | 0.22 | 78 | 0.146 | 105 | 0.232 |
| Not Poss. | 208 | 0.207 | 56 | 0.127 | 152 | 0.279 | 101 | 0.202 | 107 | 0.22 | 72 | 0.135 | 136 | 0.301 |

Key: SA = strongly agree; $\mathrm{A}=$ agree; $\mathrm{N}=$ neither agree nor disagree; $\mathrm{D}=$ disagree; $\mathrm{SD}=$ strongly disagree; $\mathrm{FY}=$ first year; $\mathrm{NFY}=$ not first year;
$\mathrm{CT}=$ commonly taught languages; $\mathrm{LCT}=$ less commonly taught languages; $\mathrm{RI}=$ research institution; $\mathrm{PC}=$ private college

|  | TOTAL |  | FY |  | NFY |  | CT |  | LCT |  | RI |  | PC |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Item 15 | 995 |  | 446 |  | 549 |  | 505 |  | 490 |  | 538 |  | 457 |  |
| SA | 142 | 0.141 |  | 0.112 | 92 | 0.168 | 67 | 0.133 | 75 | 0.153 | 57 | 0.106 | 457 | 0.186 |
| A | 423 | 0.421 | 170 | 0.381 | 253 | 0.461 | 210 | 0.416 | 213 | 0.435 | 198 | 0.368 | 225 | 0.492 |
| N | 318 | 0.317 | 178 | 0.399 | 140 | 0.255 | 169 | 0.335 | 149 | 0.304 | 214 | 0.398 | 104 | 0.228 |
| D | 89 | 0.089 |  | 0.078 | 54 | 0.098 | 46 | 0.091 | 43 | 0.088 | 54 | 0.1 | 35 | 0.077 |
| SD | 23 | 0.023 | 13 | 0.029 | 10 | 0.018 | 13 | 0.026 | 10 | 0.02 | 15 | 0.028 | 8 | 0.018 |
| Item 16 | 997 |  | 447 |  | 550 |  | 505 |  | 492 |  | 540 |  | 457 |  |
| SA | 19 | 0.019 |  | 0.025 | 8 | 0.015 | 11 | 0.022 | 8 | 0.016 | 12 | 0.022 | 7 | 0.015 |
| A | 191 | 0.190 | 92 | 0.206 | 99 | 0.18 | 91 | 0.18 | 100 | 0.203 | 130 | 0.241 | 61 | 0.133 |
| N | 190 | 0.189 | 102 | 0.228 | 88 | 0.16 | 99 | 0.196 | 91 | 0.185 | 108 | 0.2 | 82 | 0.179 |
| D | 474 | 0.472 | 268 | 0.6 | 206 | 0.375 | 249 | 0.493 | 225 | 0.457 | 245 | 0.454 | 229 | 0.501 |
| SD | 123 | 0.123 | 77 | 0.172 | 46 | 0.084 | 55 | 0.109 | 68 | 0.138 | 45 | 0.083 | 78 | 0.171 |
| Item 17 | 999 |  | 448 |  | 551 |  | 506 |  | 493 |  | 540 |  | 459 |  |
| SA | 621 | 0.619 | 292 | 0.652 | 329 | 0.597 | 312 | 0.617 | 309 | 0.627 | 329 | 0.609 | 292 | 0.636 |
| A | 357 | 0.356 | 150 | 0.335 | 207 | 0.376 | 183 | 0.362 | 174 | 0.353 | 199 | 0.369 | 158 | 0.344 |
| N | 17 | 0.017 | 5 | 0.011 | 12 | 0.022 | 8 | 0.016 | 9 | 0.018 | 10 | 0.019 | 7 | 0.015 |
| D | 3 | 0.003 | 0 | 0 | 3 | 0.005 | 3 | 0.006 | 0 | 0 | 2 | 0.004 | 1 | 0.002 |
| SD | 1 | 0.001 | 1 | 0.002 | 0 | 0 | 0 | 0 | 1 | 0.002 | 0 | 0 | 1 | 0.002 |
| Item 18 | 998 |  | 447 |  | 551 |  | 506 |  | 492 |  | 540 |  | 458 |  |
| SA | 128 | 0.127 |  | 0.105 |  | 0.147 | 76 | 0.15 | 52 | 0.106 | 69 | 0.128 | 59 | 0.129 |
| A | 388 | 0.386 | 165 | 0.369 | 223 | 0.405 | 179 | 0.354 | 209 | 0.425 | 215 | 0.398 | 173 | 0.378 |
| N | 217 | 0.216 | 114 | 0.255 | 103 | 0.187 | 101 | 0.2 | 116 | 0.236 | 122 | 0.226 | 95 | 0.207 |
| D | 211 | 0.210 |  | 0.226 | 110 | 0.2 | 124 | 0.245 | 87 | 0.177 | 111 | 0.206 | 100 | 0.218 |
| SD | 54 | 0.054 |  | 0.045 |  | 0.062 | 26 | 0.051 | 28 | 0.057 | 23 | 0.043 | 31 | 0.068 |
| Item 19 | 993 |  | 445 |  | 548 |  | 503 |  | 490 |  | 537 |  | 456 |  |
| SA | 108 | 0.108 |  | 0.128 |  | 0.093 | 58 | 0.115 | 50 | 0.102 | 68 | 0.127 | 40 | 0.088 |
| A | 283 | 0.282 | 141 | 0.317 | 142 | 0.259 | 151 | 0.3 | 132 | 0.269 | 176 | 0.328 | 107 | 0.235 |
| N | 193 | 0.192 |  | 0.193 | 107 | 0.195 | 86 | 0.171 | 107 | 0.218 | 103 | 0.192 | 90 | 0.197 |
| D | 321 | 0.320 | 129 | 0.29 | 192 | 0.35 | 162 | 0.322 | 159 | 0.324 | 155 | 0.289 | 166 | 0.364 |
| SD | 88 | 0.088 |  | 0.072 | 56 | 0.102 | 46 | 0.091 | 42 | 0.086 | 35 | 0.065 | 53 | 0.116 |
| Item 20 | 995 |  | 446 |  | 549 |  | 503 |  | 492 |  | 539 |  | 456 |  |
| SA | 24 | 0.024 |  | 0.022 | 14 | 0.026 | 12 | 0.024 | 12 | 0.024 | 19 | 0.035 | 5 | 0.011 |
| A | 217 | 0.216 | 106 | 0.238 |  | 0.202 | 122 | 0.243 | 95 | 0.193 | 152 | 0.282 | 65 | 0.143 |
| N | 262 | 0.261 | 127 | 0.285 | 135 | 0.246 | 135 | 0.268 | 127 | 0.258 | 147 | 0.273 | 115 | 0.252 |
| D | 394 | 0.392 | 169 | 0.379 | 225 | 0.41 | 188 | 0.374 | 206 | 0.419 | 197 | 0.365 | 197 | 0.432 |
| SD | 98 | 0.098 | 34 | 0.076 | 64 | 0.117 | 46 | 0.091 | 52 | 0.106 | 24 | 0.045 | 74 | 0.162 |
| Item 21 | 997 |  | 447 |  | 550 |  | 504 |  | 493 |  | 538 |  | 459 |  |
| SA | 175 | 0.174 | 94 | 0.21 | 81 | 0.147 | 77 | 0.153 | 98 | 0.199 | 74 | 0.138 | 101 | 0.22 |
| A | 448 | 0.446 | 226 | 0.506 | 222 | 0.404 | 217 | 0.431 | 231 | 0.469 | 228 | 0.424 | 220 | 0.479 |
| N | 258 | 0.257 | 96 | 0.215 | 162 | 0.295 | 151 | 0.3 | 107 | 0.217 | 152 | 0.283 | 106 | 0.231 |
| D | 88 | 0.088 | 24 | 0.054 | 64 | 0.116 | 45 | 0.089 | 43 | 0.087 | 64 | 0.119 | 24 | 0.052 |
| SD | 28 | 0.028 | 7 | 0.016 | 21 | 0.038 | 14 | 0.028 | 14 | 0.028 | 20 | 0.037 | 8 | 0.017 |

Key: $\mathrm{SA}=$ strongly agree; $\mathrm{A}=$ agree; $\mathrm{N}=$ neither agree nor disagree; $\mathrm{D}=$ disagree; $\mathrm{SD}=$ strongly disagree; $\mathrm{FY}=$ first year; $\mathrm{NFY}=$ not first year;
$\mathrm{CT}=$ commonly taught languages; $\mathrm{LCT}=$ less commonly taught languages; $\mathrm{RI}=$ research institution; $\mathrm{PC}=$ private college

|  | TOTAL | FY | NFY | CT | LCT | RI | PC |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Item 22 | 997 | 446 | 551 | 505 | 492 | 538 | 459 |
| SA | 120.012 | $4 \quad 0.009$ | 80.015 | 80.016 | $4 \quad 0.008$ | 50.009 | $7 \quad 0.015$ |
| A | 500.050 | 190.043 | 310.056 | $23 \quad 0.046$ | $27 \quad 0.055$ | 250.046 | $25 \quad 0.054$ |
| N | 4080.406 | 1880.422 | 2200.399 | 1960.388 | 2120.431 | 2300.428 | 1780.388 |
| D | $306 \quad 0.305$ | 1530.343 | 1530.278 | 1620.321 | 1440.293 | 1750.325 | 1310.285 |
| SD | 2210.220 | 820.184 | $139 \quad 0.252$ | $118 \quad 0.234$ | 1050.213 | 1030.191 | $118 \quad 0.257$ |
| Item 23 | 998 | 447 | 551 | 506 | 492 | 539 | 459 |
| SA | 2920.291 | 1130.253 | 1790.325 | 1230.243 | 1690.343 | 1160.215 | 1760.383 |
| A | $393 \quad 0.391$ | $178 \quad 0.398$ | 2150.39 | $190 \quad 0.375$ | 2030.413 | 2050.38 | 1880.41 |
| N | 2070.206 | 1010.226 | 1060.192 | 1190.235 | $88 \quad 0.179$ | 1320.245 | $75 \quad 0.163$ |
| D | $88 \quad 0.088$ | $45 \quad 0.101$ | $43 \quad 0.078$ | $62 \quad 0.123$ | $26 \quad 0.053$ | $70 \quad 0.13$ | $18 \quad 0.039$ |
| SD | $18 \quad 0.018$ | $10 \quad 0.022$ | $8 \quad 0.015$ | $12 \quad 0.024$ | $6 \quad 0.012$ | $16 \quad 0.03$ | 20.004 |
| Item 24 | 996 | 446 | 550 | 505 | 491 | 539 | 457 |
| SA | $34 \quad 0.034$ | 190.043 | $15 \quad 0.027$ | $15 \quad 0.03$ | $19 \quad 0.039$ | $27 \quad 0.05$ | $7 \quad 0.015$ |
| A | $147 \quad 0.146$ | $89 \quad 0.2$ | 580.105 | $80 \quad 0.158$ | $67 \quad 0.136$ | $98 \quad 0.182$ | $49 \quad 0.107$ |
| N | $187 \quad 0.186$ | 930.209 | $94 \quad 0.171$ | 840.166 | $103 \quad 0.21$ | $110 \quad 0.204$ | $77 \quad 0.168$ |
| D | $407 \quad 0.405$ | $164 \quad 0.368$ | 2430.442 | 2030.402 | 2040.415 | 2120.393 | 1950.427 |
| SD | 2210.220 | $81 \quad 0.182$ | $140 \quad 0.255$ | $123 \quad 0.244$ | $98 \quad 0.2$ | $92 \quad 0.171$ | $129 \quad 0.282$ |
| Item 25 | 995 | 445 | 550 | 505 | 490 | 538 | 457 |
| SA | 2770.276 | 1110.249 | 1660.302 | 1360.269 | 1410.288 | $147 \quad 0.273$ | $130 \quad 0.284$ |
| A | 5280.526 | 2440.548 | 2840.516 | 2750.545 | 2530.516 | 2970.552 | 2310.505 |
| N | 1030.103 | 550.124 | $48 \quad 0.087$ | 480.095 | 550.112 | 460.086 | $57 \quad 0.125$ |
| D | $76 \quad 0.076$ | $32 \quad 0.072$ | $44 \quad 0.08$ | $40 \quad 0.079$ | $36 \quad 0.073$ | $42 \quad 0.078$ | $34 \quad 0.074$ |
| SD | 110.011 | $3 \quad 0.007$ | $8 \quad 0.015$ | $6 \quad 0.012$ | $5 \quad 0.01$ | $6 \quad 0.011$ | $5 \quad 0.011$ |
| Item 26 | 996 | 446 | 550 | 506 | 490 | 539 | 457 |
| SA | $6 \quad 0.00 .6$ | $1 \quad 0.002$ | 50.009 | 20.004 | $4 \quad 0.008$ | $4 \quad 0.007$ | 20.004 |
| A | $67 \quad 0.067$ | 380.085 | 290.053 | 410.081 | $26 \quad 0.053$ | $57 \quad 0.106$ | $10 \quad 0.022$ |
| N | 1250.125 | $67 \quad 0.15$ | $58 \quad 0.105$ | $65 \quad 0.128$ | $60 \quad 0.122$ | $94 \quad 0.174$ | 310.068 |
| D | $469 \quad 0.467$ | $226 \quad 0.507$ | 2430.442 | 2450.484 | $224 \quad 0.457$ | 2750.51 | $194 \quad 0.425$ |
| SD | $329 \quad 0.328$ | $114 \quad 0.256$ | $215 \quad 0.391$ | 1530.302 | 1760.359 | $109 \quad 0.202$ | $220 \quad 0.481$ |
| Item 27 | 961 | 416 | 545 | 498 | 472 | 513 | 448 |
| SA | $198 \quad 0.197$ | $63 \quad 0.151$ | 1350.248 | $87 \quad 0.175$ | 1110.235 | $79 \quad 0.154$ | 1190.266 |
| A | 3340.333 | $138 \quad 0.332$ | 1960.36 | 1450.291 | $189 \quad 0.4$ | 1690.329 | 1650.368 |
| N | 2970.296 | 1440.346 | 1530.281 | $168 \quad 0.337$ | $129 \quad 0.273$ | 1750.341 | $122 \quad 0.272$ |
| D | 1050.105 | $61 \quad 0.147$ | $44 \quad 0.081$ | $70 \quad 0.141$ | $35 \quad 0.074$ | 750.146 | $30 \quad 0.067$ |
| SD | $27 \quad 0.027$ | $10 \quad 0.024$ | $17 \quad 0.031$ | $19 \quad 0.038$ | $8 \quad 0.017$ | 150.029 | $12 \quad 0.027$ |
| Item 28 | 960 | 416 | 544 | 489 | 471 | 512 | 448 |
| SA | $81 \quad 0.081$ | $25 \quad 0.06$ | 560.103 | $49 \quad 0.1$ | $32 \quad 0.068$ | 510.1 | $30 \quad 0.067$ |
| A | $275 \quad 0.274$ | 1090.262 | 1660.305 | 1560.319 | 1190.253 | 1630.318 | 1120.25 |
| N | $284 \quad 0.283$ | $154 \quad 0.37$ | $130 \quad 0.239$ | $129 \quad 0.264$ | $155 \quad 0.329$ | $149 \quad 0.291$ | $135 \quad 0.301$ |
| D | $235 \quad 0.234$ | 1060.255 | $129 \quad 0.237$ | $130 \quad 0.266$ | 1050.223 | $122 \quad 0.238$ | 1130.252 |
| SD | 850.085 | 220.053 | $63 \quad 0.116$ | $25 \quad 0.051$ | $60 \quad 0.127$ | 270.053 | $58 \quad 0.129$ |

Key: SA = strongly agree; $\mathrm{A}=$ agree; $\mathrm{N}=$ neither agree nor disagree; $\mathrm{D}=$ disagree; $\mathrm{SD}=$ strongly disagree; $\mathrm{FY}=$ first year; NFY = not first year;
$\mathrm{CT}=$ commonly taught languages; $\mathrm{LCT}=$ less commonly taught languages; $\mathrm{RI}=$ research institution; $\mathrm{PC}=$ private college

|  | TOTAL | FY | NFY | CT | LCT | RI | PC |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Item 29 | 960 | 416 | 544 | 489 | 471 | 512 | 448 |
| SA | $10 \quad 0.010$ | $5 \quad 0.012$ | 50.009 | $7 \quad 0.014$ | 30.006 | $10 \quad 0.02$ | 00 |
| A | 460.046 | 150.036 | $31 \quad 0.057$ | 190.039 | $27 \quad 0.057$ | 290.057 | $17 \quad 0.038$ |
| N | 3220.321 | $147 \quad 0.353$ | 1750.322 | 1520.311 | 1700.361 | 1820.355 | $140 \quad 0.313$ |
| D | 3810.379 | $179 \quad 0.43$ | 2020.371 | $199 \quad 0.407$ | 1820.386 | 2080.406 | 1730.386 |
| SD | 2010.200 | $70 \quad 0.168$ | 1310.241 | 1190.243 | $89 \quad 0.189$ | $83 \quad 0.162$ | 1180.263 |
| Item 30 | 960 | 416 | 544 | 488 | 472 | 512 | 448 |
| SA | $14 \quad 0.014$ | $5 \quad 0.012$ | $9 \quad 0.017$ | $7 \quad 0.014$ | $7 \quad 0.015$ | $7 \quad 0.014$ | $7 \quad 0.016$ |
| A | 1390.138 | $70 \quad 0.168$ | $69 \quad 0.127$ | $80 \quad 0.164$ | 590.125 | $108 \quad 0.211$ | 310.069 |
| N | 2050.204 | 1010.243 | 1040.191 | $94 \quad 0.193$ | 1110.235 | $118 \quad 0.23$ | $87 \quad 0.194$ |
| D | $380 \quad 0.378$ | $159 \quad 0.382$ | 2210.406 | 1990.408 | 1810.383 | $190 \quad 0.371$ | $190 \quad 0.424$ |
| SD | 2220.221 | 810.195 | 1410.259 | $108 \quad 0.221$ | $114 \quad 0.242$ | $89 \quad 0.174$ | $133 \quad 0.297$ |
| Item 31 | 959 | 415 | 544 | 489 | 470 | 511 | 448 |
| SA | 1920.191 | $67 \quad 0.161$ | $125 \quad 0.23$ | $73 \quad 0.149$ | 1190.253 | $61 \quad 0.119$ | 1310.292 |
| A | 4450.443 | 1820.439 | 2630.483 | 2120.434 | 2330.496 | $237 \quad 0.464$ | 2080.464 |
| N | $216 \quad 0.215$ | $116 \quad 0.28$ | $100 \quad 0.184$ | $126 \quad 0.258$ | $90 \quad 0.191$ | $138 \quad 0.27$ | $78 \quad 0.174$ |
| D | 920.092 | $47 \quad 0.113$ | $45 \quad 0.083$ | $66 \quad 0.135$ | $26 \quad 0.055$ | $66 \quad 0.129$ | $26 \quad 0.058$ |
| SD | $14 \quad 0.014$ | $3 \quad 0.007$ | 110.02 | $12 \quad 0.025$ | 20.004 | $9 \quad 0.018$ | $5 \quad 0.011$ |
| Item 32 | 957 | 416 | 541 | 486 | 471 | 510 | 447 |
| SA | $37 \quad 0.037$ | $8 \quad 0.019$ | $29 \quad 0.054$ | $18 \quad 0.037$ | $19 \quad 0.04$ | $19 \quad 0.037$ | $18 \quad 0.04$ |
| A | 2650.264 | $127 \quad 0.305$ | 1380.255 | $136 \quad 0.28$ | $129 \quad 0.274$ | 1520.298 | 1130.253 |
| N | 4850.483 | 2050.493 | $280 \quad 0.518$ | 2450.504 | $240 \quad 0.51$ | $249 \quad 0.488$ | $236 \quad 0.528$ |
| D | 1250.125 | $63 \quad 0.151$ | 620.115 | $64 \quad 0.132$ | $61 \quad 0.13$ | $74 \quad 0.145$ | $51 \quad 0.114$ |
| SD | 450.045 | $13 \quad 0.031$ | 320.059 | $23 \quad 0.047$ | $22 \quad 0.047$ | $16 \quad 0.031$ | 290.065 |
| Item 33 | 957 | 416 | 541 | 487 | 470 | 511 | 446 |
| SA | $9 \quad 0.009$ | 20.005 | $7 \quad 0.013$ | $4 \quad 0.008$ | 50.011 | $5 \quad 0.01$ | $4 \quad 0.009$ |
| A | $36 \quad 0.036$ | 150.036 | 210.039 | $22 \quad 0.045$ | $14 \quad 0.03$ | $22 \quad 0.043$ | $14 \quad 0.031$ |
| N | 5870.585 | $260 \quad 0.625$ | $327 \quad 0.604$ | $284 \quad 0.583$ | 3030.645 | $314 \quad 0.614$ | 2730.612 |
| D | 2490.248 | $105 \quad 0.252$ | 1440.266 | $136 \quad 0.279$ | 1130.24 | $132 \quad 0.258$ | $117 \quad 0.262$ |
| SD | $76 \quad 0.076$ | $34 \quad 0.082$ | $42 \quad 0.078$ | $41 \quad 0.084$ | $35 \quad 0.074$ | $38 \quad 0.074$ | $38 \quad 0.085$ |
| Item 34 | 960 | 416 | 544 | 488 | 472 | 512 | 448 |
| SA | $213 \quad 0.212$ | $93 \quad 0.224$ | $120 \quad 0.221$ | 1120.23 | 1010.214 | $104 \quad 0.203$ | $109 \quad 0.243$ |
| A | $506 \quad 0.504$ | 2310.555 | 2750.506 | $267 \quad 0.547$ | $239 \quad 0.506$ | $285 \quad 0.557$ | 2210.493 |
| N | $124 \quad 0.124$ | 520.125 | $72 \quad 0.132$ | $52 \quad 0.107$ | $72 \quad 0.153$ | $64 \quad 0.125$ | $60 \quad 0.134$ |
| D | $104 \quad 0.104$ | $34 \quad 0.082$ | $70 \quad 0.129$ | $50 \quad 0.102$ | $54 \quad 0.114$ | $52 \quad 0.102$ | $52 \quad 0.116$ |
| SD | 130.013 | $6 \quad 0.014$ | $7 \quad 0.013$ | $7 \quad 0.014$ | $6 \quad 0.013$ | $7 \quad 0.014$ | $6 \quad 0.013$ |

Key: $\mathrm{SA}=$ strongly agree; $\mathrm{A}=$ agree; $\mathrm{N}=$ neither agree nor disagree; $\mathrm{D}=$ disagree; $\mathrm{SD}=$ strongly disagree; $\mathrm{FY}=$ first year; $\mathrm{NFY}=$ not first year;
$\mathrm{CT}=$ commonly taught languages; $\mathrm{LCT}=$ less commonly taught languages; $\mathrm{RI}=$ research institution; $\mathrm{PC}=$ private college

## Appendix C

## Counts for BALLI Items by Categories and by Languages

|  | T | FY | NFY | CT | LCT | RI | PC | Afr | Ara | Chi | Fre | Ger | Ita | Jap | Rus | Spa |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Item 01 | 997 | 447 | 550 | 505 | 492 | 539 | 458 | 23 | 47 | 73 | 218 | 116 | 57 | 133 | 158 | 171 |
| SA | 504 | 199 | 305 | 265 | 239 | 248 | 256 | 11 | 21 | 36 | 118 | 64 | 25 | 63 | 82 | 83 |
| A | 355 | 176 | 179 | 163 | 192 | 209 | 146 | 10 | 20 | 24 | 72 | 36 | 21 | 62 | 55 | 55 |
| N | 91 | 48 | 43 | 52 | 39 | 57 | 34 | 2 | 4 | 9 | 20 | 10 | 5 | 4 | 15 | 22 |
| D | 42 | 22 | 20 | 23 | 19 | 22 | 20 | 0 | 2 | 3 | 7 | 6 | 5 | 4 | 5 | 10 |
| SD | 5 | 2 | 3 | 2 | 3 | 3 | 2 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 |
| Item 02 | 1000 | 449 | 551 | 506 | 494 | 541 | 459 | 23 | 47 | 73 | 219 | 116 | 57 | 135 | 158 | 171 |
| SA | 171 | 52 | 119 | 91 | 80 | 72 | 99 | 4 | 7 | 9 | 40 | 19 | 13 | 16 | 31 | 32 |
| A | 424 | 181 | 243 | 194 | 230 | 209 | 215 | 9 | 23 | 40 | 90 | 46 | 19 | 71 | 68 | 58 |
| N | 243 | 122 | 121 | 135 | 108 | 155 | 88 | 6 | 10 | 15 | 54 | 31 | 18 | 28 | 31 | 50 |
| D | 123 | 75 | 48 | 63 | 60 | 84 | 39 | 3 | 6 | 6 | 23 | 17 | 6 | 16 | 22 | 23 |
| SD | 39 | 19 | 20 | 23 | 16 | 21 | 18 | 1 | 1 | 3 | 12 | 3 | 1 | 4 | 6 | 8 |
| Item 03 | 999 | 448 | 551 | 506 | 494 | 541 | 458 | 23 | 47 | 73 | 219 | 116 | 57 | 134 | 158 | 171 |
| SA | 402 | 159 | 243 | 189 | 213 | 224 | 178 | 7 | 22 | 30 | 77 | 45 | 24 | 52 | 78 | 67 |
| A | 477 | 236 | 241 | 265 | 212 | 264 | 213 | 8 | 16 | 27 | 120 | 63 | 28 | 68 | 64 | 82 |
| N | 77 | 37 | 40 | 38 | 39 | 33 | 44 | 4 | 6 | 10 | 15 | 7 | 3 | 9 | 7 | 16 |
| D | 34 | 12 | 22 | 12 | 22 | 15 | 1 | 1 | 3 | 4 | 7 | 1 | 2 | 4 | 8 | 4 |
| SD | 9 | 4 | 5 | 2 | 7 | 5 | 4 | 3 | 0 | 2 | 0 | 0 | 0 | 1 | 1 | 2 |
| Item 04 | 996 | 447 | 549 | 504 | 492 | 538 | 458 | 22 | 47 | 73 | 218 | 116 | 57 | 135 | 157 | 170 |
| Very Diff. | 131 | 49 | 82 | 11 | 120 | 50 | 81 | 1 | 14 | 30 | 7 | 1 | 1 | 44 | 30 | 3 |
| Difficult | 385 | 173 | 212 | 136 | 249 | 205 | 180 | 10 | 27 | 36 | 56 | 56 | 9 | 66 | 100 | 24 |
| Medium | 386 | 184 | 202 | 284 | 102 | 225 | 161 | 10 | 6 | 7 | 132 | 53 | 36 | 19 | 24 | 99 |
| Easy | 89 | 39 | 50 | 69 | 20 | 56 | 33 | 1 | 0 | 0 | 22 | 6 | 11 | 5 | 3 | 41 |
| Very Easy | 5 | 2 | 3 | 4 | 1 | 2 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 3 |
| Item 05 | 999 | 449 | 550 | 505 | 494 | 540 | 459 | 23 | 47 | 73 | 218 | 116 | 57 | 135 | 158 | 171 |
| SA | 10 | 4 | 6 | 8 | 2 | 7 | 3 | 0 | 0 | 1 | 1 | 3 | 0 | 0 | 1 | 4 |
| A | 158 | 59 | 99 | 121 | 37 | 95 | 63 | 3 | 0 | 4 | 40 | 38 | 11 | 3 | 16 | 43 |
| N | 233 | 133 | 100 | 165 | 68 | 148 | 85 | 6 | 2 | 9 | 76 | 36 | 19 | 6 | 25 | 53 |
| D | 431 | 187 | 244 | 193 | 238 | 215 | 216 | 12 | 27 | 36 | 93 | 34 | 24 | 58 | 81 | 66 |
| SD | 167 | 66 | 101 | 18 | 149 | 75 | 92 | 2 | 18 | 23 | 8 | 5 | 3 | 68 | 35 | 5 |
| Item 06 | 999 | 449 | 550 | 505 | 494 | 541 | 458 | 23 | 47 | 73 | 219 | 116 | 57 | 135 | 158 | 170 |
| SA | 269 | 78 | 191 | 120 | 149 | 82 | 187 | 2 | 22 | 28 | 65 | 21 | 17 | 33 | 46 | 34 |
| A | 399 | 199 | 200 | 194 | 205 | 211 | 188 | 14 | 18 | 32 | 84 | 41 | 20 | 58 | 63 | 6 |
| N | 223 | 125 | 98 | 115 | 108 | 160 | 63 | 6 | 5 | 11 | 44 | 34 | 14 | 34 | 38 | 37 |
| D | 94 | 42 | 52 | 70 | 24 | 79 | 15 | 1 | 2 | 1 | 25 | 19 | 4 | 8 | 8 | 26 |
| SD | 14 | 5 | 5 | 6 | 8 | 9 | 5 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 3 | 4 |

Key: T = total; FY = first year; NFY = not first year; CT = commonly taught languages; $\mathrm{RI}=$ less commonly taught languages; $\mathrm{RI}=$ research institution; $\mathrm{PC}=\mathrm{private}$ college; Afr = African; Ara = Arabic; Chi = Chinese; Fre = French; Ger = German; Ita = Italian; Jap = Japanese; Rus = Russian; Spa = Spanish; SA = strongly agree; A = agree; $\mathrm{N}=$ neither agree nor disagree; $\mathrm{D}=$ disagree; $\mathrm{SD}=$ strongly disagree

|  | T | FY | NFY | CT | LCT | RI | PC | Afr | Ara | Chi | Fre | Ger | Ita | Jap | Rus | Spa |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Item 07 | 997 | 448 | 549 | 504 | 493 | 540 | 457 | 22 | 47 | 73 | 218 | 116 | 57 | 135 | 158 | 170 |
| SA | 153 | 61 | 92 | 61 | 92 | 61 | 92 | 4 | 13 | 21 | 35 | 7 | 7 | 25 | 22 | 19 |
| A | 414 | 175 | 239 | 212 | 202 | 204 | 210 | 6 | 16 | 31 | 96 | 38 | 23 | 63 | 63 | 78 |
| N | 260 | 125 | 135 | 130 | 130 | 167 | 93 | 10 | 11 | 17 | 55 | 30 | 14 | 34 | 45 | 45 |
| D | 155 | 80 | 75 | 92 | 63 | 97 | 58 | 2 | 6 | 5 | 28 | 36 | 11 | 13 | 25 | 28 |
| SD | 15 | 7 | 8 | 9 | 6 | 11 | 4 | 0 | 1 | 0 | 4 | 5 | 2 | 0 | 3 | 0 |
| Item 08 | 996 | 447 | 549 | 505 | 491 | 540 | 456 | 22 | 47 | 73 | 219 | 116 | 57 | 134 | 157 | 170 |
| SA | 135 | 52 | 83 | 49 | 86 | 52 | 83 | 0 | 13 | 19 | 26 | 7 | 9 | 24 | 21 | 16 |
| A | 411 | 180 | 231 | 199 | 212 | 235 | 176 | 13 | 17 | 27 | 84 | 56 | 26 | 56 | 73 | 59 |
| N | 224 | 106 | 118 | 124 | 100 | 124 | 100 | 5 | 8 | 19 | 52 | 24 | 9 | 34 | 25 | 48 |
| D | 198 | 95 | 103 | 188 | 80 | 113 | 85 | 4 | 8 | 7 | 53 | 23 | 11 | 17 | 32 | 42 |
| SD | 28 | 14 | 14 | 15 | 13 | 16 | 12 | 0 | 1 | 1 | 4 | 6 | 2 | 3 | 6 | 5 |
| Item 09 | 999 | 448 | 551 | 506 | 493 | 540 | 459 | 22 | 47 | 73 | 219 | 116 | 57 | 135 | 158 | 171 |
| SA | 9 | 4 | 5 | 6 | 3 | 8 | 1 | 0 | 0 | 1 | 2 | 2 | 0 | 1 | 1 | 2 |
| A | 24 | 13 | 11 | 12 | 12 | 17 | 7 | 0 | 1 | 1 | 6 | 2 | 2 | 5 | 3 | 4 |
| N | 82 | 47 | 35 | 50 | 220 | 53 | 29 | 3 | 3 | 3 | 23 | 6 | 5 | 8 | 10 | 21 |
| D | 464 | 216 | 248 | 244 | 226 | 281 | 183 | 13 | 21 | 27 | 100 | 65 | 20 | 62 | 76 | 79 |
| SD | 420 | 168 | 252 | 194 | 493 | 181 | 239 | 6 | 22 | 41 | 88 | 41 | 30 | 59 | 68 | 65 |
| Item 10 | 996 | 447 | 549 | 504 | 492 | 539 | 457 | 22 | 47 | 73 | 218 | 116 | 57 | 134 | 158 | 170 |
| SA | 181 | 66 | 115 | 103 | 78 | 83 | 98 | 0 | 9 | 11 | 45 | 20 | 12 | 16 | 30 | 38 |
| A | 487 | 219 | 268 | 249 | 238 | 255 | 2323 | 15 | 25 | 26 | 111 | 56 | 38 | 54 | 79 | 82 |
| N | 228 | 104 | 124 | 105 | 123 | 136 | 92 | 4 | 7 | 27 | 41 | 29 | 4 | 45 | 36 | 35 |
| D | 82 | 49 | 33 | 43 | 39 | 55 | 27 | 2 | 5 | 6 | 21 | 9 | 3 | 12 | 11 | 13 |
| SD | 18 | 4 | 9 | 4 | 14 | 10 | 8 | 1 | 1 | 3 | 0 | 2 | 0 | 7 | 2 | 2 |
| Item 11 | 997 | 448 | 549 | 504 | 493 | 539 | 458 | 22 | 47 | 73 | 218 | 116 | 57 | 135 | 158 | 170 |
| SA | 290 | 109 | 181 | 150 | 140 | 165 | 125 | 9 | 14 | 6 | 67 | 41 | 20 | 35 | 55 | 42 |
| A | 389 | 191 | 198 | 200 | 189 | 220 | 169 | 9 | 16 | 28 | 85 | 42 | 22 | 58 | 56 | 73 |
| N | 249 | 111 | 138 | 123 | 126 | 126 | 123 | 3 | 14 | 31 | 56 | 26 | 8 | 33 | 37 | 41 |
| D | 59 | 31 | 28 | 27 | 32 | 24 | 35 | 1 | 2 | 7 | 9 | 5 | 6 | 8 | 8 | 13 |
| SD | 10 | 6 | 4 | 4 | 6 | 4 | 6 | 0 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 |
| Item 12 | 997 | 448 | 549 | 504 | 493 | 540 | 457 | 22 | 47 | 73 | 218 | 116 | 57 | 135 | 158 | 170 |
| SA | 80 | 21 | 59 | 32 | 48 | 27 | 53 | 0 | 8 | 11 | 17 | 6 | 5 | 9 | 15 | 9 |
| A | 280 | 125 | 155 | 115 | 165 | 128 | 152 | 12 | 21 | 22 | 58 | 27 | 14 | 45 | 51 | 30 |
| N | 354 | 177 | 177 | 182 | 172 | 202 | 152 | 8 | 14 | 25 | 76 | 43 | 21 | 48 | 56 | 63 |
| D | 233 | 101 | 132 | 140 | 93 | 149 | 84 | 2 | 3 | 14 | 56 | 35 | 16 | 29 | 28 | 49 |
| SD | 50 | 24 | 26 | 35 | 15 | 34 | 16 | 0 | 1 | 1 | 11 | 5 | 1 | 4 | 8 | 19 |
| Item 13 | 997 | 447 | 550 | 505 | 492 | 540 | 457 | 22 | 47 | 73 | 219 | 116 | 57 | 134 | 158 | 170 |
| SA | 190 | 52 | 138 | 93 | 97 | 63 | 127 | 3 | 13 | 22 | 44 | 16 | 13 | 20 | 26 | 33 |
| A | 465 | 202 | 263 | 242 | 223 | 245 | 220 | 14 | 25 | 35 | 115 | 49 | 22 | 51 | 76 | 78 |
| N | 205 | 113 | 92 | 97 | 108 | 130 | 75 | 3 | 6 | 13 | 33 | 36 | 17 | 43 | 25 | 28 |
| D | 122 | 74 | 48 | 67 | 55 | 91 | 31 | 2 | 3 | 3 | 24 | 13 | 5 | 17 | 25 | 30 |
| SD | 15 | 6 | 9 | 6 | 9 | 11 | 4 | 0 | 0 | 0 | 3 | 2 | 0 | 3 | 6 | 1 |

Key: T = total; FY = first year; NFY = not first year; CT = commonly taught languages; RI = less commonly taught languages; $\mathrm{RI}=$ research institution; $\mathrm{PC}=$ private college; Afr = African; Ara = Arabic; Chi = Chinese; Fre = French; Ger = German; Ita = Italian; Jap = Japanese; Rus = Russian; Spa = Spanish; SA = strongly agree; A = agree; $\mathrm{N}=$ neither agree nor disagree; $\mathrm{D}=$ disagree; $\mathrm{SD}=$ strongly disagree

|  | T | FY | NFY | CT | LCT | RI | PC | Afr | Ara | Chi | Fre | Ger | Ita | Jap | Rus | Spa |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Item 14 | 986 | 442 | 544 | 499 | 487 | 534 | 452 | 22 | 47 | 22 | 216 | 114 | 57 | 131 | 157 | 169 |
| $\geq 1$ Year | 36 | 27 | 9 | 18 | 18 | 24 | 12 | 2 | 3 | 2 | 7 | 3 | 1 | 3 | 7 | 8 |
| 1-2 Years | 212 | 119 | 93 | 122 | 90 | 130 | 82 | 5 | 9 | 8 | 58 | 24 | 18 | 25 | 25 | 40 |
| 3-5 Years | 347 | 179 | 168 | 182 | 165 | 230 | 117 | 12 | 14 | 27 | 71 | 40 | 20 | 37 | 55 | 71 |
| 5-10 Yrs | 183 | 61 | 122 | 76 | 107 | 78 | 105 | 1 | 13 | 13 | 29 | 19 | 10 | 37 | 32 | 28 |
| Not Poss. | 208 | 56 | 152 | 101 | 107 | 72 | 136 | 2 | 8 | 22 | 51 | 28 | 8 | 29 | 38 | 22 |
| Item 15 | 995 | 446 | 549 | 505 | 490 | 538 | 457 | 22 | 47 | 73 | 219 | 116 | 56 | 133 | 158 | 170 |
| SA | 142 | 50 | 92 | 67 | 75 | 57 | 85 | 3 | 8 | 11 | 35 | 10 | 8 | 13 | 31 | 22 |
| A | 423 | 170 | 253 | 210 | 213 | 198 | 225 | 9 | 23 | 32 | 103 | 41 | 30 | 54 | 65 | 66 |
| $\underline{\mathrm{N}}$ | 318 | 178 | 140 | 169 | 149 | 214 | 104 | 9 | 13 | 25 | 56 | 59 | 11 | 52 | 39 | 54 |
| D | 89 | 35 | 54 | 46 | 43 | 54 | 35 | 1 | 1 | 5 | 21 | 4 | 5 | 11 | 20 | 21 |
| SD | 23 | 13 | 10 | 13 | 10 | 15 | 8 | 0 | 2 | 0 | 4 | 2 | 2 | 3 | 3 | 7 |
| Item 16 | 997 | 447 | 550 | 505 | 492 | 540 | 457 | 22 | 47 | 73 | 218 | 116 | 57 | 134 | 158 | 171 |
| SA | 19 | 11 | 8 | 11 | 8 | 12 | 7 | 1 | 0 | 0 | 5 | 2 | 1 | 2 | 4 | 4 |
| A | 191 | 92 | 99 | 91 | 100 | 130 | 61 | 7 | 9 | 14 | 39 | 24 | 13 | 29 | 28 | 28 |
| N | 190 | 102 | 88 | 99 | 91 | 108 | 82 | 9 | 10 | 11 | 45 | 17 | 9 | 22 | 30 | 37 |
| D | 474 | 268 | 206 | 249 | 225 | 245 | 229 | 4 | 23 | 36 | 106 | 59 | 28 | 57 | 76 | 84 |
| SD | 123 | 77 | 46 | 55 | 68 | 45 | 78 | 1 | 5 | 12 | 23 | 14 | 6 | 24 | 20 | 18 |
| Item 17 | 999 | 448 | 551 | 506 | 493 | 540 | 459 | 22 | 47 | 73 | 219 | 116 | 57 | 135 | 158 | 171 |
| SA | 621 | 292 | 329 | 312 | 309 | 329 | 292 | 12 | 32 | 41 | 128 | 67 | 36 | 92 | 95 | 117 |
| A | 357 | 150 | 207 | 183 | 174 | 199 | 158 | 10 | 15 | 29 | 88 | 46 | 21 | 41 | 58 | 49 |
| N | 17 | 5 | 12 | 8 | 9 | 10 | 7 | 0 | 0 | 2 | 2 | 2 | 0 | 2 | 5 | 4 |
| D | 3 | 0 | 3 | 3 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| SD | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Item 18 | 998 | 447 | 551 | 506 | 492 | 540 | 458 | 22 | 47 | 73 | 219 | 116 | 57 | 134 | 158 | 171 |
| SA | 128 | 47 | 81 | 76 | 52 | 69 | 59 | 4 | 6 | 5 | 34 | 13 | 5 | 15 | 17 | 29 |
| A | 388 | 165 | 223 | 179 | 209 | 215 | 173 | 7 | 14 | 29 | 77 | 38 | 23 | 60 | 75 | 64 |
| N | 217 | 114 | 103 | 101 | 116 | 122 | 95 | 8 | 20 | 17 | 38 | 27 | 13 | 31 | 27 | 36 |
| D | 211 | 101 | 110 | 124 | 87 | 111 | 100 | 3 | 3 | 14 | 59 | 33 | 14 | 27 | 26 | 32 |
| SD | 54 | 20 | 34 | 26 | 28 | 23 | 31 | 0 | 4 | 8 | 11 | 5 | 2 | 1 | 13 | 10 |
| Item 19 | 993 | 445 | 548 | 503 | 490 | 537 | 456 | 22 | 47 | 73 | 218 | 116 | 57 | 133 | 157 | 169 |
| SA | 108 | 57 | 51 | 58 | 50 | 68 | 40 | 2 | 7 | 8 | 28 | 11 | 3 | 14 | 15 | 19 |
| A | 283 | 141 | 142 | 151 | 132 | 176 | 107 | 5 | 11 | 16 | 56 | 40 | 25 | 34 | 41 | 55 |
| N | 193 | 86 | 107 | 86 | 107 | 103 | 90 | 8 | 7 | 13 | 38 | 18 | 12 | 31 | 36 | 30 |
| D | 321 | 129 | 192 | 162 | 159 | 155 | 166 | 7 | 15 | 26 | 77 | 34 | 13 | 45 | 53 | 51 |
| SD | 88 | 32 | 56 | 46 | 42 | 35 | 53 | 0 | 7 | 10 | 19 | 13 | 4 | 9 | 12 | 14 |

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|  | T | FY | NFY | CT | LCT | RI | PC | Afr | Ara | Chi | Fre | Ger | Ita | Jap | Rus | Spa |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Item 20 | 995 | 446 | 549 | 503 | 492 | 539 | 456 | 22 | 47 | 73 | 218 | 116 | 57 | 134 | 158 | 169 |
| SA | 24 | 10 | 14 | 12 | 12 | 19 | 5 | 0 | 1 | 0 | 4 | 4 | 2 | 3 | 6 | 4 |
| A | 217 | 106 | 111 | 122 | 95 | 152 | 65 | 4 | 3 | 8 | 46 | 26 | 14 | 33 | 33 | 50 |
| N | 262 | 127 | 135 | 135 | 127 | 147 | 115 | 9 | 14 | 18 | 72 | 23 | 14 | 35 | 37 | 40 |
| D | 394 | 169 | 225 | 188 | 206 | 197 | 197 | 8 | 20 | 35 | 77 | 53 | 24 | 50 | 68 | 58 |
| SD | 98 | 34 | 64 | 46 | 52 | 24 | 74 | 1 | 9 | 12 | 19 | 10 | 3 | 13 | 14 | 17 |
| Item 21 | 997 | 447 | 550 | 504 | 493 | 538 | 459 | 22 | 47 | 73 | 218 | 116 | 57 | 135 | 158 | 170 |
| SA | 175 | 94 | 81 | 77 | 98 | 74 | 101 | 0 | 10 | 23 | 40 | 16 | 13 | 28 | 23 | 21 |
| A | 448 | 226 | 222 | 217 | 231 | 228 | 220 | 16 | 17 | 35 | 101 | 38 | 27 | 67 | 69 | 78 |
| N | 258 | 96 | 162 | 151 | 107 | 152 | 106 | 2 | 12 | 11 | 61 | 43 | 14 | 25 | 43 | 47 |
| D | 88 | 24 | 64 | 45 | 43 | 64 | 24 | 1 | 7 | 4 | 13 | 14 | 3 | 12 | 16 | 18 |
| SD | 28 | 7 | 21 | 14 | 14 | 20 | 8 | 3 | 1 | 0 | 3 | 5 | 0 | 3 | 7 | 6 |
| Item 22 | 997 | 446 | 551 | 505 | 492 | 538 | 459 | 22 | 46 | 73 | 219 | 116 | 57 | 135 | 158 | 170 |
| SA | 12 | 4 | 8 | 8 | 4 | 5 | 7 | 0 | 0 | 1 | 3 | 2 | 0 | 2 | 1 | 3 |
| A | 50 | 19 | 31 | 23 | 27 | 25 | 25 | 2 | 3 | 1 | 12 | 2 | 6 | 7 | 8 | 9 |
| N | 408 | 188 | 220 | 196 | 212 | 230 | 178 | 9 | 16 | 30 | 80 | 46 | 19 | 57 | 81 | 70 |
| D | 306 | 153 | 153 | 162 | 144 | 175 | 131 | 9 | 14 | 19 | 71 | 39 | 26 | 40 | 36 | 52 |
| SD | 221 | 82 | 139 | 118 | 105 | 103 | 118 | 2 | 13 | 22 | 53 | 27 | 6 | 29 | 32 | 36 |
| Item 23 | 998 | 447 | 551 | 506 | 492 | 539 | 459 | 22 | 47 | 73 | 220 | 116 | 57 | 134 | 158 | 170 |
| SA | 292 | 113 | 179 | 123 | 169 | 116 | 176 | 3 | 26 | 37 | 49 | 16 | 13 | 45 | 44 | 58 |
| A | 393 | 178 | 215 | 190 | 203 | 205 | 188 | 9 | 15 | 24 | 81 | 43 | 21 | 61 | 73 | 66 |
| N | 207 | 101 | 106 | 119 | 88 | 132 | 75 | 6 | 6 | 10 | 60 | 34 | 12 | 27 | 27 | 25 |
| D | 88 | 45 | 43 | 62 | 26 | 70 | 18 | 4 | 0 | 1 | 24 | 21 | 7 | 1 | 13 | 17 |
| SD | 18 | 10 | 8 | 12 | 6 | 16 | 2 | 0 | 0 | 1 | 6 | 2 | 4 | 0 | 1 | 4 |
| Item 24 | 996 | 446 | 550 | 505 | 491 | 539 | 457 | 22 | 46 | 73 | 220 | 116 | 57 | 135 | 157 | 169 |
| SA | 34 | 19 | 15 | 15 | 19 | 27 | 7 | 2 | 2 | 2 | 4 | 4 | 2 | 2 | 9 | 7 |
| A | 147 | 89 | 58 | 80 | 67 | 98 | 49 | 4 | 5 | 9 | 33 | 23 | 9 | 20 | 20 | 24 |
| N | 187 | 93 | 94 | 84 | 103 | 110 | 77 | 9 | 7 | 18 | 34 | 21 | 7 | 31 | 31 | 29 |
| D | 407 | 164 | 243 | 203 | 204 | 212 | 195 | 6 | 21 | 31 | 97 | 37 | 22 | 58 | 65 | 69 |
| SD | 221 | 81 | 140 | 123 | 98 | 92 | 129 | 1 | 11 | 13 | 52 | 31 | 17 | 24 | 32 | 40 |
| Item 25 | 995 | 445 | 550 | 505 | 490 | 538 | 457 | 22 | 47 | 73 | 220 | 116 | 57 | 132 | 158 | 169 |
| SA | 277 | 111 | 166 | 136 | 141 | 147 | 130 | 4 | 14 | 22 | 47 | 39 | 18 | 29 | 53 | 50 |
| A | 528 | 244 | 284 | 275 | 253 | 297 | 231 | 11 | 25 | 34 | 123 | 63 | 30 | 70 | 83 | 89 |
| N | 103 | 55 | 48 | 48 | 55 | 46 | 57 | 5 | 5 | 14 | 27 | 7 | 4 | 19 | 8 | 14 |
| D | 76 | 32 | 44 | 40 | 36 | 42 | 34 | 2 | 2 | 3 | 21 | 5 | 5 | 12 | 12 | 14 |
| SD | 11 | 3 | 8 | 6 | 5 | 6 | 5 | 0 | 1 | 0 | 2 | 2 | 0 | 2 | 2 | 2 |

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|  | T | FY | NFY | CT | LCT | RI | PC | Afr | Ara | Chi | Fre | Ger | Ita | Jap | Rus | Spa |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Item 26 | 996 | 446 | 550 | 506 | 490 | 539 | 457 | 22 | 46 | 73 | 220 | 116 | 57 | 133 | 158 | 170 |
| SA | 6 | 1 | 5 | 2 | 4 | 4 | 2 | 0 | 0 | 1 | 2 | 0 | 1 | 1 | 1 | 0 |
| A | 67 | 38 | 29 | 41 | 26 | 57 | 10 | 0 | 0 | 2 | 14 | 14 | 5 | 6 | 13 | 13 |
| N | 125 | 67 | 58 | 65 | 60 | 94 | 31 | 4 | 4 | 5 | 22 | 19 | 10 | 19 | 18 | 24 |
| D | 469 | 226 | 243 | 245 | 224 | 275 | 194 | 13 | 20 | 31 | 111 | 52 | 24 | 63 | 73 | 82 |
| SD | 329 | 114 | 215 | 153 | 176 | 109 | 220 | 5 | 22 | 34 | 71 | 31 | 17 | 44 | 53 | 51 |
| Item 27 | 961 | 416 | 545 | 498 | 472 | 513 | 448 | 22 | 43 | 72 | 214 | 109 | 52 | 125 | 157 | 166 |
| SA | 198 | 63 | 135 | 87 | 111 | 79 | 119 | 1 | 8 | 20 | 28 | 15 | 6 | 37 | 39 | 44 |
| A | 334 | 138 | 196 | 145 | 189 | 169 | 165 | 7 | 24 | 27 | 72 | 25 | 13 | 59 | 58 | 48 |
| N | 297 | 144 | 153 | 168 | 129 | 175 | 122 | 7 | 7 | 20 | 76 | 47 | 23 | 27 | 45 | 45 |
| D | 105 | 61 | 44 | 70 | 35 | 75 | 30 | 6 | 3 | 2 | 29 | 18 | 10 | 1 | 13 | 23 |
| SD | 27 | 10 | 17 | 19 | 8 | 15 | 12 | 1 | 1 | 3 | 9 | 4 | 0 | 1 | 2 | 6 |
| Item 28 | 960 | 416 | 544 | 489 | 471 | 512 | 448 | 22 | 43 | 72 | 214 | 109 | 52 | 125 | 156 | 166 |
| SA | 81 | 25 | 56 | 49 | 32 | 51 | 30 | 2 | 2 | 2 | 19 | 12 | 3 | 5 | 18 | 18 |
| A | 275 | 109 | 166 | 156 | 119 | 163 | 112 | 4 | 16 | 12 | 80 | 32 | 9 | 32 | 46 | 44 |
| N | 284 | 154 | 130 | 129 | 155 | 149 | 135 | 11 | 10 | 26 | 50 | 30 | 19 | 32 | 56 | 49 |
| D | 235 | 106 | 129 | 130 | 105 | 122 | 113 | 4 | 10 | 19 | 57 | 31 | 16 | 29 | 27 | 42 |
| SD | 85 | 22 | 63 | 25 | 60 | 27 | 58 | 1 | 5 | 13 | 8 | 4 | 5 | 27 | 9 | 13 |
| Item 29 | 960 | 416 | 544 | 489 | 471 | 512 | 448 | 22 | 43 | 72 | 214 | 109 | 52 | 125 | 156 | 166 |
| SA | 10 | 5 | 5 | 7 | 3 | 10 | 0 | 1 | 0 | 0 | 2 | 1 | 0 | 2 | 0 | 4 |
| A | 46 | 15 | 31 | 19 | 27 | 29 | 17 | 2 | 4 | 2 | 10 | 3 | 3 | 9 | 7 | 6 |
| N | 322 | 147 | 175 | 152 | 170 | 182 | 140 | 9 | 17 | 23 | 62 | 30 | 19 | 50 | 52 | 60 |
| D | 381 | 179 | 202 | 199 | 182 | 208 | 173 | 8 | 13 | 28 | 90 | 44 | 23 | 42 | 68 | 65 |
| SD | 201 | 70 | 131 | 119 | 89 | 83 | 118 | 2 | 9 | 19 | 50 | 31 | 7 | 22 | 29 | 31 |
| Item 30 | 960 | 416 | 544 | 488 | 472 | 512 | 448 | 22 | 43 | 72 | 213 | 109 | 52 | 125 | 157 | 166 |
| SA | 14 | 5 | 9 | 7 | 7 | 7 | 7 | 0 | 0 | 1 | 4 | 2 | 2 | 3 | 1 | 1 |
| A | 139 | 70 | 69 | 80 | 59 | 108 | 31 | 5 | 2 | 2 | 35 | 14 | 10 | 22 | 18 | 31 |
| N | 205 | 101 | 104 | 94 | 111 | 118 | 87 | 8 | 5 | 22 | 39 | 25 | 9 | 36 | 31 | 30 |
| D | 380 | 159 | 221 | 199 | 181 | 190 | 190 | 6 | 17 | 29 | 38 | 41 | 20 | 44 | 65 | 75 |
| SD | 222 | 81 | 141 | 108 | 114 | 89 | 133 | 3 | 19 | 18 | 52 | 27 | 11 | 20 | 42 | 29 |
| Item 31 | 959 | 415 | 544 | 489 | 470 | 511 | 448 | 22 | 43 | 72 | 214 | 109 | 52 | 124 | 156 | 166 |
| SA | 192 | 67 | 125 | 73 | 119 | 61 | 131 | 6 | 19 | 20 | 35 | 10 | 11 | 26 | 36 | 28 |
| A | 445 | 182 | 263 | 212 | 233 | 237 | 208 | 11 | 17 | 40 | 96 | 56 | 22 | 65 | 78 | 60 |
| N | 216 | 116 | 100 | 126 | 90 | 138 | 78 | 3 | 6 | 9 | 52 | 28 | 11 | 29 | 32 | 46 |
| D | 92 | 47 | 45 | 66 | 26 | 66 | 26 | 2 | 1 | 2 | 27 | 12 | 8 | 3 | 10 | 27 |
| SD | 14 | 3 | 11 | 12 | 2 | 9 | 5 | 0 | 0 | 1 | 4 | 3 | 0 | 1 | 0 | 5 |
| Item 32 | 957 | 416 | 541 | 486 | 471 | 510 | 447 | 22 | 43 | 72 | 213 | 109 | 52 | 125 | 156 | 164 |
| SA | 37 | 8 | 29 | 18 | 19 | 19 | 18 | 2 | 2 | 2 | 7 | 2 | 0 | 4 | 9 | 9 |
| A | 265 | 127 | 138 | 136 | 129 | 152 | 113 | 4 | 14 | 19 | 55 | 26 | 19 | 34 | 38 | 55 |
| N | 485 | 205 | 280 | 245 | 240 | 249 | 236 | 12 | 20 | 42 | 114 | 58 | 24 | 65 | 77 | 73 |
| D | 125 | 63 | 62 | 64 | 61 | 74 | 51 | 3 | 4 | 7 | 25 | 18 | 8 | 15 | 24 | 21 |
| SD | 45 | 13 | 32 | 23 | 22 | 16 | 29 | 1 | 3 | 2 | 12 | 5 | 1 | 7 | 8 | 6 |

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|  | T | FY | NFY | CT | LCT | RI | PC | Afr | Ara | Chi | Fre | Ger | Ita | Jap | Rus | Spa |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Item 33 | 957 | 416 | 541 | 487 | 470 | 511 | 446 | 22 | 42 | 72 | 213 | 109 | 52 | 125 | 156 | 165 |
| SA | 9 | 2 | 7 | 4 | 5 | 5 | 4 | 0 | 0 | 2 | 1 | 1 | 0 | 2 | 1 | 2 |
| A | 36 | 15 | 21 | 22 | 14 | 22 | 14 | 1 | 1 | 3 | 11 | 4 | 4 | 4 | 1 | 7 |
| N | 587 | 260 | 327 | 284 | 303 | 314 | 273 | 15 | 21 | 48 | 136 | 55 | 29 | 88 | 102 | 93 |
| D | 249 | 105 | 144 | 136 | 113 | 132 | 117 | 4 | 15 | 16 | 50 | 38 | 17 | 24 | 37 | 48 |
| SD | 76 | 34 | 42 | 41 | 35 | 38 | 38 | 2 | 5 | 3 | 15 | 11 | 2 | 7 | 15 | 15 |
| Item 34 | 960 | 416 | 544 | 488 | 472 | 512 | 448 | 22 | 43 | 72 | 213 | 109 | 52 | 125 | 157 | 166 |
| SA | 213 | 93 | 120 | 112 | 101 | 104 | 109 | 5 | 13 | 22 | 53 | 24 | 3 | 26 | 32 | 35 |
| A | 506 | 231 | 275 | 267 | 239 | 285 | 221 | 13 | 20 | 25 | 114 | 61 | 34 | 65 | 81 | 92 |
| N | 124 | 52 | 72 | 52 | 72 | 64 | 60 | 3 | 6 | 16 | 27 | 11 | 7 | 22 | 18 | 14 |
| D | 104 | 34 | 70 | 50 | 54 | 52 | 52 | 1 | 4 | 9 | 18 | 10 | 7 | 11 | 22 | 22 |
| SD | 13 | 6 | 7 | 7 | 6 | 7 | 6 | 0 | 0 | 0 | 1 | 3 | 1 | 1 | 4 | 3 |

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