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UNIFORM STATISTICAL INFORMATION QUESTIONNAIRE: 1980

A SUPPLEMENTARY REPORT

Prepared by Park E. Leathers, James A. Sullivan and Jerome Bernstein

AMERICAN INSTITUTE OF CERTIFIED PUBLIC ACCOUNTANTS

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BIOGRAPHICAL NOTES

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HIGHLIGHTS

This report summarizes data obtained from candidates sitting for the May 1980 and November 1980 Uniform CPA Examinations. These data were last gathered in 1975.

The principal findings of the study are as follows:

- 1. The candidate population continued to rise rapidly in the past five years but at a somewhat lower rate than experienced from 1970 to 1975.
- 2. Approximately 15% of first-time May 1980 examination candidates passed all four sections of the examination; 28% earned partial credit, and 57% obtained no credit. Among repeat candidates, 25% passed all *remaining* sections, 24% earned some credit, and 51% received no credit. Of May 1980 candidates completing the examination, 25% were first-timers, 71% were repeat candidates with previous conditional credit, and 4% were repeat candidates with no previous credit. Considering all May 1980 candidates as one group, 9.5% passed all four sections at that sitting, 11.5% passed all remaining sections, 26% earned partial credit, and 53% earned no credit.
- 3. Repeat candidates were more successful than first-timers in auditing but were less successful than first-timers in accounting theory and accounting practice. Repeat candidates were more likely to earn credit because they were less impacted by conditioning requirements.
- 4. The long-term trend toward early sitting for the CPA Examination continued in 1980. Approximately three-quarters of first-time candidates were attending school or were separated from school for less than one year.
- 5. The increasing trend toward more advanced degrees did not continue in 1980. Of May first-time candidates, only 13.5% had advanced degrees, compared to 13.1% in 1975 and 8.6% in 1970. Candidates with graduate training continue to achieve above-average success on the examination.
- 6. Among first-time candidates with bachelor's degrees, 74% attended a college of business, 25% a liberal arts or non-business school, 18% a community (or junior) college, and only 5% a school of professional accounting. Corresponding figures for holders of advanced degrees were colleges of business 79%, liberal arts or non-business colleges 39%, community colleges 11%, and schools of professional accounting 11%. The primary school attended was accredited by the American Association of Collegiate Schools of Business for 55% of the holders of bachelor's degrees and 62% of the advanced-degree holders.
- 7. Candidates had slightly more academic training in accounting; 54% reported over 30 semester hours compared to 52% in 1975. Of candidates with both undergraduate and graduate training, 73% indicated more than 30 semester hours. Only 3% of candidates had 18 semester hours or less.
- 8. The typical first-time candidate had two introductory accounting courses, two or three financial accounting courses, one or two courses each in tax and cost, one in auditing, and one to three accounting electives. He or she also had two courses each in statistics and business law and one computer course; 75% of the candidates had one or more precalculus courses and 74% had calculus or another higher mathematics course.
- 9. Additional accounting courses improved examination performance—up to 42 hours, where diminishing returns set in. Similar relationships prevailed between pertinent individual courses and examination subjects.
- 10. Candidates with liberal arts or non-business backgrounds performed better on the examination than accounting and business majors. This was attributable to higher scholastic aptitude, as measured by SAT scores.

- 11. The majority of first-time candidates had no work experience or less than one year's experience. Twice as many first-time candidates had a year's experience in private accounting as had a year's experience in public accounting. But the majority of candidates completing the examination appear to be employed in public accounting.
- 12. Grade point averages continued to rise, particularly at the undergraduate level. Grades continued to be highly associated with examination performance. First-time candidates with grade point averages of 3.5 or higher were five times as likely to pass all sections of the examination as candidates with averages below 3.0.
- 13. Scores on academic aptitude and achievement tests were correlated significantly with CPA examination performance. Consistent with national trends, there was a slight decline among CPA candidates in the SAT scores reported for the 1980 study.
- 14. Over half of the candidates had some type of CPA coaching course. These courses continued to contribute to examination success. Additional hours of independent study—a category measured for the first-time in 1980—also contributed to examination success.
- 15. The 1980 candidates as a group chose accounting as a career earlier than the 1975 candidates. There was also some evidence that competent students were attracted earlier to the profession. Candidates continued to rank compensation as the most important factor in choosing a career.
- 16. Performance was highly correlated among examination sections. For those first-time candidates who passed auditing, the probability of earning full credit for all four examination sections was 55%, for accounting theory 38%, for business law 49%, and for accounting practice 45%.
- 17. The qualifications of candidates repeating the examination were somewhat lower than for first-time candidates, in terms of grade point averages and SAT scores. However, repeat candidates had more work experience, graduate training, semester hours of accounting, classroom hours of CPA coaching, and hours of independent study than first-time candidates had.
- 18. The five factors most associated with CPA examination success were graduate training, grade point averages, scores on aptitude and accounting achievement tests, participation in CPA coaching courses, and hours of independent study.

I. NATURE AND SCOPE OF STUDY

The USIQ Project

The Uniform Statistical Information Questionnaire is a joint undertaking of the state boards of accountancy and the American Institute of Certified Public Accountants (AICPA). It is conducted with the cooperation of the National Association of State Boards of Accountancy.

The primary objective of the USIQ study is to provide data to those preparing, administering, and grading the Uniform CPA Examination concerning the nature of the candidate body and any changes that have occurred since the last study. Data also are useful to regulators and legislators in determining the appropriateness of education, experience, and conditioning requirements, to prospective candidates evaluating their chances for success, and to educators and the profession-at-large in monitoring and seeking to improve the quality of prospective entrants.

The data for this project were supplied by candidates sitting for the May and November 1980 CPA Examinations. The last study was conducted for the May and November 1975 Examinations. Copies of the 1980 Uniform Statistical Information Questionnaire and instructions for its use are reproduced in the appendix.

The 1980 questionnaire included substantially all of the items for which data were collected in 1975. In addition, data were collected for the first time in 1980 in the following areas:

- 1. Type of higher educational institution attended, e.g., college of business, school of professional accounting, liberal arts college.
- 2. Name of college or university where candidate obtained major portion of accounting education.
- 3. Semester hours in selected college accounting courses, e.g., financial, cost.
- 4. Nature of work experience, e.g., auditing, tax.
- 5. Nature of CPA coaching course by examination section and classroom hours devoted to course.
- 6. Hours of independent study per examination section.

Data were collected for 68 different variables in 1980.

The candidate data have been arrayed against scores on individual examination sections and candidate status after examination in four separate volumes—May 1980 First-Time Candidates, May 1980 All Candidates, November 1980 First-Time Candidates, and November 1980 All Candidates. Each volume for First-Time Candidates consists of 213 tables; the All-Candidate volumes have 223 tables.

The four volumes of compiled data are being sent to state boards and other concerned parties. In addition, each state board receives four corresponding volumes summarizing data from that state or jurisdiction.

Purpose of Supplementary Report

This supplementary report serves as an interpretive summary for state boards (and other concerned parties) in using their jurisdictional volumes of data. It highlights the pertinent findings for those users and provides historical perspective by comparisons with prior studies.¹

¹Data on CPA Examination candidates were collected for five consecutive examinations from November 1964 to November 1966, in May and November 1970, and again in May and November 1975. The findings of previous surveys have been published in supplementary reports (such as this one) authored by Doyle Z. Williams (in 1968), Howard P. Sanders (in 1971) and by Park E. Leathers and James A. Sullivan (in 1978). Dr. Williams also presented "A Profile of CPA Candidates" in the January 1969 issue of *The Accounting Review* (pp. 153-164). Dr. Sanders summarized the 1970 findings in the December 1972 issue of *The Journal of Accountancy* (pp. 85-88). Based upon the 1970 data, Dr. Leathers prepared "Relationship of Test Scores to CPA Examination Performance," which appeared in the September 1972 issue of the *Journal of Accountancy* (pp.101-102).

This supplementary report is also intended as a general summary of the study for use by interested individuals who do not have access to the detailed volumes. Principal findings have been included here so that the report is complete in itself.

Study Methodology

Candidates were furnished questionnaires and instructions by individual state boards. State board officials forwarded completed questionnaires to the AICPA where the data were transferred to magnetic tape and then merged with candidate scores. Rather than requiring state boards to manually determine and affix "candidate status after examination," (as was done in the past) status was computed using a series of programs reflecting the individual state's conditioning requirements. The researchers also subjected the data to limited edit checks. The purpose of these was to identify contradictory or illogical reporting. Erroneous data were corrected where feasible, or the candidate was dropped from the analysis.

In computing status four separate examination outcomes were recognized, as follows:

- 1. Candidate did not receive conditional credit for any section at this examination.
- 2. Candidate earned conditional credit as a result of this sitting (or, having previously earned conditional credit, passed an additional one or more sections).
- 3. Candidate passed all sections for which eligible but had previously failed one or more sections.
- 4. Candidate passed entire examination at first sitting.

For purposes of this report data are presented in terms of No Credit (earned at this sitting), Partial Credit (earned at this sitting) and Full Credit (four parts for first-timers or the one to four remaining parts for repeat candidates).

Note that a candidate may earn a passing score for a section but still not receive any credit. For example, the candidate's jurisdiction may have conditioning requirements where two sections must be passed in order to obtain credit or a minimum score attained on sections failed.

As noted earlier, principal tables have been produced here, sometimes in condensed form, to provide a complete report. Besides showing results and associations in tabular form, the authors have computed two more compact statistics. The first of these (unique to this report) is the "success ratio" applicable to a particular examination section. This ratio indicates the degree of success for a particular group as compared to that experienced by the general candidate body. For example, a success ratio of 1.50 indicates that a candidate with a particular characteristic is 50% more likely to pass an examination section than the "average" candidate.

In addition, correlation coefficients have been computed to show relationships between characteristics and candidate scores. A positive correlation coefficient indicates that the characteristic contributes to examination success. A negative coefficient indicates that the characteristic is associated with poorer performance. Coefficients may range between +1, perfect direct association, and -1, perfect inverse association.

In discussing the correlation coefficients, it is indicated whether they are statistically significant at the 1% level. If a correlation is statistically significant at the 1% level, this indicates that there is at most a 1% chance of asserting that a relationship exists when in fact it does not. While greater statistical assurance is associated with statistically significant correlation coefficients, this does not necessarily imply that the relationship is an important one. In a large sample such as this one, statistical significance often can be achieved with relatively low correlations. Statistical significance indicates the likelihood of a relationship existing. Whether the relationship is important depends upon the size of the correlation coefficient and the reader's judgement as to what constitutes importance in the circumstances.

Generally this report highlights the performance of "first-time" candidates and "repeat" candidates as separate groups. The All-Candidates data furnished to state boards includes both these groups. Most of the data cited herein are for May 1980 candidates, but these generally are consistent with November. A comparison of May and November candidates is provided in Section IX of this report.

Data Limitations

Researchers relying on survey techniques are vulnerable to two limitations:

- 1. Lack of response to their survey instruments.
- 2. Inadequate or inaccurate response.

The first of these limitations, fortunately, was not a problem in this USIQ study. A large majority of candidates responded, as detailed in the next section.

To minimize inadequate or inaccurate response, it was vital to present clear and unambiguous data requests and instructions to the candidates. The USIQ has evolved over time, and efforts were made in 1980 to correct problems from the past and forestall anticipated misunderstandings in completing the form. Under any circumstances, of course, there will be some candidates who disregard instructions or provide erroneous information. The latter may arise because a candidate has forgotten the item, e.g., SAT score, or remembers it incorrectly. And in some cases, candidates may intentionally misreport because they suspect that the data will somehow bias their examination scores, even though attempts were made to reassure them in this regard.

In general, this study accepted the data as furnished by the candidates unless the data were clearly incorrect or two items conflicted. For example, if a candidate claimed to have conditional credit for a section but sat for that section, his/her reporting was changed. However, the basic premise in compiling these data was that the vast majority of candidates are candid and knowledgeable. The instances where this did not prevail did not significantly affect conclusions.

In general, the data in the four volumes of tables, as well as this report, are presented in terms of two variables. Two-variable analysis—regardless of whether it is tabular or in the form of "success ratios" or simple correlation coefficients—has a flaw. A strong degree of association may occur when two variables are each associated with a third variable, and thus the observed association may not indicate causation between the two variables.

To combat this circumstance, the reader must first use common sense—ask whether the observed relationship is a logical one and what may have caused it. This process may be facilitated by multivariate analytical techniques, two of which have been utilized in this study:

1. Three-way tables permit the observer to examine the pattern of a characteristic as it affects pertinent subsets of the population. For example, in the four data volumes furnished to state boards the number of semester hours of accounting, as they relate to examination performance, is arrayed individually for candidates with undergraduate training only, graduate training only, and training at both levels. This approach recognizes that the training available at the two levels may differ.

2. "Partial" (as opposed to "simple") correlation coefficients measure the degree of association between two or more variables after the association with one or more other variables has been removed. For example, the researchers may want to study the effects of a calculus background on examination performance and may suspect that scholastically strong students are more likely to take calculus. With the partial correlation technique scholastic ability might be neutralized by removing the influence of SAT scores from both variables. The coefficient computed after this has been done is a measure of the relationship between examination performance and calculus other than that attributable to their mutual association with SAT scores.

The information conveyed by a partial correlation coefficient where association with one other variable has been removed is similar to that contained in a three-way table. If associations with two other variables were controlled, a four-way table would be necessary to provide similar information, etc. The major advantage of the correlation coefficient is the compactness with which it conveys information.

Project Participation

Participation in the 1980 project was excellent. All 54 jurisdictions using the Uniform CPA Examination gathered data; this increased from 46 jurisdictions in 1975 and 49 in 1970. The percentage of candidates for whom usable questionnaires were received also increased; it was 79% in May 1980, as compared to 66% in 1975 and 71% in 1970. As in prior years, overall November participation declined, (58% in 1980). However, it was still comparable to that experienced in November 1975 (59%) or November 1970 (54%).

II. COMPOSITION OF CANDIDATE BODY

Number of Candidates

There was phenomenal growth in the number of candidates sitting for the CPA Examination in the 1970's. Table I shows that total candidates for the May sitting, which had increased 102% during the 1960's, rose another 170% from 1970 to 1980. This of course has placed an immense burden on the professionals, administrators, and staff responsible for the examination. However, it is perhaps noteworthy that the rate of growth slowed in the latter half of the decade—from 81% for 1970-75 to 49% from 1975-80—even though the absolute increase was greater. The 58% growth in total candidates for the November sitting from 1970 to 1975 was substantially lower than that observed for May, but the 50% increase from 1975 to 1980 was consistent. Presently the relationship between the number of candidates sitting in May and November appears to have stabilized.

TABLE 1NUMBER OF CANDIDATES SITTINGFOR UNIFORM CPA EXAMINATION1950 TO 1980

| | May | | Nover | nber |
|------|--------|-------|--------|-------|
| | Number | Index | Number | Index |
| 1950 | 5,100 | 100 | 6,300 | 100 |
| 1955 | 8,300 | 163 | 9,700 | 154 |
| 1960 | 10,600 | 208 | 13,100 | 208 |
| 1965 | 15,200 | 298 | 17,200 | 273 |
| 1970 | 21,400 | 420 | 26,700 | 424 |
| 1975 | 38,700 | 759 | 42,100 | 668 |
| 1980 | 57,800 | 1133 | 63,200 | 1003 |

Almost all first-time candidates sit for all four sections; this is mandated in many jurisdictions by state requirements. Repeat candidates also tend to sit for all remaining parts. The percentages of repeat candidates sitting for various sections in May 1980 were:

| 63% |
|-----|
| 64% |
| 70% |
| 68% |
| |

Repeat participation varies inversely with the difficulty of the sections. Fewer candidates, particularly first-timers, have passed auditing and business law in recent years.

First-Time and Repeat Candidates

The ratio of first-time candidates to the total candidate body declined slightly in 1980. It had been about 40% in both May 1975 and May 1970 (slightly lower in November) but was only 36% in May 1980 and 32% in November 1980. This may suggest more persistence on the part of repeat candidates.

Table 2 compares the maximum number of sittings for any examination section for May 1980, May 1975, and May 1970. Depending upon one's point of view, this table shows an increase in the time taken to complete the examination and/or more persistence on the part of unsuccessful candidates.

TABLE 2 MAXIMUM NUMBER OF SITTINGS FOR ANY MAY EXAMINATION SECTION

| | 1970 | 1975 | 1980 |
|--------------------------------|------|------|------|
| First sitting | 42% | 40% | 36% |
| One previous sitting | 22 | 23 | 24 |
| Two previous sittings | 14 | 15 | 15 |
| Three previous sittings | 9 | 10 | 10 |
| Four or more previous sittings | 13 | 12 | 15 |
| All examination candidates | 100% | 100% | 100% |

Table 2 was formulated in terms of the maximum number of sittings for *any* examination section. Table 3, in contrast, examines number of sittings by section: Is this the candidate's first sitting for that section? If not, how many previous sittings has he or she had? Table 3 shows remarkable consistency among the four examination sections. A slightly larger percentage of candidates failed auditing on the first attempt, but the auditing candidates tended to catch up (in terms of cumulative passes) on the second sitting.

TABLE 3 MAXIMUM NUMBER OF SITTINGS FOR INDIVIDUAL MAY 1980 EXAMINATION SECTIONS

| | Accounting Practice | Accounting Theory | Auditing | Business Law |
|--------------------------------|------------------------|----------------------|----------|-----------------|
| First sitting | 46% | 46% | 44% | 45% |
| One previous sitting | 23 | 22 | 24 | 23 |
| Two previous sittings | 13 | 13 | 14 | 13 |
| Three previous sittings | 8 | 8 | 8 | 9 |
| Four previous sittings | 4 | 4 | 4 | 4 |
| Five or more previous sittings | 6 | 7 | 6 | 6 |
| All candidates for section | 100% | 100% | 100% | 100% |

The relative performance of first-time and repeat candidates is discussed in the next section. Their characteristics are compared throughout this report, particularly in Section IX.

Relative Performance of First-Time and Repeat Candidates

Approximately 15% of first-time May 1980 CPA Examination candidates passed all four sections of the examination; 28% earned partial credit, and 57% obtained no conditional credit at all. These percentages are almost the same as those observed in May 1975 except that the percentage passing all four parts was slightly higher (16%) in 1975.

Among May 1980 repeat candidates, 25% passed all remaining parts, 24% earned some credit, and 51% received no credit. The corresponding figures for May 1975 were 25%, 22%, and 53% respectively, thus representing little change.

The repeat candidates, of course, had an advantage in that they might have earned some credit on previous examinations. A more pertinent comparison, therefore, is based upon sections previously conditioned. Table 4 shows the percentage of total candidates in relation to the number of sittings and conditional credit earned; the size of the "one section" group is small because so many jurisdictions require the candidate to pass at least two sections if credit is to be earned. Table 4 clearly shows that repeat candidates with two or three sections previously conditioned had a much better chance to earn credit than those with none or one. It is also noteworthy that 42% of all candidates (and nearly two-thirds of repeat candidates) were persons who previously took the examination and received no credit.

TABLE 4RELATIONSHIP OF PREVIOUS CONDITIONAL CREDITTO CREDIT EARNED ON MAY 1980 EXAMINATION

| | | Percentage of Candidates Earning | | | |
|-----------------------------|-----------------------------|----------------------------------|----------------|----------------------|--|
| | Percentage of Candidates | No Credit | Partial Credit | All Credit Needed | |
| No previous credit— | | | | | |
| First-time candidates | 36% | 57% | 28% | 15% | |
| Repeat candidates | 30 | 71 | 26 | 3 | |
| Previous conditional credit | | | | | |
| for repeat candidates— | | | | | |
| One section | 5 | 50 | 44 | 6 | |
| Two sections | 15 | 32 | 36 | 32 | |
| Three sections | 14 | 29 | 0 | 71 | |
| All candidates | 100% | 53 | 26 | 21 | |

Considering all candidates as one group, 9.5% earned credit for all four sections. As Table 4 shows, 26% of all candidates earned partial credit and 53% no credit at all. The other 11.5% were candidates completing the examination who previously had passed one or more sections. Stated another way, 25% of all successful candidates (ones completing the examination) were first-timers; 71% had previously earned partial credit, and only 4% were repeat candidates with no conditional credit.

Another important factor is the relative success in different examination sections based upon the number of sittings for that section. Table 5 uses "success ratios" to make this comparison. As previously noted, the "success ratio" is defined for this study as the passing rate (scores of 75 or better) for a particular group on a section divided by the overall passing rate for all candidates (both first-time and repeaters) sitting for that section. A success ratio greater than 1 is associated with an above-average chance for success on that section.

With the exception of auditing, first-time candidates performed better than the average candidate in all sections. This was particularly true for accounting theory, where academic preparation presumably was more beneficial. After the first sitting, performance declined (except in auditing) but rose again presumably as candidates completed other sections and could concentrate on fewer remaining sections. Diminishing results occurred after the fifth sitting.

TABLE 5 RELATIONSHIP OF SITTINGS BY SECTION TO EXAMINATION SUCCESS ON THAT SECTION FOR MAY 1980 CANDIDATES

| | Success Ratios | | | | |
|--------------------------------|------------------------|----------------------|----------|-----------------|--|
| | Accounting Practice | Accounting Theory | Auditing | Business Law | |
| First sitting | 1.07 | 1.16 | .95 | 1.01 | |
| One previous sitting | .87 | .88 | 1.03 | .97 | |
| Two previous sittings | .94 | .87 | 1.06 | .96 | |
| Three previous sittings | .97 | .91 | 1.11 | 1.04 | |
| Four previous sittings | 1.12 | .96 | 1.09 | 1.14 | |
| Five or more previous sittings | 1.06 | .73 | .87 | 1.06 | |
| All repeat candidates | .94 | .87 | 1.04 | 1.00 | |

Years Out of College

In general, candidates are sitting much earlier for the CPA Examination than they did in previous decades. This long-term trend continued in 1980, as shown in Table 6. Although the overall time lapse decreased, however, the percentage of first-time May candidates sitting for the examination while attending college did not. There was an increase in first-time November candidates sitting while attending school, particularly from 1970 to 1975. On an overall basis, approximately three-quarters of first-time 1980 candidates were attending school or had been separated less than one year.

TABLE 6HISTORICAL COMPARISON OFCOLLEGE SEPARATION STATUSFOR FIRST-TIME CANDIDATES

| | May Examination | | Nove | mber Examina | ation | |
|------------------------|-----------------|------|------|--------------|-------|------|
| | 1970 | 1975 | 1980 | 1970 | 1975 | 1980 |
| Attending college | 37% | 36% | 35% | 8% | 16% | 18% |
| Separated from school— | | | | | | |
| Under one year | 31 | 33 | 40 | 44 | 48 | 54 |
| One to two years | 12 | 15 | 11 | 22 | 18 | 13 |
| Three to five years | 13 | 9 | 8 | 18 | 11 | 8 |
| Six or more years | 7 | 7 | 6 | 8 | 7 | 7 |
| | 100% | 100% | 100% | 100% | 100% | 100% |

Repeat candidates, of course, tended to be farther from their academic preparation. Only 9.6% of May candidates were attending school and 72.3% had been out over a year. Taking all candidates (both first-time and repeaters) as one group, 81.4% of May candidates and 87.5% of November candidates indicated they were not attending college at the time the examination was administered. These percentages declined slightly from prior years. In 1975, 82.6% of all May candidates and 90.3% of all November candidates were separated from college. Corresponding figures for 1970 were 83.1% for May and 94.4% for November. Tables 7 and 8 summarize the relationship of college separation status for first-time candidates to success on the examination. The relationship (which was consistent with that noted in 1975) was an unusual one. Candidates still attending school did better than those out of school less than one year. During the first five years after leaving school, performance was relatively poor. After six years candidate performance improved again.

There are two hypotheses that would support better performance of candidates while attending school (or shortly after leaving). First is the immediacy of academic work; the CPA Examination primarily tests academic knowledge rather than that obtained from work experience. Second is an expectation that more capable and motivated individuals will seek to take the examination as soon as possible. Both of these factors undoubtedly are important, but the relatively strong performance of these candidates in theory and practice (the two sections emphasized in the typical collegiate curriculum), as indicated by the success ratios in Table 8, supports the immediacy of knowledge hypothesis.

In attempting to assess factors that may contribute to success or failure on the CPA Examination, it is plausible that candidates in the early stages of their professional careers may be too busy (and perhaps lack motivation) to study for the examination. However, performance seemed to improve after three years. Hypothetically, candidates who are less capable or lack motivation have adjusted their aspirations by this point in their careers and no longer become part of the examination population. Alternatively, at this stage of their careers candidates may have become more motivated to pass the examination. Of these hypotheses the former is more persuasive.

TABLE 7RELATIONSHIP OF COLLEGE SEPARATION STATUSTO CREDIT EARNED BYFIRST-TIME MAY 1980 CANDIDATES

| | Percentage of Candidates Earning | | | | |
|------------------------|----------------------------------|-------------------|----------------|--|--|
| | No Credit | Partial Credit | Full Credit | | |
| Attending college | 51% | 31% | 18% | | |
| Separated from school— | | | | | |
| Under one year | 57 | 28 | 15 | | |
| One to two years | 71 | 21 | 8 | | |
| Three to five years | 64 | 27 | 9 | | |
| Six or more years | 54 | 30 | 16 | | |

TABLE 8 RELATIONSHIP OF COLLEGE SEPARATION STATUS TO SUCCESS ON INDIVIDUAL EXAMINATION SECTIONS FOR FIRST-TIME MAY 1980 CANDIDATES

| | Success Ratios | | | | |
|---|------------------------|----------------------|----------|-----------------|--|
| | Accounting Practice | Accounting Theory | Auditing | Business Law | |
| Attending college Separated from school— | 1.27 | 1.35 | 1.03 | 1.16 | |
| Under one year | 1.07 | 1.17 | .97 | .96 | |
| One to two years | .64 | .77 | .70 | .68 | |
| Three to five years | .86 | .94 | .82 | .86 | |
| Six or more years | 1.11 | 1.18 | 1.03 | 1.13 | |

III. EDUCATIONAL BACKGROUND

Level of Education

In 1946 less than half of CPA Examination candidates held bachelor's degrees. By May 1975 this percentage had risen to 98.5% for first-time candidates and 96.9% for repeat candidates. And the percentage of all candidates with advanced degrees reached 13% in 1975 (from 9% in 1970).

Surprisingly, the strong trend toward more education did not continue in 1980. There still were 300 first-time May candidates who did not have bachelor's degrees (and did not expect to achieve them within 60 days of taking the examination). More notable was that the increasing trend toward more advanced degrees did not continue in 1980. A complete comparison for the last three USIQ studies follows:

| | May Sitting | | | Na | vember Sittin | g |
|------------------------|-------------|------|------|------|---------------|------|
| | 1970 | 1975 | 1980 | 1970 | 1975 | 1980 |
| First-time candidates— | | | | | | |
| Less than bachelor's | 3.2% | 1.5% | 1.8% | 3.4% | 1.6% | 1.7% |
| Bachelor's degree | 88.2 | 85.4 | 84.7 | 86.6 | 82.8 | 84.6 |
| Advanced degree | 8.6 | 13.1 | 13.5 | 10.0 | 15.6 | 13.7 |
| Repeat candidates— | | | | | | |
| Less than bachelor's | 7.6% | 3.1% | 1.3% | 6.4% | 3.2% | 1.4% |
| Bachelor's degree | 82.3 | 83.8 | 83.7 | 84.6 | 84.7 | 83.9 |
| Advanced degree | 10.1 | 13.1 | 15.0 | 9.0 | 12.1 | 14.7 |

For those candidates with an advanced degree, the MBA with an accounting major was the most popular (38%), followed by other MBA degrees (30%), master's degrees in accounting (20%), non-business master's degrees (6%), law degrees (5%), and doctoral degrees including the DBA (1%). Among first-time May 1980 candidates only, somewhat higher percentages had master's in accounting and non-business master's, and fewer candidates had non-accounting MBAs and law degrees. There was a decline from May 1975 in the percentage of candidates with law degrees (7%) of all candidates at that time); otherwise there were no unusual changes from 1975.

Higher education continued to contribute to examination success. This is demonstrated in Table 9, which reports overall performance for first-time candidates, and Table 10, which presents success ratios for all candidates (both first-time and repeat).

TABLE 9 RELATIONSHIP OF LEVEL OF EDUCATION TO CREDIT EARNED BY FIRST-TIME MAY 1980 CANDIDATES

| | Percentage of Candidates Earning | | | |
|------------------------|----------------------------------|-------------------|----------------|--|
| | No Credit | Partial Credit | Full Credit | |
| No bachelor's degree | 62% | 24% | 14% | |
| Bachelor's degree only | 59 | 27 | 14 | |
| Advanced degree— | | | | |
| Master's in accounting | 39 | 36 | 25 | |
| MBA accounting major | 42 | 35 | 23 | |
| Other MBAs | 47 | 34 | 19 | |
| Non-business master's | 39 | 30 | 31 | |
| Law degree | 38 | 43 | 19 | |
| Ph. D. or DBA | 23 | 37 | 40 | |

An interesting aspect of Table 10 is the relatively strong performance by candidates who held a master's degree in accounting on the accounting practice and accounting theory sections of the examination, areas where such a program would be expected to affect performance. With the exception of the above-average performance by those who have earned non-business master's degrees, the performances of other degree-holding groups were as expected. The continued success of non-business degree candidates (regardless of college degree or major) may be attributed to the superior academic aptitude of these candidates and their ability to obtain a considerable amount of formal accounting training during the course of their programs. This observation is developed further below.

TABLE 10 RELATIONSHIP OF LEVEL OF EDUCATION TO SUCCESS ON INDIVIDUAL EXAMINATION SECTIONS FOR MAY 1980 CANDIDATES

| | Success Ratios | | | | |
|------------------------|------------------------|----------------------|----------|-----------------|--|
| | Accounting Practice | Accounting Theory | Auditing | Business Law | |
| No bachelor's degree | .97 | .84 | .78 | .88 | |
| Bachelor's degree only | .98 | .97 | .97 | .97 | |
| Advanced degree— | | | | | |
| Master's in accounting | 1.42 | 1.39 | 1.36 | 1.31 | |
| MBA accounting major | 1.21 | 1.27 | 1.31 | 1.23 | |
| Other MBA | 1.11 | 1.08 | 1.18 | 1.25 | |
| Non-business master's | 1.29 | 1.33 | 1.46 | 1.46 | |
| Law degree | 1.15 | 1.22 | 1.24 | 2.42 | |
| Ph. D. or DBA | 2.06 | 2.27 | 1.66 | 1.84 | |

Nature of Educational Institution

In 1980 examination candidates were asked for the first time to identify the types of educational institutions where they received their training. The percentages attending or graduating from each type of educational institution surveyed, and the examination success by group are shown in Table 11. To provide greater comparability, this table has been restricted to first-time candidates and has been divided among candidates with less than bachelor's degrees, bachelor's degrees only, and those with advanced degrees. The percentages of candidates attending these institutions add up to more than 100% because the candidate could have attended more than one institution. This was particularly true of candidates with advanced degrees.

Table 11 shows that candidates with advanced degrees were more likely to have attended schools of professional accounting, as well as liberal arts or other non-business colleges, than those candidates with bachelor's degrees only. Candidates with bachelor's degrees, on the other hand, were more likely to have obtained part of their training at community colleges.

This table also indicates that highest overall success, at both the bachelor's and advanced levels, was associated with candidates who obtained their education (or a portion of it) at liberal arts or non-business colleges. The success rates associated with particular types of institutions are not necessarily indicative of that institution's quality. Rather, this is an index to the abilities of students attached to those institutions. This theme is further developed later in this section

TABLE 11 NATURE OF EDUCATIONAL INSTITUTION ATTENDED AND RELATIONSHIP TO CREDIT EARNED BY FIRST-TIME MAY 1980 CANDIDATES

| | | Percentage of Candidates Earning | | |
|--|-----------------------------|----------------------------------|----------------|----------------|
| | Percentage of Candidates | No Credit | Partial Credit | Full Credit |
| — I | Less Than Bachelor's D | Degree — | | |
| College of business | 69% | 63% | 23% | 14% |
| School of professional accounting* Liberal arts or non-business | 4 | 28 | 36 | 36 |
| college | 19 | 61 | 22 | 17 |
| Community (or junior) college | 32 | 65 | 21 | 14 |
| Proprietary school* | 3 | 25 | 50 | 25 |
| - | - Bachelor's Degree Or | nly — | | |
| College of business | 74% | 57% | 28% | 15% |
| School of professional accounting | 5 | 59 | 28 | 13 |
| Liberal arts or non-business college | 25 | 56 | 28 | 16 |
| Community (or junior) college | 18 | 64 | 24 | 12 |
| Proprietary school | 1 | 65 | 21 | 14 |
| | — Advanced Degree | | | |
| College of business | 79% | 43% | 34% | 23% |
| School of professional accounting | 11 | 40 | 34 | 26 |
| Liberal arts or non-business college | 39 | 33 | 36 | 31 |
| Community (or junior) college | 11 | 46 | 32 | 22 |
| Proprietary school | 2 | 36 | 38 | 26 |

*Data not meaningful because few candidates were involved — approximately 10 in each of these two groups.

Table 12 relates success ratios for individual examination sections to type of educational institution for first-time candidates. The primary intention of this table is to identify examination sections where a particular type of institution is effective. Comparisons among institutions are not necessarily appropriate, in part because candidates with both undergraduate and advanced degrees have been grouped in this table. Advanced degrees, which are related to better examination performance, tend to be associated with attendance at liberal arts and non-business colleges in this table. Consistent with Table 5, first-time candidates from all institutions do better on accounting theory and accounting practice.

In general, Table 12 also indicates that performance on examination sections follows a fairly consistent pattern. For example, the success ratio for liberal arts or non-business candidates was consistently higher than for college of business candidates. The exceptions to this consistent pattern were the candidates of professional schools, who performed better than expected on business law and poorer on accounting practice, and of proprietary schools, whose performance on practice was not as high relatively as for auditing and law. However, both the professional school and proprietary school groups were small (900 and 200 first-time candidates respectively), and this may have led to atypical results.

TABLE 12 RELATIONSHIP OF EDUCATIONAL INSTITUTION ATTENDED TO SUCCESS ON INDIVIDUAL EXAMINATION SECTIONS FOR FIRST-TIME MAY 1980 CANDIDATES

| | Success Ratios | | | |
|---|------------------------|----------------------|----------|-----------------|
| | Accounting Practice | Accounting Theory | Auditing | Business Law |
| College of business | 1.11 | 1.20 | .99 | 1.02 |
| School of professional accounting Liberal arts or non-business | 1.12 | 1.26 | 1.06 | 1.15 |
| college | 1.19 | 1.27 | 1.07 | 1.10 |
| Community (or junior) college | .95 | 1.04 | .85 | .93 |
| Proprietary school | .99 | 1.19 | 1.08 | 1.09 |

Candidates also were asked to identify the college or university where they obtained the major portion of their accounting education. The primary intention was not to make comparisons among universities but rather to compile data on the universities providing candidates for the examination.

Candidates identified a total of 1,247 institutions of higher learning as primary sources of accounting education. Of these, 214 were accredited by the American Association of Collegiate Schools of Business: 137 for both their bachelor's and master's programs, 15 for their master's programs only, and 62 for the bachelor's program only. The remaining 1,035 schools were not accredited by the AACSB, though they often were accredited by other bodies. (See Appendix for listing of accredited schools.)

Tables 13 and 14 present the relative performance of first-time candidates in terms of accreditation status of the institutions they attended; Table 13 shows overall performance and Table 14 success ratios on individual sections. Both tables have been divided into candidates with bachelor's degrees or less and those with advanced degrees. Note, however, that a candidate with an advanced degree may not have obtained his/her primary accounting education at the same institution awarding the advanced degree. In such cases the primary (bachelor) degree institution would have been indicated.

For candidates with bachelor's degrees or less, top examination performance was associated with those whose schools had programs accredited at both the bachelor's and master's level; those whose schools were accredited only for the bachelor's degree performed slightly better than those whose schools were non-accredited. Among holders of advanced degrees, the top group was that associated with schools accredited only at the master's level. (These often are prestigious schools that do not offer undergraduate programs in accounting.) Advanced degree candidates from schools accredited for both the bachelor's and master's also did well, but the "bachelor's only" group performed no better than those who received their training at non-accredited schools. In fact, candidates with bachelor's degrees from institutions whose master's programs were accredited did as well as those with advanced degrees from programs that were not accredited.

The data in this section should not be considered critical of any class of schools or imply that any class has inferior instruction. To a great extent, an institution's output reflects the quality of its incoming students. Generally, more capable students tend to be attracted to "name" schools that are more likely to be accredited. An indication of this trend is shown in Table 15, which compares scores on the Scholastic Aptitude Test (SAT) for the various classes of schools. Students enrolled in programs accredited at the master's level scored higher in both the verbal and mathematics SAT. Those in the programs accredited at both bachelor's and master's level score somewhat higher than the other two groups in the verbal portion of the SAT and do considerably better in the mathematics portion. Students in programs accredited only at the bachelor's level ranked slightly higher overall on the SAT than those students at non-accredited schools.

TABLE 13 RELATIONSHIP OF COLLEGE ACCREDITATION STATUS TO CREDIT EARNED BY FIRST-TIME MAY 1980 CANDIDATES

| | | Percentage of Candidates Earning | | |
|-------------------------|-----------------------------|----------------------------------|----------------|----------------|
| | Percentage of Candidates | No Credit | Partial Credit | Full Credit |
| | - Bachelor's Degree or | Less— | | |
| Accredited for— | | | | |
| Bachelor's and master's | 43% | 50% | 32% | 18% |
| Bachelor's only | 12 | 62 | 26 | 12 |
| Non-accredited | 45 | 66 | 23 | 11 |
| Total | 100% | | | |
| | — Advanced Degree | _ | | |
| Accredited for— | | | | |
| Bachelor's and master's | 47% | 34% | 38% | 28% |
| Master's only | 5 | 24 | 38 | 38 |
| Bachelor's only | 10 | 50 | 35 | 15 |
| Non-accredited | 38 | 53 | 29 | 18 |
| Total | 100% | | | |

TABLE 14 RELATIONSHIP OF COLLEGE ACCREDITATION STATUS TO SUCCESS ON INDIVIDUAL EXAMINATION SECTIONS FOR FIRST-TIME MAY 1980 CANDIDATES

| | | Success Ratios | | | |
|--|------------------------------|------------------------------|------------------------------|------------------------------|--|
| | Accounting Practice | Accounting Theory | Auditing | Business Law | |
| - | – Bachelor's Degree or | · Less — | | | |
| Accredited for— Bachelor's and master's Bachelor's only | 1.20 .94 | 1.32 1.10 | 1.12 .81 | 1.13 | |
| Non-accredited | .88 | .92 | .69 | .81 | |
| | - Advanced Degre | e — | | | |
| Accredited for— Bachelor's and master's Master's only Bachelor's only Non-accredited | 1.66 1.89 1.22 1.21 | 1.79 2.07 1.33 1.29 | 1.33 1.72 1.09 1.10 | 1.60 1.86 1.21 1.26 | |

TABLE 15RELATIONSHIP OF SAT SCORES TOCOLLEGE ACCREDITATION STATUS FORFIRST-TIME MAY 1980 CANDIDATES

| | | | Accredited at | |
|------------------|----------------------|---------------------|-------------------|----------------|
| | Not Accredited | Bachelor's Level | Master's Level | Both Levels |
| Perc | entage of Candidates | Achieving Level Sh | own — | |
| SAT Verbal— | | | | |
| 200-399 | 9% | 8% | 4% | 5% |
| 400-499 | 33 | 30 | 7 | 25 |
| 500-599 | 40 | 41 | 39 | 45 |
| 600-699 | 16 | 19 | 44 | 23 |
| 700-800 | 2 | 2 | 6 | 2 |
| | 100% | 100% | 100% | 100% |
| SAT Mathematics— | | | | |
| 200-399 | 2% | 2% | <u> </u> | 19 |
| 400-499 | 11 | 8 | 2 | 6 |
| 500-599 | 36 | 38 | 8 | 29 |
| 600-699 | 40 | 41 | 51 | 45 |
| 700-800 | 11 | 11 | 39 | 19 |
| | 100% | 100% | 100% | 100% |

Undergraduate Major

Table 16 shows that the percentage of first-time candidates with undergraduate majors in accounting increased in May 1980. This relative increase was consistent with the abrupt rise in accounting enrollment in the mid-1970s. Candidates with undergraduate degrees only were much more likely to have been undergraduate accounting majors. The major declines were in other business administration majors at the bachelor's level and mathematics-engineering at the graduate level. This latter decline is somewhat unfortunate since these students traditionally have been stronger candidates.

TABLE 16UNDERGRADUATE MAJORS FORFIRST-TIME MAY CANDIDATES1975 AND 1980

| | No Advanced Degree | | Advanced | Degree |
|-------------------------|--------------------|------|----------|--------|
| | 1975 | 1980 | 1975 | 1980 |
| Accounting | 88% | 92% | 30% | 35% |
| Business administration | 7 | 4 | 23 | 23 |
| Mathematics-engineering | 1 | 1 | 15 | 8 |
| Liberal arts | 3 | 2 | 24 | 25 |
| Other | 1 | 1 | 8 | 9 |
| Total | 100% | 100% | 100% | 100% |

Table 17 summarizes the percentages of each undergraduate major group that received no credit, partial credit, and full credit for the examination. In comparing the first two categories, accounting majors and business administration majors, the former group was more likely to earn some credit on the CPA Examination, but less likely to earn full credit. An appropriate question is why the accounting majors were not clearly superior to business majors, given that (1) presumably they have more accounting training, and (2) accounting students historically have been considered by many observers to be scholastically superior to other business students. The first observation is somewhat misleading because examination candidates, regardless of major, typically had considerable amounts of accounting training. The median for accounting majors was slightly above 30 hours and for other business majors slightly below. Moreover, the business major sitting for the examination typically may be expected to be an above-average business student whereas many more "average" accounting students may be expected to become candidates. (This last assertion cannot be tested since the USIQ data did not include information for either accounting or business students who did not sit for the examination.)

Similar observations apply to comparisons of the relative performance of accounting majors and non-business majors on the CPA Examination. This question is further considered below.

TABLE 17 RELATIONSHIP OF UNDERGRADUATE MAJOR TO CREDIT EARNED BY FIRST-TIME MAY 1980 CANDIDATES

| | No Advanced Degree | | Advanced Degree | | ree | |
|-------------------------|--------------------|-------------------|-----------------|--------------|-------------------|----------------|
| | No Credit | Partial Credit | Full Credit | No Credit | Partial Credit | Full Credit |
| Accounting | 59% | 28% | 13% | 49% | 31% | 20% |
| Business administration | 64 | 21 | 15 | 44 | 39 | 17 |
| Mathematics-engineering | 33 | 32 | 35 | 27 | 37 | 36 |
| Liberal arts | 43 | 30 | 27 | 35 | 34 | 31 |
| Other | 45 | 34 | 21 | 39 | 37 | 24 |

Hours of Accounting and Other Pertinent Subjects

The distribution of semester accounting hours for first-time May 1980 candidates is summarized in Table 18. The candidates have been divided among those with undergraduate training only (84.1% of all candidates), those with graduate training only (1.6%), and those with training at both levels (13.7%). Only 107 candidates (.6% of the total) claimed to have no academic training at all.

Despite the relative increase in accounting majors, there was little increase in hours of accounting study. The first two categories in Table 18 showed the same percentages in May 1975. The "19 to 24 hour" category was 9% in 1975, "25 to 30 hours" was 36%, and 52% of candidates had 30 or more hours in 1975 (compared with 54% in 1980). No analysis of the above-30 category was made in 1975.

Of the candidates with undergraduate training only, a majority had accounting training of 25 to 36 hours, a rather narrow range equivalent to from 9 to 12 courses. For those with graduate training, nearly two-thirds of the candidates were in the 19 to 36 hour range (7 to 12 courses); 56% of the candidates with both undergraduate and graduate training in accounting were in the 25 to 42 hour range (9 to 14 courses). It is noteworthy that 73% of those first-time candidates with both undergraduate and graduate training had over 30 hours of accounting.

The number of candidates claiming over 54 hours (19 courses or more) is disconcerting; generally this would be considered disproportionate, even with training at both graduate and undergraduate levels. There is a possibility of misreporting in this area, either intentional (to impress the graders) or unintentional by incorrect conversion (or non-conversion) of quarter hours to semester hours or counting a course more than once, e.g., as both an introductory course and financial accounting course.

TABLE 18 SEMESTER HOURS OF ACCOUNTING FOR FIRST-TIME MAY 1980 CANDIDATES

| | Nature of Training | | | | | | |
|----------------|--------------------|------------------|--------------------------------|------------------------------|--|--|--|
| | Undergrad Only | Graduate Only | Both Undergrad and Graduate | All First-Time Candidates | | | |
| 1 to 12 hours | * | 3% | 1 % | 1% | | | |
| 13 to 18 hours | 2% | 5 | 2 | 2 | | | |
| 19 to 24 hours | 12 | 21 | 8 | 11 | | | |
| 25 to 30 hours | 35 | 28 | 17 | 32 | | | |
| 31 to 36 hours | 27 | 17 | 21 | 26 | | | |
| 37 to 42 hours | 13 | 11 | 18 | 14 | | | |
| 43 to 48 hours | 5 | 4 | 11 | 6 | | | |
| 49 to 54 hours | 3 | 2 | 9 | 4 | | | |
| Over 54 hours | 3 | 9 | 13 | 4 | | | |
| | 100% | 100% | 100% | 100% | | | |

*Less than $\frac{1}{2}$ of 1%

Data on individual types of accounting courses were gathered for the first time in 1980. These are summarized in Table 19, together with data for selected pertinent courses. For this table hours taken at the graduate and undergraduate level have been grouped together. Usually, 1-3 hours equal one course. As noted in connection with Table 18, possibilities for overreporting exist. However, the overall evidence provided by the table is considered reliable.

The "typical" first-time CPA Examination candidate in May 1980 took two introductory accounting courses, two to three financial accounting courses, one to two courses each in tax and cost, one in auditing, and a sufficient number of electives to bring his/her total to ten or eleven accounting courses. Among other accounting courses, systems was the most popular, followed by CPA review and governmental accounting, with international accounting courses attracting only 5% of the candidates.

Perhaps the most interesting statistic in these data were the large number of candidates (9%) who claimed to have had no courses in financial accounting or accounting theory. (There may have been some misreporting here if candidates did not recognize the nature of the courses commonly termed "intermediate".) Another result (not arising from misreporting) was the near-parity between hours of tax and cost; one would have expected the latter to be more prevalent.

Candidates reported hours of mathematics in 1975 but not in the same format as in 1980. In 1975, 34% of candidates indicated they had no calculus, 27% one course, and 21% two courses. There probably was some increase in the amount of calculus taken, but this was not definite because of the inclusion of "other advanced mathematics" in the calculus category in 1980. Similarly, college algebra and business mathematics were reported individually in 1975, obviating comparison to pre-calculus mathematics.

Among the other three categories (statistics, computer, business law) there were minor changes only—a slight increase in the number of candidates who had taken statistics and probability and a slight decrease for business law. Perhaps the most unusual result was that computer education remained virtually unchanged; 13% of first-time candidates still had no computer course, and over half had only one.

| TABLE 19 |
|---------------------------------------|
| SEMESTER HOURS OF SELECTED |
| ACCOUNTING AND OTHER PERTINENT |
| COURSES FOR FIRST-TIME |
| MAY 1980 CANDIDATES |

| | Percentage of Candidates Reporting | | | | |
|----------------------------|------------------------------------|-----------|-----------|-----------|--------------|
| | No Hours | 1-3 Hours | 4-6 Hours | 7-9 Hours | Over 9 Hours |
| Accounting courses— | | | | | |
| Introductory | 2% | 13% | 66% | 13% | 6% |
| Financial and theory | 9 | 14 | 29 | 29 | 19 |
| Auditing | 5 | 69 | 24 | 1 | 1 |
| Tax | 3 | 45 | 44 | 6 | 2 |
| Cost and managerial | 2 | 42 | 45 | 8 | 3 |
| Governmental | 71 | 27 | 2 | * | * |
| International | 95 | 4 | 1 | * | * |
| Systems | 64 | 28 | 6 | 1 | 1 |
| CPA review | 72 | 21 | 6 | * | 1 |
| Other courses— | | | | | |
| Precalculus | | | | | |
| mathematics | 25 | 35 | 29 | 7 | 4 |
| Calculus and advanced | | | | | |
| mathematics | 26 | 31 | 26 | 8 | 9 |
| Statistics and probability | 2 | 37 | 47 | 10 | 4 |
| Computer | 13 | 52 | 25 | 6 | 4 |
| Business law | 2 | 23 | 58 | 13 | 4 |

*Less than ½ of 1%

Table 20 summarizes success ratios for three examination sections—auditing, accounting theory and accounting practice—by the amount of accounting training. It also shows the overall status of the candidates in terms of all four examination sections. For candidates with undergraduate training only, additional accounting courses appeared to improve examination performance—up to 42 hours, where declining results began to occur. Performance above 54 hours diminished sharply, indicating one of three things: (1) that quality of course is not consistent with quantity in such unbalanced programs; (2) that weaker candidates tend to undertake excessive programs of this nature; or (3) overreporting of hours by candidates in this category.

While the undergraduate degree candidates follow a fairly predictable pattern, the same predictions cannot be made for candidates who also have graduate training. A variety of influences, including caliber of student, quality of course, and percentage of courses at graduate level, may have affected this comparison.

TABLE 20 RELATIONSHIP OF SEMESTER HOURS OF ACCOUNTING TO SUCCESS ON EXAMINATION FOR FIRST-TIME MAY 1980 CANDIDATES

| | | Success Ratios | | Ον | erall Status | |
|----------------|------------------------|----------------------|------------------|--------------|-------------------|----------------|
| | Accounting Practice | Accounting Theory | Auditing | No Credit | Partial Credit | Full Credit |
| | | — Undergrad | uate Training On | ıly — | | |
| 1 to 12 hours | .66 | .84 | .70 | 75% | 15% | 10% |
| 13 to 18 hours | .86 | .90 | .72 | 65 | 26 | 9 |
| 19 to 24 hours | .84 | .97 | .84 | 63 | 25 | 12 |
| 25 to 30 hours | .89 | .99 | .83 | 63 | 25 | 12 |
| 31 to 36 hours | 1.15 | 1.22 | .94 | 54 | 30 | 16 |
| 37 to 42 hours | 1.18 | 1.27 | .99 | 54 | 29 | 17 |
| 43 to 48 hours | 1.10 | 1.17 | .84 | 55 | 30 | 15 |
| 49 to 54 hours | 1.00 | 1.04 | .84 | 59 | 25 | 16 |
| Over 54 hours | .93 | .95 | .76 | 65 | 25 | 10 |
| | _ | - Graduate and U | Indergraduate Tr | aining — | | |
| 1 to 12 hours | 1.02 | 1.40 | 1.99 | 39% | 42% | 19% |
| 13 to 18 hours | 1.68 | 1.51 | 1.69 | 44 | 35 | 21 |
| 19 to 24 hours | 1.22 | 1.29 | 1.22 | 48 | 35 | 17 |
| 25 to 30 hours | 1.46 | 1.59 | 1.49 | 40 | 34 | 26 |
| 31 to 36 hours | 1.30 | 1.44 | 1.14 | 49 | 32 | 19 |
| 37 to 42 hours | 1.52 | 1.75 | 1.39 | 38 | 38 | 24 |
| 43 to 48 hours | 1.54 | 1.52 | 1.39 | 42 | 35 | 23 |
| 49 to 54 hours | 1.51 | 1.60 | 1.29 | 42 | 39 | 19 |
| Over 54 hours | 1.44 | 1.40 | 1.29 | 48 | 29 | 23 |

Table 21 presents an alternative view of curriculum effects, by correlating amount of training with performance on the four examination sections. As noted above, correlation coefficients measure the relationship between two variables—a positive coefficient indicates the two variables are associated, and the closer the coefficient approaches 1, the greater is the association. A low magnitude or zero indicates no correlation, and a negative coefficient indicates the variables have an inverse relationship. If a relationship is statistically significant at the 1% level, this indicates that there is at most a 1% chance of asserting that a relationship exists when in fact one does not. Whether the relationship is an *important* one is not indicated by statistical significance per se. That determination depends upon the correlation coefficient itself and judgment as to what constitutes importance.

Two sets of correlation coefficients have been presented in Table 21. The simple coefficients show the unadjusted relationship between hours and examination performance. The partial coefficients show the residue remaining after the removal of the effect of level of education, SAT scores, undergraduate grade point average, and hours of independent study per section. These were expected to be the principal other factors affecting candidate performance. Table 21 also presents correlation coefficients for individual accounting and other pertinent courses.

TABLE 21 CORRELATION BETWEEN SEMESTER HOURS IN SELECTED COLLEGE COURSES AND FIRST-TIME MAY 1980 CANDIDATE SCORES ON INDIVIDUAL EXAMINATION SECTIONS

| | Accounting Practice | Accounting Theory | Auditing | Business Law |
|--------------------------------|------------------------|----------------------|----------|--------------------|
| — S | imple Correlation Co | efficients — | | |
| Total hours of accounting— | | | | |
| Undergraduate training only | .08* | .07* | .01 | .04* |
| Graduate training only | 14 | 15 | 26* | 17* |
| Training at both levels | .05 | .02 | 03 | .02 |
| Individual accounting courses— | | | | |
| Introductory | 03* | 05* | 07* | 04* |
| Financial and theory | .14* | .16* | .11* | .10* |
| Auditing | .03* | .03* | .04* | .03* |
| Tax | .08* | .06* | .01 | .08* |
| Cost and managerial | .03* | .02 | 02 | .00 |
| Governmental | .03* | .00 | 03* | 01 |
| International | 02 | 03* | 05* | 02* |
| Systems | .03* | .03* | 07* | .03* |
| CPA review | .09* | .09* | .01 | .06* |
| Other pertinent courses- | | | | |
| Precalculus mathematics | 04* | 04* | 04* | 03* |
| Calculus | .17* | .15* | .13* | .12* |
| Statistics and probability | .05* | .05* | .04* | .02* |
| Computer | .01 | 01 | .00 | 01 |
| Business law | .03* | .02 | 01 | .12* |
| — P | artial Correlation Co | efficients — | | |
| Total hours of accounting— | | | | |
| Undergraduate training only | .12* | .07* | .02 | .04 |
| Graduate training only | .01 | .06 | 29 | .06 |
| Training at both levels | .02 | 02 | 01 | 02 |
| Individual accounting courses— | | | | |
| Introductory | .01 | 03 | 02 | 01 |
| Financial and theory | .13* | .15* | .09* | .11* |
| Auditing | .06* | .06* | .09* | .03 |
| Tax | .10* | .05* | .01 | .08* |
| Cost and managerial | .04 | .00 | 02 | 02 |
| Governmental | .09* | .05* | .01 | 01 |
| International | 01 | 01 | .00 | 04* |
| Systems | 01 | .00 | .04 | 03 |
| CPA review | .05* | .04 | 05* | .00 |
| Other pertinent courses- | <u>.</u> | | 0.64 | ~ |
| Precalculus mathematics | 04 | 03 | 05* | 04 |
| Calculus | .11* | .07* | .06* | .05* |
| Statistics and probability | .05* | .03 | .05* | .00 03 |
| Computer Business low | 01 | 03 .00 | 02 01 | 03 .15 * |
| Business law | .02 | .00 | 01 | .15 |

*Statistically significant at 1% level.

Among the simple correlation coefficients, the most dramatic observation was the high *negative* correlation between hours of accounting (graduate training only) and examination success. In interpreting this result, one first should recognize that relatively few candidates (250) are involved, and thus data were subject to influence from intentional or unintentional misreporting by a small number of candidates. That such misreporting may have occurred is shown in the following comparison for principal groups within this category:

| Graduate hours | Percentage of | Credit Earned | | |
|----------------|------------------|---------------|---------|------|
| of Accounting | Candidates | None | Partial | Full |
| 1 to 18 hours | 8% | 35% | 40% | 2500 |
| 19 to 24 hours | 21 | 39 | 46 | 15 |
| 25 to 30 hours | 28 | 37 | 35 | 28 |
| 31 to 36 hours | 17 | 42 | 23 | 35 |
| 37 to 42 hours | 11 | 36 | 39 | 25 |
| Over 42 hours | 15 | 69 | 26 | 5 |

Candidates who reported over 42 hours were asserting that they had more than 14 accounting courses at the graduate level. In general this is considered unlikely; even if true it would likely be evidence of a weak program where quantity replaces quality. The poor results for these candidates was the cause of the negative correlation coefficients.

Relatively poor results in the high hour ranges also affected the correlation coefficients for the other two accounting hour categories (undergraduate training only and training at both graduate and undergraduate levels) as well as those for several individual courses.

Simple correlation coefficients for hours of accounting and scores on individual examination sections, excluding highest ranges—over 48 hours for candidates with undergraduate training only (6% of these candidates), over 42 hours for candidates (15%) with graduate training only, and over 54 hours (13%) for those with training at both levels are as follows:

| | Accounting Practice | Accounting Theory | Auditing | Business Law |
|-----------------------------|------------------------|----------------------|----------|-----------------|
| Undergraduate training only | .10* | .10* | .04* | .06* |
| Graduate training only | .04 | .11 | 07 | .10 |
| Training at both levels | .05 | .05 | 02 | .01 |

*Significant at 1% level

These coefficients present a more realistic assessment of the relationship between performance and the relevant range of accounting hours.

The lower half of Table 21 shows partial correlation coefficients. The objective of partial correlation is to adjust for the effects of indirect influences. For example, the high simple coefficients noted in Table 21 for calculus training are not indicative of the specific value of calculus to preparation for the examination. Rather they show that the students who are superior candidates are more likely to elect calculus in college. The partial correlation coefficients, which adjust for level of education, SAT scores, grade point average, and extent of independent study, present a more realistic assessment of the importance of calculus—note that it still is a positive, statistically-significant factor.

Among individual accounting courses, hours of financial and theory were most strongly associated with examination scores—this observation held for all four sections, but (as one would expect) correlations were highest for theory and practice. Similarly, additional hours of auditing were associated with higher auditing scores, and tax and governmental courses aided in practice. All of these observations were as expected, given the content of the section examinations. Courses in taxation also were correlated positively with business law scores, presumably because tax practitioners often have legal training.

There was minor impact on examination performance from courses in cost, managerial accounting, and international accounting. The same was true of systems and CPA review courses, once the impact of other influences was eliminated in the partial coefficient computation. Negative coefficients were associated with introductory accounting hours, evidencing that weaker candidates attend programs that stretch out the introductory sequence. Among non-accounting courses, the effect of business law hours on the business law score was the most pronounced. Other than business law and calculus, the only course with a positive effect was statistics and probability (for auditing and practice). As with introductory accounting, the coefficients for precalculus mathematics were all negative. This shows that the weaker candidates are more likely to attend schools that make lower mathematical demands on their students and/or to require remedial college work in mathematics.

As with total accounting hours, the relationship presented in Table 21 for individual courses may be understated because of misreporting in the highest ranges of hours.

Success ratios for examination-related courses and examination sections are presented in Table 22. This table further develops and adds more detail to Table 21 and shows the pattern of the relationships. In most cases Table 22 shows increasing examination success as more pertinent courses were taken. However, there was a point associated with a level of maximum success; as candidates exceeded desirable levels (which varied among courses) their chances of success generally started to decline; this pattern prevailed in most courses but not all, e.g., financial and accounting theory.

TABLE 22 RELATIONSHIP OF SEMESTER HOURS IN SELECTED AREAS TO SUCCESS RATIOS ON SELECTED SECTIONS FOR FIRST-TIME MAY 1980 CANDIDATES

| Financial and Accounting theory— | |
|--|-----------|
| Accounting theory— | er 9 |
| Accounting theory— | |
| • • | |
| | 40 |
| Accounting practice .84 .87 .93 1.20 1.3 | 30 |
| Auditing— | |
| | 70 |
| Tax— | |
| Accounting practice .91 .97 1.16 1.12 1.3 | 33 |
| Cost and managerial— | |
| Accounting theory .89 1.16 1.18 1.24 1.0 | 03 |
| Accounting practice .82 1.05 1.09 1.16 1.0 | 03 |
| Governmental— | |
| Accounting theory 1.14 1.21 .94 .47 .47 | 42 |
| | 56 |
| International- | |
| Accounting theory 1.16 1.20 .61 .82 – | - |
| Accounting practice 1.07 1.13 .55 .88 – | - |
| Systems | |
| Auditing .89 1.04 1.06 1.22 1.1 | 14 |
| CPA problems— | |
| Auditing .92 .98 1.14 .97 .5 | 88 |
| Accounting theory 1.07 1.37 1.45 1.16 1.0 |)4 |
| Business law .95 1.13 1.21 1.09 .7 | 79 |
| Accounting practice 1.25 1.04 1.02 .98 1.1 | 10 |
| Statistics and probability— | |
| Auditing 1.14 .89 .95 1.12 1.1 | 14 |
| Computer— | |
| Auditing .97 .95 .97 .93 1.0 |)2 |
| Business law— | |
| Business law 1.02 .84 1.00 1.26 1.2 | 28 |

Comparison of Accounting and Non-Business Students

One of the perplexities of this and prior USIQ studies is the lack of correlation between accounting education and examination success. Non-business candidates perform as well or better than accounting and business candidates. In part, these results occur because non-business candidates are more likely to seek advanced degrees. However, even after this effect is removed by partial correlation the observation still holds.

This result indicates that non-business candidates assimilate the knowledge necessary for the examination in a different manner than in traditional courses and/or that they have superior aptitudes for accumulating, applying, and communicating knowledge. To obtain evidence in this area, the characteristics of five separate groups of first-time May 1980 candidates were studied. These five groups and their relative examination performances were as follows:

| | No Credit | Partial Credit | Full Credit |
|----------------------|-----------|-------------------|----------------|
| No advanced degree— | | | |
| Accounting major | 59% | 28% | 13% |
| Liberal arts major | 43 | 30 | 27 |
| Advanced degree— | | | |
| MBA accounting major | 42 | 35 | 23 |
| Master of accounting | 39 | 36 | 25 |
| Non-business masters | 39 | 30 | 31 |

Accounting majors constituted 92% of those candidates without advanced degrees; liberal arts majors were 2%. Among holders of advanced degrees, MBA accounting majors were the largest group—38% of first-time candidates; masters of accounting were at 21%, and non-business masters at 8.5%. (The other large groups, undergraduate business majors and non-accounting MBAs were excluded as non-pertinent.)

Undergraduate liberal arts majors outperformed accounting majors on all subjects of the examination. Similarly, holders of non-business masters did better than MBA accounting majors. However, as shown in Table 10, masters in accounting were associated with higher scores on accounting theory and accounting practice than non-business masters.

Table 23 summarizes pertinent factors concerning these five groups. Among these are total hours of accounting, SAT scores, undergraduate grade point average, accreditation of accounting program, average hours of coaching course per section, and average hours of independent study per section.

Undergraduate accounting majors not only had more hours of accounting than liberal arts majors but were more likely to have obtained their training at accredited schools. However, the liberal arts majors are not undertrained in accounting. A large majority (72%) have over 24 semester hours of accounting, i.e., over eight courses.

The principal advantage of liberal arts students—presumably the cause of their superior performance—is their higher academic aptitude as indicated by their higher SAT scores. There were more than twice as many liberal arts students with verbal scores over 600 and 30% more with mathematics scores over 600. Liberal arts students also had slightly more hours of CPA coaching classroom study and independent study. There was little difference in the two groups in undergraduate grade point averages.

Comparisons among the holders of graduate degrees were similar. Candidates with masters in accounting had the most accounting training, followed by the MBA accounting majors and the non-business masters. A similar order prevailed for program accreditation. Offsetting this, non-business masters were associated with higher SAT scores, both verbal and mathematics; MBA accounting majors had higher mathematics scores than the masters in accounting, but verbal scores for the two were nearly equal. MBA accounting majors had the most hours of classroom CPA coaching, and non-business masters the most hours of independent study; both groups exceeded the master of accounting graduates. Grade point averages again were similar.

These comparisons show that two-dimensional comparisons among educational groups may be misleading. There certainly are valid reasons (primarily the higher scholastic ability evidenced by higher SAT scores) why liberal arts undergraduate majors outperform accounting majors. A similar observation explains why holders of non-business masters degrees do as well as graduates of accounting programs.

TABLE 23 CHARACTERISTICS OF SELECTED GROUPS OF NON-BUSINESS AND ACCOUNTING STUDENTS INCLUDED IN FIRST-TIME MAY 1980 CANDIDATES

| | Undergr | aduate | | Graduate | |
|--|---------------------|-----------------|-------------------|-------------------------|--------------------------|
| | Accounting Major | Liberal Arts | MBA Accounting | Master of Accounting | Non-business Master's |
| Accounting hours— | | | | | <u> </u> |
| 1 to 24 | 13% | 28% | 14% | 6% | 26% |
| 25 to 30 | 35 | 37 | 19 | 7 | 36 |
| 31 to 36 | 28 | 26 | 21 | 16 | 20 |
| 37 to 42 | 13 | 5 | 17 | 19 | 12 |
| Over 42 | 11 | 4 | 29 | 52 | 6 |
| SAT verbal score— | | | | | |
| 200 to 399 | 8% | 1 % | 4% | 5% | <u> </u> |
| 400 to 499 | 21 | 7 | 16 | 14 | 9 |
| 500 to 599 | 46 | 36 | 41 | 39 | 23 |
| 600 to 699 | 20 | 46 | 33 | 36 | 54 |
| 700 to 800 | 5 | 10 | 6 | 6 | 14 |
| SAT mathematics score— | | | | | |
| 200 to 399 | 1 % | % | % | 1 % | <u> </u> |
| 400 to 499 | 9 | 5 | 4 | 7 | 4 |
| 500 to 599 | 34 | 21 | 23 | 27 | 14 |
| 600 to 699 | 43 | 50 | 44 | 45 | 41 |
| 700 to 800 | 13 | 24 | 29 | 20 | 41 |
| Undergraduate grade point average—overall— | | | | | |
| 3.50 to 4.00 | 27% | 26% | 27% | 28% | 27% |
| 3.00 to 3.49 | 40 | 43 | 41 | 42 | 39 |
| 2.50 to 3.00 | 26 | 26 | 27 | 23 | 28 |
| Under 2.50 | 7 | 5 | 5 | 7 | 6 |
| AACSB accredited | | | | | |
| business program— | | | | | |
| Bachelor's-Master's | 45% | 34% | 43% | 59% | 33% |
| Masters's only | — | 5 | 8 | - | 3 |
| Bachelor's only | 12 | 10 | 12 | 9 | 7 |
| Not accredited by AACSB | 43 | 51 | 37 | 32 | 57 |
| Average hours of | | | | | |
| classroom coaching— | | | | | |
| None | 52% | 47% | 46% | 57% | 46% |
| 1-15 | 18 | 15 | 16 | 17 | 17 |
| 16-35 | 13 | 12 | 15 | 13 | 18 |
| 36-55 | 15 | 24 | 21 | 11 | 18 |
| Over 55 | 2 | 2 | 2 | 2 | 1 |
| Average hours of | | | | | |
| independent study- | | | | | |
| None | 5 % | 4% | 4% | 7% | 2% |
| 1-15 | 37 | 33 | 27 | 33 | 26 |
| 16-35 | 31 | 33 | 33 | 29 | 27 |
| 36-55 | 18 | 20 | 20 | 18 | 29 |
| Over 55 | 9 | 10 | 16 | 13 | 16 |

IV. WORK EXPERIENCE

As in previous USIQ studies, data were related to work experience in public accounting, private accounting, governmental accounting, and full-time accounting teaching. Historical comparisons of the type of work experience for first-time and repeat candidates are presented in Table 24.

As noted in Section II, candidates are taking the CPA Examination earlier. This is consistent with a long-term trend for states to eliminate experience requirements.

Candidates from public accounting are much more likely to sit for the examination early in their careers. In fact, more than twice as many first-time May 1980 candidates had a year of experience (or more) in private accounting as had similar public accounting experience.

In Table 24 candidates not indicating any experience have been combined with those who had less than one year of experience. This was done in part to provide comparability with prior studies. The percentages of first-time candidates indicating "less than one year's experience" were as follows:

| Public | 29% |
|--------------------|-----|
| Private | 14% |
| Governmental | 7% |
| Full-time teaching | 4% |

Combining the above percentages with those appearing in Table 24 indicates that first-time candidates with some experience in public accounting were 38%; private accounting 34%; governmental accounting 13%; and full-time teaching 5%. Similar figures for repeat candidates were: public accounting 73%, private accounting 41%, governmental accounting 15%, and teaching full-time 5%.

TABLE 24 HISTORICAL COMPARISON OF WORK EXPERIENCE FOR FIRST-TIME AND REPEAT MAY CANDIDATES

| | | First-time Candidates | | | Repeat Candidates | |
|--------------------------------|------|--------------------------|------|------|----------------------|--------|
| | 1970 | 1975 | 1980 | 1970 | 1975 | 1980 |
| Public accounting— | | | | | | |
| None or less than one year | 76% | 84% | 91% | 39% | 42% | 49% |
| One to three years | 21 | 13 | 7 | 42 | 43 | 39 |
| Four to six years | 2 | 2 | 1 | 11 | 9 | 7 |
| Over six years | 1 | 1 | 1 | 8 | 6 | 5 |
| Private accounting— | | | | | | |
| None or less than one year | 83% | 82% | 80% | 73% | 75% | 69% |
| One to three years | 10 | 11 | 12 | 14 | 15 | 18 |
| Four to six years | 4 | 3 | 4 | 4 | 4 | 6 |
| Over six years | 3 | 4 | 4 | 9 | 6 | 7 |
| Governmental accounting— | | | | | | |
| None or less than one year | 92% | 92% | 94% | 90% | 88% | 90% |
| One to three years | 5 | 6 | 4 | 4 | 7 | 6 |
| Four to six years | 1 | 1 | 1 | 2 | 3 | 2 |
| Over six years | 2 | 1 | 1 | 4 | 2 | 2 2 |
| Teaching accounting full-time— | | | | | | |
| None or less than one year | 99% | 99% | 99% | 99% | 99 % | 98% |
| One or more years | 1 | 1 | 1 | 1 | 1 | 2 |

Some candidates had experience in more than one accounting area. These relationships are presented in Table 25. In this table the percentages of total candidates with any experience are presented in the left-hand column, and the percentages with one or more years in any area are shown in the four right-hand columns. For example, 73% of repeat candidates had some experience in public accounting, as noted above. Of this group, 69% had one or more years of experience in public accounting, 24% had one or more years in private accounting, 6% had one or more years of governmental accounting, and 2% had one or more years of teaching.

TABLE 25INTERRELATIONSHIPS AMONG WORK EXPERIENCESBY TYPE FOR MAY 1980 CANDIDATES

| Type of Experience | Percentage of Group With Percentage One or More Years of Experience i | | | | |
|-------------------------|--|-------------|---------|--------------|----------|
| | | Public | Private | Governmental | Teaching |
| | — First-Time Ca | andidates — | | | |
| Public accounting | 38% | 23% | 16% | 4% | 1 % |
| Private accounting | 34 | 9 | 58 | 5 | 2 |
| Governmental accounting | 13 | 9 | 18 | 50 | 2 |
| Teaching full-time | 5 | 13 | 26 | 9 | 21 |
| | — Repeat Can | didates — | | | |
| Public accounting | 73% | 69% | 24% | 6% | 2% |
| Private accounting | 41 | 44 | 74 | 9 | 3 |
| Governmental accounting | 15 | 30 | 31 | 68 | 4 |
| Teaching full-time | 5 | 48 | 49 | 19 | 34 |

Another way of viewing work experience is by determining its nature. These data, collected for the first time in 1980, are presented in Table 26. The most interesting result in this table is the number of first-time candidates who had "other" types of accounting experience, particularly those with more than one year of this experience. As expected, numerous first-time candidates had some auditing and tax experience, and a majority of repeat candidates had experience in these areas.

TABLE 26 PERCENTAGES OF MAY 1980 CANDIDATES INDICATING EXPERIENCE IN SELECTED FUNCTIONAL AREAS

| | Experience in | | | | |
|-----------------------|-------------------|----------|-----|-------|--|
| | Auditing | Tax | MAS | Other | |
| | — First-Time Cand | idates — | | | |
| Less than one year | 26% | 18% | 2% | 15% | |
| One to three years | 8 | 6 | 2 | 12 | |
| Four to six years | 1 | 1 | _ | 4 | |
| Over 6 years | 1 | 1 | — | 6 | |
| Total with experience | 36% | 26% | 4 % | 37% | |
| | - Repeat Candid | ates — | | | |
| Less than one year | 26% | 20% | 5% | 11% | |
| One to three years | 36 | 23 | 4 | 18 | |
| Four to six years | 7 | 5 | 1 | 6 | |
| Over 6 years | 5 | 5 | 1 | 8 | |
| Total with experience | 74% | 53% | 11% | 43% | |

Table 27 relates the branch of the profession where experience was obtained to the nature of the experience. The top half of this table includes those candidates with any experience (even if less than one year) and all functional areas where they had any experience whatsoever. The bottom half includes only those candidates that indicated more than one year of experience in any branch of the profession and the functional areas where these candidates showed at least one year of experience. Table 27 illustrates that the candidates with "other" experience primarily obtained it in an area other than public accounting. Auditing and tax experience, as expected, tended to be related to public accounting.

TABLE 27 RELATIONSHIP BETWEEN TYPE OF EXPERIENCE AND NATURE OF EXPERIENCE FOR MAY 1980 CANDIDATES

| | Nature of Experience | | | |
|-------------------------|----------------------|--------------|-----|-------|
| | Auditing | Tax | MAS | Other |
| | — Any Experier | nce — | | |
| First-time candidates— | | | | |
| Public accounting | 80% | 64% | 10% | 45% |
| Private accounting | 46 | 31 | 7 | 88 |
| Governmental accounting | 68 | 41 | 8 | 60 |
| Teaching full-time | 35 | 33 | 12 | 64 |
| Repeat candidates— | | | | |
| Public accounting | 94 | 70 | 15 | 40 |
| Private accounting | 82 | 60 | 15 | 87 |
| Governmental accounting | 87 | 59 | 14 | 58 |
| Teaching full-time | 73 | 75 | 25 | 75 |
| _ | One or More Years of | Experience — | | |
| First-time candidates— | | | | |
| Public accounting | 50% | 61% | 15% | 53% |
| Private accounting | 29 | 19 | 5 | 89 |
| Governmental accounting | 68 | 42 | 7 | 62 |
| Teaching full-time | 29 | 31 | 11 | 80 |
| Repeat candidates— | | | | |
| Public accounting | 83 | 60 | 11 | 34 |
| Private accounting | 63 | 41 | 10 | 88 |
| Governmental accounting | 80 | 47 | 8 | 51 |
| Teaching full-time | 56 | 53 | 23 | 87 |
| ÷ | | | | |

Tables 28 and 29 reinforce the observation, made in previous USIQ studies, that work experience does not contribute significantly to examination success. In Section II it was reported that first-time candidates, as a group, passed all four parts of the examinations 15% of the time and obtained partial credit in 28% of the cases. Table 28 shows that only full-time teachers as a work group achieved partial and full credit in greater percentages than all other types of first-time candidates. Candidates with MAS experience are representative of the group of all first-time candidates. Moreover, these two groups were the only ones where the performance of candidates with one or more years experience exceeded that of all candidates with experience of any duration; in all other groups examination performance declined with more work experience. Accounting experience should not be construed to be bad in itself. Quite the contrary, this seems to indicate that other effects offset the benefits of experience—weaker candidates tend to defer taking the examination and the benefits of academic preparation are lost as experience and separation from formalized education increase.

TABLE 28RELATIONSHIP OF WORK EXPERIENCE TOCREDIT EARNED BY FIRST-TIME MAY 1980 CANDIDATES

| | Percentage of Candidates Earning | | | |
|----------------------------------|----------------------------------|---------|--------|--|
| | No | Partial | Full | |
| | Credit | Credit | Credit | |
| Any experience— | | | | |
| Public accounting | 58% | 28% | 14% | |
| Private accounting | 62 | 26 | 12 | |
| Governmental accounting | 60 | 26 | 14 | |
| Teaching full-time | 48 | 32 | 20 | |
| Auditing | 59 | 27 | 14 | |
| Tax | 59 | 27 | 14 | |
| MAS | 57 | 28 | 15 | |
| Other | 59 | 27 | 14 | |
| One or more years of experience— | | | | |
| Public accounting | 61 | 27 | 12 | |
| Private accounting | 63 | 26 | 11 | |
| Governmental accounting | 64 | 24 | 12 | |
| Teaching full-time | 43 | 37 | 20 | |
| Auditing | 60 | 26 | 14 | |
| Tax | 63 | 25 | 12 | |
| MAS | 57 | 27 | 16 | |
| Other | 61 | 27 | 12 | |

Among successful May candidates (i.e., candidates completing all remaining sections of the examination), 66% indicated some experience in public accounting. Corresponding experience rates for private accounting were 36%, for governmental 13% and for teaching 6%. November candidates of course typically have more experience. The indicated experience for successful candidates in November 1980, in comparison to November 1975 and November 1970, was as follows:

| | 1970 | 1975 | 1980 |
|-------------------------|------|------|------|
| Public accounting | 95% | 85% | 85% |
| Private accounting | 27 | 29 | 41 |
| Governmental accounting | 12 | 12 | 14 |
| Teaching full-time | 4 | 4 | 7 |

The questionnaire did not specifically inquire as to occupation at time of sitting for the examination. The previous data show some shift from public accounting to other accounting areas. Nevertheless, it still appears that a majority of new CPAs were employed in public accounting immediately after passing the examination.

Table 29, based on both first-time and repeat candidates, reaffirms the superior performance of teachers in all sections of the examination except auditing. Public accounting experience and auditing experience (often acquired jointly) led to slightly superior performance on the auditing section, and those candidates with public accounting, governmental accounting, and MAS experience had slightly above-average performance in business law. Generally, work experience was associated with success ratios below 1, indicating performance below the overall average.

TABLE 29RELATIONSHIP OF WORK EXPERIENCE TOEXAMINATION SUCCESS FOR MAY 1980 CANDIDATES

| | Success Ratios | | | |
|----------------------------------|------------------------|----------------------|----------|-----------------|
| | Accounting Practice | Accounting Theory | Auditing | Business Law |
| Any experience— | | | | |
| Public accounting | .99 | .94 | 1.07 | 1.00 |
| Private accounting | .93 | .90 | .91 | .93 |
| Governmental accounting | .89 | .88 | .90 | 1.01 |
| Teaching full-time | 1.14 | 1.15 | 1.04 | 1.18 |
| Auditing | .97 | .94 | 1.03 | .98 |
| Tax | .96 | .92 | .97 | .99 |
| MAS | .98 | .96 | 1.02 | 1.00 |
| Other | .96 | .94 | .97 | .95 |
| One or more years of experience- | | | | |
| Public accounting | .99 | .85 | 1.04 | 1.02 |
| Private accounting | .92 | .85 | .89 | .90 |
| Governmental accounting | .83 | .79 | .88 | 1.01 |
| Teaching full-time | 1.29 | 1.20 | 1.01 | 1.22 |
| Auditing | .96 | .92 | 1.07 | .97 |
| Tax | .93 | .83 | .90 | .97 |
| MAS | .96 | .88 | .96 | 1.07 |
| Other | .92 | .90 | .90 | .92 |

Table 30 summarizes correlation coefficients between work experience and scores on individual examination sections. The top half of the table presents unadjusted simple coefficients. In the partial coefficients presented in the lower half the effects of educational level, SAT scores, undergraduate point average, and hours of independent study have been eliminated. The partial coefficients constitute a more realistic picture of the effects of experience on examination performance.

The results in Table 30 are consistent with those previously noted. There were relatively minor associations between experience and examination performance, and these effects usually were diminished by the partial computation. For example, public accounting experience, which had a statistically-significant negative simple coefficient when associated with auditing scores, showed no association when the partial coefficient was computed.

Only auditing experience (with accounting theory, business law, and accounting practice) and tax experience (with auditing and accounting theory) had statistically-significant partial correlation coefficients; both are negative. Full-time teaching was the only area with consistently positive coefficients; however, none of these relationships were statistically significant.

TABLE 30 CORRELATIONS BETWEEN WORK EXPERIENCE AND FIRST-TIME MAY 1980 SCORES ON INDIVIDUAL EXAMINATION SECTIONS

| Nature of Experience | Accounting Practice | Accounting Theory | Auditing | Business Law |
|-------------------------|------------------------|----------------------|----------|-----------------|
| — S | imple Correlation C | oefficients — | | |
| Public accounting | 02 | 10* | 06* | .00 |
| Private accounting | .00 | 06* | 02 | 03 |
| Governmental accounting | 06 | 13* | 02 | .03 |
| Teaching full-time | .07 | .04 | .01 | .07 |
| Auditing | 07* | 11* | .01 | 05* |
| Tax | 03* | 13* | 11* | .00 |
| MAS | .01 | 01 | .03 | .04* |
| Other | 03 | 05* | 03* | 02 |
| — P | artial Correlation C | oefficients — | | |
| Public accounting | 02 | 06 | .00 | 06 |
| Private accounting | 01 | 05 | .05 | 01 |
| Governmental accounting | 01 | 10 | .01 | .03 |
| Teaching full-time | .03 | .04 | .07 | .02 |
| Auditing | 07* | 12* | .04 | 10* |
| Tax | .01 | 10* | 08* | 02 |
| MAS | .00 | .01 | .02 | 01 |
| Other | 01 | .01 | .01 | .00 |
| | | | | |

*Statistically significant at 1% level.

V. PREVIOUS ACADEMIC PERFORMANCE

Most of the characteristics discussed in this report are ones that the candidate has acquired that might help him/her prepare for the CPA Examination—experience, education, coaching courses, etc. In this section consideration is given to two sets of variables which measure the candidate's previous performance and ability to perform. These are academic grade point averages and scores on academic aptitude and achievement tests. Both sets of data introduce a qualitative aspect that is not present in some of the other reported variables. Of the two, test scores are a more objective standard since they are normed nationally. Grade point averages may vary among both institutions and instructors.

Unfortunately, both of these variables are subject to misreporting, either intentional or unintentional. Test scores in particular may be difficult to remember; in fact, less than 25% of the candidates cited test scores on their questionnaires.

Grade Point Averages

Overall and accounting grade point averages are compared to 1975 (the first year these data were collected) in Table 31. This table shows that grade inflation, a phenomenon of the late 1960's, is still occurring in 1980, particularly at the undergraduate level. Many repeat candidates reported grade point averages above 3.00 (and even 3.50), thus indicating that high grades were less likely than in the past to predict examination success, in particular attaining full credit at the first sitting for the examination.

TABLE 31COLLEGIATE GRADE POINT AVERAGESFOR MAY 1975 AND MAY 1980 CANDIDATES

| | First-Time Candidates | | Repeat Candidates | |
|---------------------------|--------------------------|------|----------------------|------|
| | 1975 | 1980 | 1975 | 1980 |
| Undergraduate overall— | | | | |
| 3.50 to 4.00 | 18% | 27% | 9% | 19% |
| 3.00 to 3.49 | 36 | 39 | 32 | 40 |
| 2.50 to 3.00 | 33 | 27 | 41 | 32 |
| Under 2.50 | 13 | 7 | 18 | 9 |
| Undergraduate accounting— | | | | |
| 3.50 to 4.00 | 32% | 35% | 23% | 32% |
| 3.00 to 3.49 | 36 | 36 | 40 | 54 |
| 2.50 to 3.00 | 23 | 22 | 27 | 11 |
| Under 2.50 | 9 | 7 | 10 | 3 |
| Graduate overall— | | | | |
| 3.50 to 4.00 | 39% | 44% | 29% | 27% |
| 3.00 to 3.49 | 44 | 44 | 49 | 42 |
| 2.50 to 3.00 | 12 | 9 | 17 | 24 |
| Under 2.50 | 5 | 3 | 5 | 7 |
| Graduate accounting— | | | | |
| 3.50 to 4.00 | 47% | 51% | 40% | 41% |
| 3.00 to 3.49 | 40 | 39 | 46 | 50 |
| 2.50 to 3.00 | 10 | 7 | 11 | 7 |
| 2.00 to 2.49 | 3 | 3 | 3 | 2 |

Overall, good grades remained one of the better predictors of success on the CPA Examination. Table 32 presents success ratios for the four examination sections and overall credit earned in terms of undergraduate grade point averages for first-time candidates. Note, for example, that persons with overall grade averages of 3.5 or better were nearly twice as likely to pass the auditing examination as those in the 3.0 to 3.5 range. The 3.5 group was five times as likely to pass all parts of the examination and four times as likely to earn credit for at least one part as those candidates below the 3.0 group.

While there was variability among all sections based on grade point average, the contrast between grade point average groups was greatest for auditing. This probably occurred because of the greater difficulty of the auditing examination for candidates in general and first-time candidates in particular—only the top candidates tended to pass. Success ratios were higher for theory and practice in all grade point average groups because first-time candidates in general did better on these sections.

Table 32 shows little difference in the relative predictive ability of overall grade point averages and accounting averages with respect to individual examination sections. However, candidates with accounting averages under 3.5 were less likely to earn full or partial credit than those with overall averages under 3.5.

TABLE 32 RELATIONSHIP OF EXAMINATION SUCCESS AND CREDIT EARNED TO UNDERGRADUATE GRADE POINT AVERAGES FOR FIRST-TIME MAY 1980 CANDIDATES

| | Grade Point Averages | | | |
|-----------------------------------|----------------------|--------------|--------------|--------------|
| | Under 2.50 | 2.50 to 2.99 | 3.00 to 3.49 | 3.50 to 4.00 |
| — Overall | Undergraduate | Average — | | |
| Success ratios by section— | | | | |
| Accounting practice | .46 | .62 | 1.05 | 1.74 |
| Accounting theory | .48 | .71 | 1.14 | 1.83 |
| Auditing | .38 | .52 | .88 | 1.65 |
| Business law | .45 | .64 | .96 | 1.61 |
| Percentage of candidates earning— | | | | |
| Full credit | 4% | 6% | 13% | 31% |
| Partial credit | 15 | 20 | 30 | 36 |
| No credit | 81 | 74 | 57 | 33 |
| — Undergra | iduate Accountin | g Average — | | |
| Success ratios by section— | | | | |
| Accounting practice | .34 | .50 | .92 | 1.77 |
| Accounting theory | .44 | .62 | 1.05 | 1.81 |
| Auditing | .36 | .44 | .81 | 1.59 |
| Percentage of candidates earning— | | | | |
| Full credit | 4% | 4% | 11% | 31% |
| Partial credit | 13 | 20 | 29 | 37 |
| No credit | 83 | 76 | 60 | 32 |

The simple correlation coefficients provided in Table 33 reaffirm the findings of Table 32 and show that graduate grade point averages also were associated with examination success. Grade point averages were positively related to scores for repeat candidates, but these correlations were not as great as for first-time candidates; this presumably occurred because repeat candidates were separated for a longer period from their college courses.

TABLE 33 CORRELATIONS BETWEEN COLLEGIATE GRADE POINT AVERAGES AND SCORES ON INDIVIDUAL SECTIONS FOR MAY 1980 CANDIDATES

| | Accounting Practice | Accounting Theory | Auditing | Business Law |
|--------------------------|------------------------|----------------------|----------|-----------------|
| First-time candidates— | | | | |
| Undergraduate overall | .34 | .38 | .35 | .30 |
| Undergraduate accounting | .39 | .40 | .36 | .32 |
| Graduate overall | .32 | .35 | .35 | .26 |
| Graduate accounting | .31 | .32 | .30 | .27 |
| Repeat candidates— | | | | |
| Undergraduate overall | .13 | .19 | .24 | .14 |
| Undergraduate accounting | .15 | .18 | .21 | .14 |
| Graduate overall | .15 | .18 | .20 | .13 |
| Graduate accounting | .17 | .17 | .19 | .11 |

All relationships are statistically significant at the 1% level.

Test Scores

Data were collected on the following aptitude and achievement tests: Scholastic Aptitude Test (SAT), American College Test (ACT), Graduate Record Examination (GRE), Graduate Management Admissions Test (GMAT), AICPA Accounting Orientation Test, and AICPA Level II Achievement Test. As noted, relatively few candidates could recall their scores. Total responding, both first-time and repeat candidates, were as follows:

| SAT | 10,400 |
|-------------------|--------|
| ACT | 2,500 |
| GRE | 500 |
| GMAT | 800 |
| AICPA Orientation | 500 |
| AICPA Level II | 800 |

Not all candidates would have taken these examinations, but certainly more than those shown would have sat for such common indicators as the SAT and ACT.

Table 34 presents comparative SAT scores for first-time candidates who reported scores in May 1975 and May 1980. There was a slight decline in scores, both verbal and mathematics. This finding was consistent with the national trend. First-time candidates with the highest aptitude scores did not have quite as much success in 1980 as in 1975. In 1975 full credit was earned by 55% of the candidates with verbal scores in excess of 700 and 38% of the candidates with mathematics scores over 700. However, SAT scores continued to be highly associated with examination success.

TABLE 34 SAT SCORES FOR FIRST-TIME CANDIDATES IN MAY 1975 AND MAY 1980 AND RELATIONSHIP TO CREDIT EARNED IN MAY 1980

| | | Percentage of Candidates | | of 1980 Candida | tes Earning |
|--------------------|------|-----------------------------|--------------|-------------------|----------------|
| | 1975 | 1980 | No Credit | Partial Credit | Full Credit |
| Verbal score— | | | | | |
| 700 to 800 | 3% | 2% | 25% | 30% | 45% |
| 600 to 699 | 21 | 20 | 33 | 35 | 32 |
| 500 to 599 | 43 | 43 | 45 | 35 | 20 |
| 400 to 499 | 28 | 28 | 60 | 28 | 12 |
| 200 to 399 | 5 | 7 | 70 | 24 | 6 |
| Mathematics score- | - | | | | |
| 700 to 800 | 18% | 16% | 25% | 40% | 35% |
| 600 to 699 | 42 | 42 | 43 | 35 | 22 |
| 500 to 599 | 31 | 33 | 61 | 27 | 12 |
| 400 to 499 | 8 | 8 | 75 | 19 | 6 |
| 200 to 399 | 1 | 1 | 80 | 13 | 7 |

By way of comparison, the SAT scores for 991,000 high school seniors in 1980 were distributed as follows:

| | Verbal | |
|------------|--------|----|
| 700 to 800 | 1 % | 3% |
| 600 to 699 | 6 | 12 |
| 500 to 599 | 18 | 25 |
| 400 to 499 | 33 | 30 |
| 200 to 399 | 42 | 30 |

As one would expect, CPA Examination candidates appear to be drawn from a group that is superior in academic aptitude. As previously noted, however, overreporting of SAT scores by examination candidates may affect this comparison.

There was a substantial increase in the number of first time candidates (over 1,000) who reported their ACT scores in 1980. Therefore, the distribution of scores, which follows, was considered more reliable than in 1975.

| | ACT Verbal | ACT Mathematics | |
|--------------|---------------|--------------------|--|
| 32 and above | 1 % | 15% | |
| 28 to 31 | 13 | 38 | |
| 24 to 27 | 33 | 31 | |
| 20 to 23 | 35 | 10 | |
| Below 20 | 18 | 6 | |

ACT scores, as with SAT scores, were highly associated with examination success. Among candidates with verbal scores of 28 or above, 37% passed all parts and 34% received partial credit; corresponding figures for the Below-20 group were 10% and 21%, respectively. For candidates with mathematics scores of 32 or above, 43% achieved full credit and 37% partial credit; in the 23 or below mathematics group (a group of corresponding size) 9% received full credit and 23% partial credit.

Data on aptitude tests for graduate candidates (GRE and GMAT) were collected for the first time in 1980. Because of the relatively small numbers of candidates involved, Table 35 presents these data for all candidates, i.e., first-timers and repeaters combined. Despite differences in the distribution of scores between the two tests, generally both show improving examination performance as scores increase. The exceptions (the lowest score range for the GRE quantitative and the highest score range for the GMAT) were situations involving extremely few candidates.

TABLE 35SCORES ON GRADUATE STUDY APTITUDEEXAMINATIONS FOR MAY 1980 CANDIDATESAND RELATIONSHIP TO CREDIT EARNED

| | Scores | | | | | | |
|------------------------------|--|--------------|---------------|------------|------------|--|--|
| | 200 to 399 | 400 to 499 | 500 to 599 | 600 to 699 | 700 to 800 | | |
| — Pe | - Percentage of Reporting Candidates — | | | | | | |
| Graduate Record Examination— | | | | | | | |
| Verbal | 10% | 24% | 36% | 25% | 5% | | |
| Quantitative | 1 | 8 | 27 | 39 | 25 | | |
| GMAT— | | | | | | | |
| Verbal | 25 | 24 | 33 | 16 | 2 | | |
| Quantitative | 20 | 24 | 36 | 17 | 3 | | |
| | | | egory Earning | ç | | | |
| C | redit for One | or More Sect | ions — | | | | |
| Graduate Record Examination— | | | | | | | |
| Verbal | 40% | 49% | 56% | 61% | 79% | | |
| Quantitative | 57 | 35 | 50 | 53 | 65 | | |
| GMAT | | | | | | | |
| Verbal | 46 | 49 | 57 | 74 | 64 | | |

47

56

75

52

42

Quantitative

The AICPA Orientation Test, like the SAT and the ACT, is a test of the student's ability to succeed in academic work. Among reporting first-time candidates, 49% indicated that they were in the 90th percentile or higher (compared to 56% in 1975), and 73% (compared to 79% in 1975) claimed to be in the top quarter. The Orientation Test was highly associated with credit earned on the examination as indicated by the following results; 38% of the first-time candidates in the 90th percentile or higher earned full credit, and another 38% earned partial credit. Among candidates below the 75th percentile, 14% earned full credit and 36% earned partial credit.

The AICPA Level II Test, unlike the other tests cited in this study, measures achievement rather than aptitude. This test is usually given in the senior year and covers the undergraduate accounting curriculum. Therefore, it is more closely related to grade point averages as a concept (a measure of previous performance rather than potential). Still, the Level II Test has the advantage of being a national examination.

Table 36 summarizes the May 1975 and May 1980 distribution of Level II percentiles for reporting candidates and summarizes performance for the 1980 candidates. This table is based upon both first-time and repeat candidates, in view of the small numbers reporting in each group. This table indicates some decline in candidate scores since 1975. Success rates generally increased with higher test performance, with the exception of the lowest percentile group which included a smaller number of candidates.

TABLE 36 SCORES ON AICPA LEVEL II ACHIEVEMENT TEST FOR MAY CANDIDATES AND RELATIONSHIP TO CREDIT EARNED

| | Percentage of Candidates | | Percentage o | of 1980 Candi | idates Earning |
|---------------------|-----------------------------|------|--------------|-------------------|----------------------|
| | 1975 | 1980 | No Credit | Partial Credit | All Credit Needed |
| 90 to 99 percentile | 37% | 35% | 25% | 33% | 42% |
| 75 to 89 percentile | 33 | 36 | 41 | 32 | 27 |
| 50 to 74 percentile | 21 | 19 | 53 | 28 | 19 |
| 25 to 49 percentile | 7 | 5 | 65 | 23 | 12 |
| 0 to 24 percentile | 2 | 5 | 56 | 21 | 23 |

The Level II examination is normed; thus 10% of participants should fall in the 90 to 99 percentile, etc. Again CPA Examination candidates compare favorably to the general population of Level II participants, subject to the previous cautions as to potential overreporting by examination candidates.

Table 37 presents simple correlation coefficients for the examinations discussed above and the four CPA Examination sections. In general, verbal scores were more highly associated with auditing, theory, and business law; higher mathematics (or quantitative) scores were associated with better performance in practice. Given the content of these section examinations, the observed relationships were as expected. The Level II Achievement Test showed the highest correlations, particularly for theory and practice. This result confirmed the strong relationship between this test and the accounting knowledge attained in the undergraduate curriculum.

TABLE 37 CORRELATIONS BETWEEN TEST SCORES AND SCORES ON INDIVIDUAL SECTIONS FOR FIRST-TIME MAY 1980 CANDIDATES

| | Accounting Practice | Accounting Theory | Auditing | Business Law |
|-------------------|------------------------|----------------------|----------|-----------------|
| SAT verbal | .18* | .22* | .25* | .25* |
| SAT mathematics | .30* | .25* | .22* | .24* |
| ACT verbal | .22* | .23* | .28* | .20* |
| ACT mathematics | .38* | .31* | .27* | .27* |
| GRE verbal | .27* | .33* | .26* | .25* |
| GRE quantitative | .28* | .22* | .17 | .17 |
| GMAT verbal | .30* | .35* | .25* | .30* |
| GMAT quantitative | .32* | .32* | .24* | .27* |
| AICPA orientation | .24* | .18* | .18* | .33* |
| AICPA Level II | .45* | .42* | .32* | .30* |

*Statistically significant at 1% level

The pattern of correlations for repeat candidates was similar to that presented in Table 37, but coefficients were not as high, perhaps in part because repeat candidates may have been less likely to remember their scores and report them correctly. As an example of these differences, the correlations for SAT scores and individual section examination scores for May 1980 repeat candidates were as follows:

| | SAT | SAT |
|---------------------|--------|--------------------|
| | Verbal | Mathematics |
| Accounting practice | .06 | .11 |
| Accounting theory | .09 | .10 |
| Auditing | .12 | .10 |
| Business law | .10 | .09 |

VI. CPA COACHING COURSES

CPA coaching courses grew rapidly through the 1960's and early 1970's. They peaked in 1975 when over half of first-time candidates and two-thirds of repeat candidates reported that they had enrolled in some sort of course. In view of the increasing importance of these courses, candidates were asked for the first time in 1980 to identify the specific examination sections for which they had coaching course preparation and the range of classroom hours they devoted to each section.

Extent of Coaching Course Preparation By Type of Course and Section

Participation of first-time candidates in coaching courses increased in 1980, but there was a decline for repeat candidates. The latter was surprising and not completely explained, although the increase in availability and marketing of self-study books and courses may be a factor. The observed decline also may have been a result of changes in the design of the questionnaire. In 1975 candidates were asked to indicate whether they had a coaching course, but the course was not associated with a specific examination section. If a 1975 candidate indicated a coaching course that applied to a section which he/she had already passed, the course still would have been counted; it would not have been in 1980. The decline, therefore, must be viewed with some skepticism. Regardless of whether or not there has been a decline in coaching courses enrollment, these courses remain important since they are elected by over one-half of the candidates preparing for the CPA Examination.

Table 38 shows that a decline occurred in non-credit college courses. To some extent, this too may be a correction of prior year reporting. Candidates were instructed, both in 1980 and prior USIQ studies, to report college courses for credit in the "hours of accounting" section. However, this result may have been more obvious in 1980, when a specific "CPA coaching course" category was included under hours of accounting. In Section III, 28% of first-time candidates reported taking a CPA review course for credit.

Participation in staff coaching courses also declined in 1980. The biggest category, proprietary courses, had large gains among first-time candidates and only slight losses for repeat candidates. Correspondence courses rebounded from their decline in 1975.

| | IN CPA | COACHIN | G COURSES I | ву туре | | |
|--------------------------|---------|------------|-------------|---------|------------|------|
| | First-7 | Time Candi | dates | Repe | at Candida | ites |
| | 1970 | 1975 | 1980 | 1970 | 1975 | 1980 |
| Proprietary | | 25% | 35% | | 40% | 37% |
| College | | 25 | 19 | | 18 | 9 |
| Proprietary and College* | 35% | 50% | 54% | 40% | 58% | 46% |
| Staff | 4 | 2 | 1 | 7 | 5 | 2 |
| Correspondence | 2 | 1 | 2 | 7 | 4 | 6 |
| No course | 59 | 47 | 43 | 46 | 33 | 46 |
| | 100% | 100% | 100% | 100% | 100% | 100% |

TABLE 38 HISTORICAL COMPARISON OF PARTICIPATION IN CPA COACHING COURSES BY TYPE

*Proprietary and college courses were combined in 1970.

The request for specific information about the type of coaching course by section was premised on an expectation that more candidates would seek coaching help in specific sections, most probably business law. Table 39 indicates that by and large there is a consistency among the examination sections, regardless of the type of coaching course taken.

TABLE 39 TYPE OF CPA COACHING COURSE BY EXAMINATION SECTION FOR MAY 1980 CANDIDATES

| | Accounting Practice | Accounting Theory | Auditing | Business Law |
|--|---------------------------|---------------------------|---------------------------|---------------------------|
| | — First-Time Candid | lates — | | |
| Proprietary College Staff Correspondence No course | 32% 18 1 2 47 | 33% 17 1 2 47 | 32% 16 1 2 49 | 33% 16 1 2 48 |
| | — Repeat Candida | tes — | | |
| Proprietary College Staff Correspondence No course | 34% 9 2 5 50 | 32% 8 2 6 52 | 30% 8 2 6 54 | 32% 8 2 5 53 |

Hours of Classroom Coaching Course Preparation

Table 40 summarizes classroom hours for CPA coaching courses and shows the variations in the classroom hours devoted to each examination section. Candidates spent the fewest classroom hours in business law courses, followed by auditing, accounting theory, and accounting practice. The median number of hours (for first-time candidates reporting classroom hours) was midway between 16 and 35 for business law, close to 35 for auditing, slightly above 36 for theory, and closer to 55 than 36 for practice.

TABLE 40 CLASSROOM HOURS OF CPA COACHING BY EXAMINATION SECTION FOR MAY 1980 CANDIDATES

| | Accounting Practice | Accounting Theory | Auditing | Business Law |
|----------------|------------------------|----------------------|----------|-----------------|
| | — First-Time Candic | lates — | | |
| 1 to 15 hours | 15% | 22% | 27% | 23% |
| 16 to 35 hours | 21 | 26 | 28 | 56 |
| 36 to 55 hours | 22 | 42 | 40 | 16 |
| Over 55 hours | 42 | 10 | 5 | 5 |
| | - Repeat Candida | tes — | | |
| 1 to 15 hours | 12% | 17% | 23% | 22% |
| 16 to 35 hours | 17 | 28 | 32 | 55 |
| 36 to 55 hours | 25 | 40 | 36 | 16 |
| Over 55 hours | 46 | 15 | 9 | 7 |

Relationship of Coaching Course Preparation to Examination Performance

Table 41 shows that coaching courses aid the candidates to perform better on the CPA Examination regardless of the section involved and the type of course undertaken. In all cases candidates with coaching courses had better success ratios than those without.

Coaching courses did vary in effectiveness by section. Proprietary course candidates had the strongest overall success rate, but the college coaching courses were slightly superior in accounting theory, and staff course candidates were slightly superior in accounting practice. Both the staff courses and the college courses were relatively inferior in auditing. Correspondence courses contributed strongly to success in both auditing and business law but made a smaller impact on theory and practice.

Classroom hours of coaching also were positively associated with examination performance. The simple correlation coefficients (all statistically significant at the 1% level) by examination section were:

| | First-Time Candidates | Repeat Candidates | |
|---------------------|--------------------------|----------------------|--|
| Accounting practice | .16 | .15 | |
| Accounting theory | .13 | .10 | |
| Auditing | .15 | .09 | |
| Business law | .15 | .11 | |

These relationships are further developed in the lower half of Table 41. In general this table indicates that examination performance improved as coaching course hours increased. With the exception of accounting practice, declining success rates occurred beyond 55 hours.

TABLE 41RELATIONSHIP OF TYPE OF CPA COACHINGCOURSE AND CLASSROOM HOURS OF COACHINGTO EXAMINATION SUCCESS FOR MAY 1980 CANDIDATES

| | Success Ratios | | | | | |
|-----------------------------|------------------------|----------------------|----------|-----------------|--|--|
| | Accounting Practice | Accounting Theory | Auditing | Business Law | | |
| Type of course— | | | | | | |
| Proprietary | 1.19 | 1.16 | 1.23 | 1.20 | | |
| College | 1.19 | 1.21 | 1.06 | 1.14 | | |
| Staff | 1.20 | 1.12 | 1.02 | 1.19 | | |
| Correspondence | .99 | .99 | 1.09 | 1.17 | | |
| No course | .89 | .91 | .94 | .91 | | |
| Classroom hours of coaching | | | | | | |
| None | .87 | .88 | .91 | .90 | | |
| 1 to 15 | .99 | 1.15 | 1.03 | 1.06 | | |
| 16 to 35 | 1.15 | 1.23 | 1.20 | 1.24 | | |
| 36 to 55 | 1.23 | 1.23 | 1.28 | 1.28 | | |
| Over 55 | 1.28 | 1.22 | .98 | 1.04 | | |

While CPA coaching courses still contributed to candidate success, their relative influence was not as great as it was in 1970. This is demonstrated in Table 42, which shows a decline in the percentage of coaching course candidates earning full or partial credit; candidates without coaching courses showed little or no change. To some extent the success of coaching courses may have led to their relative decline; in 1970 they were elected by the highly-motivated candidates; in 1975 and 1980 their previous success record led to enrollment of more marginal candidates.

Another noteworthy aspect of Table 42 is the resurgence of correspondence courses, which were extremely ineffective in 1975. In 1980, as in 1975, correspondence courses were much more successful for first-timers than repeat candidates. There is no obvious explanation for this phenomenon. College courses have less relative benefit to repeat candidates than first-timers, most likely because of greater time lapse between the coaching course and the examination.

TABLE 42 HISTORICAL COMPARISON OF CREDIT EARNED BY TYPE OF CPA COACHING COURSE

| | Percentage of Candidates Earning Full or Partial Credit | | | | | |
|--------------------------|---|-------------|------|--------|------|------|
| | | First-Time | | Repeat | | |
| | 1970 | <u>1975</u> | 1980 | 1970 | 1975 | 1980 |
| Proprietary | | 49% | 48% | | 51% | 53% |
| College | | 47 | 49 | | 47 | 48 |
| Proprietary and College* | 53% | | | 58% | | |
| Staff | 54 | 51 | 47 | 62 | 48 | 50 |
| Correspondence | 38 | 24 | 38 | 40 | 38 | 52 |
| No course | 37 | 38 | 38 | 48 | 44 | 48 |

*Proprietary and college courses were combined in 1970.

VII. INDEPENDENT STUDY

Hours of independent study has long been an unknown influence in assessing candidate performance. Obviously, the more time spent in preparing for the examination the better one's performance should be, provided the time is spent wisely (and other factors, e.g., grade point averages) are held constant.

In requesting candidates to indicate hours of independent study per section in 1980, it was recognized that this was an area subject to misreporting, not only intentionally in some cases, but also because of the need for estimation by the candidate. However, its importance justified an attempt to gather data.

As with hours of CPA coaching, independent study varied by examination section. The least amount of study was devoted to business law while accounting practice received the most. Auditing and accounting theory were nearly equal. For each of the four sections the median hours of preparation lay in the 16 to 35 hour range.

An interesting result was the number of candidates (approaching 10% for each section) who claimed they did nothing in the way of independent study. Whether this represents honest ill-preparedness or mere bravado, the candidates involved were very unsuccessful in all sections. Their success ratios as a group were about one-third those of the average candidate.

The success ratios by examination section are shown in Table 43. Unlike hours of classroom CPA coaching courses, which decreased in effectiveness in the top hour range, additional hours of independent study continued to contribute to examination performance in all the successive categories. The results in 1980 certainly fulfilled the expectation that independent study would be one of the most prominent contributors to examination success.

TABLE 43 HOURS OF INDEPENDENT STUDY BY EXAMINATION SECTION AND RELATIONSHIP TO EXAMINATION SUCCESS FOR MAY 1980 CANDIDATES

| | Accounting Practice | Accounting Theory | Auditing | Business Law |
|----------------|--------------------------|----------------------|----------|-----------------|
| | - Percentage of First-Ti | me Candidates — | | |
| No hours | 10% | 10% | 8 % | 10% |
| 1 to 15 hours | 25 | 31 | 32 | 37 |
| 16 to 35 hours | 23 | 26 | 30 | 28 |
| 36 to 55 hours | 18 | 17 | 17 | 14 |
| Over 55 hours | 24 | 16 | 13 | 11 |
| | - Percentage of Repea | t Candidates — | | |
| No hours | 9% | 10% | 8% | 9% |
| 1 to 15 hours | 24 | 30 | 30 | 32 |
| 16 to 35 hours | 22 | 26 | 28 | 28 |
| 36 to 55 hours | 17 | 16 | 17 | 16 |
| Over 55 hours | 28 | 18 | 17 | 15 |
| | - Success Ra | tios — | | |
| No hours | .32 | .37 | .34 | .32 |
| 1 to 15 hours | .52 | .68 | .62 | .67 |
| 16 to 35 hours | .96 | 1.08 | 1.12 | 1.19 |
| 36 to 55 hours | 1.32 | 1.38 | 1.45 | 1.46 |
| Over 55 hours | 1.60 | 1.57 | 1.57 | 1.61 |

The correlation coefficients relating hours of independent study to scores on individual examination sections (all statistically significant at the 1% level) are as follows:

| | First-Time Candidates | Repeat Candidates |
|---------------------|--------------------------|----------------------|
| Accounting practice | .39 | .35 |
| Accounting theory | .33 | .30 |
| Auditing | .31 | .29 |
| Business law | .32 | .31 |

VIII. ACCOUNTING AS A CAREER CHOICE

Since 1970 candidates have been asked a series of questions related to factors and motivations in choosing their accounting careers. These questions do not provide in themselves much evidence of CPA Examination performance and success, but they do offer interesting insights into the changing nature of candidates.

Timing of Decision to Major in Accounting

In 1975, candidates were entering the accounting field later in their academic careers. This trend reversed itself in 1980, particularly with respect to candidates attracted during high school. However, the percentage of candidates switching into accounting after the bachelor's degree remained near the 1975 level—historically these individuals have performed well on the CPA Examination.

In general, the later the candidate chose to major in accounting, the better his/her chances to be a successful candidate; differences were slight, however, before the post-bachelor's level. Particularly encouraging in the 1980 results was the improved performance of students attracted at the high school level; 40% of these candidates earned some credit in 1980, compared to 36% in 1975. This result may be evidence that opportunities in the profession are becoming known among talented high school students.

TABLE 44 TIMING OF DECISION TO MAJOR IN ACCOUNTING FOR FIRST-TIME MAY CANDIDATES AND RELATIONSHIP TO CREDIT EARNED

| | Percentage of Candidates | | | Percentage of 1980 Candidates Earning | | |
|-----------------------------|-----------------------------|------|------|--|-------------------|----------------|
| | 1970 | 1975 | 1980 | No Credit | Partial Credit | Full Credit |
| In high school or earlier | 29% | 23% | 34% | 60% | 27% | 13% |
| First two years of college | 54 | 49 | 42 | 59 | 27 | 14 |
| Latter two years of college | 13 | 15 | 12 | 56 | 30 | 14 |
| After bachelor's degree | 4 | 13 | 12 | 42 | 33 | 25 |

Career Choice as a College Freshman

The pattern of career choice as a college freshman was consistent with the observation of an earlier decision to major in accounting made in the previous section. After a decline in 1975, the percentage of candidates who chose an accounting career as freshmen rebounded to 42%. The only other category to increase was "other"—one source here may have been prospective teachers who reoriented their careers toward accounting. The principal declines were in the engineering and mathematics categories—as a percentage they were only half as popular as they were in 1975. Increased demand for engineers probably has caused at least part of this decline.

As in prior years, the performance of former engineering, mathematics, and liberal arts students remained quite high on the CPA Examination. However, the relative performances of the accounting and business administration students improved—in 1975 only 37% of the former group and 38% of the latter earned full or partial credit for the examination. These percentages rose to 40% and 43%, respectively, in 1980. Again this may be evidence that students of greater competence are being attracted earlier to the accounting profession.

TABLE 45 CAREER CHOICE AS A COLLEGE FRESHMAN FOR FIRST-TIME MAY CANDIDATES AND RELATIONSHIP TO CREDIT EARNED

| | Percentage of Candidates | | | Percentage o | idates Earning | |
|--------------------------------|-----------------------------|------|------|--------------|-------------------|----------------------|
| | 1970 | 1975 | 1980 | No Credit | Partial Credit | All Credit Needed |
| Accounting | 41% | 35% | 42% | 60% | 27% | 13% |
| Business administration | 15 | 16 | 13 | 57 | 27 | 16 |
| Engineering | 12 | 11 | 5 | 52 | 30 | 18 |
| Mathematics | 5 | 9 | 5 | 50 | 30 | 20 |
| Other liberal arts | 6 | 9 | 9 | 50 | 31 | 19 |
| Undecided | 13 | 15 | 15 | 55 | 28 | 17 |
| Other | 8 | 5 | 11 | 56 | 29 | 15 |

Most Influential Factor in Career Choice

Table 46 indicates that more 1980 candidates were guided into an accounting career by their parents and high school instructors and fewer by their introductory college accounting courses and college instructors. This change in emphasis was consistent with the earlier decision to major in accounting. However, the two groups (college instructors and introductory accounting courses) which declined in influence historically have produced the most successful candidates among first-timers.

This table also indicates a steady decline in number of candidates who were directed into accounting by guidance counselors at the high school and college levels and a relatively poor performance by these candidates so guided. It would appear that guidance counselors at both levels need to be more attuned to the requirements and opportunities of the accounting profession. It should be recognized, however, that high school instructors are playing an increased role in advising, and that the candidates attracted from these sources, which may include mathematics instructors, tend to be more successful.

TABLE 46 MOST INFLUENTIAL FACTOR IN CAREER CHOICE FOR FIRST-TIME MAY CANDIDATES AND RELATIONSHIP TO CREDIT EARNED

| | Percentage of Candidates | | | Percentage o | idates Earning | |
|---------------------------|-----------------------------|------|------|--------------|-------------------|----------------------|
| | 1970 | 1975 | 1980 | No Credit | Partial Credit | All Credit Needed |
| Parent | 8% | 9% | 13% | 60% | 27% | 13% |
| High school counselor | 2 | 1 | 1 | 64 | 25 | 11 |
| High school instructor | 6 | 5 | 7 | 60 | 27 | 13 |
| Friend or relative | 16 | 17 | 16 | 60 | 27 | 13 |
| College counselor | 3 | 2 | 1 | 69 | 23 | 8 |
| College instructor | 9 | 8 | 6 | 54 | 30 | 16 |
| College accounting course | 22 | 24 | 18 | 53 | 30 | 17 |
| Other | 34 | 34 | 38 | 55 | 29 | 16 |

Characteristics Important in a Career Choice

Candidates again were asked in 1980 to choose one or more characteristics that they considered important in making a career choice. Candidates have never been limited in the number of characteristics they may choose, but over the past ten years the average number cited has declined from an average of four characteristics to an average of three characteristics. Therefore, Table 47 was designed to indicate the relative number (as a percentage) of the total characteristics listed. For example, the most popular choice, opportunity for above-average compensation, increased from 20% in 1970 to 22% in 1980. However, the number of candidates citing pay as an incentive declined during this period from 80% to 67%. The difference in presentation, as noted, is attributable to the decline in the average number of characteristics cited. The fourth column of Table 47 shows the actual percentage of candidates who cited a particular characteristic in 1980.

Candidates continued a trend towards choosing accounting as a "conservative" profession where there is "opportunity for moderate steady progress rather than extreme success or failure." This was the only category that increased in both 1975 and 1980. Opportunities for leadership and creativity were the only characteristics to decline. These two characteristics (together with living and working in the world of ideas, which also declined slightly) are associated with the greatest amount of credit earned on the CPA Examination. Moderate steady progress, as in 1975, was the only category to fall substantially below the characteristics associated with credit earned.

TABLE 47 CHARACTERISTICS IMPORTANT IN A CAREER CHOICE FOR FIRST-TIME CANDIDATES AND RELATIONSHIP TO CREDIT EARNED

| | Percentage of | | | 1980 Candidates | |
|---|---------------|---------------|------|-----------------|-------------|
| | T | otal Citation | 15 | Percentage | Partial or |
| | 1970 | 1975 | 1980 | Responding | Full Credit |
| Opportunity for above-average compensation | 20% | 20% | 22% | 67% | 44% |
| Opportunity to work with | 1.5 | | | | |
| people rather than things | 15 | 15 | 15 | 46 | 44 |
| A chance to exercise leadership | 16 | 14 | 15 | 45 | 45 |
| Opportunity to be helpful to | | | | | |
| others or useful to society | 14 | 14 | 13 | 39 | 43 |
| Opportunity for moderate steady progress rather than | - | 0 | 10 | 20 | 20 |
| extreme success or failure | 7 | 9 | 10 | 29 | 39 |
| Living and working in the world of ideas | 10 | 10 | 10 | 29 | 46 |
| Opportunity to be original | | | | | |
| and creative | 11 | 10 | 8 | 25 | 45 |
| Freedom from supervision | | | | | |
| in work | 7 | 8 | 8 | 24 | 44 |
| | | | | | |

IX. OTHER SIGNIFICANT RELATIONSHIPS AND COMPARISONS

Relationships Among Scores on Individual Sections

Success on one examination section tends to predict success on other sections. The simple correlation coefficients presented in Table 48 show that relationships were (1) strongest between accounting practice and accounting theory, (2) weakest between business law and the other sections, particularly accounting practice, and (3) relatively strong between auditing and theory but relatively weak between auditing and accounting practice. All of the correlations exceeded .6 and thus are relatively high. The correlations for repeat candidates followed a similar pattern but were somewhat lower.

TABLE 48 CORRELATIONS AMONG SCORES ACHIEVED BY FIRST-TIME CANDIDATES ON MAY 1980 EXAMINATION SECTIONS

| | Accounting Practice | Accounting | Auditina | Business |
|---------------------|------------------------|------------|----------|----------|
| | Practice | Theory | Auditing | Law |
| Accounting practice | 1.00 | .83 | .64 | .65 |
| Accounting theory | | 1.00 | .71 | .65 |
| Auditing | | | 1.00 | .64 |
| Business law | | | | 1.00 |

All relationships are significant at the 1% level.

Table 49 shows the relationship among passing scores on examination sections and the amount of credit earned by candidates. For example, if a candidate passed auditing, he/she also passed accounting theory 85% of the time, business law 71% of the time, and accounting practice 74% of the time. Successful auditing candidates earned full credit for the four sections 55% of the time and partial credit in 41% of the cases; 4% of these candidates received no credit because they failed to meet conditioning requirements. If a candidate passed any single examination section, then the odds were substantially better than .5 that he/she would pass another section.

In fact, with the exception of accounting theory, nearly half (or more than half for auditing) of the successful first-time candidates for a section earned full credit for the whole examination. Success on one examination section as a predictor of success on another section was a function of the correlation between the two section scores and the difficulty of the second section. Thus, 85% of the successful auditing candidates passed accounting theory, but only 59% of the successful accounting theory candidates passed auditing, because fewer candidates passed auditing than accounting theory in May 1980.

TABLE 49 RELATIONSHIP OF PASSING SCORES ON PARTICULAR SECTIONS TO SCORES ON OTHER SECTIONS AND CREDIT EARNED FOR FIRST-TIME MAY 1980 CANDIDATES

| | Examination Section Passed | | | | |
|---------------------|----------------------------|----------------------|----------|-----------------|--|
| | Accounting Practice | Accounting Theory | Auditing | Business Law | |
| Chances of passing— | | | | | |
| Accounting practice | | 74% | 74% | 70% | |
| Accounting theory | 87% | | 85 | 78 | |
| Auditing | 60 | 59 | | 62 | |
| Business law | 64 | 62 | 71 | | |
| Credit earned— | | | | | |
| None | 1 % | 9% | 4% | 10% | |
| Partial | 54 | 53 | 41 | 41 | |
| Full | 45 | 38 | 55 | 49 | |

Table 50 explores the relationship among failing scores on examination sections and the amount of credit earned by candidates. Only 7% of the candidates failing accounting theory earned passing scores in auditing, but 24% of those who failed auditing passed accounting theory. In general, Table 50 shows that a candidate who failed any examination section had less than a 25% chance to earn any credit.

TABLE 50 RELATIONSHIP OF FAILING SCORES ON PARTICULAR SECTIONS TO SCORES ON OTHER SECTIONS AND CREDIT EARNED FOR FIRST-TIME MAY 1980 CANDIDATES

| | Examination Section Failed | | | | |
|---------------------|----------------------------|----------------------|----------|-----------------|--|
| | Accounting Practice | Accounting Theory | Auditing | Business Law | |
| Chances of passing— | | | | | |
| Accounting practice | _ | 8% | 20% | 19% | |
| Accounting theory | 17% | | 24 | 24 | |
| Auditing | 12 | 7 | | 13 | |
| Business law | 16 | 13 | 17 | — | |
| Credit earned— | | | | | |
| None | 85% | 89% | 77% | 78% | |
| Partial | 15 | 11 | 23 | 22 | |

Characteristics of First-Time and Repeat Candidates

The purpose of this section is to explore the characteristics of first-time and repeat candidates—to determine their similarities and differences and to identify the overlapping characteristics between these two groups.

Two types of first-time candidates do not sit again for the CPA Examination. First are those candidates who pass all four sections at the first sitting. These presumably are the ablest candidates, and the characteristics associated with their success would not be included to the same degree in the body of repeat candidates. On the other hand, there are first-timers who give up after their first try at the examination—on balance these probably are the weakest candidates, and the characteristics associated with their lack of success would also be excluded. Thus, one would expect a narrower range of abilities in the characteristics of repeat candidates—fewer individuals in the high groups and fewer in the low. There is no reason to believe that the average or typical repeat candidate will be either more or less qualified than the first-timer.

Two other factors may affect this comparison. First, candidates may acquire a characteristic, e.g., experience, between sittings. Second, and most important, candidates with superior characteristics may be more persistent in seeking the CPA certificate.

The major differences between first-time and repeat candidates were in years separated from academic training and extent of experience. Over one-third of first-time May candidates were still attending school, and only 25% were out a year or more. Of repeaters, 10% were attending school and 72% were separated from school more than a year. The amount of experience, by type and functional area, followed a similar pattern. (Relative experience for first-time and repeat candidates was presented in Section IV.) However, neither years separated from school nor work experience was strongly associated with examination performance.

A slightly larger percentage of repeat candidates (15%) had advanced academic degrees than first-timers (13.6%). It is somewhat difficult to interpret this statistic, since higher passing rates were associated with advanced degrees for both first-timers and repeaters. As previously suggested, this may indicate a decline in the number of new candidates with advanced degrees in 1980 as compared to the late 1970's. Alternatively, this may be evidence of the greater persistence of repeat candidates with advanced degrees or a tendency for repeat candidates to acquire advanced degrees after their initial sitting for the CPA Examination.

It is noteworthy that repeat candidates with advanced degrees did not have success ratios that were as high as first-time candidates with advanced degrees. A comparison, by section, for May 1980 follows:

| | First-timers | Repeaters |
|---------------------|--------------|-----------|
| Accounting practice | 1.45 | 1.03 |
| Accounting theory | 1.55 | .98 |
| Auditing | 1.39 | 1.21 |
| Business law | 1.43 | 1.20 |

These discrepancies are much wider than those observed for first-timers and repeat candidates in general (see discussion of Table 5). Thus, an advanced degree benefits its holders differentially. For first-time candidates, it is a significant advantage and often leads to earning full credit. Those advanced-degree holders who must repeat the examination have not benefited from advanced training to the same extent or else have offsetting weaknesses.

Compared with first-timers, repeat candidates were more likely to have attended a college of business or a school of accounting and less likely to have attended a community college or a liberal arts college. The expectation that the percentage of candidates at both ends of the distribution will drop out from the candidate population was confirmed by the fact that community college alumni had less success than average, and liberal arts candidates had more success than average on the examination. Lower-scoring candidates tend to drop out because they become discouraged and higher-scoring candidates drop out because they have successfully completed examination sections. This is also apparent in grade point averages, as indicated in Table 51. Candidates with high undergraduate averages were less likely to be represented among repeat candidates, presumably as a result of their greater initial examination success.

TABLE 51 UNDERGRADUATE GRADE POINT AVERAGES FOR FIRST-TIME AND REPEAT MAY 1980 CANDIDATES

| | Overa | ll | Accoun | ting |
|--------------|------------|--------|------------|--------|
| | First-Time | Repeat | First-Time | Repeat |
| 3.50 to 4.00 | 27 % | 19% | 35% | 27% |
| 3.00 to 3.49 | 39 | 40 | 36 | 42 |
| 2.50 to 2.99 | 27 | 32 | 22 | 24 |
| Under 2.50 | 7 | 9 | 7 | 7 |

A convincing demonstration of the differential persistence of undergraduate candidates in various accounting grade point average ranges is presented in Table 52. For purposes of this table a hypothetical distribution of repeat candidates was constructed, assuming that:

- 1. All first-time candidates failing the examination repeated it ten times (or until they passed, whichever came first).
- 2. The percentages of candidates completing the examination at any one sitting were consistent with those observed for first-time and repeat candidates in May 1980. (See Table 5.)

If the hypothesis is correct that weaker candidates drop out early from the candidate population, then the latter assumption (2) is conservative; it assumes that had the drop-out candidates remained, their completion percentage would equal that for the candidates who actually stayed.

The hypothetical distribution of repeat candidates is compared to the actual distribution in Table 52, and a "persistence ratio" is computed by dividing the hypothetical percentage into the actual percentage. The persistence ratio demonstrates that repeat candidates in the higher grade point average ranges are more likely to remain part of the candidate body than those in the lower grade point average ranges.

TABLE 52 HYPOTHETICAL DISTRIBUTION OF REPEAT CANDIDATES BY UNDERGRADUATE GRADE POINT AVERAGE AND COMPARISON TO MAY 1980 DISTRIBUTION

. . .

| Accounting GPA | Hypothetical Distribution | Actual Distribution | Persistence Ratio |
|----------------|------------------------------|------------------------|----------------------|
| 3.50 to 4.00 | 19% | 27% | 1.42 |
| 3.00 to 3.49 | 38 | 42 | 1.11 |
| 2.50 to 2.99 | 32 | 24 | .75 |
| Under 2.50 | 11 | 7 | .64 |

Table 53 indicates that SAT test scores were another characteristic strongly associated with CPA Examination success. In general, the distribution of repeat candidates among the range of SAT verbal and mathematics scores followed a pattern: fewer candidates in the extreme SAT ranges (top and bottom categories) and more clustering in the middle SAT ranges. Slight increases for candidates below 500 verbal and 600 mathematics were not as great as one would expect, given the lower initial pass rates for those groups.

TABLE 53 SAT SCORES FOR FIRST-TIME AND REPEAT MAY 1980 CANDIDATES

| | Percentage of | ^f Candidates |
|-------------------|---------------|-------------------------|
| | First-Time | Repeat |
| Verbal score— | | |
| 700 to 800 | 2% | 2% |
| 600 to 699 | 20 | 17 |
| 500 to 599 | 43 | 43 |
| 400 to 499 | 28 | 32 |
| 200 to 399 | 7 | 6 |
| Mathematics score | | |
| 700 to 800 | 16% | 12% |
| 600 to 699 | 42 | 41 |
| 500 to 599 | 33 | 37 |
| 400 to 499 | 8 | 9 |
| 200 to 399 | 1 | 1 |

Repeat candidates were more likely to have had graduate training in accounting than first-timers (17.5% vs. 15%)and to have had more than 30 hours of accounting training (54% vs. 53%). Presumably these events occurred after the candidates' initial sitting for the examination. Specific areas where repeat candidates had slightly more training than first-timers included cost and managerial, governmental, and systems. First-time candidates were more likely to have had a CPA review course for credit (28% vs. 25%) and to have had at least three financial and theory courses (48% vs. 41%). Both of the latter were associated with examination success for first-time candidates (See Table 22).

First-time candidates also were more likely to have had a calculus course (74% vs. 70%). Rather than weighting the specific value of a calculus course per se, this indicates that successful first-time candidates tend to come from academic programs that require calculus. Differences among other non-accounting course requirements were minor.

While repeat candidates were less likely to have had a coaching course, their hours of classroom coaching (assuming participation in a course) were higher than first-timers. Moreover, repeat candidates generally devoted more hours of independent study to the examination sections for which they sat than first-timers. More detailed data are presented in Sections VI and VII.

This review has shown that repeat candidates are less likely to be top students, especially with respect to grade point averages and SAT scores. Those repeat candidates who are weaker students are less persistent and therefore more likely to drop out of the candidate population after early failures.

The distribution of repeat candidates, in terms of these performance measures, was more centralized, and the overall caliber of candidates was slightly lower than that of first-timers. Offsetting these characteristics, repeat candidates had more work experience, graduate training, semester hours of accounting, classroom hours of CPA coaching, and hours of independent study. They were also more serious about compensating for shortcomings.

The comparison of examination performance (presented in Section II) indicated higher success ratios for repeat candidates in auditing, near equal success ratios in business law, and lower success ratios in accounting theory and accounting practice. Even though the overall performance of repeat candidates on individual sections was slightly inferior to first-timers, repeaters were more likely to earn credit because they were less impacted by conditioning requirements.

Characteristics of May and November Candidates

In comparing May and November examination results, it is appropriate to consider the prevailing differences between the characteristics of the two groups. Past studies have shown these to be slight. This was reaffirmed in 1980.

A major difference is related to the time of sitting for the examination. Far fewer first-time November candidates (18%) than May candidates (35%) were still attending school. This counterbalanced the effects of an increased number of candidates who had been separated from school a year or less. (See Table 6.)

Considerably more first-time November candidates had work experience in public accounting. However, this observation did not apply to other types of experience, as demonstrated in Table 54. Candidates with private, governmental, and teaching experience were as likely to sit in May as in November and were less likely to sit within their first year separated from school.

The percentage of first-time candidates sitting within one year of graduation (shown in Table 6) increased from 40% in May 1980 to 54% in November 1980. Virtually all of these candidates appeared to be employed in public accounting immediately after graduation. This effect is demonstrated in the middle portion of Table 54 by the 15% increase in November (over May) in candidates with less than one year's experience. There were also more first-time candidates in the "1 to 3" and "4 to 6" years of experience in public accounting categories; this presumably occurred because most candidates experienced their employment anniversaries between May and November.

As experience in general increases, the percentage of candidates claiming experience in specific functional areas also increases. This trend is indicated in the lower portion of Table 54. The greater amount of experience in auditing and taxes can be attributed to the large percentage of first-timers employed in public accounting. Candidates with experience in private accounting, governmental accounting, and teaching did not sit for the examination immediately after graduation. These candidates did not follow the experience pattern of candidates in public accounting, and there was relatively little difference in duration of their employment experience between May and November candidates. A similar conclusion applies to all repeat candidates, as demonstrated in the right-hand section of Table 54.

The relative pattern of experience for May and November candidates is interesting but it has little implication for examination performance. As noted earlier, the degree of experience is not strongly associated with success on the examination.

TABLE 54 WORK EXPERIENCE FOR FIRST-TIME AND REPEAT CANDIDATES FOR MAY AND NOVEMBER 1980

| | | -Time lidates | | peat lidates |
|---|-----|------------------|-----|-----------------|
| | May | November | May | November |
| Candidates indicating some experience in— | | | | |
| Public accounting | 38% | 59% | 73% | 74% |
| Private accounting | 34 | 35 | 41 | 41 |
| Governmental accounting | 13 | 11 | 15 | 14 |
| Teaching accounting full time | 5 | 5 | 5 | 5 |
| Duration of experience in | | | | |
| public accounting— | | | | |
| None | 62% | 41% | 27% | 26% |
| Less than 1 year | 29 | 44 | 22 | 19 |
| 1 to 3 years | 7 | 12 | 39 | 41 |
| 4 to 6 years | 1 | 2 | 7 | 8 |
| Over 6 years | 1 | 1 | 5 | 6 |
| Candidates indicating some experience in— | | | | |
| Auditing | 36% | 55% | 74% | 71% |
| Tax | 26 | 36 | 53 | 53 |
| MAS | 4 | 6 | 11 | 12 |
| Other | 37 | 40 | 43 | 43 |

As noted in Section II, the percentage of first-time candidates declined from 36% in May to 32% in November. Declines were also observed in 1975 and 1970. There was no major change in the pattern of previous sittings for November 1980 candidates, but fewer repeat candidates (43.7% vs. 45.2%) had previous conditional credit for two or more sections.

A significant difference between May and November 1980 was the increased number of candidates with law degrees at the latter date— 7.5% of the total candidate body versus 5.3% in May. This may have arisen in part from the need to complete law school requirements in the spring (there were twice as many first-time law candidates in November), but this result more likely occurred from the impact of tax season on the ability to prepare for the examination. There were other minor changes in the composition of the candidate body with advanced degrees, but the overall percentage of candidates with these degrees was nearly the same.

May first-time candidates were more likely to have attended schools accredited by the AACSB (55.4% to 52.6% for those with undergraduate degrees and 62.4% to 60.5% for those with graduate). Results were inconclusive for other "quality indicators," such as SAT scores and grade point averages, as shown in Tables 55 and 56. The only difference of any substance was the lower graduate grade point average for November candidates. Differences in both SAT scores and grade point averages were minor for repeat candidates.

TABLE 55SAT SCORES FOR FIRST-TIMEMAY AND NOVEMBER 1980 CANDIDATES

| | Ve | erbal | Math | <i>iematics</i> |
|------------|-----|----------|------|-----------------|
| | May | November | May | November |
| 700 to 800 | 2% | 3 % | 16% | 16% |
| 600 to 699 | 20 | 19 | 42 | 42 |
| 500 to 599 | 43 | 43 | 33 | 34 |
| 400 to 499 | 28 | 30 | 8 | 7 |
| 200 to 399 | 7 | 5 | 1 | 1 |

TABLE 56 OVERALL GRADE POINT AVERAGES FOR FIRST-TIME MAY AND NOVEMBER 1980 CANDIDATES

| | Under | graduate | Gra | aduate |
|--------------|-------|----------|-----|----------|
| | May | November | May | November |
| 3.50 to 4.00 | 27% | 27% | 44% | 40% |
| 3.00 to 3.49 | 39 | 40 | 44 | 47 |
| 2.50 to 2.99 | 27 | 26 | 9 | 10 |
| Under 2.50 | 7 | 7 | 3 | 3 |

May candidates were likely to have had slightly more accounting training; 54% of first-timers had over 30 semester hours, compared to 51.5% in November. In particular, May first-timers were more likely (28% to 17%) to have had a college CPA coaching course for credit. Offsetting this, November first-timers were more likely to have had a non-credit coaching course (64% vs. 58% for May). This particular characteristic also applied to repeat candidates; 59% of the November candidates had coaching courses, compared to 54% in May. Apparently such courses are more likely to be taken when candidates have left school and are in the less-busy summer and fall seasons. November candidates also engaged in slightly more independent study, an average of $\frac{1}{2}$ hour more per section. None of these characteristics (or any of those previously mentioned) are believed to have a major effect on examination performance.

The relative performance of first-time and repeat candidates in November was consistent with that observed for May. (See Tables 4 and 5.) First-time November candidates continued to excel in accounting theory and accounting practice and repeat candidates in auditing, with virtually no difference in business law. There was an overall improvement in auditing scores in November; other sections changed only slightly.

X. CONCLUSION

Over the years the USIQ study has proved valuable to educators, regulators, and members of the profession in helping to understand the nature and qualifications of candidates who sit for the CPA Examination. The 1980 study has contributed to this tradition in its introduction of a number of new variables: nature of educational institution, hours of specific accounting courses, areas of experience, coaching courses, and independent study.

In the 1975 study two major trends were identified: (1) the tendency of candidates to take the examination earlier in their careers with less work experience; and (2) the increasing incidence of advanced degree candidates. The former trend continued in 1980, but the latter did not. Given the profession's avowed need for advanced training for its entrants, this development is perhaps the most important and disturbing observation of this study.

Prior to this study four important characteristics had been identified as correlating with and presumably contributing to a candidate's success on the examination. These were level of education (particularly graduate training), grade point averages, scores on aptitude and accounting achievement tests, and participation in CPA coaching courses. All of these variables were reaffirmed as important indicators of examination success in 1980. The 1980 USIQ indicated that a fifth variable, hours of independent study, was an additional factor linked to examination success.

APPENDIX

| | | | | UNIFORM STATISTIC Carefully read In (Carefully read In A 3 AICPA Orientation Test Percentile. Total test \rightarrow 3 AICPA Achievement Test, Level 11. Pe \rightarrow 4 College Board (SAT) or Ar \rightarrow 5 College Board (AT) \rightarrow 4 \rightarrow 5 College Board (AT) \rightarrow 4 \rightarrow 6 \rightarrow 3 (3) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1 | | UNIFORM ST (Carefully (Carefully Achievement Test, A college Board A 2 College Board A 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | Carefully (Carefully (| ATISTI Fread t. Total tr t. Level 11. Level 11. A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6 | | WIND A Contraction of Contraction o | | FORMATION QUESTION on Booklet while filling American College Tests (ACT) werhal score American College Tests (ACT) werhal score American College Tests (ACT) werhal score Or GMAT verbal score education at initiative ORE Or GMAT verbal score education at initiative Or GMAT verbal score education at initiative degree On GMAT Post Post gradua degree dudua Inting C Post Post gradua dudua dudua duduate financial aducation: dudua financial aducation: duduate financial aducation: financial aducation: financial duduate financial aducation: financial aducation: financial aducation: financial aducation: fina for for f | TION QUESTIONNAIRE det while filling out th s (ACT) verbal score ollege Tests (ACT) math. score ollege Tests (ACT) math. score r GMAT () quantitative score verbal score of the attained within 60 days) Post graduate degree degree c Bachelor degr Less than r Semester hours or equivalent of Accounting education. Introductory (Principles) Accounting Financial and Accounting Theory Tax | NOVEMBE questionna ls this your 1 ls this your 1 Accounting Ti Accounting Ti Accounting Practice Did you obtain in one or mo College of Bu School of Pri Accounting Liberal Arts (College Conlege of Bu School of Pri Accounting Liberal Arts (College Proprietary S. | NOVEMBER 198 questionnaire) Is this your first sittin Business Law Accounting Theory Accounting Practice Did you obtain all or a in one or more of the College of Business School of Professional Accounting Liberal Arts or Non-Bi College College Proprietary School | | 980 Yes No Yes No Yes No Yes No Auditing Yes No Auditing Accounting A | 9 11 this is 9 14 14 9 14 14 9 14 14 9 14 14 10 10 16 12 12 16 12 12 16 | | your first si ags have y your first si ags have your f | Side 1 Side 1 have you had for (1) (2) (3) (6) (6) (2) (3) (6) (6) (6) (2) (3) (6) (6) (6) (2) (3) (6) (6) (6) (2) (3) (6) (6) (6) (2) (3) (6) (6) (6) (2) (3) (6) (6) (6) (2) (3) (6) (6) (6) (3) (6) (6) (6) (4) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6) | | |
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Side 2

UNIFORM STATISTICAL INFORMATION QUESTIONNAIRE - NOVEMBER 1980

INSTRUCTIONS TO THE CANDIDATE

INSTRUCTIONS TO THE CANDIDATE

Read these instructions carefully before filling out the questionnaire

Use a black soft-lead pencil (preferably No. 2) for filling out the questionnaire. Erase completely any marks you want to change. Make no stray marks on your answer sheet. DO NOT USE A BALL POINT PEN.

The information you give in the questionnaire should represent your status at the time of the November 1980 examination unless otherwise indicated in specific item instructions below.

This questionnaire should be completed prior to sitting for the Uniform CPA Examination. Since many Boards of Accountancy first assign candidate identification numbers when candidates appear for the examination, you may not be able to insert your candidate number until that time. In any event, the completed questionnaire (with candidate identification number) must be returned to your Board of Accountancy when you are at the examination site. Do not bend, fold, or multilate it as this will interfere with the computer processing.

To preserve the anonymity of candidates during the grading of the CPA examination, the questionnaire will not be mailed to the AICPA until after the examination has been graded and the grades have been received by the Board of Accountancy.

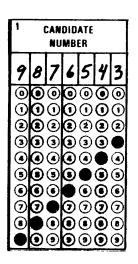
Whenever a question calls for a numerical answer, write the number in the space provided and blacken the corresponding numerical circle below:

EXAMPLE: Candidate Number 9-87-6543

Space Provided

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Correct Response



Whenever a question calls for selecting a printed response on the questionnaire, blacken the circle provided. Do not merely mark the circle or place an "X" in it.

EXAMPLES: WRONG WRONG WRONG RIGHT

Item

- 1 <u>Candidate number</u> You may not be assigned a candidate number at the time you receive this questionnaire. See the transmittal letter from the Board of Accountancy for instructions.
- 2 and 3 <u>AICPA tests</u> These are the orientation and achievement tests that are given by many colleges and universities in connection with accounting courses and by many public accounting firms to prospective or new employees. If you took either the Orientation Test or Level II Achievement Test more than once enter the most recent score only. If you do not know or never took these tests leave these circles blank.
- 4 and 5 <u>SAT or ACT tests</u> If you took either of these tests more than once, enter the most recent score only. If you took both SAT and ACT enter your SAT scores only. If you do not know or never took these tests leave the circles blank.
- 6 and 7 <u>GRE or GMAT tests</u> If you took either of these tests more than once, enter the most recent score only. Blacken in the appropriate circle following the test (GRE or GMAT) scores recorded in 6 and 7. For example:
 - a) if GRE taken mark GRE ● or GMAT o Verbal Score
 - b) if GMAT taken mark GRE o or GMAT • Quantitative Score

If you took both GRE and GMAT enter your GMAT scores only. If you do not know or never took these tests leave the circles blank.

- 8 Is this your first sitting for a CPA Exam Subject?
- 9 If this is not your first sitting, how many previous sittings have you had - If your answer for 8 is no for any subject, complete this question.
- 10 <u>Conditional credit</u> Mark spaces only if you have received conditional credit for one or more parts of the examination passed prior to November 1980 and your conditional credit has not expired.
- 11, 12, and 13 Educational background If you are now attending school or college, your responses to these items should cover any courses to be completed within sixty days after the November 1980 examination and any degree that will be awarded to you within that period. Proprietary school refers to a privately operated, non-degree granting institution.
 - 14 Undergraduate major Mark only one.
 - 15 College or university code Use the 5 digit code number indicated on the alphabetical list of institutions granting degrees in management and business. (Note that the state is also listed to allow for ease of identification and coding.) Code the College or University where you received the major portion of your accounting education. If your college does not appear on this list use code 99999.
 - 16 Postgraduate degree Mark all that apply.

- 17 and 18 Semester hours Use the conventional college semester hour.
 - a. Three hours in a college or university on a quarter basis may be considered equivalent to two semester hours. Five quarter hours may be considered equivalent to three and one third semester hours. (To convert from quarter hours to semester hours, multiply the quarter hours by two and divide the product by three.)
 - b. Five assignments of a formal accounting correspondence course may be treated as one semester hour.
 - 18 <u>Semester hours or equivalent hours</u> Include both graduate and undergraduate hours earned in all of these categories. "Computer" courses should be understood to include courses in computers and information systems in business. Do not include programming courses and the like which are purely technical in nature.
 - 19 Grade point average
 - 20 Full time work experience Mark as many circles as apply to you. If you have no work experience in accounting, make no response.

SIDE 2 OF QUESTIONNAIRE

- 21 Nature of work experience Mark only if you have answered item 20. Mark as many circles as apply to you.
- 22 <u>CPA coaching course preparation</u> List information only for those courses taken during 6 months prior to this exam. "College Course" refers only to a non-credit bearing CPA Review or Problems course. (College courses taken for credit should have been included in item 17.) "Proprietary Course" refers to a privately operated, attended review course for which no credits are granted. "Staff Course" should be understood to include any CPA coaching course given by the firm by which you are employed.
- 23 <u>Classroom hours of coaching course</u> Estimate the number of formal classroom hours per subject spent in coaching courses for this examination.
- 24 <u>Independent study</u> Estimate the number of independent (nonclassroom) study hours per subject spent in preparing for this examination.
- 25 Decision to study accounting Mark only one.
- 26 Career choice upon entering college Mark only one.
- 27 Most influential factor in career choice Mark only one.
- 28 Characteristics important in career choice Mark as many as apply.
- <u>NOTE</u>: Participation in this project is voluntary. Your cooperation will be appreciated so that the AICPA and Boards of Accountancy will be able to statistically compare and correlate various characteristics e.g., education and experience, with performance on the CPA examination.

All information with respect to <u>individual</u> candidates will be kept strictly confidential by the AICPA and Boards of Accountancy who will be the only recipients of this information.

Participation or nonparticipation will have no effect upon the grading of your Uniform CPA Examination papers or the issuance of a CPA certificate.

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01378 Central Conn St College Conn. 02453 Central Methodist College Mo. 02243 Central Mich University Mich. 02454 Central Mo St University Mo. 03152 Central State University Okla. 03026 Central State University Ohio 01850 Central U of Iowa Towa 03771 Central Wash St College Wash. 03422 Central Weslevan College S.C. 02539 Chadron State College Nebr 01605 Chaminade C of Honolulu Hawaii 01164 Chapman College Calif. 03428 Charleston, College of s.c. 03244 Chatham College Pa. 03245 Chestnut Hill College Pa. 03317 Cheyney State College Pa. 01694 Chicago State University I11. 01774 Chicago, University of III. 03482 Christian Bros College Tenn. 03706 Christopher Newport C Va. 03125 Cincinnati Main Cam, U of Ohio 03423 Citadel Military C of SC s.c. 01170 Claremont Men's College 01169 Claremont U Ctr-Grad Ctr Calif. Calif. 09235 Clarion State C Main Cam Pa. Ga. 01559 Clark College 02139 Clark University Mass. 01852 Clarke College Iowa 02699 Clarkson College of Techn N.Y. 02246 Cleary College Mich. 03425 Clemson University S.C. 03032 Cleveland St University Ohio 01854 Coe College Towa 03427 Coker College S.C. 02039 Colby College Maine 02572 Colby-Sawyer College N.H. 06740 Colo at Denver, U of Colo. 04509 Colo Colo Springs, U of Colo. 01370 Colorado at Boulder, U of Colo. 01347 Colorado College Colo. 01348 Colorado School of Mines Colo. 01350 Colorado State University Colo. 01351 Colorado Women's College Colo. 03190 Columbia Christian C Oreg. 02456 Columbia College Mo. 03430 Columbia College s.c. 02707 Columbia U Main Division N.Y. 02067 Columbia Union College Md. 01561 Columbus College Ga. W. Va. 03810 Concord College 02346 Concordia C at Moorhead Minn. 02541 Concordia Tchrs College Nebr. 29013 Conn Main Campus, U of Conn. 02711 Cornel U Endowed Colleges N.Y. 11693 Cornell U Statutory C N.Y. 03484 Covenant College Ga. 02542 Creighton University Nebr. 02460 Culver-Stockton College Mo. 01962 Cumberland College Kv. 04766 CUNY Bernard Baruch C N.Y. 02687 CUNY Brooklyn College N.Y. 04063 CUNY Grad Sch & U Center N.Y. 02689 CUNY Hunter College N.Y. 07022 CUNY Lehman College N.Y. 10097 CUNY Medgar Evers College N.Y. 02690 CUNY Queens College N.Y. 02143 Curry College Mass. 02712 D'Youville College N.Y. 02808 Daemen College N.Y. 03463 Dakota State College S.D. 03461 Dakota Wesleyan U S.D. 03560 Dallas Baptist College Tex. 03651 Dallas, University of Tex. 02543 Dana College Nebr. 29037 Daniel Hale Williams U I11. 01014 Daniel Payne College Ala. 02573 Dartmouth College N.H. 03486 David Lipscomb College Tenn. 03811 Davis and Elkins College W. Va. Ohio 03127 Dayton, University of 03041 Defiance College Ohio 01428 Delaware State College Del. 03252 Delaware Vly C Sci & Agr Pa. 01431 Delaware, University of Del. 02403 Delta State University Miss. 01371 Denver, University of 01671 DePaul University Colo. I11. 02253 Detroit College of Bus Mich. 02257 Detroit Inst Technology Mich. 02323 Detroit, University of Mich. 02989 Dickinson State College N.D. 02004 Dillard University La.

| 02511 | | |
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| 02047 | Doane College | Nebr. |
| 02713 | Dominican C of Blauvelt | N.Y. |
| 01859 | Dordt College | Iowa |
| | Dowling College | N.Y. |
| | Drake University | Iowa |
| | | Pa. |
| | Drexel University | Mo. |
| 02461 | | |
| 01891 | | Iowa |
| 02920 | | N.C. |
| 03258 | Duquesne University | Pa. |
| 03043 | Dyke College | Ohio |
| | | |
| 02923 | East Carolina University | N.C. |
| 03154 | | Okla. |
| 03487 | | Tenn. |
| | East Texas Bapt College | Tex. |
| | East Texas St University | Tex. |
| | Eastern College | Pa. |
| | | III. |
| | Eastern Ill University | |
| | Eastern Ky University | Ky. |
| | Eastern Mennonite College | Va. |
| | Eastern Mich University | Mich. |
| | Eastern Montana College | Mont. |
| 02145 | Eastern Nazarene College | Mass. |
| 02651 | Eastern NM U Main Campus | N.M. |
| 03193 | Eastern Oregon St College | Oreg. |
| | Eastern Wash St College | Wash. |
| 01487 | | Fla. |
| | Edgewood College | Wis. |
| | Edward Waters College | Fla. |
| | | N.C. |
| | Elizabeth City State U | |
| 03262 | | Pa. |
| | Elmhurst College | 111. |
| | Elmira College | N.Y. |
| 02927 | Elon College | N.C. |
| 01479 | Embry-Riddle Aeron U | Fla. |
| 03709 | Emory and Henry College | Va. |
| 01564 | | Ga. |
| 01927 | | Kans. |
| | Erskine College | S.C. |
| | Eureka College | III. |
| | | Mo. |
| | Evangel College | |
| 01795 | Evansville, University of | Ind. |
| | | |
| 01385 | | Conn. |
| 03812 | | W. Va. |
| 04738 | Farlgh Dcksn Madison Cam | N.J. |
| 02607 | | N.J. |
| 02604 | Farlgh Dcksn U Rutherfd | N.J. |
| | Parathanil Of Madain adda | |
| 02928 | Fayettev1 St University | N.C. |
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| 07015 | Federal City College | D.C. |
| 07015 02260 | Federal City College Ferris State College | D.C. Mich. |
| 07015 02260 03045 | Federal City College Ferris State College Findlay College | D.C. Mich. Ohio |
| 07015 02260 03045 03490 | Federal City College Ferris State College Findlay College Fisk University | D.C. Mich. Ohio Tenn. |
| 07015 02260 03045 03490 02184 | Federal City College Ferris State College Findlay College Fisk University Fitchburg State College | D.C. Mich. Ohio Tenn. Mass. |
| 07015 02260 03045 03490 02184 01480 | Federal City College Ferris State College Findlay College Fisk University Fitchburg State College Fia Agricultural & Mech U | D.C. Mich. Ohio Tenn. Mass. Fla. |
| 07015 02260 03045 03490 02184 01480 01481 | Federal City College Ferris State College Findlay College Fisk University Fitchburg State College Fla Agricultural & Mech U Fla Atlantic University | D.C. Mich. Ohio Tenn. Mass. Fla. Fla. |
| 07015 02260 03045 03490 02184 01480 01481 07893 | Federal City College Ferris State College Findlay College Fisk University Fitchburg State College Fia Agricultural & Mech U Fla Atlantic University Flagler College | D.C. Mich. Ohio Tenn. Mass. Fla. Fla. Fla. |
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| 07015 02260 03045 03490 02184 01480 01481 07893 01469 09635 | Federal City College Ferris State College Findlay College Fisk University Fitchburg State College Fia Agricultural & Mech U Fla Atlantic University Flagler College Florida Inst Technology Florida International U | D.C. Mich. Ohio Tenn. Mass. Fla. Fla. Fla. Fla. Fla. |
| 07015 02260 03045 03490 02184 01480 01481 07893 01469 09635 01486 | Federal City College Ferris State College Findlay College Fisk University Fitchburg State College Fla Agricultural & Mech U Fla Atlantic University Flagler College Florida Inst Technology Florida International U Florida Memorial College | D.C. Mich. Ohio Tenn. Mass. Fla. Fla. Fla. Fla. Fla. Fla. Fla. |
| 07015 02260 03045 03490 02184 01480 01481 07893 01469 09635 01486 01488 | Federal City College Ferris State College Findlay College Fisk University Fitchburg State College Fia Agricultural & Mech U Fla Atlantic University Flagler College Florida International U Florida International U Florida Memorial College Florida Southern College | D.C. Mich. Ohio Tenn. Mass. Fla. Fla. Fla. Fla. Fla. Fla. Fla. |
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| 07015 02260 03045 03490 02184 01480 01480 01489 09635 01486 01488 01488 01489 03954 01535 | Federal City College Ferris State College Findlay College Fisk University Fitchburg State College Fia Agricultural & Mech U Fla Atlantic University Flagler College Florida Inst Technology Florida International U Florida Memorial College Florida Southern College Florida State University Florida Technological U Florida, University of | D.C. Mich. Ohio Tenn. Mass. Fla. Fla. Fla. Fla. Fla. Fla. Fla. Fla |
| 07015 02260 030490 02184 01480 01481 07893 01469 0465 01486 01488 01488 01489 03955 02464 | Federal City College Ferris State College Findlay College Fisk University Fitchburg State College Fia Agricultural & Mech U Fla Atlantic University Flagler College Florida Inst Technology Florida Inst Technology Florida Southern College Florida State University Florida State University Florida University of Florida, University of Fontbonne College | D.C. Mich. Ohio Tenn. Mass. Fla. Fla. Fla. Fla. Fla. Fla. Fla. Fla |
| 07015 02260 030490 02184 01480 01481 07893 01469 09635 01488 01489 03954 01488 01489 03954 02664 02722 | Federal City College Ferris State College Findlay College Fisk University Fitchburg State College Fia Agricultural & Mech U Fla Atlantic University Flagler College Florida Inst Technology Florida Inst Technology Florida Southern College Florida Southern College Florida State University Florida Technological U Florida, University of Fontbonne College Fordham University | D.C. Mich. Ohio Tenn. Mass. Fla. Fla. Fla. Fla. Fla. Fla. Fla. Fla |
| 07015 02260 030490 02184 01480 01489 01469 09635 01486 01489 03954 01535 02464 01535 02462 01915 | Federal City College Ferris State College Findlay College Fisk University Fitchburg State College Fia Agricultural & Mech U Fla Atlantic University Florida Inst Technology Florida International U Florida Memorial College Florida Southern College Florida State University Florida Technological U Florida Technological U Florida, University of Fontbonne College Fordham University Fort Hays Kans St College | D.C. Mich. Ohio Tenn. Mass. Fla. Fla. Fla. Fla. Fla. Fla. Fla. Fla |
| 07015 02260 030490 02184 01480 01481 07883 01469 09635 01486 01489 03954 019535 02464 02722 01915 08146 | Federal City College Ferris State College Findlay College Fisk University Fitchburg State College Fia Agricultural & Mech U Fla Atlantic University Flagler College Florida Inst Technology Florida International U Florida Memorial College Florida Southern College Florida State University Florida Technological U Florida, University of Fontbonne College Forthaw University Fort Hays Kans St College Fort Lauderdale College | D.C. Mich. Ohio Tenn. Fla. Fla. Fla. Fla. Fla. Fla. Fla. Fla |
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| 07015 02260 030490 02184 01480 01481 07893 01469 09635 01469 09635 01469 03954 01488 01489 03954 01488 02464 02722 01915 08146 01353 01566 | Federal City College Ferris State College Findlay College Fisk University Fitchburg State College Fia Agricultural & Mech U Fla Atlantic University Flagler College Florida Inst Technology Florida Inst Technology Florida Southern College Florida Southern College Florida State University Florida Technological U Florida, University of Fortbonne College Fortham University Fort Hays Kans St College Fort Lauderdale College Fort Lewis College Fort Lewis College Fort Valley State College | D.C. Mich. Ohio Tenn. Mass. Fla. Fla. Fla. Fla. Fla. Fla. Fla. Fla |
| 07015 02260 030490 02184 01480 01489 09635 01469 09635 01486 01489 03954 01535 02466 01489 03954 01535 02466 01489 03954 01535 02466 01353 01566 01222 | Federal City College Ferris State College Findlay College Fisk University Fitchburg State College Fia Agricultural & Mech U Fla Atlantic University Flagler College Florida Inst Technology Florida International U Florida Memorial College Florida Southern College Florida State University Florida Technological U Florida Technological Fort Austrity Fort Hays Kans St College Fort Lauderdale College Fort Valley State College Francis Marion College | D.C. Mich. Ohio Tenn. Mass. Fla. Fla. Fla. Fla. Fla. Fla. Fla. Fla |
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| 07015 02260 030490 02184 01480 07893 01469 09635 01469 03954 01488 01488 01489 03954 01488 01489 03954 01488 02464 02722 01915 02464 02722 01915 03046 032575 03046 032575 03046 03492 039492 039492 039492 039492 039492 039492 039492 039492 039492 039492 039492 039492 039492 039490 03954 03954 03954 03954 03954 03954 03954 03954 03954 03954 03955 039566 03956 03956 039566 03956 039566 00000000000000000000000000000000000 | Federal City College Ferris State College Findlay College Fisk University Fitchburg State College Fia Agricultural & Mech U Fla Atlantic University Flagler College Florida Inst Technology Florida Inst Technology Florida Southern College Florida Southern College Florida State University Florida Technological U Florida University of Fontbonne College Fort Hays Kans St College Fort Lauderdale College Fort Lauderdale College Fort Valley State College Frankin and Marshall C Franklin College Indiana Franklin Pierce College Franklin University Freed-Bardeman College Friends University Frostburg State College Frostburg State College Fronts University | D.C. Mich. Ohio Tenn. Mass. Fla. Fla. Fla. Fla. Fla. Fla. Fla. Fla |
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| 02309 | John Wesley College Johns Hopkins University | Mich. Md. |
| 02936 | | N.C. |
| 03404 | | R.I. |
| 03688 | Johnson State College | Vt. |
| 01497 | | Fla. |
| 01499 | Jones College Orlando Cam Judson College | Fla. Ala. |
| 03279 | | Pa. |
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| | Kansas Main Campus, U of | Kans. |
| | Kansas Newman College | Kans. |
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| | Kentucky State University Kentucky Wesleyan College | Ку. Ку. |
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| 03496 | King College | Tenn. |
| | King's College | N.Y. |
| | King's College Knoxville College | Pa. Tenn. |
| 03497 | Kutztown State College | Pa. |
| 05522 | Represent State College | |
| | La Grange College | Ga. |
| | La Roche College | Pa. Pa. |
| | La Salle College La State U and A&M C | La. |
| 02013 | La State U Shreveport | La. |
| | La Verne College | Calif. |
| | Ladycliff College | N.Y. |
| | Lake Erie College Lake Superior St College | Ohio Mich. |
| | Lakeland College | Wis. |
| 03581 | | Tex. |
| | Lambuth College | Tenn. |
| 03435 | Lander College Lane College | S.C. Tenn. |
| | Langston University | Okla. |
| 02279 | Lawrence Inst Technology | Mich. |
| | Le Moyne College | N.Y. |
| 03288 | Le Moyne-Owen College Lebanon Valley College | Tenn. Pa. |
| | Lehigh University | Pa. |
| 02941 | Lenoir-Rhyne College | N.C. |
| 03584 | | Tex. |
| 03197 | Lewis and Clark College Lewis University | Or eg. I11. |
| 01621 | Lewis-Clark St College | Idaho |
| 03436 | Limestone College | s.c. |
| | Lincoln Mem University | Tenn. |
| | Lincoln University Lincoln University | Mo. Pa. |
| | Lincoln University | Calif. |
| | Lindenwood Colleges, The | Mo. |
| | Linfield College | Oreg. |
| | Livingston University Livingstone College | Ala. N.C. |
| | Loma Linda University | Calif. |
| 04779 | Long Is U Brooklyn Center | N.Y. |
| | Long Is U C W Post Center | N.Y. |
| 02755 | Long Is U Southampton Ctr Longwood College | N.Y. Va. |
| | Loras College | Iowa |
| | Los Angeles Bapt College | Calif. |
| 02007 | | La. La. |
| | Louisiana Tech University Louisville, University of | Ky. |
| 02161 | Lowell, University of | Mass. |
| 02078 | Loyola College | Md. |
| 11649 | Loyola Marymount U | Calif. La. |
| 01710 | Loyola U In New Orleans Loyola U of Chicago | La. 111. |
| 03586 | Lubbock Christian College | Tex. |
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| | Lycoming College Lynchburg College | Pa. Va. |
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| | MacMurray College | I11. |
| | Madison Business College Madison College | Wis. Va. |
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| | Morehouse College | Ga. |
| | Morgan State University | Md. |
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| 03869 | Mount Mary College | Wis. |
| 01880 | Mount Mercy College | Iowa |
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| | Mount Snt Mary's College | |
| | Mount Snt Mary's College | Md. |
| 03083 | Mount Union College | Ohio |
| 01452 | Mount Vernon College | D.C. |
| | Mount Vernon Nazarene C | Ohio |
| | Mt Snt Jos-on-the-Ohio, C | Ohio |
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| | Mt Snt Vincent, College of | |
| | Muhlenberg College | Pa. |
| | Mundelein College | 111. |
| 01977 | Murray State University | Ky. |
| 03084 | Muskingum College | Ohio |
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| 02085 | Nacasa College | Maine |
| | Nasson College | |
| | Nathaniel Hawthorne C. | N.H. |
| | National University | Calif. |
| | Natl College of Business | S.D. |
| | Nazareth C of Rochester | N.Y. |
| 02208 | Nazareth College | Mich. |
| | NC Agrl & Tech State U | N.C. |
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| | NC at Asheville, U of | N.C. |
| | NC at Chapel Hill, U of | N.C. |
| | NC at Charlotte, U of | N.C. |
| | NC at Greensboro, U of | N.C. |
| | NC at Wilmington, U of | N.C. |
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| | NC Central University | N.C. |
| | NC State U Raleigh | N.C. |
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| 03005 | ND Main Campus, U of | N.D. |
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| | Nebraska-Lincoln, U of | Nebr. |
| | Nevada Las Vegas, U of | Nev. |
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Va.

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| 03524 | Tennessee Temple College | Tenn. |
| 11161 | Tex A&I U Corpus Christi | Tex. |
| 09651 | Texas A&I U Laredo | Tex. |
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| | Texas A&M U Main Campus | Tex. |
| | Texas at Arlington, U of | Tex. |
| | Texas at Austin, U of | Tex. |
| 09741 | Texas at Dallas, U of | Tex. |
| | Texas at El Paso, U of | Tex. |
| 03636 | Texas Christian U | Tex. |
| | Texas College | Tex. |
| | Texas Eastern University | Tex. Tex. |
| 03641 | Texas Lutheran College Texas Permian Basin, U of | Tex. |
| 09930 10115 | Texas San Antonio, U of | Tex. |
| | Texas Southern University | Tex. |
| 03644 | Texas Tech University | Tex. |
| 03645 | Texas Wesleyan College | Tex. |
| 03646 | Texas Woman's University | Tex. |
| 03376 | | Pa. |
| | Thomas A Edison College | N.J. |
| | Thomas College | Maine |
| | Thomas More College | Ky. |
| 03121 | Tiffin University | Ohio |
| | Tift College | Ga. |
| 03131 | Toledo, University of | Ohio |
| 02099 | Towson State University | Md. |
| 01987 | Transylvania University | Ky. |
| 02642 | Trenton State College | N.J. |
| | Trevecca Nazarene College | Tenn. |
| 01839 | Tri-State University | Ind. |
| 01771 | | 111. |
| | Trinity College | Vt. |
| 03647 | | Tex. |
| | Troy St U Dothn-Ft Rucker | Ala. |
| 01047 | Troy State U Main Campus | Ala. |
| | Troy State U Montgomery | Ala. |
| | Tulane U of Louisiana | La. |
| 03185 | Tulsa, University of | Okla. |
| 03527 | Tusculum College | Tenn. |
| 01050 | Tuskegee Institute | Ala. |
| 01214 | V - C (-) Tender | Ca 14 P |
| | U of Cal-Irvine | Calif. |
| | Union College | Ky. |
| 02503 | Union College | Nebr. |
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| Level of Accreditation B = Baccalaureate M = Masters | BM | Σ | BM | в | BM | BM | | BM | B | BM | B | BM | MIC | ٥ | ٩ | Ma | Ma | BM | BM | BM | | æ | BM | BM | BM | BM | BM | 1 | в | | BM | BM | BM | BM | BM | BM | BM | BM | BM |
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| Member \mathbf{L} Accr $\mathbf{B} = b$ M | Georgia State University | Harvard University | University of Hawaii | Hofstra University | University of Houston | Howard University | | Idaho State University | University of Illinois at Chicago Circle | University of Illinois at Urbana-Champaign | Indiana State University | Indiana University | CILINEISILY OF TOWA | | John Carroli University | | University of Kansas | Kansas State University | Kent State University | University of Kentucky | | Lamar University | Lehigh University | Louisana State University | Louisiana Tech University | Loyola University (Chicago) | Loyola University (New Orleans) | | University of Maine at Orono | | Marquette University | University of Maryland | University of Massachusetts | Massachusetts Institute of Technology | Memphis State University | University of Miami | Miami University | The University of Michigan | Michigan State University |
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| Member | University of Central Florida | University of Cincinnati | Clarkson College | Clemson University | Cleveland State University | University of Colorado | Colorado State University | Columbia University | University of Connecticut | Cornell University | Creighton University | Dartmanth Callana | | University of Delaware | University of Denver | DePaul University | University of Detroit | Drake University | Drexel University | Duke University | Duquesne University | | East Carolina University | East Texas State University | Eastern Michigan University | Eastern Washington University | Emory University | | University of Florida | Florida Atlantic University | Florida State University | Fordham University | Fort Lewis College | | The George Washington University | University of Georgia | Georgia Institute of Technology | Georgia Southern College | |
| Level of Accreditation B = Baccalaureate M = Masters | BM BM | BM | BM | В | BM | BM | BM | В | B | Σ | BM | ٩ | ם ב | B | BM | מים | n i | BM | BM | BM | B | B | BM | | BM | W | В | BM | BM | BM | в | BM | BM | в | BM | В | M | BM | |
| Member | University of Akron | University of Alabamia University of Alabama in Rirmingham | University of Alberta | Annalachian State University | University of Arizona | Arizona State University | University of Arkansas | University of Arkansas at Little Rock | Arkansas State University | Atlanta University | Auburn University | | Babson College | Ball State University | Baylor University | The Bernard M. Baruch College | Boise State University | Boston College | Boston University | Bowling Green State University | Bradley University | University of Bridgeport | Brigham Young University | | University of California | University of California, Los Angeles | California State College, Bakersfield | California State University, Chico | California State University, Fresno | California State University. Fullerton | California State University, Hayward | California State University, Long Beach | California State University, Los Angeles | California State University, Northridge | California State University, Sacramento | Canisius College | Carnegie-Mellon University | Case Western Reserve University | |

| | The University of Texas at Arlington University of Texas at Austin University of Texas at San Antonio Texas A & M University | I exas Christian University Texas Southern University Texas Tech University University of Toledo Tulane University University of Utah Utah State University | Vanderbilt University Villanova University University of Virginia (undergraduate) University of Virginia (graduate) Virginia Polytechnic Institute | and State University University of Washington Washington and Lee University Washington University Wayne State University Western Illinios University Western Michigan University Wichita State University | College of William and Mary Winthrop College University of Wisconsin-Eau Claire University of Wisconsin-Madison University of Wisconsin-Oshkosh University of Wisconsin-Oshkosh University of Wisconsin-Whitewater Wright State University University of Wyoming |
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| l of itation alaureate asters | BM BM BM | Ma B Ma B B B B B B B B B B B B B B B B | B B B B B B B B B B B B B B B B B B B | A A A A A A A A A A A A A A A A A A A | MA BANA |
| Member Level of Accreditation B = Baccalaureate M = Masters | University of Pittsburg University of Portland Portland State University Purdue University | Rensselaer Polytechnic Institute University of Rhode Island University of Richmond University of Rochester Roosevelt University Rutgers-The State University of New Jersey Saint Cloud State University | St. John's University Saint Louis University University of San Diego San Diego State University University of San Francisco San Francisco State University San Jose State University | University of Santa Clara Seattle University Seton Hall University University of South Alabama University of South Carolina University of South Florida University of Southern California Southern Illinois University at Carbondale Southern Illinois University at Edwardsville Southern Methodist University | University of Southern Mississippi Stanford University State University of New York at Albany State University of New York at Buffalo Stephen F. Austin State University Syracuse University Temple University University of Tennesee, Knoxville Tennessee Technological University |
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| Member Level of Accreditation B = Baccalaureate M = Masters | Middle Tennesee State University University of Minnesota University of Mississippi Mississippi of Missonri-Columhia | University of Missouri-Kansas City University of Missouri-Kansas City University of Montana Murray State University of Nebraska Lincoln The University of Nebraska at Omaha University of Nevada-Reno The University of New Mexico | New Mexico State University University of New Orleans New York University (undergraduate) New York University (graduate) University of North Carolina at Chapel Hill North Carolina A & T State University University of North Florida North Texes State University | North Texas State University Northeast Louisiana University Northern Arizona University Northern Illinios University Northwestern University University of Notre Dame Ohio State University Ohio University University of Oklahoma | Old Dominion University University of Oregon Oregon State University Pacific Lutheran University Pan American University University of Pennsylvania The Pennsylvania State University |