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THE AMERICAN INSTITUTE OF ACCOUNTANTS COLLEGE ACCOUNTING TESTING PROGRAM

Bulletin No. 4

RESULTS OF ORIENTATION TEST IN SCHOOLS OF BUSINESS OF FIFTY COLLEGES

Fall Semester, 1947

Prepared by
Committee on Selection of Personnel
437 West 59th Street
New York 19, N. Y.

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Harold R. Caffyn, Chairman Percival F. Brundage Alvin R. Jennings Edward A. Kracke Warren W. Nissley

Cooperating Institutions

Adelphi College Bloomsburg State Teachers College Boston University Butler University University of Chicago Chicago City Junior College-Wright Branch University of Cincinnati Clarkson College Dartmouth College University of Denver Drake University Duquesne University Emory University University of Georgia University of Illinois Iona College University of Kentucky Iouisiana Polytechnic Institute Louisiana State University University of Louisville Loyola University Marquette University Miami University

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INTRODUCTION

The fall, 1947, college accounting testing program was the third testing program carried on with tests constructed under the direction of the Committee on Selection of Personnel of the American Institute of Accountants. Work on this project was begun in 1943, and a large amount of experimental testing was conducted with the cooperation of colleges and accounting firms in 1944 and 1945. The Orientation Test, Form A, was used as the basis of a testing program in the colleges in the fall of 1946, and orientation, achievement, and interest tests were employed in a more extensive testing program in the spring of 1947. Data concerning the results of the tests given during the college year, 1946-47, as well as other information relative to the project, can be found in Bulletins Nos. 1, 2, 2A, and 3 published by the committee and in other items in the bibliography at the end of this bulletin.

The Orientation Test is designed to measure general aptitude for the study of accounting. The test contains three parts, vocabulary, reading comprehension, and arithmetic problems in the field of business. The results on the first two parts are combined to form a verbal score, and the last part yields a numerical score. Total scores, as well as verbal and numerical scores, are reported for all individuals and groups. The tests exist in two forms, A and B. The overall working time for each form is fifty minutes.

Both Form A and Form B of the Orientation Test were used in the fall, 1947, program. Form A had been used in the fall of 1946 and Form B in the spring of 1947. The usual procedure in filling orders from institutions that had previously used the Orientation Test was to send the form which had not been used by a given institution or, in case both had been used, to send the less recently used form. Central scoring in the project offices was made available, but local scoring was permitted with the proviso that all tests were to be returned to the central office for use in research and the improvement of norms on the test. All local scoring was sample checked to insure accuracy, and where the original scoring did not meet acceptable standards, complete rescoring was done before the results were included in the norms.

Several institutions cooperated, on special request, by administering Achievement Tests to their students and returning the test papers to be used in research and statistical analysis of these new tests. Distributions of the scores resulting from the experimental use of the Achievement Tests, as well as the distributions on the Orientation Test, are summarized in this bulletin. More than 17,000 accounting students distributed among fifty colleges and universities took the Orientation Test this fall. Approximately 16,000 of these students were starting their first year of accounting. It is probable at this level that the Orientation Test is particularly useful. There is obviously great advantage to both colleges and students in the use of procedures to identify early those individuals who have promise for the study of accounting and those who should perhaps be guided into preparation for some other field. A continuing research program is being carried on under the direction of the committee to establish the validity of the Orientation Test, as well as that of the Achievement Tests and the interest test for the prediction of success in accounting courses in colleges.

Summary of Test Results

Distributions of the verbal, quantitative, and total raw scores on the Orientation Test in first-year accounting courses are shown in Table I, and the corresponding distributions for the second and third years of study are presented in Table II. There are one hundred possible raw score points in the verbal part, thirty in the quantitative part, and one hundred and thirty in the entire test. It will be observed that on both forms the range of quantitative scores of the first-year group covers the entire possible range from 0 to 30. The range of verbal scores covers almost the entire possible range, although none of the more than 16,000 students obtained a perfect verbal score. The total scores range from 1 to 123 on Form A and from 0 to 120 on Form B. There is obviously a tremendous range. The range is somewhat, although not greatly, less at the combined second- and third-year levels.

The data in Tables I and II indicate that Forms A and B are rather closely similar in difficulty, but Form B is slightly easier in both verbal and quantitative score. Likewise, the variability on Form B seems to be a little greater than that on Form A. The data for the first-year students and for the secondand third-year students tend to confirm these observations. However, for practical purposes, it appears that the two forms could be used interchangeably if the fact is kept in mind that, on the average, students can be expected to be two or three points higher in total score on Form B than on Form A.

It may be appropriate to offer some suggestions concerning critical points on the Orientation Test, although more precise recommendations in this regard will be made later in research publications. It will be observed that at the first-year level Q1, or the point below which 25 per cent of the total scores fall, is 37.2 for Form A and 38.3 for Form B. It is further shown in Table I that the tenth percentile, or the point below which 10 per cent of the scores are found, is 26.8 on Form A and 26.5 on Form B. It may be helpful for users of this test to keep in mind the fact that if a first-year accounting student receives a total raw score of 35 or below he will be in the lowest quarter of the group on the basis of the national norms and that if he obtains a score of 25 or below he will fall within the lowest 10 per cent. At the second- and thirdyear levels the corresponding points may be taken at 45 and 35. Individual colleges may wish to note the tenth and twenty-fifth percentiles of the distributions of scores for their own students. Sufficient research has been done to show that, in general, very few students whose total scores on the Orientation Test fall within the lowest quarter of their class are able to make grades of A or B in the study of accounting and that almost none of those in the lowest 10 per cent obtain grades that high. A corollary to this statement, of course, is that a very large proportion of the failures come from those low-scoring groups.

On the other hand, it should be kept in mind that no test is perfectly reliable and that occasional individuals will show a wide discrepancy between test score and performance in class. The results of the Orientation Test should not be regarded as conclusive evidence concerning the accounting aptitude of an individual for study in this field but rather as an important item of information which should be checked against other information about the individual.

The difference between the median total raw scores of the first-year accounting group and the combined second- and third-year accounting groups is

TABLE I

SUMMARY DISTRIBUTIONS OF SCORES MADE ON ORIENTATION TEST, FORMS A AND B,
BY FIRST YEAR ACCOUNTING STUDENTS, FALL, 1947

	Verb	al		Quantit	ative		То	tal
Score	Form A	Form B	Score	Form A	Form B	Score	Form A	Form B
9-100 9-100	2 7 15 21 30 56 100 137 141 197 2350 311 477 601 477 631 523 376 80 49 9	4 9 17 34 52 67 69 98 145 291 268 359 454 465 466 361 328 273 207 132 50 51	30 298 27 65 4 3 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 240 391 900 1589 2106 500 1580 2106 500 15	14 32 49 52 89 186 213 191 260 280 362 382 417 442 478 414 479 442 353 234 207 198 369 38 38 38 38 38 38 38 38 38 38 38 38 38	28-04-06 113-120-11-11-11-11-11-11-11-11-11-11-11-11-11	4 5 9 17 21 41 83 99 137 202 249 353 406 450 525 630 717 738 642 579 478 360 293 169 111 57 18 9	1 6 10 27 31 54 66 84 133 164 280 286 469 524 501 537 412 390 353 300 5146 25 7
Total Q3 Md. Q1 Range	9049 48.5 36.8 26.6 0-95	7271 50.9 38.3 26.6 0-91		9049 17.2 13.2 9.3 0-30	7271 19.1 14.4 10.4 0-30		9049 63.9 49.9 37.2 1-123	7271 67.6 52.6 38.3 0-120
10%ile 90%ile	18.8 61.2	17.0 62.3		5.9 21.2	7.1 23.2		26.8 78.2	26.5 81.4

- 4 -

	Ver	bal		Quanti	tetivo		Tot	fal
Score	Form A	Form B	Score	Form A	Form B	Score	Form A	Form B
99-100 983 987 881 8 777666 30 774 18 52 96 33 33 22 21 8 12 96 32 0-100	1 2 5 6 5 0 9 1 9 6 15 6 5 3 8 4 9 3 3 8 1 9 3 4 6 7 4 4 1	4 6 10 17 12 13 12 13 19 15 32 48 35 39 0 5 6 33 9 8 12 7 5 4 1 1 1 1	30 28 27 6 5 4 3 2 1 2 1 9 8 7 6 5 4 3 2 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 5 5 12 9 6 9 19 19 25 7 8 6 6 9 9 9 0 0 18 17 9 3 3 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2495334392718433141092411324	128-0-406 132-0-108-406 1108-4	1 3 3 3 3 9 8 5 1 1 6 2 1 6 2 8 3 8 3 8 1 2 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1	4 7 5 11 15 11 18 15 13 27 37 37 37 39 37 37 26 25 22 8 6 10 1 1 2 1
Total Q3 Md. Q1 Range	443 54.5 43.2 34.0 11-90	501 58•5 44•5 32•8 2-91		443 20.3 16.1 12.3 0-30	501 22.0 17.8 13.8 0-30		443 72.1 59.1 47.7 22-116	501 77.2 61.8 48.2 10-119
10%ile 90%ile	25.5 67.3	24.2 74.8		9.3 24.3	10.2 25.3		36. 6 88.2	36.0 97.1

less than ten points, and the difference is, of course, smaller on the parts of the test. Since the second- and third-year students have had the advantage of additional study, a question may be raised concerning why the difference in total raw score points is not larger. In answer to this question, it should be recalled that the Orientation Test is designed to measure general aptitude for study in this field and not knowledge based on the study of specific courses. The study of accounting will tend to raise scores on a test of this kind in a moderate degree but to a much smaller extent than is the case if the measuring instrument is an achievement test.

At both the first-year level and the combined second- and third-year levels, the results of the Orientation Test in the fall of 1947 are considerably lower than the median scores obtained in 1946 in the verbal part of the test, and the current medians are slightly lower than the earlier medians in the quantitative part. No satisfactory explanation for these differences has been found. The fact that about twice as many colleges participated in 1947 may be a partial explanation so far as the first-year level is concerned, for perhaps a larger number of less highly selective colleges took part in the program, but this explanation is scarcely applicable to the combined second- and third-year levels, for at the latter levels, the sampling was less extensive in 1947 than in 1946.

A few fourth-year accounting students took the Orientation Test this fall, but there were not enough cases to make it feasible to report distributions of the results.

Distributions of the raw scores on Achievement Test, Level I, Form A and Form B, and Achievement Test, Level II, Form B, are shown in Table III. It should be emphasized that these tables simply present the distributions of scores from several colleges that were invited to give these tests on an experimental basis to provide data for research. The spring program is the one in which the Achievement Tests will be used on a regular service basis.

Even in these small groups, however, it is to be noted that there are very large differences in the achievement of students presumably studying at the same level.

Raw scores on Form A and Form B of Achievement Test, Level I, are not directly comparable. Although the two forms cover similar content, there are more questions in Form B, and the raw scores may be expected to run considerably higher on that form. The possible numbers of total raw score points on the two forms are 120 on Form A and 178 on Form B. The maximum score on the Level II test is 150.

Distributions of Orientation Test Scores in Individual Colleges

Distributions of total scores made on the Orientation Test by first-year accounting students in individual colleges participating in the fall, 1947, program are shown in Tables IV and V. Table IV shows the distributions of total scores made on Form A of this test and Table V shows the distributions for Form B. Distributions for second- and third-year accounting students in individual colleges are given in Tables VI and VII. Table VI shows the Form A distributions and Table VII the distributions for Form B. In Table VIII there are distributions for six colleges that cooperated in the experimental use of Achievement Test, Level II, Form B, with their seniors. For nearly all the colleges whose results were reported in Tables IV through VII, the distri-

TABLE III

SUMMARY DISTRIBUTIONS OF SCORES ON ACHIEVEMENT TESTS IN COLLEGES
THAT COOPERATED BY USING THESE TESTS EXPERIMENTALLY, FALL, 1947

TABLE IV
DISTRIBUTIONS OF SCORES MADE ON ORIENTATION TEST, FORM A, BY FIRST-YEAR ACCOUNTING STUDENTS IN TWENTY-FOUR COLLEGES

	1	2	3	4	5	6	7	8	9	10	n	12	13	14	15	16	17	18	19	20	21	22	23	24	
128-130 124 120 116 112 108 104 100 96 92 88 84 80 76 72 68 64 64 60 56 52 48 44 40 36 32 28 24 20 16 12 8 4 0-3	1 1 1 2 8 2 10 9 11 13 11 15 13 11 15 3 3	1 2 2 6 11 12 13 25 11 23 34 23 30 15 22 11 5	1 2 3 5 4 9 11 10 19 15 36 15 23 25 32 19 8 - 20 19 8 - 4 5	1 2 1 2 3 9 9 9 11 14 25 24 32 37 37 38 32 2 2 21 16 4 2 1	1 2 1 5 4 9 7 17 26 16 29 43 51	30	2 3 1 7 13 13 16 30 15 26 41 42 9 50 - 51 16 13 12 8 5 2	1 1 7 6 7 11 9 11 16 22 21 21 13 18 16 6 1 2 2	9 1 1 2 6 4 4 7 11 10 16 16 16 22 32 40 41 44 44 13 19 9 4 3 2 1	10 1 4 2 8 8 10 10 12 15 25 27 34 49 49 49 49 49 49 49 49 49 49 49 49 49	11 1 4 4 5 8 18 13 33 31 42 55 72	12 3 1 2 3 7 6 30 27 17 25 15 14 6 4 1	13 1 1 2 2 3 4 5 6 12 17 31 26 13 9 10 12 1 1	14 1 1 2 10 3 7 5 8 20 21 27 30 38 57 37 38 11 8 4 11	15 1 4 2 2 1 2 1 4 3 6 13 14 11 11 11 11 11 11 11 11 11 11 11 11	16 1 1 5 1 7 4 7 9 12 14 22 29 38 43 53 47 35 42 29 26 17 9 6 1	1 1 1 2 5 4 9 12 15 9 17 27	1 1 3 4 2 5 12 1 14 6 5 11 2 1	19 1 2 3 7 3 2 1 2 8 1 3 1 5 24 - 22 24 22 1 13 1 2 1 8 9 8 6 1 2	1 2 3 5 2 5 6 6 13 14 19 20 17 29 32 15 9 5 8	1 1 3 1 6 6 6 5 9 16 26 38 	2 1 2 2 2 2 2 7 6 1 1 3	1 5 6 8 4 4 15 20 17 32 39 38 50 50 53 45 37 28 20 13 5	1 2 1 1 2 1 2 1 2 17 	128-130 124 120 116 112 108 104 100 96 92 88 84 80 76 72 68
Total Q3 Md. Q1 Range	137* 91.5 79.8 69.3 43-118	296 81.6 68.5 57.7 32-112	311 76.3 63.7 53.6 25-119	428 71.3 59.0 48.6 16-120	721 70.4 58.3 47.7 20-116	439 72.9 58.1 44.7 20-120	626 73.0 58.0 46.0 10-115	216 67.8 57.1 46.8 22-97	423 62.8 50.2 40.4 6-116	772 64.6 50.0 37.2 7-119	1440 63.7 49.8 37.6 1-123	223 55.8 48.2 38.4 14-95	254 58.2 47.7 38.7 10-105	437 59.4 46.7 36.4 7-118	165 56.8 45.3 33.8 3-106	517 57.1 44.9 32.7 6-120	385 57.0 44.0 33.9 9-101	231 55.8 43.5 31.6 2-98	250 52.9 41.8 30.0 2-92	286 55.3 41.4 32.1 6-98	575 51.9 39.9 29.0 1-104	51 47.6 39.7 31.9 18-78	498 46.9 35.8 25.9 5-85	277 47.6 33.8 23.5 3-94	Total Q3 Md Q1 Range

*Excluded from norms. Graduate Level.

TABLE V
DISTRIBUTIONS OF SCORES MADE ON ORIENTATION TEST, FORM B, BY FIRST-YEAR ACCOUNTING STUDENTS IN TWENTY-ONE COLLEGES

	25	26	27	28	29	30	31	32	33	34	15	35	36	37	38	39	40	41	42	43	44	
128-130 124 120 116 112 108 104 100 96 92 88 84 80 76 72 68 64 60 56 52 48 44 40 36	3 2 4 7 4 7 11 7 11 7 8 4 1 2 1 2 1 2 1 2	1 2 2 2 5 5 5 3 7 7 5 10 8 9 3 4 4	1 2 1 10 8 23 15 24 49 70 77 103 85 127 105 105 105 177 69 57 - 26	2 2 2 5 7 9 8 12 15 17 11 25 20 21 17 19	1 3 2 4 12 8 15 19 46 46 52 71 85 89 	1 1 1 3 3 3 2 2 6 2 3 3 3	1 2 6 7 9 8 17 18 26 20 33 40 48 35 48 59 54 51	1 1 3 2 3 3 5 6 7 11 9 12	1 3 7 1 7 5 9 18 23 22 51 52 87 87 87 92 106 93	2 3 3 3 3 3 9 16 10 11 17 14 24 20 7	2 1 1 1 3 2 1 8 3 7 5 13 	1 2 3 1 4 3 2 	1 1 3 4 1 6 8 2 8 11 7 10 13	1 2 3 4 2 4 4 9 8 20 18 12 16 27	1 1 3 2 3 5 6 1 3	2 1 1 4 8 2 6 15 14 19 - 16 21 20 32	1 1 1 2 5 3 7 17 13 22 21 18 25 27 23 43 46 63	1 2 5 1 4 5 10 10 11 14 17 24 27 38 35	2 2 3 9 5 7 7 10 19	2 1 3 4 5 4 5 4 5 6 7	1 	128-130 124 120 116 112 108 104 100 96 92 88 84 80 76 72
36 32 28 24 20 16 12 8 4		1	25 18 6 5 3	9 5 3 2	30 21 13 13 4 1	4 3 2 2	29 30 38 18 10 8 5	13 7 4 2	64 61 42 23 13 11 4	21 16 16 4 8 2 1	11 11 7 1 3 1	10 7 3 6 2 2 1 1	10 7 4 4 6 3	21 19 10 3 2 1	1 1 1	25 28 17 12 11 9 11	46 50 53 52 34 23 27 8 3	38 39 42 24 27 15 7 2	18 14 16 9 3 5	16 11 13 15 21 7	21 27 27 23 19 25 9 3 3	36 32 28 24 20 16 12 8 4
Total Q3 Md Q1 Range	88 98.9 88.6 78.5 42-119	111. 83.6 70.1 59.0 29-113	1332 77.9 65.8 53.5 9-120	254 75.6 60.3 47.9 8-110	944 70.4 59.1 47.6 10-112	43 66.5 53.0 35.8 20-100	701 69.2 52.5 39.4 6-112	146 66.0 51.8 40.2 5-101	1071 60.8 49.3 38.4 7-110	232 61.8 48.3 33.7 6-100	162 60.8 48.0 34.0 1-114	92 60.8 47.4 32.4 6-113	122 57.8 44.4 34.6 12-98	212 57.0 43.7 35.2 7-96	47 54.6 42.0 26.7 4-87	304 56.0 41.6 30.3 8-97	667 52.6 39.1 25.5 0-118	439 51.1 38.5 27.3 5-106	148 47.2 37.5 28.3 5-106	156 51.2 33.5 21.6 5-86	208* 39.6 31.1 22.3 0-89	Total Q3 Md Q1 Range

*Excluded from norms. Foreign language background.

- 9 TABLE VI

DISTRIBUTIONS OF SCORES ON ORIENTATION TEST, FORM A,
OF SECOND-AND THIRD-YEAR ACCOUNTING STUDENTS

	20	15	16	12	16	22	20	
128-130 124 120 116 112 108 104 100 96 92 88 84 80 76 72 68 64 60 52 48 44 40 36 32 28 24 20 16 12 8 4 0-3		1 2 1 32 1 2 1 2 1 2 1 2	2 1 3 2 3 4 7 10 	3 2 2 3 3 4 4 5 2 1 3 1	1 1 2 1 2 5 8 1 2 5 	1 1 4 2 4 5 2 6 8 9 4 3 6 3 3	5 4 4 5 4 - 5 4 3 8 2 5 1	128-130 124 120 116 112 108 104 100 96 92 88 84 80 76
Total Q3 Md Q1 Range	15 97.0 77.0 51.0 34-109	17 87.7 73.0 61.0 49-116	99 79.3 66.3 52.5 32-114	42 75.0 59.3 50.8 32-91	146 69.6 58.2 47.7 22-113	73 66.2 52.3 43.3 24-97	47 61.3 51.5 41.4 22-71	Total Q3 Md Q1 Range

TABLE VII

DISTRIBUTIONS OF SCORES ON ORIENTATION TEST, FORM B,
OF SECOND- AND THIRD-YEAR ACCOUNTING STUDENTS

	25	15	40	45	41	40	45	41	
28-130									128-130
124									124
120									120
116	4								116
112	5	1			1				112
108	5 3	_				1		1	108
104	6.		2			ī	1	ī	104
100	9		1	2		2		ī	100
96	4	1	_	1	2	2	1		96
92	ε†	_	1			2 2 5	2	2	92
88	3		1 2		2	5	2 2	2 1	88
84	5	1	1		4		2		84
80	6 '	1				4	1	1	80
76 – -	2-	2+	2-		6	⊢	4-	1-	76
72	3	1	_ 7	1	3	9	4	4	72
68	2	2	2	1	4	7	5	4	68
64	3	2 '	4	_ 3 ⊢	_ 4	10	8	3	64
60			2		2-	12-	91	5	60
56	1	1	3	1	5	12	<u> </u>	. 6	56
52		1	41	2]	6	10	10	3	52
48			3_		3-	16	12-	3-	48
44			3	1	4	7		7	44
40			1	1	2	6	8 '	7	40
36			1	1	2	7	10	1	36
32	1		1		1	10	4	5	32
28					1	4	2	1	28
24				1		2 4	2	1	24
20						4	3	3	20
16						1		_	16
12						1		1	12
3						1			8
4									4
0-3									0-3
Total	65	12	40	17	52	146	104	62	Total
Q3	105.2	82.0	75.4	75.0	77.3	71.7	66.0	68.5	Q3
Мđ	95.3	72.0	66.0	64.7	64.0	57.3	54.8	54 . 7	Md
Ql	82.8	66.0	53.0	52.5	52.0	44.3	42.5	42.0	Q1
Range	35-119	52-114	34-107	24-101	30-113	10-110	22-105	14-108	Range

TABLE VIII

DISTRIBUTION	S OF SCORES	MADE ON	ACHIEVEMENT	TEST, LEVEL II,	FORM B, BY	SENIORS IN S	IX COILEGES
	18	6	46	4	47	48	
150					1		150
147							147
144							144
141							141
138							138
135							135
132 129					•		132
126	2				1		129 126
123	~						123
120	4	1		1			120
117	ī	_	1	ī			117
114	1	2		1			114
111	1				1		111
108	2	2			1		108
105	4	1	1				105
102	4	1,	1,	_	_	1	102
99	· 4	1		1	1	1	99
96 93	+					 _	96
90	4	2 2		21	1	1	93 90
87	3 1	3	1	2 2	-1	1	87
84	6	2	1	2	1	5	84
81		3	1 -		1	4	81
78	2	1	1	3 2		5 .	78
75	1	1		21		2	75
72		2			1		72
69	_	1	1	1	_	7	69
66	1	•		1	2	6	66
63 60		2			1	3=	63
57			1	1	2	9 7	60 57
54			•		د	9	54
51	1				1	2	51
48	_				-	4	48
45						2	45
42			1			•	42
39							39
36				1		3	36
33						1	33
30 27	,					•	30
24	1					1	27 24
21							21
18							18
15							15
12							12
9							9
9 6 3 0-2							, , 6
3							3
0-2							0-2
otal	43	28	11	19	14	74	Total
	108.4	102.0	102.8	91.9	100.5	77.3	Q3
	100.1	89.0	88.5	84.8	78.0	62.7	Md
ହା	86.4	81.0	71.3	76.1	64.5	55.8	Q1
		53-121	44-119		52-131	28-103	Range
~	-	-		_	_		

butions for the seniors in Table VI are based on complete classes, since certain cooperating colleges permitted their seniors to take the Level II test on a voluntary basis. This procedure was satisfactory for the research purposes for which the test was being given.

The colleges are designated by code numbers. Each college will be informed of its own number.

The distributions are in terms of raw scores as indicated by the scale near the margin of each chart. The Q3 or seventy-fifth percentile, the median or fiftieth percentile, and the Q1 or twenty-fifth percentile for the distribution of scores of the entire group of students at each level are indicated by the broken lines running horizontally across each table. The median and the inter-quartile range are shown graphically beside each distribution.

These tables agree with those that were included in Bulletins Nos. 1 and 3 summarizing the testing programs in 1946 and 1947 in that they show large differences among the colleges in aptitude as measured by this test for the study of accounting. The differences among the groups on the Orientation Test, particularly those shown in Tables IV and V for the first-year students, are of considerable significance, since the comparisons are, in most instances, based upon complete or nearly complete class groups. The differences among the six colleges that administered the experimental form of the Level II test to the seniors are of little or no importance because some of these class groups were not complete. It should be stressed that the use of the Level II Achievement Test in the fall program was strictly a research use, and that the regular program with this test will take place in the spring of 1948.

Large as some of the differences are among the median scores of class groups in different colleges, the differences among the individuals in single class groups tend to be much larger. It is the differences among individuals to which each college should give special attention. These differences should serve as one of the bases for the guidance of qualified students into the further study of accounting and, at the same time, for the guidance of low-scoring students into other fields of study.

BIBLIOGRAPHY

- A Study of the Ability of Accounting Students: Results of Orientation Test, Form A, in Schools of Business of Twenty-nine Colleges, Fall Semester, 1946. The American Institute of Accountants, College Accounting Testing Program, Bulletin No. 1, New York: Committee on Selection of Personnel, February, 1947. Pp. 16.
- The College and Professional Accounting Testing Programs: Results of Tests in Schools of Business of Fifty-seven Colleges and in Fifteen Public Accounting Firms, Spring, 1947. The American Institute of Accountants, College Accounting Testing Program, Bulletin No. 3, New York: Committee on Selection of Personnel, August, 1947. Pp. 22.
- Nissley, Warren W. "Selection of Accounting Personnel," <u>Papers Presented at the Fifty-seventh Annual Meeting of the American Institute of Accountants</u>. New York: American Institute of Accountants, 1944.
- Schmidt, Leo A. Objective Examinations in Professional Accounting (Preliminary edition), The American Institute of Accountants, Professional Accounting Testing Program, Bulletin No. 2, New York: Committee on Selection of Personnel, June, 1947. Pp. 28.
- Schmidt, Leo A. Objective Examinations in Professional Accounting: Samples and Comment. The American Institute of Accountants, Professional Accounting Testing Program, Bulletin No. 2A, New York: Committee on Selection of Personnel, August, 1947. Pp. 36.
- Traxler, Arthur E. "Project in the Selection of Personnel for Public Accounting," National Projects in Educational Measurement. A Report of the 1946 Invitational Conference on Testing Problems. Washington, D.C.: American Council on Education, August, 1947.
- Traxler, Arthur E. "An Objective Testing Program in Accounting," Collegiate News and Views, I, October, 1947. (1-4).
- Wood, Ben D., and Traxler, Arthur E. "The Use of the Strong Vocational Interest Blank with Public Accountants," Certified Public Accountant, July, 1946. (4-5).