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THE AMERICAN INSTITUTE OF ACCOUNTANTS COLLEGE ACCOUNTING TESTING PROGRAM

Bulletin No. 10

RESULTS OF THE FALL, 1950, COLLEGE ACCOUNTING TESTING PROGRAM IN NINETY-EIGHT COLLEGES

Prepared by Committee on Selection of Personnel 21 Audubon Avenue New York 32, N. Y. January, 1951

THE AMERICAN INSTITUTE OF ACCOUNTANTS COLLEGE ACCOUNTING TESTING PROGRAM

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INTRODUCTION

This bulletin contains a statistical summary of the results of the 1950 Fall College Accounting Testing Program. This was the fifth fall testing program for accounting students. The first one was held in 1946, with twenty-six participating colleges. The 1950 program included ninetyeight colleges, a larger number than in any preceding fall program. The names of the participating colleges are listed at the beginning of the bulletin.

The total number of tests administered in the ninety-eight colleges was 13,362, which was less by 1,163 tests than the number given last fall. It is thought that this small decrease in tests administered probably reflects to some extent the tendency toward somewhat smaller enrollments in the colleges, as the influence of the veteran registration which was very large shortly after the war continues to drop off.

A larger proportion of the tests was scored in the project office this fall than last fall or in any preceding fall program. Approximately 77 per cent of the tests were scored centrally this year, as compared with 65 per cent in 1948 and 67 per cent in 1949.

The numbers of the different kinds of tests administered were as follows: Orientation Test, 10,630; Achievement Test, Level I, 1,121; Achievement Test, Level II, 299; Strong blank, 1,312. The Orientation Test, or test of general mental ability slanted toward the business field, is stressed in the fall program, while the Achievement Tests are emphasized in the spring program.

It is anticipated that the Achievement Test, Level II, as well as the Orientation Test, will be used rather extensively in a midyear testing program for seniors which will take place for the first time in January, 1951.

Section II of the present bulletin contains a general statistical summary of the results of the Orientation and Achievement Tests. Comparative charts showing under code numbers the distributions of scores for individual colleges are given in Section III. Each college will be apprised of its own code number. It is hoped that each college will regard the standing of its classes in the comparative charts as confidential information which will not be divulged except for local use by the faculty members concerned.

The final section of the bulletin contains a research article prepared by Dr. Robert Jacobs of the Project Office staff on the value of the accounting tests for predicting success on the job.

Ι

SUMMARY OF TEST RESULTS

Tables I and II show the summary distributions of scores on the Orientation Test, Form B, made by first-year, second-year, third-year, and senior students of accounting. Verbal and quantitative scores are shown in Table I, and total scores in Table II. Form B, which was the recommended form, was administered to more than 8000 first-year students this fall, and was given also to a total of over 800 more advanced students, divided among second-year, third-year, and senior classes.

A number of colleges used Form A or Form C of the Orientation Test. The number of students taking Form C was quite small, so that no distributions are presented for the results on that form. Of those taking Form A, only small numbers were classified as second-year, third-year, and senior students. However, more than 900 first-year students were given Form A; their results are shown in Table III.

The dotted lines across the distributions in Tables I and II represent the medians for the fall, 1947, administration of Form B of the Orientation Test to first-, second-, and third-year classes. No previous fall median is available for seniors. The broken lines show spring medians (1947 and 1948 combined) for all four classifications. The medians for this fall are not only lower than for the spring administration (as might be expected), but are also noticeably lower than for the 1947 fall administration, except in the third-year verbal and total scores.

In Table III, the dotted lines, showing medians for the combined fall programs of 1946, 1947, and 1948, provide a comparison with results of earlier administrations of Form A. Here again, as on Form C, the medians are considerably lower this year.

Table IV shows the results of first-year and second-year students on the Achievement Test, Level I, Form A. The broken lines represent the medians for the spring, 1949, administration of the test. The first-year median is very slightly higher this fall than in the spring of 1949, while the second-year median is slightly lower. Table V gives the distribution of the rather small number of students taking the Achievement Test, Level II, Form D. The median for this fall is substantially higher than the median for the March, 1950, administration of this test, as shown by the broken line across the table.

II

TABLE I

SUMMARY DISTRIBUTIONS OF PART SCORES MADE ON ORIENTATION TEST, FORM B, BY FIRST-YEAR, SECOND-YEAR, THIRD-YEAR, AND SENIOR STUDENTS OF ACCOUNTING, FALL, 1950

VERBAL QUANTITATIVE Score 2nd year 3rd year Score 1st year 3rd year Senior 99-100 1 30 2 1 3 3rd year Senior 99-100 2 1 30 7 1 3						<u>[</u>							
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		7	TERBA	L		QUANTITATIVE							
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Score	lst year	2nd year	3rd year	Senior	Score	lst year	2nd year	3rd year	Senior			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	99-100									:			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	96												
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	93				1								
84 11 2 4 28 41 6 7 2 81 17 2 8 4 26 79 6 4 13 76 26 5 8 4 26 79 6 4 13 77 33 1 4 3 25 119 8 6 10 77 33 1 4 3 25 119 8 6 10 69 81 8 7 6 23 182 18 16 14 63 122 12 9 12 21 265 16 10 15 60 163 17 14 -18 20 274 16 0 14 18 54 239 17 14 -18 20 26 18 14 14 13 573 27 19 21 16 18 14 14 12 <th< td=""><td>90</td><td></td><td></td><td></td><td></td><td>30</td><td></td><td></td><td></td><td></td></th<>	90					30							
84 11 2 4 28 41 6 7 2 81 17 2 8 4 26 79 6 4 13 76 26 5 8 4 26 79 6 4 13 77 33 1 4 3 25 119 8 6 10 77 33 1 4 3 25 119 8 6 10 69 81 8 7 6 23 182 18 16 14 63 122 12 9 12 21 265 16 10 15 60 163 17 14 -18 20 274 16 0 14 18 54 239 17 14 -18 20 26 18 14 14 13 573 27 19 21 16 18 14 14 12 <th< td=""><td>87</td><td>4</td><td>1</td><td>2</td><td></td><td>29</td><td>25</td><td>4</td><td>7</td><td>3</td></th<>	87	4	1	2		29	25	4	7	3			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	84	11			4	28	41	6	7	2			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	81	17	2			27	32	2	4	4			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	78		5	8	4	26		6	4	13			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	75	33	1		3	25		8	6				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	72	66	3	5	1	24	164	13	8	12			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	69	81	8	7	6	23	182	18	16	14			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	66	97	10	7	8			12	7.	4			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	63	122			12	21	265			15			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	60	163		14	18			16		14			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	57			16	15		285			18			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	54			14		18			19	21			
48 337 24 17 22 16 399 26 18 14 45 418 17 19 18 15 461 24 23 16 42 434 23 11 14 461 24 23 11 14 39 495 32 14 14 13 573 22 11 14 39 495 32 14 14 13 573 22 9 36 567 21 18 14 12 527 17 9 8 33 582 21 4 14 11 529 15 12 9 30 606 23 14 8 10 487 16 9 6 27 569 27 11 10 9 507 23 5 10 24 527 24 3 5 8 493 5 4 8 21 506 13 5 2 7 394 4 6 5 18 513 12 2 4 6 321 8 2 1 12 9 262 3 1 2 3 123 3 1 2 9 262 3 1 2 3 123 3 1 12 9 262 3 1 2 <	51	294	21		24				8-	18			
45 418 17 $$ 19 $$ 18 15 461 24 23 16 39 495 32 14 19 25 14 -492 $$ 23 111 114 39 495 32 14 14 12 573 22 10 12 36 567 $$ 21 18 14 12 527 17 9 8 33 582 21 4 14 11 529 15 12 9 30 606 23 14 8 10 487 16 9 6 27 569 27 11 10 9 507 23 5 10 24 527 24 3 5 8 493 5 4 8 21 506 13 5 2 7 394 4 6 5 18 513 12 2 4 6 321 8 2 1 15 413 9 2 2 5 245 8 2 3 12 313 6 2 1 4 190 4 1 2 9 262 3 1 2 3 123 3 1 9 262 3 1 2 87 1 1 3 103 0 1 1 58.6	48	337				16		26 -	18				
42 434 23 14 19 25 14 -492 23 11 14 39 495 32 14 14 13 573 22 10 12 36 567 21 18 14 12 527 17 9 8 33 582 21 4 14 11 529 15 12 9 30 666 23 14 8 10 487 166 9 6 27 569 27 11 10 9 507 23 5 10 24 527 244 3 5 8 493 5 4 8 21 566 13 5 2 7 394 4 6 5 18 513 12 2 4 6 321 8 2 1 15 413 9 2 2 5 245 8 2 3 12 313 6 2 1 4 190 4 1 2 9 262 3 1 2 3 123 3 1 9 262 3 1 2 3 123 3 1 9 262 3 1 2 3 123 3 1 9 262 3 1 2 3 123 3 1 9 </td <td>45</td> <td>418</td> <td></td> <td></td> <td></td> <td></td> <td>461</td> <td></td> <td></td> <td></td>	45	418					461						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	42	_434		19	25			23		14			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		495	32 -	14		13				12			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	36	567	21	18 '	14					8			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	33	582		4					12	9			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	30	606		14		10	487	16	9	6			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		569	27		10			23	5	10			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	24	527	24			8		5	4	8			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		506		5	2	7		4	6	5			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	18		12	2	4	6		8	2	1			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	15		9	2		5		8	2	3			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	12		6	2		4	190	4	1	2			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	9	262	3	1	2	3	123	3	1				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	6		3			2	87	1					
Total8217367237257Total8217367237257Q3 45.5 53.5 59.4 58.6 Q3 17.7 20.622.121.9Md33.5 41.0 48.8 49.3 Md 13.2 16.4 17.6 18.1 Q122.529.4 38.5 39.5Q19.2 12.2 13.7 14.0 Range0-906-87 $11-88$ $11-95$ Range0-300-290-30 $4-30$ 10 \$11e14.421.929.429.9 10 \$11e 6.2 9.1 10.2 9.7			0			1	52						
Q3 45.5 53.5 59.4 58.6 Q3 17.7 20.6 22.1 21.9 Md 33.5 41.0 48.8 49.3 Md 13.2 16.4 17.6 18.1 Q1 22.5 29.4 38.5 39.5 Q1 9.2 12.2 13.7 14.0 Range 0-90 6-87 11-88 11-95 Range 0-30 0-29 0-30 4-30 10 \$11e 14.4 21.9 29.4 29.9 10 \$11e 6.2 9.1 10.2 9.7						0	45	1	1				
Q3 45.5 53.5 59.4 58.6 Q3 17.7 20.6 22.1 21.9 Md 33.5 41.0 48.8 49.3 Md 13.2 16.4 17.6 18.1 Q1 22.5 29.4 38.5 39.5 Q1 9.2 12.2 13.7 14.0 Range $0-90$ $6-87$ $11-88$ $11-95$ Range $0-30$ $0-29$ $0-30$ $4-30$ 10 \$11e 14.4 21.9 29.4 29.9 10 \$11e 6.2 9.1 10.2 9.7	Total	8217	367	237	257	Total	8217	367	237				
Md 33.5 41.0 48.8 49.3 Md 13.2 16.4 17.6 18.1 Q1 22.5 29.4 38.5 39.5 Q1 9.2 12.2 13.7 14.0 Range 0-90 6-87 11-88 11-95 Range 0-30 0-29 0-30 4-30 10 \$11e 14.4 21.9 29.4 29.9 10 \$11e 6.2 9.1 10.2 9.7									22.1				
Q1 22.5 29.4 38.5 39.5 Q1 9.2 12.2 13.7 14.0 Range 0-90 6-87 11-88 11-95 Range 0-30 0-29 0-30 4-30 10 \$11e 14.4 21.9 29.4 29.9 10 \$11e 6.2 9.1 10.2 9.7								16.4	17.6				
Range 0-90 6-87 11-88 11-95 Range 0-30 0-29 0-30 4-30 10 \$11e 14.4 21.9 29.4 29.9 10 \$11e 6.2 9.1 10.2 9.7													
								0-29		4-30			
	10 dt12	ղ <u>ի</u> հ	21 9	29.4	29.9	10 %11e	6.2	9.1	10.2	9.7			
	<i>yo p</i> 110												

..... Medians, fall, 1947 ----- Medians, combined spring programs, 1947 and 1948

TABLE II

SUMMARY DISTRIBUTIONS OF TOTAL SCORES MADE ON ORIENTATION TEST, FORM B, BY FIRST-YEAR, SECOND-YEAR, THIRD-YEAR, AND SENIOR STUDENTS OF ACCOUNTING, FALL, 1950

		ТОТА	L	
Score	lst year	2nd year	3rd year	Senior
$\begin{array}{c} 128-130 \\ 124 \\ 120 \\ 116 \\ 112 \\ 108 \\ 104 \\ 100 \\ 96 \\ 92 \\ 88 \\ 80 \\ 76 \\ 72 \\ 68 \\ 60 \\ 55 \\ 84 \\ 40 \\ 32 \\ 28 \\ 20 \\ 16 \\ 12 \\ 8 \\ 4 \\ 0-3 \end{array}$	$\begin{array}{c}3\\5\\13\\21\\28\\50\\59\\114\\125\\147\\198\\245\\355\\369\\423\\500\\581\\581\\581\\581\\581\\582\\530\\425\\582\\530\\425\\355\\272\\153\\81\\63\\12\end{array}$	$ \begin{array}{c} 1\\ 1\\ 3\\ 4\\ 7\\ 10\\ 10\\ 14\\ 15\\ 18\\17\\ 29\\27\\27\\26\\ 16\\ 14\\ 11\\ 5\\ 22\\ 16\\ 14\\ 11\\ 5\\ 2\\ 1\\ 26\\ 16\\ 14\\ 11\\ 5\\ 2\\ 1\\ 2 \end{array} $	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c} 1\\ 2\\ 2\\ 3\\ 7\\ 6\\ 10\\ 18\\ 19\\ 26\\ 23\\ 29\\ 23\\ 18\\ 13\\ 15\\ 10\\ 5\\ 9\\ 7\\ 2\\ 3\\ 2 \end{array} $
Total Q3 Md Q1 Range	8217 61.0 46.4 33.1 0-119	367 71.4 57.5 42.8 10-116	237 79.9 65.4 53.2 14-118	257 77.6 67.0 55.5 20-121
10 %ile 90 %ile	22.7 75.0	32.4 86.1	41.8 92.2	42.2 87.7

..... Medians, fall, 1947 ----- Medians, combined spring programs, 1947 and 1948

TABLE III

SUMMARY	DISTRIBU	TIONS	OF PA	RT AND	TOTAL	SCORES	MADE	ON	ORIENTATION	TEST,	FORM A,
	BY	FIRST	-YEAR	STUDE	NTS OF	ACCOUNT	TING,	FAL	L, 1950		

VEF	RBAL	QUANT	ITAT IVE	т	TAL
Score	lst year	Score	lst year	Score	lst year
99-100 96 93 97 84 81 87 77 96 63 63 65 75 41 85 29 63 87 74 11 85 29 63 87 24 11 85 29 63 0-2	2 3 3 5 1 4 9 1 1 4 7 1 2 9 3 6 5 8 2 1 4 9 3 6 5 8 2 1 2 9 3 6 5 8 2 1 4 9 1 1 4 7 1 2 9 3 6 5 6 3 8 6 1 8 9 1 6 8 9 1 6 9 1 1 4 9 1 1 4 9 3 6 5 6 9 3 6 5 6 9 1 1 4 9 1 1 4 7 1 1 7 1 9 3 6 5 6 8 2 1 9 1 1 4 9 1 1 4 7 1 1 7 1 9 3 6 5 1 8 2 1 1 9 1 1 4 7 1 1 1 7 1 2 9 3 6 5 8 2 1 1 1 1 2 1 1 1 1 1 2 9 3 6 5 1 1 1 1 1 1 2 1 2 9 3 6 5 1 1 1 1 1 2 1 1 2 1 1 1 1 1 2 1 1 1 1	3987654321098765432109876543210	2 4 6 9 15 14 11 77 29 4 3 6 4 5 8 8 7 8 6 4 5 1 5 3 8 3 7 15 11 25	128-130 124 120 116 112 108 104 106 988 88 88 778 64 66 55 88 4 0 62 88 4 0 62 88 4 0 62 88 4 0 62 88 4 0 62 88 4 0 62 88 4 0 62 88 4 0 62 88 4 0 62 88 4 0 62 88 4 0 62 88 4 0 62 88 4 0 62 88 84 80 62 88 84 80 62 88 84 80 62 88 84 80 62 88 84 80 80 80 80 80 80 80 80 80 80 80 80 80	1 3 2 4 9 5 3 2 9 0 3 4 5 2 6 9 5 6 4 2 3 2 5 1
Total Q3 Md Q1 Range	903 38.4 28.4 19.6 0-83	Total Q3 Md Q1 Range	903 14.2 10.6 7.1 0-25	Total Q3 Md Q1 Range	903 51.2 38.7 28.2 0-100
10 %ile 20 %ile	13.0 50.0	10 %ile 90 %ile	4.1 17.5	10 %ile 90 %ile	19.1 63.7

..... Medians, combined fall programs, 1946, 1947, and 1948

.

TABLE IV

SUMMARY DISTRIBUTIONS OF TOTAL SCORES MADE ON ACHIEVEMENT TEST, LEVEL I, FORM A, BY FIRST-YEAR AND SECOND-YEAR STUDENTS OF ACCOUNTING, FALL, 1950

Score	lst year	2nd year
$\begin{array}{c} 120\\ 117\\ 114\\ 111\\ 108\\ 105\\ 102\\ 99\\ 96\\ 93\\ 90\\ 87\\ 84\\ 81\\ 75\\ 72\\ 69\\ 66\\ 30\\ 57\\ 54\\ 18\\ 45\\ 42\\ 96\\ 33\\ 30\\ 27\\ 41\\ 18\\ 15\\ 12\\ 96\\ 3\\ 0-2 \end{array}$	$ \begin{array}{c} 1\\ 4\\ 6\\ 3\\ 5\\ 7\\ 6\\ 12\\ 29\\ 25\\ 32\\ 24\\ 41\\ 53\\ 41\\ 53\\ 59\\ 47\\ 45\\ 30\\ 24\\ 6\\ 9\\ 4\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\$	$ \begin{array}{c} 2 \\ 1 \\ 3 \\ 2 \\ 7 \\ 5 \\ 11 \\ 6 \\ 14 \\ 19 \\ 6 \\16 \\ 9 \\ 13 \\ 10 \\ 12 \\ 13 \\ 10 \\ 9 \\ 3 \\ 6 \\ 6 \\ 4 \\ 1 \\ 1 \end{array} $
Total	848	189
Q3	64.5	78.8
Md	51.6	68.2
Q1	38.0	55.7
Range	0-105	31-104
10 %ile	28.8	45.9
90 %ile	78.4	87.7

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----- Medians, spring, 1949

TABLE V

SUMMARY DISTRIBUTION OF TOTAL SCORES MADE ON ACHIEVEMENT TEST, LEVEL II, FORM D, BY SENIORS IN ACCOUNTING, FALL, 1950

	<u>Г</u>
Score	Senior
00L 100	1
96	1
94	
92	2
5core 109896429888888888887777727886648685555258644298864428888888888888888888888888888	2 3 1 4 4 3
86	4
84 83	4
80	
78	8
76 71	5
72	9
70	3
68	3
60 64	7
62	· · ·
60	8 5 4 9 3 7 7 4 1 3 5 7 3 4 3 6 4
50 56	
54	5
52	7
50 118	3 1
46	3
44	6
42 40	4
38	4
36	4 1 5 3 1 1 3 2
34	2
30	3
28	1
26 24	1
22	2
20	
18 16	
14	1 1
12	1
10 8 6 4	
6	
4	
2 0 - 1	
	100
Total Q3	130 75.8
Mđ	75.8 63.0 45.2
Q1	45.2
Range	12-99
10 %ile 90 %ile	32.7 85.5

•

Median, March, 1950

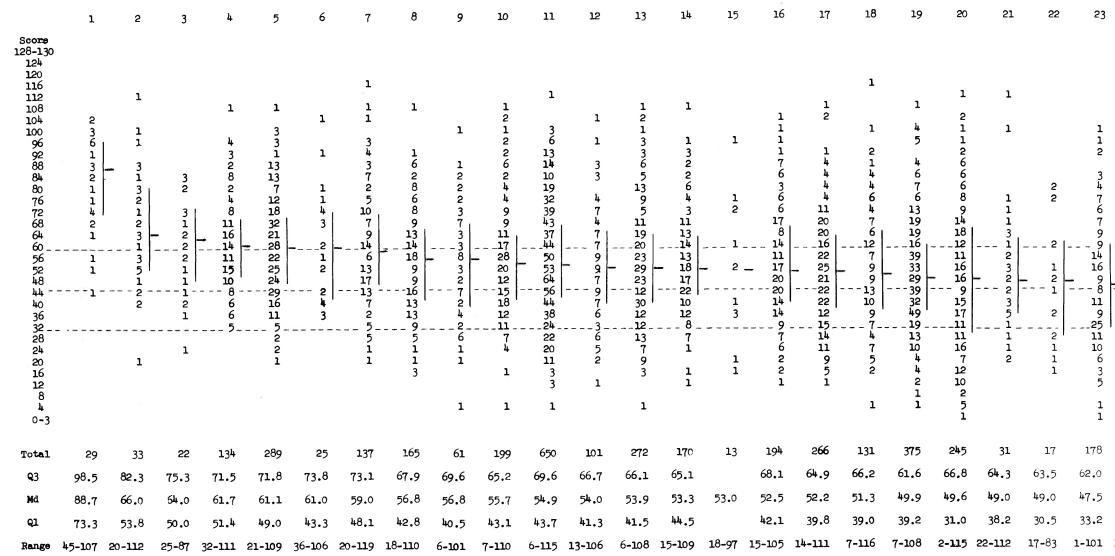
DISTRIBUTIONS OF TEST SCORES IN INDIVIDUAL COLLEGES

Distributions of total scores of first-year, second-year, third-year, and senior students of accounting on Form B of the Orientation Test, arranged according to colleges, are shown in Tables VI, VII, VIII, and IX. Distributions for the colleges using Form A of the Orientation Test with their first-year students are shown in Table X. Tables XI and XII give the distributions for colleges using the Achievement Test, Level I, Form A, and Table XIII shows the distributions for colleges giving the Achievement Test, Level II, Form D, to their graduating senior students. The numbers across the top of the charts are code numbers identifying the individual colleges. Each college has been informed of its own code number.

The medians and the first and third quartiles for the total distributions are indicated by the broken lines running horizontally across each chart. The median score for each college is shown by the short horizontal line to the right of the distribution, and the range of the middle 50 per cent of the scores is indicated by the vertical line parallel to the distribution.

Although the different colleges vary quite widely in the median scores attained by their classes, there is also a great deal of overlapping of the distributions. For example, in several of the colleges having median scores among the lowest in the group, there are some individual students who do practically as well as the best students in the colleges having the highest medians.

So far as the project office can determine, the distributions for the individual colleges represent complete or nearly complete class groups in almost all cases. All colleges were urged either to test all students at a given level or to advise the project office where selection took place so that unrepresentative groups could be excluded from the norms and the comparative charts. Of the fifty-five replies received (out of ninety-six requested), 68 per cent indicated that the tests were administered on a required basis; in 8 per cent of the cases, the testing was on a voluntary basis, but more than 90 per cent of the students in the class were tested; 23 per cent of the replies indicated that the testing was voluntary, with less than 90 per cent participating, but in most of these cases the participants were considered to be representative. In view of the extent of participation indicated, it is felt that a satisfactory sampling of the various groups has been made.



23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	հրդ	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	Score 128-130
112 34767994 69	1 1 3 2 1 1 2 	1 1 2 2 1	1 1	1 1 4 2 2	1 1 1 2- 3 4 3	1 5 4 56	2 1 1 2 3 4 3 1 3	1 3 6 1 5 10 8 17 14 23 27 36	3 1 2 4 1 1 8 7 8 14 10 - 14 10 - 14 10 10 10 10 10 	1 1 1 4 4 2 10 6 	1 2 35 5 4 5 5 4 5 7 4 5 7 1 1 7 16	1 1 1 6 3 2 - 3 8 2 - 3 8 2 - 3 8 2 - 3 8 2 - 3 8 2 - 3 2 - 3 	2 1 1 2 3 5 5 - 4 8 5	1 1 1 1 3 2	1 1 3 6 5 3 4 8	1 1 2 1 5 5 4 - 7 8	2 1 1 4 2 3 1 1 2- 7 5	2 1 3 1 2 4 4 2	1 1 1 6	1 1 3 7 5 4 6 12 12 12 14 23	1 3 1 1 1 	1 2 1 3 9 6 9 14 - 14 - 23 16 25	1 1 1 1 7 3 3 - 5 13 9	1 2 1 1 	1 3 5 5 5 - 9 6 12	1 1 3 4 3 	1 2 1 7- 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -	1 1 2 2 6	2 -	1 1 3 1 1 3 3 3 4 4	3 3 5 5 4 5 - 12 13 11	1 2 2 2 1 1 1 3 5 1	1 3 5 - 2 5 5	1 2 1 1 1 2 2 1 1 2 2 2	1 1 1 2- 1 1	1 1 1 1 - 3 2 4	1 1 3 3	2 _	1 1 1 1	1 1 3 6	2 1	1 1	Score 128-130 124 120 116 112 108 104 100 96 92 88 84 80 76 72 68 64 64 56 52 48
8	3 = 5 8 -2 1	2 1 2	2- 1 1-	1	2 3 1 5 1	4 5 4 2 4 2	2 5 7 2 1	40 33 42 48 40 12		24 23 10 23 19	20 23	7	5 6 11 12 5 8	4 - 3 4 3 3	10 -7 -7 -7 -7 -7 -7 -11 -6	13 - 7 10 11 9 10	15 11 15 8 8 8 8 0 5	1 4 4 3	2 4 - 4 - 1 7 4	18 	2 2 2 3 3	37 40 37 37 36 30	16 20 - 16 17 16 14	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1	14 6 8 8 14 16	12	4 9 10 10 8	5 4 4 5 		7 10 17 6 7	22 10 18 27 27 15	6 2 10 8 9 3		2 1 4 10 6	4 3 5 9 9 1	36	5 3 	4 3 1	3 8 4 - 13 7	8- 4 8 - 14		22	44 40 36 32 28 - 24
6 3 5 1	2 2 2	2	-	1 4 1 2	2 3	5 1 4 1	1 2 1	17 9 9 4	9 7 9 1 3	14 12 6 7 5	9	8 6 3 2	3422	32	9 6 3 2 1	5 4 2 1	7 9 2 1 1	4 2 1	3 1 1 1	14 14 4 8 1	3 1 2 2	35 21 13 8 3 2	8 10 4 2 5	5 3 4 1 1	16 14 10 9 5 5	11 13 3 6 2	10 13 4 2 1 1	5 2 4 1 3	1 1 1	7 4 5 3 1	17 17 8 5 2 1	8' 9 3 4 1	8 5 1 2 1	3 4 2 1 1	8' 5 1 1 4	7 5 1 3	4 5 3 1	4 1 1 3 2	7 7 5 1	13 ¹ 9 3 2 1	2 1 1 1 1	3 4 1 3 1	20 16 12 8 4 0-3
8	51	21	8	24	37	58	48	425	269	252	210	125	98	38	101	117	135	43	43	267	38	424	174	51	169	135	120	56	16	98	234	88	137	59	65	66	53	24	66	84	17	34	Total
0 5	59.4	77.5		56 . 0	57.0	57.0	63.0	56.3	57.6	54. 6	54.0	51.6	58.5	5 4. 0	53.8	53.6	50.6	58.3	50.8	51.9	58.0	51.0	49.1	51.3	51.9	50.6	51.6	48.0	46.0	47.7	50.4	50.4 25.5	46.6	53.8 ali 6	46.8	46.0	43.8	41.0	36.3 28.3	42.0	38.3 26.5	32.7	Q3
54 23	+7.3 37.4	47.0 30.5	46.0	45.3	45.0	45.0	44.0 36.0	43.8	43.7	43.0 29 3	41.4	41.4	41.3	41.3 30.0	40.9 26.8	40.9	39 . 9	39.5 27.8	39.5 28.4	39 . 1	39.0 26.0	38.9 27.2	38.8 28.1	38 . 2	37.0 23.8	30.7 27.5	23.6	23.2	28.0	26.6	26.3	22.5	25.9	26.5	22.6	24.3	24.1	16.0	19.1	21.8	20.5	17.5	Ql
	-118 1		26-85	6-94	11-109	8 - 97	13-90	9 -1 03	0-105	4-102	11-93	9-94	9-107	18-90	7-88	2-98	4-104	12-85	1-110	7-113	8-99	1-97	5-99	3-81	5-88	10-94	2-88	5-77	11-62	7 - 88	3-91	7-109	3-82	2-94	6-103	5-109	6-92	6-61	5-84	5 -1 03	6-60	3-60	Range

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DISTRIBUTIONS OF SCORES MADE ON ORIENTATION TEST, FORM B, BY FIRST-YEAR STUDENTS OF ACCOUNTING IN SIXTY-FIVE COLLEGES

TABLE VI

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$\begin{array}{c} \text{Score} \\ 128-130 \\ 124 \\ 120 \\ 116 \\ 112 \\ 108 \\ 104 \\ 100 \\ 96 \\ 92 \\ 88 \\ 84 \\ 80 \\ 76 \\ 72 \\ 68 \\ 64 \\ 60 \\ 56 \\ - \\ 52 \\ 88 \\ 84 \\ 80 \\ 76 \\ 72 \\ - \\ 68 \\ 54 \\ 80 \\ 76 \\ 72 \\ - \\ 54 \\ 80 \\ 80 \\ 80 \\ 80 \\ 80 \\ 80 \\ 80 \\ 8$	1 1 2 1	- 1 1 2 1 1 1	- 2 1 1	23 1 1 1	4 1 	19 1 3 4 6 7 5	7	36 1 1 1	հկ 2 1	46 4 4 4 3	35 1 1	55	57 1 1 3	1	$\begin{array}{c} \text{Score} \\ 128-130 \\ 124 \\ 120 \\ 116 \\ 112 \\ 108 \\ 104 \\ 100 \\ 96 \\ 92 \\ 88 \\ 84 \\ 80 \\ 76 \\ 92 \\ 88 \\ 84 \\ 80 \\ 76 \\ 52 \\ 64 \\ 60 \\ 56 \\ 52 \\ 48 \\ 44 \end{array}$
68 - 64 60 - 52 48 - 52 40 - 52 40 - 52 40 - 52 40 - 52 40 - 52 328 - 20 16 - 128 4 - 3 0 - 3		1	1	2- 1 1	2	$\frac{5}{12}$ 9 10 $\frac{5}{1}$ 1 1		1 2- 2 1 1 1		3 3 3 3 3 93 5 1 2 1		7 -7		1 1 1 3 1 2 1 1	$\begin{array}{c} 68 \\ 64 \\ 60 \\ 56 \\ 52 \\ 44 \\ 40 \\ 36 \\ 32 \\ 28 \\ 24 \\ 20 \\ 16 \\ 12 \\ 8 \\ 4 \\ 0 - 3 \end{array}$
Total	6	10	5	10	8	76	7	13	19	7 0	10	80	34	12	Total
୧3						78.9			66.5	69.5		56.6	62.0		Q 3
Mđ	106.0	92.0	78.0	70.0	70.0	66.7	58.0	57.0	55.3	52.0	52.0	47.0	46.7	41.3	Md
Ql						59.2			45.0	38.4		36.4	37.0		Ql
Range	69-116	55-107	34-89	39-101	53 - 97	24-101	43-93	22-100	25-99	13-87	28 - 78	10-83	23-91	11-98	Range

TABLE VII

DISTRIBUTIONS OF SCORES MADE ON ORIENTATION TEST, FORM B, BY SECOND-YEAR STUDENTS OF ACCOUNTING IN FOURTEEN COLLEGES

TABLE VIII

DISTRIBUTIONS OF SCORES MADE ON ORIENTATION TEST, FORM B, BY THIRD-YEAR STUDENTS OF ACCOUNTING IN FIVE COLLEGES

Score 128-130 124 120	19	59	46	կկ	55	Score 128-130 124 120
116 112	· 1					116 112
108 104	2 4		1			108 104
100			2			100
96 92 88	4 3	l	3			96 92 88
88 84	3		3 3 7	2	2	88 84
80 76	1 4 3 4 4 6	<u>i</u>	3			
72 68	7		8	•		72 68
64	7 -	32-=	6	2	1	64
60 56	9 ' 4	2	11 - 9	1 - 1	2	60 56
56 52 48	4 1		9 9 4	12	4	56 52 48
44	ī	1 2	6	-	5 4 2 4 3	<u>4</u> 4
40 36			6 4 1 2	2	4	40 36
36 32 28	1					36 32 28
24 20			1 3		1 1	2 4 20
16			1		_	16
12 8			T			12 8 4
4 0-3						4 0-3
Total	76 87.0	12	95 75.6	13	31 55 3	Total
Q3 Ma	74.9	66.0	62.7	62.0	55.3 48.4	Q3 Ma
Ql Range	63.6 35 - 118	44-94	52.8 14-108	39-87	38.8 21-87	Ql Range

Score	67 46 55 44 68	47 Score
128-130 124 120 116 112 108 104 100 96 92 88 84 80 76 72 68	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ 128-130 \\ 124 \\ 120 \\ 116 \\ 112 \\ 108 \\ 104 \\ 100 \\ 96 \\ 92 \\ 88 \\ 84 \\ 80 \\ 176 \\ 1 \\ 72 \\ 68 $
64 60		64 1 60
56 52 48	11 2 2 1	2- <u>-</u> 56
44	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2 48 հկ
40 36 32 28 24 20 16	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	40 1 36 1 32 28 24 20 16
12 8 4 0-3		12 8 4 0-3
Total Q3 Md Q1 Panga	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	9 Total Q3 53.0 Md Q1 34-77 Range
36 32 28 24 20 16 12 8 4 0-3 Total Q3 Md	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	9

DISTRIBUTIONS OF SCORES MADE ON ORIENTATION TEST, FORM B, BY SENIORS IN ACCOUNTING IN NINE COLLEGES

TABLE IX

	82	81	80	83	73	78	79	84	61	
Score 128-130 124 120 116 112 108 104 100 96 92 88 84 80 76 72 68 64 60 56 52 -1 28 -2 28 -2 28 -2 28 -2 28 -2 28 -2 28 -2 28 -2 28 -2 -24 20 16 12 -22 -24 20 16 12 -22 -24 20 -22 -24 20 -22 -24 -22 -24 -22 -24 -22 -24 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233	$ \begin{array}{c} 1\\ 1\\ 1\\ 1\\ 1\\ 4\\ 3\\ 5\\ 1\\ 7\\ 6\\ 8\\ 9\\ -\\ -\\ 6\\ 2\\ 1\\ \end{array} $	$ \begin{array}{c} 1 \\ 3 \\ 2 \\ 3 \\ 7 \\ 3 \\ 4 \\ 3 \\ 4 \\ 3 \\ 4 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	$ \begin{array}{c} 2 \\ 3 \\ 2 \\ 2 \\ 3 \\ 6 \\ 7 \\ 4 \\ 7 \\ 4 \\ 7 \\ 4 \\ 7 \\ 4 \\ - 3 \\ 1 \\ 1 \\ 3 \\ - 3 \\ - 4 \\ - 4 \\ - 7 \\ - 7 \\ - 4 \\ - 7 \\ - 4 \\ - 7 \\ - 7 \\ - 4 \\ - 7 \\ - 7 \\ - 4 \\ - 7 \\ - 7 \\ - 4 \\ - 7 \\ - 7 \\ - 4 \\ - 7 \\ - $	$ \begin{array}{c} 1\\ 1\\ 1\\ 1\\ 5\\ 1\\ 4\\ 6\\ 10\\ 18\\12\\ 13\\ -20\\ 10\\ 14\\ 17\\ 9\\ 3\\ 2\\ 1\\ 17\\ 9\\ 3\\ 2\\ 1\\ 176\\ 176\\ 176\\ 176\\ 176\\ 176\\ 176\\ $			1 1 2 2 2 2 2 8 8 7 	$ \begin{array}{c} 1\\ 1\\ 5\\ 1\\ 4\\ 5\\ 3\\ 10\\ 8\\ 15\\ 29\\ 24\\ -36\\ 30\\ 28\\ 22\\ 13\\ 3\\ 1\\ 275\\ \end{array} $		$ \begin{array}{c} \text{Score} \\ 128-130 \\ 124 \\ 120 \\ 116 \\ 112 \\ 108 \\ 104 \\ 100 \\ 96 \\ 92 \\ 88 \\ 84 \\ 80 \\ 76 \\ 72 \\ 68 \\ 64 \\ 60 \\ 56 \\ 52 \\ 68 \\ 64 \\ 60 \\ 56 \\ 52 \\ 68 \\ 64 \\ 60 \\ 56 \\ 52 \\ 88 \\ 64 \\ 60 \\ 56 \\ 52 \\ 88 \\ 64 \\ 60 \\ 56 \\ 52 \\ 68 \\ 64 \\ 60 \\ 56 \\ 52 \\ 88 \\ 64 \\ 60 \\ 56 \\ 52 \\ 68 \\ 64 \\ 60 \\ 56 \\ 68 \\ 64 \\ 60 \\ 56 \\ 56 \\ 68 \\ 64 \\ 60 \\ 56 \\ 56 \\ 68 \\ 64 \\ 60 \\ 56 \\ 56 \\ 68 \\ 64 \\ 60 \\ 56 \\ 68 \\ 64 \\ 60 \\ 56 \\ 60 \\ 56 \\ 60 \\ 60 \\ 60 \\ 60 \\ 56 \\ 60 \\ 60 \\ 60 \\ 60 \\ 60 \\ 60 \\ 60 \\ 6$
Total Q3 Md. Q1	90 63.1 51.5 40.7	42 59.1 50.0 38.8	68 54.0 42.7 31.2	176 54.4 42.4 31.4	18 47.0 41.0 26.5	38 46.0 34.9 27.0	69 43.9 34.5 29.0	375 46.5 34.3 23.6	27 35.0 28.4 17.8	Total Q3 Md Q1
Range	18 - 99	14-85	8-91	10-100	15-68	11-85	8-80	0 -9 6	5-59	Range

DISTRIBUTIONS OF SCORES MADE ON ORIENTATION TEST, FORM A, BY FIRST-YEAR STUDENTS OF ACCOUNTING IN NINE COLLEGES

TABLE X

Score 120 117 114	15	69	25	70	71	72	73	28	22	74	31	57	75	76	16	77	Score 120 117 114
111 108 105 99 96 93 90 87 84 81 75 72 69 63 64 63	2 1 1 2	1	1 1 2 1	2 2 1 1 1 2 3 1	2 3 1	2 1 1 2 1 1 1 4 38	1	1 1 2 3 1	1	1	123146458		1	1 1 2 4 5 4			$ \begin{array}{c} 111\\ 108\\ 105\\ 102\\ 99\\ 96\\ 93\\ 90\\ 87\\ 81\\ 78\\ 76\\ 66\\ 63\\ 57\\ 485\\ 42\\ 39\\ 33\\ 30\\ 24\\ \end{array} $
72 69 66	2 2	- 3 5 4	- 1	2 1 2		8 3 1		2 1	1	1	7 9	1 1	1 1 2	1	1		69 66
63 - 60 57 54 51 -	3	5 1 1 3	1-	6 2 1 2	1	4 7 3 7 3	3	1 3 1 5 3	1- 1 1	1- 1 1	13 - 12 17 13 28	2- 1 1	1	6 - 10 7 6 16	2 4 3 4	1	63 60 57 54 51
48 45 42 39		1	1	2 1 1	2	3 1 1 1-	1	2 1 2	1 1	1	12 18 23 30 18	- 4 1 1	3 - 1 3 3	$ \begin{array}{r} 4 \\ 12 \\ 17 \\ 10 \\ 7 \\ \end{array} $	2 2 4 4 6	2	48 45 42 =
30 37 24	1	1	2	2	1 1	3 1 2	1	2 2 2 2 1	1	2	21 12 9 12	3 2 1 2	1 1 2 1 1 1 1	7 13 10 4 8	4 2 5 1 2	1	33 30 27 24 21
57 54 - 45 42 336 - 333 307 24 115 12 96 3 0-2		1	ı			1		1		1	5 1 1	1	1	1 3 1 2 2	2 1 1	1	21 18 15 12 9 6 3 0-2
Total	16	42	12	36	16	68	15	39	12	14	296	23	32	166	53	8	Total
୧3	82.5	77.6		82.5	79.0	74.6	59.3	72.4			60.3	57.8	62.3	57.2	54.6		Q 3
Mđ	73.5	69.6	66.0	64.5	64.0	62.1	55.9	54.9	54.0	51.0	47.5	45.4	45.0	44.5	40.1	37.5	Mđ
Q1	62.0	61.5		54.0	49.5	52.0	52.1	38.6			38.0	35.6	37.0	32.2	30.4		Ql
Range	33-101	16-105	9-101	30-104	29-86	18-104	32-81	17-92	26-77	19 - 77	12 - 96	13-71	4-81	0-91	3-69	17-53	Range

TABLE XI DISTRIBUTIONS OF SCORES MADE ON ACHIEVEMENT TEST, LEVEL I, FORM A, BY FIRST-YEAR STUDENTS OF ACCOUNTING IN SIXTEEN COLLEGES TABLE XII

DISTRIBUTIONS OF SCORES MADE ON ACHIEVEMENT TEST, LEVEL I, FORM A, BY SECOND-YEAR STUDENTS OF ACCOUNTING IN SEVEN COLLEGES

Score 120 117	1	22	25	7	19	17	6	Score 120 117
$ \begin{array}{r} 114 \\ 111 \\ 108 \\ 105 \\ 102 \\ 99 \\ 96 \\ 93 \\ 90 \\ 87 \\ 84 \\ 81 \\ 78 - \\ 75 \\ 72 \\ 69 \\ 66 \\ 63 \\ 60 \\ \end{array} $	1 2 1 1	1 - 2 	1 1- 1 -	2 1 1 1 1 1 1 1 1	3 3 6 4 7 6 1 8 6	1 1 1 2- 9 2 2 6 4	1 2- 1 4 	$ \begin{array}{c} 114\\ 111\\ 108\\ 105\\ 102\\ 99\\ 96\\ 93\\ 90\\ 87\\ 84\\ 81\\78\\ 75\\ 72\\ 69\\66\\ 63\\ 60\\ \end{array} $
		1	1 1	1	4 3 5 4-	4	1 2 2 1	63 60 57
57 54 - 51 48 45 42 39 36 33 27 24 21 18 15 12 9 6 3 0-2		1		1	4 1 1	7 6 4 1 4 2 1 1	3 1 3 1	$ \begin{array}{c} 57\\ 51\\ 48\\ 45\\ 42\\ 39\\ 36\\ 33\\ 30\\ 27\\ 24\\ 21\\ 18\\ 15\\ 12\\ 9\\ 6\\ 3\\ 0-2 \end{array} $
Total Q3 Md	5 84.8	6 82.5	5 76 . 5	16 90.0 73.0 60.0	70 82.1 71.3 61.5	62 74.3 60.8	23 70.7 59.3 44.3	Total Q3 Md
Ql Range	76 - 92	48-92	57-94	38-104	38-98	52.3 35 - 93	31 - 90	Ql Range

TABLE XIII

DISTRIBUTIONS OF SCORES MADE ON ACHIEVEMENT TEST, LEVEL II, FORM D, BY SENIORS IN ACCCUNTING IN FIVE COLLEGES

Score 100	23	58	85	22	25	Score 100 98
98 96 94 92		1 1 2				96 94
96 94 92 90 88 86 84	. 1	2 1 3	1 1			92 90 88 86
84 82 80	1 2 1	3 1 1	1 1			84 82
78 76 74 72	3	3	1 ²		1	80 78 76 74 72
72 70 68	1	3 2 4 1 2	1 3 2	1 1 1		72 70 68 66
66 64 62	1		¥	1	2 2	64 62
60 58 56	l	1	1 -	• 1	1	60 58 56
70 66 64 62 55 55 50 50 50 50 50 50 50 50 50 50 50	2	3	3 2 3 1	_	2	60 58 56 54 52 50 48
48 46 44	1	2 1 2	1 1 2- 2	1	1	46 44
42 40		1	2	l	1 -	42 40 38
38 36 34 32	,	5	٦	l		36 34 32
30 28 26	1 1	1	1 1		1	36 34 32 30 28 26
24 22 20		1	1		1 2 1	24 22 20
18 16 14 12 10					1 1	18 16 14 12 10
8 6 4 2 0 -1						8 6 4 2 0-1
Total Q3 Md Q1 Range	17 83.5 75.0 55.3 30-90	47 78.8 69.5 48.8 24-99	35 73.5 61.0 49.5 22-90	8 54.0 36 - 73	23 60.5 43.0 27.5 12-79	Total Q3 Md Q1 Range
			10			

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THE RELATIONSHIP OF ACCOUNTING TEST SCORES TO JOB PERFORMANCE IN THE FIELD OF PUBLIC ACCOUNTING

by Robert Jacobs

The College Accounting Testing Program has been in operation for some four and a half years. During this period many schools have undertaken local studies to determine the usefulness of the instruments employed in the plan of testing. For the benefit of those readers who are not familiar with the project, these instruments include the Orientation Test (a general aptitude test with items slanted toward the field of business), two levels of Achievement Tests in accounting, and a vocational interest questionnaire. The Orientation and Achievement Tests have been developed by the Committee on Selection of Personnel of the American Institute of Accountants. The interest questionnaire is the Strong Vocational Interest Blank, with norms adapted for use in this project.

The studies carried out locally by various schools and colleges have aimed principally at determining the relationship between scores on tests and grades received in accounting courses. Some of these studies have been carried on under the direction of the project office staff, while others, carried out independently, have been reported by the project office and in various publications. The most extensive summary of these data measuring the relationship between scores and grades was reported this fall to the 1950 Invitational Conference on Testing Problems sponsored by the Educational Testing Service. This report will be published in the proceedings of this conference, and reprints of the article will be available at the project office.

The need for studies which would go beyond the school situation and which might deal with actual success in accounting work rather than success in accounting study has been recognized by all persons and organizations connected with the project. In order to provide effective evaluation of the techniques, long-term studies are needed which will follow through the processes of initial screening of students, academic study, occupational placement, and progress through several years of employment. At least one such study is now being planned. However, it is expedient to get at the ultimate effectiveness of the tests in some manner without waiting for results which can be compiled only after several years of effort. This may be determined partly by studying the relationship of employed accountants' test scores to the ratings given such employees by their supervisors. It should be expected that, insofar as the tests measure qualities that condition success in accounting work, there should be some relationship between performance on the tests and performance on the job.

This article attempts to summarize the data of this type now in the research files of the project office.

One of the first of such studies was carried out in the early stages of the accounting personnel selection project. The experimental edition of Achievement Test, Level II, was administered to some 220 employees of a large New York public accounting firm. Before they took the tests these men were rated by their supervisors as being either technically qualified with good promise, technically qualified with some promise, or technically qualified with little or no promise. When the mean percentile ratings of the men falling into each of these categories were compared at each level of work, a definite progression from lower to higher percentile rating was observed with increase in goodness of rating. The results of this study are shown in Table XIV.

It will be observed that the range of percentile marks indicates considerable overlap among the rated characterizations, indicating that there were a number of individual discrepancies between the two sets of data. When these discrepancies were studied it was found that many of them were due to the influence of personality factors in performing the ratings. It was found, for example, that there were several individuals in various categories whose technical knowledge was known to be high even before they obtained high scores on the Level II Achievement Test. Nonetheless, their ratings by supervisors were low because of personality weaknesses, such as inability to cooperate with fellow workers or inability to deal tactfully with clients. On the other hand, several of the individuals who secured mediocre ratings on the tests were known to have only a fair degree of technical competence, but had proved so valuable in creating client good will that they had received high ratings on the basis of a pleasing personality.

The results of such inquiry into the data serve to emphasize a very important point in studying the effectiveness of tests. A test which is designed to measure accounting achievement or technical knowledge will relate to success on the job to the extent that knowledge of accounting itself is a determinant of success. If other factors, such as good judgment, auditing sense, client appeal, ability to work with others, and so forth, are equally important factors, and if ratings of performance on the job are weighted with these other factors, it cannot be expected that near perfect correlations between scores on the test and ratings are to be found. A positive correlation of statistical significance will indicate that the factor measured by the test is operating to condition success to some extent. Discrepancies in either direction, however, may indicate that other factors of equal importance are operating rather than indicating that the test lacks validity. It is quite important that this point be kept in mind in interpreting all the data relating to test scores and performance on the job.

In 1949, a second firm reported to the project office the results of a study involving two separate groups of employees. One of these groups included ninetytwo staff members tested with the Level II, Form A, Achievement Test in 1949. Test scores were compared with performance records as determined by the staff classification committee's ratings in the preceding April and subsequent personnel reports. The results of this appraisal were reported as follows:

Number of Scores	
6	Substantially higher than expected
5	Somewhat higher than expected
55	Approximately as expected
16	Somewhat lower than expected
10	Substantially lower than expected

In making this review, it was recognized that the Achievement Test is designed to measure technical knowledge and skill only and does not presume to measure personality, organizational ability, or such factors as tact, drive, and related personal qualities. These results were considered as generally favorable since only sixteen of the ninety-two scores varied substantially from the ratings.

The second group involved in the study reported by this firm included

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TABLE XIV

MEANS AND RANGES OF PERCENTILE RATINGS MADE ON EXPERIMENTAL EDITION OF ACHIEVEMENT TEST, LEVEL II, BY VARIOUS GROUPS OF EMPLOYEES IN A LARGE PUBLIC ACCOUNTING FIRM

		rercentile	e Ratings
Characterization	N	Range	Mean
Technically qualified and good promise	3	84-100	91
Technically qualified	7	52-100	86
Technically qualified	16	12-96	59
Technically qualified	11	46-99	79
Technically qualified	41	18-99	66
Technically qualified	40	2-97	49
Technically qualified	2 3	4-95	49
Technically qualified	53	1-94	37
Technically qualified little or no promise	26 220	1-49	15
	and good promise Technically qualified and some promise Technically qualified little or no promise Technically qualified and good promise Technically qualified little or no promise Technically qualified and good promise Technically qualified and some promise Technically qualified and some promise	and good promiseTechnically qualified7and some promise7Technically qualified16little or no promise11and good promise11Technically qualified41and some promise40little or no promise23Technically qualified23and good promise53Technically qualified53and some promise53Technically qualified26	Technically qualified384-100and good promise752-100and some promise752-100and some promise1612-96little or no promise1146-99and good promise1146-99and good promise4118-99and some promise2-97little or no promise40Technically qualified40and some promise23Technically qualified40Ittle or no promise4-95and good promise1-94and some promise53Technically qualified53Ittle or no promise1-94and some promise1-49

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forty-two staff members who had taken the Level II Achievement Test in the spring of 1947. The test performances of individuals in this group ranged as follows:

Percentile Range		Number
86-100		9
66 -85		13
46-65		8
45-below		12
	Total	42

Of the twenty-two men who received percentile ranks above 65 in 1947, seven had resigned or had been released by the time of the study late in 1949. Of the remaining fifteen still on the staff, eight had very good performance records while seven did not seem to measure up to their test scores. Of the twenty who received scores of 65 or below in 1947, twelve had resigned or had been released, and although the remaining eight were considered useful. none had an outstanding performance record.

On the basis of this study, this firm concluded that a high score in itself provides no assurance of success in public accounting but that a low score, in the absence of extenuating circumstances, raises a serious doubt as to the individual's future potentialities.

In the spring of 1950, an extensive staff testing program was sponsored by the Committee on Selection of Personnel. A total of 971 employed accountants and 175 firms participated in this program using Orientation Test, Form A, Achievement Test, Level II, Form C (Short), and the Strong Vocational Interest Blank. In connection with this testing, several firms were invited to participate in a validity study involving the relationship of the test scores to ratings of job performance. A rating scale was prepared consisting of eight job performance factors. Five rating categories were provided for each factor. Each of these categories was identified by descriptive phrases ranging from unsatisfactory to satisfactory qualities. The rating scale is shown in Figure 1.

The rating scale was scored quantitatively by means of a key or stencil on which numerical values were assigned to various positions along the scale. The midpoints of these values were arranged so that each of the five categories from lowest to highest was assigned a value of 1, 2, 3, 4, or 5.

A comprehensive study of the relationship of test scores to the various items and groups of items on this scale was carried out by the project office staff. The entire body of data is too extensive for reporting in this article. A summary of the median correlations obtained between scores on the Orientation and Achievement Tests and various items on the rating scale is shown in Table XV. This table shows also the median correlations and ranges of correlations by firms.

It will be seen that all the medians of the correlations for the various items are positive. They vary from rather low values to r's that are fairly substantial. Correlations between the Achievement Test results and ratings are higher than those for the Orientation Test scores and ratings. When one considers the range of correlations it is observed that in many instances they extend from insignificantly negative correlations up to values that are quite high.

The figures near the bottom of the table showing the median correlations for the thirteen participating firms indicate that there are very wide differences among the firms. Apparently the results of the tests do not line up well at all

			RATING SCALE FOR EM	EMPLOYED ACCOUNTANTS		
This abili depen guali jud§m <i>Pleas</i>	This rating form shows eight qualities on which to rate ability; items 5-8 concern personality; the last item is dependently as possil \cdot . It is suggested that each one quality #2, and so ft \cdot h. Rate each individual by makin judgment he stands. The average or typical employee should blease do not attempt to rate a staff member unless you blease do not attempt to rate a staff member unless you blease do not attempt to rate a staff member unless you blease do not attempt to rate a staff member unless you blease do not attempt to rate a staff member unless you blease do not attempt to rate a staff member unless you where a staff member unless you where a staff member and so the stands where a staff member unless you where a staff member and so the stands where a staff member unless you where a staff member and so the stands of the stands attack a staff member and so the stands where a staff member and so the stands of the stands attack att	qualities on which to ra resonality; the last item is suggested that each o te each individual by ma age or typical employee a staff member unless y	te each employee. The fi is an overall rating. F ne in the group be rated king a check (1 at that should be rated at or nea on have adequate knowledg	This rating form shows eight qualities on which to rate each employee. The first four relate to knowledge and ability; items 5-8 concern personality; the last item is an overall rating. Please rate each quality as in- dependently as possil . It is suggested that each one in the group be rated on Item #1, then each rated on quality #2, and so ft oh. Rate each individual by making a check ($$ at that point on each scale where in your DATE OF RATING judgment he stands. The average or typical employee should be rated at or near the center of the scale.	e and CLASSIFICATION in- CLASSIFICATION on DATE OF RATING.	
- -	Cushtitu of ucul		_		_	
		Unsatisfactory amount	Rather slow	Completes regular work in reasonable time	More than average amount of work	Completes a very large amount of work
් ද	Quality of work	_				ľ
		Unsatisfacto <i>ry</i> performance	Sometimes inaccurate	Average level of accuracy	Above averaģe accuracy	Work is of exception- al quality
э. К	Knowledge of accounting	1				_
		Does not understand his work	Fair understand- ing only	Displays satisfactory knowledge of field	Above average knowl- edge of accounting	Displays expert knowledge I
4. A	Ability to learn					
		Unable to learn	Learns slowly	Shows average ability in learning new jobs	Above average ability in learning new jobs	Learns at exception- ally fast rate
5. D	Dependability and	-	_			
.н	integrity	Needs watching	Sometimes unreliable if he thinks he can "get by"	Honest and dependable. Works with supervision	Very dependable - works with only occasional supervision	Highly dependable. No supervision required.
9.	Initiative and					
н	responsibility	Lazy, needs prodding	Indi fferen t	Does ordinary assign- ments of own accord	Industrious and energetic	Does more than is expected
7. O	Cooperation - ability					_
÷	to get along with others	Inclined to make trouble	Gives limited cooperation	Usually cooperates willingly	Above average coopera- tion - well liked	Cooperstes cheerfully- inspires others
. 9.	Overall value to the	-				
σ	organization	Low	Below average	Will be an average employee	Above average – may be promotional material	Superior - definite promotional material
COMMENTS:	NTS:			SIGNATURE OF	RATER	

Figure 1

TABLE XV

MEDIANS AND RANGES OF CORRELATIONS OBTAINED BETWEEN ACCOUNTING TESTS AND RATINGS IN THIRTEEN PUBLIC ACCOUNTING FIRMS PARTICIPATING IN COUNTRY-WIDE STAFF TESTING PROGRAM, APRIL, 1950

Median Correlatio	ons and Ran	ges of Correlati	ons by Items
Item		Median	Range
± • • • •		r	of <u>r</u> 's
Orientation Test Verbal	vs.		
Rating Item No. 3		.403	045642
Rating Item No. 4		.385	021729
Rating Item Nos. 1-4		.282	.084700
Rating Item No. 8		.217	217727
Rating Item Nos. 1-7		.289	031690
Orientation Test Quantit	ative vs.		
Rating Item No. 3		.408	065709
Rating Item No. 4		•353	.115851
Rating Item Nos. 1-4		.381	0791
Rating Item No. 8		.366	014805
Rating Items Nos. 1-	7	.340	.014781
Drientation Test Total vs.	•	Ŭ	.01+101
Rating Item No. 3		.453	0679
Rating Item No. 4		.361	058791
Rating Item Nos. 1-4		.403	.091749
Rating Item No. 8		•333	118791
Rating Item Nos. 1-7		.295	003739
Achievement Test vs.			
Rating Item No. 3		.578	.164751
Rating Item No. 4		.504	.052799
Rating Item Nos. 1-4		•559	.123758
Rating Item No. 8		.482	111828
Rating Items Nos. 1-	7	•546	036763
Median Correlatio	ns and Ran	ges of Correlatio	ons by Firms
Firm	N	Median	Range
		r	of r's
1	12	.501	065658
2	13 18	•736	.591851
3 *4		.437	.069647
	21 28	.517	.278635
5 *6		.185	045472
	18	.226	043641
*7 *8	9	• 365	.110658
	33	.262	.132372
9	15	•547	111696
10	17	•347	.133649
11	20	.229	015653
*12	19 16	.603	.476791
13	16	.280	217751

*Firms having report of results before submitting ratings.

with ratings in firms 5, 6, and 11, whereas in the case of firms 2, 9, and 12 there is good agreement. In fact, in the case of firm 2 the correlation between the test scores and ratings is higher than the correlations between two separate ratings would be expected to be. It will be noted that some firms received a report of test results before ratings were submitted. Although all participants were requested to make the ratings independently of test scores, contamination of the criterion was possible in the five starred firms.

The significance of these data is limited by two factors. These are (1) small size of the groups studied and (2) variation in interpretation of rating scale items and descriptions among raters. With regard to the first item, the size of the employed groups in the participating firms ranged from 9 to 33, with a median N of 18. It is difficult to assume representativeness of sampling with groups of such size. Concerning the second item, it was not possible to provide over-all guidance in performing the ratings so that similar emphases and similar interpretations were employed in applying the scale. Hence, one is limited in making comparisons of correlations from firm to firm.

A study just completed at the project office avoids these two limitations. This study is based on more than 200 employees in a single firm, the men taking the tests having been drawn from branch offices of the firm scattered throughout the country. The rating scale employed was one developed by the firm for its own use. Instruction and training in the use of the scale is provided by the central office of the firm. This rating scale, called the "Employee Progress Report," is shown in Figure 2.

It will be seen that four descriptive categories are provided for each of five factors relating to the accountant's work. Numerical values are indicated along the scale so that a quantitative score can be assigned to the rating. In this firm the ratings are performed by a procedure of consensus judgment; that is, in rating a man supervisors and managers who are acquainted with the work of a particular staff group meet as a committee to discuss each employee's characteristic work habits and to assign a rating on the basis of a group decision.

Each of the employees in this firm took the entire battery of tests. The short form of the Level II Achievement Test was employed in most instances, although the four-hour test was administered to employees in two or three offices. Test scores and ratings were supplied the project office for the purpose of research. All aspects of this study are not completed, but the following data can be reported.

Correlations obtained between scores on the Orientation Test and the Level II Achievement Test, Short Form C, and ratings of "On the Job Performance" and "Capacity for Future Growth" are shown in Table XVI.

TABLE XVI

CORRELATIONS BETWEEN ACCOUNTING TEST SCORES AND RATINGS OF ON THE JOB PERFORMANCE AND CAPACITY FOR FUTURE GROWTH IN A PUBLIC ACCOUNTING FIRM

Test	On the Job Performance $(N = 228)$	Future Growth (N = 227)
Orientation Verbal Orientation Quantitative Orientation Total Achievement II-C		

To	be	ker	pt
STI	RIC	CLY	CONFIDENTIAL

a	ne		Date	of Service		
		Assistant Junior Semi-Senior		lium Heavy	Other Designate	
	What level of work did this employee perform as the basis for your rating?					
•	Technical Knowledge. (Its adequacy for level of work in- dicated above.)	60	Needs more basic information to become productive.	Has sufficient knowledge to do	Excellently pre- pared for duties.	1.00
•	On-the-Job Performance	60	Occasionally sat- isfactory.	Quite consistent- ly satisfactory.	High grade per-	100
	Capacity for Future Growth (Leadership)	60	Ability limited to intermediate assignments.		Should progress to high level of re-	
	Ability to Write Reports, Notes to Financial State- ments, etc. (If Applicable)	607 Incapable of orig- inal reporting. careless with facts.		Fair, but re- quires editing.	DO English and pres- entation good; facts carefully stated.	100
	Development of Assistants. (If Applicable)	60	Sometimes does		Does excellent job of training assist ants.	

him with respect to his performance and preparation for future responsibility? (BE SURE TO ANSWER THIS QUESTION)

Date _____

Signed _____

Figure 2

It will be observed that there is successive increase in percentile rank of the median test performance of low, middle, and high groups respectively. It is interesting to see that the percentile rank assigned to the median scores of the middle group are quite close to the fiftieth percentile or the norm median.

Actually, the discrimination between the sub-groupings provided by the test scores is not as good as one might suppose on the basis of these data. Scores range rather widely on either side of the median so that there is considerable overlap among the three groups. For example, the distribution of Achievement Test, Level II-C scores for the three sub-groups described in the preceding table are as follows:

Score	Low	Middle	Top
52 48		T	3
44		6	4
40 36 32 28 24 20 16	7 6	5	14
36		17	13
32	7 6 6	17 17 18	9 5
20 04	6	10 20	7 7
24	12	20 17	
16	4	3	3 5
12		2	
8	6 2 2		
4			
0	1		
	59	106	<u>63</u>

The distributions reveal that the highest test score was obtained by a man whose rating placed him in the intermediate category with respect to capacity for future growth. In the low rated groups some men are found with scores higher than the median or average for the top rated group, while some of the men in the top rating group have test scores which are notably below the median or average for the low group. The overlapping of the distributions prevents application of any critical score which would eliminate a majority of the low group without eliminating at the same time a substantial portion of the men rated high with regard to capacity for future growth. Nonetheless, it is apparent that the test is measuring a factor which tends to differentiate the high and the low rated men, and there is sufficient evidence to warrant attention to test results among other data in considering capacity for future growth in this particular firm.

The item "Ability to Write Reports," shown in the progress report illustrated in Figure 2, applies to some 11^4 employees taking the battery of accounting tests. One correlation with this rating factor which may be of interest can be reported at this time. This is the <u>r</u> obtained in studying the relationship of the Orientation Test verbal score to this particular rating item:

> Variables N r P.E. Orientation Verbal vs. Ability to Write Reports 114 .550 .044

The relationship between the verbal score on the Orientation Test and ratings for the report writing item in the progress report is more substantial than any of the other correlations reported from this study. This relationship will bear further investigation. If it is borne out in supplementary studies, an additional use of Orientation Test results is suggested in counseling students regarding the possibilities of success in the field of accounting. It will be observed that all of these correlations are positive and that all are more than four times the probable error, the usual criterion of statistical significance. As with the data reported in Table XV, correlations for the Achievement Test are higher than the Orientation Test relationships with ratings. It is apparent, also, that the test results agree somewhat better with ratings for the factor, capacity for future growth, than with ratings of on the job performance.

In order to illustrate these relationships in somewhat more meaningful terms, the total group was divided into a high, a middle, and a low sub-grouping on the basis of the ratings for "on the job performance." The median test scores were computed for each group. Table XVII shows the percentile ratings corresponding to the median scores for Achievement Test, Level II-C and total Orientation Test score. Percentiles are taken from employed accountant norms. The ratings for "capacity for future growth" are illustrated in similar fashion in Table XVIII.

TABLE XVII

PERCENTILE MARKS CORRESPONDING TO MEDIAN SCORES ON ACCOUNTING TESTS OBTAINED BY HIGH, LOW, AND MIDDLE GROUPINGS OF 228 ACCOUNTANTS RATED WITH RESPECT TO ON THE JOB PERFORMANCE

Division of Rated Group	Percentile Corresponding to Median Score Level II-C Orientation Total	
Tti _l		
High N = 63	76	64
Middle N = 92	49	53
Low N = 70	43	37

TABLE XVIII

PERCENTILE MARKS CORRESPONDING TO MEDIAN SCORES ON ACCOUNTING TESTS OBTAINED BY HIGH, LOW, AND MIDDLE GROUPINGS ON 227 ACCOUNTANTS RATED WITH RESPECT TO CAPACITY FOR FUTURE GROWTH

Division of Rated Group	Percentile Corresponding to Median Score Level II-C Orientation Total	
High N I 63	76	64
Middle N = 106	55	49
Low N = 59	34	31

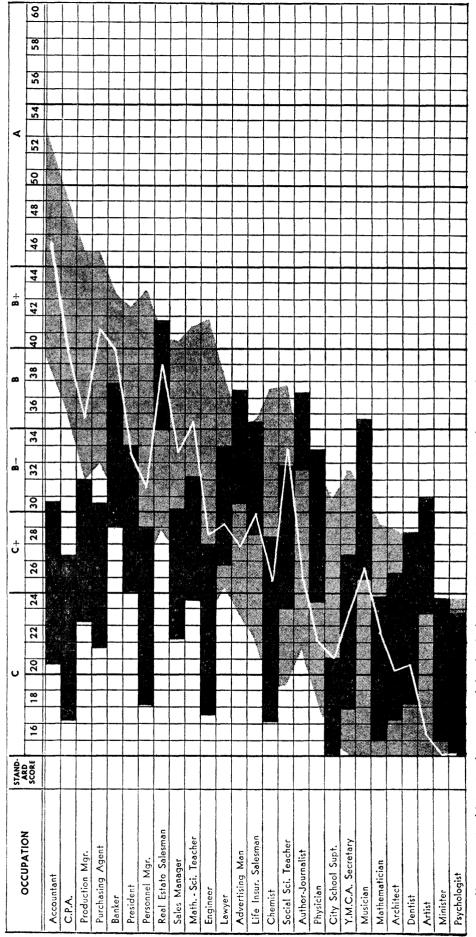
No data have been reported in this article with regard to the Strong Vocational Interest Blank in the employment situation. Studies of the relationship between scores on the interest test and ratings on the scale shown in Figure 2 are now in progress and will be reported at a later time. One aspect of the validity study carried out in connection with the April staff testing program was aimed toward checking stability of the "norm" pattern of interests established for employed public accountants in the early part of the project. A sampling of the interest test papers submittee by employed accountants during this testing period was used as a basis of computing median scores for each of the twenty-seven scales now reported by the project office. The sampling of papers used included 218 of 717 Strong blanks submitted during the staff testing period. This number amounted to 30.4 per cent of the total. The resulting profile is shown in Figure 3, superimposed upon the norm pathway appearing on the project office Strong report It will be recalled that the boundaries of this "pathway" mark the range form. of the middle 50 per cent of the scores obtained by 1,000 employed accountants on each of the twenty-seven scales.

General agreement with the original norms is quite evident. The median scores for the scales of production manager, personnel manager, and engineer appear to be somewhat lower than those obtained from the initial norm group, while the median profile points at the scales of musician, social science teacher, and real estate salesman are somewhat higher. However, the highest scores and the lowest scores occur in the same occupations as those established in these respective positions in the original research, and the results tend to confirm the stability of the general pattern of interests established several years ago for the accounting profession.

The data reported in this article are by no means conclusive. Actually, not much could be generalized beyond the local situations in which the scores and ratings were analyzed. Perhaps two conclusions can be drawn:

- 1. Correlations between scores on the accounting tests and ratings of job performance are generally positive, and, although not high, are usually of statistical significance. This indicates definitely that some of the factors conditioning success in accounting work are identified by the results of the tests.
- 2. Discrepancies between test scores and job ratings are frequent enough to indicate that employment or promotion decisions cannot be made accurately entirely on the basis of test results.

These two conclusions tend to support the testing program as a valuable aid in evaluating prospective or present employees. Other types of data are required to evaluate factors not measured by the accounting tests, but when these are combined with test scores and are balanced against each other areas of potential strength and weakness become evident and the possibilities of growth and development in the accounting field are assessed with considerable improvement over change guess.



Your occupational interest ratings are recorded under the heading "Standard Score" and opposite the appropriate occupations.

Standard scores of 45 and above are rated A, meaning that one has interests characteristic of men successfully engaged in the occupation. Ratings of B+, B, and B-- also indicate possession of the interests characterizing men in those occupations, but, at the same time, they represent less and less assurance that the classification is correct.

About 15 per cent of men known to be successful in a given occupation rate 8+; about 9 per cent rate 8; about 4 per cent 8--: and about 2 per cent C+ and C. Occasionally, a successful man rate selection of the other hand, many successful men rate 8--. 8, and 8+ and a few rate A in occupations other than the one in which they are engaged. The farther the "X" falls to the right of the heavy shaded area for a particular occupation, the greater the certainty that one has the interests characteristic of that occupation. The farther the "X" falls to the right of the certainty that one does not have the interests of the occupation. The scores falling within the heavy shaded area are indeterminate; they help have the interests of the certainty they are are indeterminate; they help the vector of the sector and the occupation. The scores falling within the heavy shaded area are indeterminate; they help help within the heavy shaded area indeterminate.

sometimes to show, along with other scores, the general trend of one's interests in an occupational group, but generally they can be ignored.

200 semi-senfors, 200 juniors). This area shows the range of the middle 50 per cent of the scores on each scale for this group. Thus, for the scale of accountant the ratings of 50 per cent of the one thousand public accountants fall between the scores of 39.8 and 53.2; for the scale of C.P.A. between 35.6 and 49.1, and so forth. On the whole, it is desirable for one who is considering accountancy seniors, es a profession to have scores which follow the general trend of this light shaded area to the extent that ratings for occupations listed at the top of the chart are relatively high, while the lower The light shaded area extending diagonally across the page marks the general trend of interest ratings found for one thousand public accountants (200 partners, 200 managers, 200 ratings occur for scales appearing at the bottom of the list.

Men's interests change very little from twenty-five to fifty-five years of age. They change somewhat from twenty to twenty for years of age, and much more so from fifteen to twenty years. Consequently, the younger the man, particularly below twenty years of age, the less certainly can his interests be identified in terms of some occupation.

The ratings from this test should not be viewed as conclusive. Instead, they should be considered in the light of all other information bearing upon one's vocational choice. Occupations rated A and B+ should be carefully considered before definitely deciding against them; occupations rated C, C+, and C- should be carefully considered before definitely deciding to enter them. Remember that ratings for only a few from among all the hundreds of occupations are reported here.

obtained by 218 employed accountants tested in April, 1950. Profile of median scores on 27 Strong occupational scales Figure 3.