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Prediction by Care. of First Term Airman Performance Com Selection and Basic Training Variables

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6570TH PERSONNEL RESEARCH LABORATORY AEROSPACE MEDICAL DIVISION AIR FORCE SYSTEMS COMMAND Lackland Air Force Buse, Texas

Project 2719, Task 771902

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PREDICTION BY CAREER FIELD OF FIRST TERM AIRMAN PERFORMANCE FROM SELECTION AND BASIC TRAINING VARIABLES

By Eli S. Flyer

Technical Documentary Report PRL-TDR-64-5 March 1964

6570TH PERSONNEL RESEARCH LABORATORY AEROSPACE MEDICAL DIVISION AIR FORCE SYSTEMS COMMAND Lackland Air Force Base, Texes

Project 7719, Task 771902

FOREWORD

Data reduction and computer operations for this project were carried out under Contract AF41(609)1598 with Teledyne Systems Corporation, Hawthorne, California. Dr. Eli S. Flyer monitored the contract for the Personnel Research Laboratory.

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ABSTRACT

To gain information that might be useful in improving airman classification, 29 predictor variables were evaluated by multiple regression techniques against a criterion of satisfactory performance during the first 2 years of enlistment. Variables included personal data, educational and aptitude data, peer ratings, and an instructor evaluation collected during basic training. The criterion was high Airman Performance Rating vs low rating or discharge. Samples were drawn from 15 career ' fields. Predictive equations were derived for the full population and for each careerfield sample. In all but 2 career fields prediction was improved by equations based on the career-field samples, but a full-population equation was judged more immediately useful.

Keywords: airman career field, job proficiency criteria, mathematical prediction, aptitude tests, peer ratings, multiple regression techniques.

This report has been reviewed and is approved.

John V. Patterson, Jr., Col, USAF Commander A. Carp Technical Director

Hq 6570th Personnel Research Laboratory

TABLE OF CONTENTS

		Page
1.	Introduction	:
2.	Predictor Variables	1
	Selection and Classification Information	1 3
3.	Airman Performance Criteria	3
4.	Population	4
5.	Procedure	4
6.	Results and Discussion	4
Re	ference	7
٨p	pendix I: Peer Rating Form	9
Лp	pendix II: Supplementary Statistical Tables	11
	Table 6: Intercorrelation Matrix for Predictor and Criterion Variables	11
	Table 7: Correlation of Predictor Variables with Satisfactory- Unsatisfactory Airman Performance by Occupational Group	12
	Table 8: Means of Predictor Variables by Occupational Group	13
	Table 9: Standard Deviations of Predictor Variables by Oc- cupational Group	14
	Table 10: Validities of the Composite Scores for All Occupational	
	Groups	.5

LIST OF TABLES

'i able		Page
1	Correlation of Predictor Variables With Satisfactory-Unsatisfactory Airman Performance	2
2	Distribution of Cases by Performance Category	3
3	Distribution of a Composite Score Derived for an Airman Population by Multiple Regression Analysis	5
4	Satisfactory Performance Rates by Occupational Groups	6
5	Validities of the Group-Derived and Population-Derived Composite Scores for Each Occupational Group	6

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PREDICTION BY CAREER FIELD OF FIRST TERM AIRMAN PERFORMANCE FROM SELECTION AND BASIC TRAINING VARIABLES

1. INTRODUCTION

Results from a recent investigation¹ (Flyer, 1963) have shown that it is now possible to evaluate new airmen with a fair amount of accuracy, in terms of their potential worth to the Air Air Force, during their first month of active duty. Preservice educational level, reference information concerning high school adjustment, and peer evaluations made during basic military training can be combined in a single success-potential index that predicts unsuitability discharge and unsatisfactory performance on the job with a useful degree of precision. This screening device was developed without regard to the specific occupation to which the airman was assigned, and, accordingly, could be viewed as a predictive composite score applicable across the wide variety of Air Force occupations.

The possibility exists that among Air Force occupations different demands are made upon individuals, and that variables predictive of good adjustment in one occupation may be unrelated to adjustment in another. If this is found to be the case, special predictive scores could be obtained for individuals indicating their likelihood for success in occupation A, B, C, and so forth. Improved classification procedures could be developed to maximize the likelihood of successful performance by more appropriate personnel assignments, and would result in a general increase in the level of effective airman performance. The purpose of this investigation is to explore the possibilities for classification purposes of information bearing on preservice educational level and performance during basic military training, as well as the usual aptitude measures.

2. PREDICTOR VARIABLES

Selection and Classification Information

Recruits are selected and classified for Air Force duty primarily on the basis of preservice educational level, Airman Qualifying Examination (AQE) scores, and the Armed Forces Qualification Test (AFQT). The AQE plays the largest single role in classification, and airmen enter the Air Force assigned to any one of four job areas: mechanical, administrative, general, or electronics. Assignment to specific occupational training occurs during basic military training and is based upon the individual's aptitude score in the job area he is assigned to as well as the aptitude score minimums that have been established for specific occupational training.

The selection and classification variables selected for study are listed in Table 1. Educational level, age, and information concerning high school courses taken were based upon enlistment records.

¹ In many respects the present study is a follow-on of the earlier investigation. A more complete description of the predictor and criterion variables is presented in the earlier report.

VARIABLE		MEAN	SD	VALIDITY
	Selection & Classification			
1	Educational level	• • • • • ·		
2	Age at enlistment	11.30	1.11	. 34
3	AFOT	10.28	1.49	.18
4	AOE Mechanical AI	51.00	22.18	.25
5	AOE General AI	57.09	22.11	.12
6	AOE Administrative AI	52.80	20,73	• • • • • • • • • • • • • • • • • • •
7	AOE Electronics AI	50.23	19.)) 2 2.60	
8	Height	50.23	22.00	.23
9	Weight	140 49	2,35	.05
10	Marital status (married) at enlistment	1.1.2.40 0.4	21.0)	.05
11	HS Algebra		.19	.01
12	HS Geometry	.73	.44	.15
13	HS Trigonometry	.4.2	. 50	.14
14	HS Physics	.14	• 54	.11
15	HS Chemistry	• .20	.44	.10
16	HS Typing	.42	.49	.10
	Basic Military Training			
17	Tries hard to succeed	4)	10.06	26
18	Cooperative	.20	8.72	
19	Likes to be with people	.18	8.32	.02
20	Calm	.21	7.69	.26
21	Acts bright and alert	03	9.66	.20
22	Good natured	.17	8.28	. 30
23	Seldom excited and angry	.13	8.18	.26
24	Adventurous	.11	8,81	.05
25	Physically strong	.20	10.84	.15
26	Accepts responsibility	.12	9.85	.34
27	Most likely to succeed	.37	10.62	.32
28	Tactical Instructor evaluation	.72	1.11	.13
	Criterion			
29	Satisfactory vs unsatisfactory	.75	.43	

Table 1. Correlation of Predictor Variables With Satisfuctory-Unsubsfactory Airman Performance

(Sample: 10,812 airment enlisting Aug 1959-May 1960 ussigned to Strategic Att Command)

^dBiserial coefficients for continuous predictors (1-9, 17-27); phi coefficients for dichotomous predictors (10-16,28).

Evaluations During Besic Military Train ...g

During the 15th day of basic training, airme.: in each flight (average flight size is about 60 airmen) are required to rate each other for 11 bijolar characteristics. Each flight member identifies the five airmen he considers to be best described by a given characteristic, and five who are best described by its opposite, i.e., five "strong," and five "weak." Net scores are obtained for each individual by summing the number of times he is rated as possessing a given characteristic. Through this procedure an individual obtains 11 peer-rating scores ranging from +59 to -59 (the individual does not rate himself). The peet-rating form used in data collection is shown in Appendix I.

A tactical instructor (TI) evaluation is also obtained at the 15th day of training. In this rating procedure the TI classifies the 60 airmen in his flight into three groups (upper, middle, and lower) in terms of estimated success potential. In the analyses of these data the upper two groups are combined and compared with the low group. The variables are listed in Table 1.

3. AIRMAN PERFORMANCE CRITERIA

Although the full 4-year enlistment will provide more complete airman performance data, information is available at the 2-year mark that is useful as an intermediate criterion. In this investigation airmen were evaluated through operational performance report ratings and unsuitability discharge status. Two criterion groups were formed: (a) "satisfactory airmen" were those rated by their supervisors as "very good" or better in terms of their overall performance, and (b) "unsatisfactory airmen" were those rated less favorably, or discharged for unsuitability.

PERFORMANCE CATEGORY	NUMBER OF CASES	PERCENT OF
Outstanding	815	7.5
Exceptional	2,8 7	26.6
Very good	4,465	41.3
Good	1,425	13.2
Marginal, unsatisfactory	31	.3
Unsuitability discharge	1,199	i1.1
Total	10,812	100.0

Table 2. Distribution of Cases by Performance Category

In this treatment, airmen rated by their supervisors as "good" were assigned to the unsatisfactory group. The main reason for this placement was the evidence that "marginal" and "unsatisfactory" airmen had received inflated ratings in the sample studied. The usual expectancy is 5 percent in these lower rating categories when performance report data are collected under confidential and research conditions. For the sample studied, where evaluations were based upon the official performance report in the airman's personnel file, only .3 percent of the airmen were rated as marginal or unsatisfactory. Table 2 provides information concerning the distribution of performance evaluations and unsuitability discharges.

4. POPULATION

The population consisted of 10,812 airmen entering the Air Force August 1959 through May 1960 who were assigned to Strategic Air Command, and for whom all of the following sets of data were available.

- a. Selection and classification variables
- b. Basic training peer ratiligs and Tl evaluation
- c. Unsuitability discharge information or performance reports accomplished at about the 2-year service mark

5. PROCEDURE

The statistical procedures applied to the predictor and criterion data available for the airman population were the following:

a. Computing an intercorrelation matrix for all predictor variables and the criterion.

b. Performing a regression analysis to develop a single composite score predictive of the satisfactory-unsatisfactory performance criterion.

c. Obtaining distributions of the composite score separately for satisfactory and unsatisfactory airmon.

d. Sorting the population into a number of occupational groups and computing an intercorrelation matrix for all predictor variables and the criterion separately for each occupational group.

e. Performing a regression analysis for each occupational group separately to develop a single composite score for each occupation predictive of satisfactory-unsatisfactory performance in that occupation.

f. Computing the validity of the population-derived composite score for each occupational group.

g. Computing the validities of the composite score developed for each occupational group for all ccupational groups.

6. RESULTS AND DISCUSSION

The complete intercorrelation matrix for predictor and criterion data is shown in Table 6, Appendix II. The variables included in the analysis and their validities in predicting airman performance are shown in Table 1. The regression analysis procedure applied to the matrix resulted in a two-variable solution using an iterative stop criterion of .006 gain in the squared multiple correlation (R^2) . The two variables, in order of their contribution to prediction, were: (a) peer-rating variable "Trice burd to succeed"; and (b) educational level.

A composite score war --reloped for all cases in the population from statistica' weights assigned to the two variables. Table 3 provides a distribution of the composite score obtained separately for satisfactory and unsatisfactory airmen. Unsatisfactory performance rates varied from 9 percent in the highest composite score interval to 75 percent in the lowest.

	SATISFACTORY	UNSATISFACTORY	PERCENT UNSATISFACTORY
96 and higher	460	46	 ()
90-95	502	59	ú
84-89	1466	195	12
78-83	2765	521	16
72-77	976	330	25
66-71	783	381	33
60-65	559	340	38
54-59	304	258	46
48-53	167	214	59
42-47	86	130	60
36-41	49	76	61
30-35	23	53	70
29 and .ower	17	52	75
Total	8157	2655	25
Mean	77 .88	66.96	
	Standard Deviation r _{pbis} = .34, r _{bis} =	, 13.85 47	

Table 3. Distribution of a Composite Score⁴ Derived for an Airman Population by Multiple Regression Analysis

"Variables weighted in this composite score are peer rating for "Tries hard to succeed" and educational level.

The results at this stage of the investigation were almost identical with the findings obtained in the earlier study. The peer-rating variable "Tries hard to succeed" and educational level provided the best two-variable composite in both analyses.

The sample was sorted into 15 occupational groups (based upon career field identification) each with 200 cases or more. The groups selected, and successful performance rates for each, are shown in Table 4. Means, standard deviations, and validities obtained within occupational group for all predictor variables are shown in Tables 7-9, Appendix II.² Results from the regression analysis performed for each occupational group are shown in Table 5, as well as the validity of the population-derived composite score when applied to each of the 15 occupational groups.

The findings presented in Table 5 show that for many occupational groups there is a substantial improvement in performance prediction obtained with the occupation-derived composite score as compared with the population-derived score. Also, as is shown in Table 10, Appendix II, there are occasions when the occupation-derived score is more valid for other occupations than the population-derived score.

²Matrices computed for each occupational group are available to qualified requesters from the 6570th Personnel Research Laboratory (PRE), Box 1557, Lackland AFB, Texas.

CAREER FIELD	DESCRIPTION	NUMBER OF CASES	PERCENT SATISFACTORY
29	Communication Operations	222	78
30	Communications-Electronic Systems	983	87
31	Missile Electronic Maintenance	252	89
32	Armament Systems Maintenance and Operations	449	86
42	Aircraft Accessory Maintenance	624	78
43	Aircraft Maintenance	1423	77
53	Metal Working	350	70
54	Facilities	325	79
57	Fire Protection	213	57
60	Transportation	228	62
64	Supply	1036	75
70	Administration	914	73
73	Personnel	257	89
77	Air Police	1254	66
90	Medical	323	71

Table 4. Satisfactory Performance Rates by Occupational Groups

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Table 5. Validities of the Group-Derived and Population-Derived Composite Scores for Each Occupational Group

~~~~	GROUP	DERIVED	COMPOSITE	POPULATI	ON-DERIV	ED COMPOSIT
FIELD	MEAN	50	VALIDITY	MEAN	SD	VALIDITY
29	77.30	19.58	.74	76.59	13.74	.59
30	87.32	6.28	.32	81.73	10.61	.32
31	88.97	9.86	.59	82.48	10.85	.46
32	85.78	8.04	.40	<b>82.68</b>	9.61	.30
42	78,12	11.85	.43	77.62	12.16	.36
43	76 <b>.96</b>	13.88	.45	74.84	12.73	.41
53	69.47	17.30	.51	72.15	14.65	.45
54	78.36	12.84	.47	73.06	12.67	.40
57	56.39	24.99	.65	65.51	16.02	.47
60	61.73	21.34	.57	67.31	16.45	.54
64	74.49	13.95	.45	71.89	13.96	.42
70	72.20	17.32	.54	72.94	14.27	.52
73	87.71	11.74	.74	<b>77.96</b>	11.44	.60
77	65.71	12.91	.36	72.14	14.23	.36
90	70.23	18.84	.57	78.16	12.39	.38

"Biserial correlation.

-

If similar results are obtained for new samples, the special equations might offer a substantial improvement over the population-derived equation. The likelihood of this occurring is not too favorable. There is a substantial relationship between the number of cases in the occupational group and the increase in validity. Of the five occupations with gains in validity of .11 and higher, four had sample sizes of 260 cases or less. For the six occupations with gains of less than .05, all but one involved a sample size of 900 or more. This finding suggests "over fitting" for the smaller samples by capitalizing on error variance in regression analysis and the likelihood of lowered validities in a cross validation sample. The results cre not definitive, however, and further investigations are necessary.

There are sizable differences in validity among the occupational groups for the populationderived composite score. Some of the differences can be attributed to restrictions in variance resulting from the classification procedure used to assign airmen. For example, the populationderived composite score was least valid for the 30 and 32 career fields, which also have the lowest composite score variances.

There is a possibility that special equations may prove superior to a population-derived equation, and that performance in one career field may be better predicted than performance in another. While additional investigations are called for, the level of predictive accuracy achieved with only educational level and one peer-rating variable is high enough to be operationally useful. Beginning July 1965 airman classification will be accomplished at the 20th day of training by means of computer processing. When this procedures is instituted, the use of peer-rating data for classification becomes feasible. It will be of co..siderable value to restrict the assignment of potentially unsatisfactory airmen so that they are not assigned to high-risk occupations or those involving expensive technical training.

### REFERENCE

Flyer, E.S. Prediction of unsuitability c nong first-term airmen from aptitude indexes, high school reference data, and basic training evaluations. Lackland Air Force Lase, Texas: 6570th Personnel Research Laboratory. Aerospace Medical Division, June 1963. (PRL-TDR-63-17, DDC Document AD-420 530)

	APPENDIX	1: Peer Rating Form	
			Date
Name			Your Roster No
Last	First	Middle Initial	
Serial Number			Flight No

This is a peer or "Buddy" rating operation, a procedure that is commonly used in the Army, Navy, and the Air Force, including the Air Academy. Attached also is a copy of the roster for your flight. This roster sheet contains the names of all men in your flight during the first week of basic training. You will use this roster in making your ratings. Here is how you proceed.

1. First print your name, serial number, and flight number at the top of this page. Then look at the roster. You will see a roster number printed on the left side of each name. Find your name and print your roster number in the upper right hand corner of this sheet.

2. Now look at the first statement printed below: "Tries hard to succeed in basic training." (Inderneath this statement there are five boxes. We want you to look at the roster, find the names and numbers of the five men most like this statement, and write their "umbers in the boxes. You must put down the numbers of FIVE men NO MORE OR NO FEWER. Then reac statement number 2: "Doesn't try to succeed in basic training." Find the names and numbers of the FIVE men who are most like this statement and write their numbers in the five boxes below the statement. Continue reading the statements and writing in the numbers of the FIVE men who are most like the statement and write their numbers in the five boxes below the statement. Finish each one before going on to the next.

3. Note the following special instructions.

- a. Do not include yourself in any of the ratings.
- b. If you feel uncertain about the correctness of some of your ratings, put a check mark underneath the box containing the numbers of the men in question.
- c. The roster has the names of men in your flight during the first week of basic training. Some men named on the roster may have left the flight since that time. You may include these men in your ratings if you want to. However, nones of men entering your flight since the first week of training are not included on the roster, and these men will not be rated.
- d. When you have finished both sides of this sheet, go back and make sure that you have written in the numbers of FIVE men for each statement. On items 15 and 16 you must have ten for each statement.
- e. If your name is not on the roster, use "X" as your roster number.
- f. You are to think carefully about each rating as these may be the basis for future assignments. Each space will be completed in full. An incomplete answer will lower your scorel



Cooperates and helps tlight members in GI parties and other details



2. Doesn't try to succeed in basic training



4. Uncooperative and gools off on GI parties at d other details



RL HQ FORM 0-12 SUPERSEDES WADD-O FORM 1081 WHICH IS OBSOLETE



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5	34	2	26	8	29	31	31	07	6	8	32	45	38	42		04	15	13	02	12	18	10	03	02	07	16	17	08	11
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^dSee Table 1 for names of variables. Note.-Decimal points omitted.

Table 6. Intercorrelation Matrix for Predictor and Criterior Jariables

11

APPENDIX II: Supplementary Statistical Tables

Table 7. Correlation of Predictor Variables with Satisfactory-Unsatisfactory Airman Performance by Occupational Group

PREVICTOR $29$ $31$ $12$ $43$ $12$ $43$ $32$ $34$ $34$ $40$ $27$ $35$ <b>Sidetion and Clastification</b> 1         Educational level         15         21         17         13         18         21         14         08         21         20         15         16           3 AFQT         11         13         21         16         03         21         14         08         21         20         15         16         20         15         16         20         15         16         20         15         16         21         14         06         21         14         20         16         21         14         20         16         21         14         20         20         20         20         21         21         20         21         20         21         20         21         21         21         21         21         20         21         20         21         20         21         20         21         20         21         20         21         21         21         21         21         21								CARE	ER FII	5606						
Slettion and Classification       1 Educational level       45       22       18       02       23       34       30       27       35         2 Age ar enlistment       15       21       17       13       18       21       14       02       13       16         3 AQE Mehnical AI       11       03       12       15       06       10       32       14       07       14       07       14       07       14       07       14       07       14       07       14       07       01       11       23       14       07       14       07       01       11       24       16       07       05       01       11       20       10       14       07       16       07       01       11       14       07       16       07       03       01       17       10       03       07       03       01       11       18       06       06       01       10       07       05       07       03       11       10       07       05       06       03       11       14       17       07       06       11       14       10       11       10       11	PREDICTOR	29	ន	9	32	42	<b>4</b>	53	ŝ	5	99	3	2	٤٢	2	ă
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Selection and Classification															
2       Age at enlistment       15       21       17       13       18       21       14       08       21       14       21       34       17       25         5       APCT       10       02       11       42       14       21       34       17       26       11       14       21       34       17       26       11       14       21       34       14       07       26       11       14       21       34       14       07       50       01       11       23       14       17       20       14       20       04       26       01       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       16       01       01       01       01       01       01       01       01       01       01       11       12       11       14       21       14       21       14       17       01       01       01       01       01       01       01       01       01       01	1 Educational level	45	22	18	6	25	32	34	32	43	40	27	35	52	ŝ	21
3         AFQT         08         02         11         14         21         14         21         34         14         07         26           4         AQE Mechanical AI         11         03         12         16         06         10         32         11         14         24           6         AQE Mechanical AI         11         03         12         16         06         10         35         01         11           6         AQE Electronics AI         18         -03         03         11         17         20         14         30         08         25         01         14         20         14         20         11         14         20         15         01         04         06         25         01         11         20         16         01         07         05         01         11         20         11         20         10         03         01         10         26         02         11         17         20         10         07         26         01         11         20         10         01         20         11         11         20         11         20	2 Age at enlistment	15	21	17	13	18	21	14	80	21	20	15	16	12	8	8
4       AQE Mechanical AI       11       03       12       16       06       10       03       24       10       05       -01       11         5       AQE Administrative AI       11       03       12       16       03       13       28       11       14       24         7       AQE Electronics AI       11       03       07       05       11       13       20       10       04       20       00       34       12       26       01       14       20       10       04       20       00       35       01       14       20       10       04       50       03       05       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03	3 AFOT	08	08	02	11	14	21	14	21	34	14	07	26	25	12	28
5         AQE General AI         24         16         -03         -03         10         18         20         13         28         11         14         24           7         AQE Electronics AI         18         -3         -20         03         17         10         18         20         20         20         20         20         10         14         20         20         20         20         20         20         10         11         17         20         14         20         10         20         20         20         20         20         20         20         20         20         20         20         10         10         10         10         10         10         10         10         11         20         10         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20	4 AQE Mechanical AI	11	03	12	16	૪	10	03	24	10	3	ę	11	13	10	23
6         AQE Administrative AI         18         -J3         -O2         05         18         18         20         14         20         10         04         20           7         AQE Electronics AI         11         -03         07         -03         01         01         01         04         20           8         i=eight         11         03         07         03         01         05         03         05         05         05         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03<	5 AQE General AI	24	16	õ-	-03	10	18	20	13	28	11	14	24	27	14	3
7         AQE Electronics A1         08         00         02         06         11         7         20         14         30         08         26           9         Veight         11         -03         07         -05         07         01         07         16         01         -04         04           9         Weight         01         03         01         05         03         05         05         07         03         03         05         03         05         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         0	6 AQE Administrative AI	18	<u>.</u> 3	-02	6	18	18	20	14	20	10	2	20	38	13	2
8       Fleight       11       -03       07       -01       -01       07       16       01       -04       04         9       Weight       05       -02       -10       02       11       03       03       11       15       04       -05       00         1       HS Algebra       11       02       03       03       01       11       20       10       13       08       03       13       08       03       13       08       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03       03	7 AQE Electronics AI	80	8	02	8	11	17	20	14	30	88	8	26	17	01	5
9         Weight         06         -U2         -10         02         11         03         03         11         15         04         -05         03           1         HS Algebra         11         02         08         05         07         -03         01         05         03         05         05         03           2         HS Geometry         11         02         08         05         01         13         08         03           3         HS Trigonometry         14         00         16         -02         10         03         01         11         20         16         06         03         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05         05	8 ifeight	11	÷	07	ŝ	0	10	۰	07	16	5	ş	\$	8	8	16
0         Marial status         -11         02         08         07         -03         01         05         03         05         05         03         05         05         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03         03 <th03< th=""> <th03< th="">         03</th03<></th03<>	9 Neight	8	-02	-10	02	11	03	03	11	15	2	ŝ	8	8	10	හ
1       HS Algebra       10       00       00       04       06       10       11       20       10       13       08       03         3       HS Trigonometry       14       00       16       -02       11       12       19       11       20       16       06       09         3       HS Physics       10       01       03       01       11       02       15       01       14       06       11         4       HS Physics       10       01       03       01       11       02       15       01       08       05         5       HS Chemistry       08       08       02       -04       07       08       03       -04       07       08       08       16       17       07       05       08       11       08       03       -04       07       08       08       13       14       17       07       05       06       16       17       07       05       08       16       13       39       07       05       06       16       07       05       07       05       07       05       07       16       07       05	O Marital status	11-	02	80	3	07	<del>.</del> 03	10	3	63	8	3	02	8	6	6
2       HS Geometry       14       00       16       -02       11       12       19       11       20       16       06       09         3       HS Trigonometry       14       07       05       -02       10       01       03       04       11       20       16       06       09         4       HS Physics       10       01       03       01       11       02       15       01       08       05       05         5       HS Chemistry       24       03       03       -06       11       02       15       01       09       05         6       HS Typing       08       02       -04       07       08       03       14       17       07       05         1 set to have upope       17       02       31       31       32       40       24       34       40       37       38         2 cost raive       56       27       40       30       34       37       39       40       37       38       40       37       39       40       40       37       38       40       24       34       40       37       36	1 HS Algebra	10	00	6	<b>5</b> -	8	10	11	20	10	13	8	6	11	13	6
3HS Trigonometry140705-0210030405101406114HS Physics5HS Chemistry100103040703040706056HS Typing240303-0616080913141707056HS Typing0802-0407080215090816121ait Milthay Training227403034323713294033397Tries hard to succeed5027403034323713294033397Tries hard to succeed56274030343237132940373881702330201-0604-040005079Likes to be with people1710272223162723261Acter bright and alert38174027222316243723261Acter bright and alert38174027222326243723262ColmCalm38174027222326243729243 <td>2 HS Geometry</td> <td>14</td> <td>00</td> <td>16</td> <td>-02</td> <td>11</td> <td>12</td> <td>19</td> <td>11</td> <td>20</td> <td>16</td> <td>8</td> <td>8</td> <td>07</td> <td>10</td> <td>8</td>	2 HS Geometry	14	00	16	-02	11	12	19	11	20	16	8	8	07	10	8
4 HS Physics       10       01       03       01       11       02       15       01       08       05       15       01       08       05       16       17       07       05         6 HS Typing       03       03       06       16       08       03       16       17       07       05         6 HS Typing       03       03       03       03       03       03       03       13       14       17       07       05         7 Tries hard to succeed       50       25       45       37       31       32       40       37       38       16       12         7 Tries hard to succeed       56       27       40       30       34       32       37       13       29       40       37       38         6 ocir rative       56       27       40       37       25       18       34       07       26       27       38       17       40       27       25       23       16       37       38       17       40       26       31       16       17       37       26       27       27       25       25       26       31       16	3 HS Trigonometry	14	07	62	-02	10	63	3	3	10	14	8	11	12	8	8
5       HS Chemistry       24       03       03       -06       16       08       03       14       17       07       05         6       HS Typing       08       02       -04       07       08       03       14       17       07       05         asic Miltroy Troining       08       08       02       -04       07       08       02       15       09       08       16       12         7       Tries hard to succeed       50       25       45       37       31       32       40       24       37       38       39         7       Tries to be with people       17       02       33       02       -01       -06       04       07       26       22       23       16         9       Likes to be with people       36       11       48       37       25       18       34       07       26       22       23       16       07       05       03       03       27       23       16       27       26       26       26       27       26       26       26       27       23       16       27       25       25       26       26 <td>4 HS Physics</td> <td>10</td> <td>10</td> <td>6</td> <td>10</td> <td>11</td> <td>02</td> <td>15</td> <td>б</td> <td>80</td> <td>ē</td> <td>8</td> <td>6</td> <td>02</td> <td>8</td> <td>2</td>	4 HS Physics	10	10	6	10	11	02	15	б	80	ē	8	6	02	8	2
6 HS Typing       6 HS Typing       08       02       -04       07       08       02       15       09       08       16       12         resic Willtary Troining       7       Tries hard to succeed       50       25       45       37       31       32       40       33       39         7       Tries hard to succeed       56       27       40       30       34       32       37       13       29       40       37       38         9       Likes to be with people       17       02       33       02       -01       -06       04       -04       00       57       39       -07         9       Likes to be with people       36       11       48       37       25       18       34       07       26       27       30       -07         0       Calm       36       11       48       37       25       34       14       30       22       25       26       27       29       24       30       27       25       25       26       24       30       27       25       25       26       26       27       25       26       24       30 <t< td=""><td>5 HS Chemistry</td><td>24</td><td>03</td><td>03</td><td>ş</td><td>16</td><td>08</td><td>8</td><td>13</td><td>14</td><td>17</td><td>0</td><td>3</td><td>02</td><td>0</td><td>2</td></t<>	5 HS Chemistry	24	03	03	ş	16	08	8	13	14	17	0	3	02	0	2
7 Tries hard to succeed       50       25       45       37       31       32       40       33       39         7 Tries hard to succeed       56       27       40       30       34       32       37       13       29       40       33       39         9 Likes to be with people       17       02       33       02       -01       -06       04       00       05       03       -07         9 Likes to be with people       17       02       33       02       -01       -06       04       07       26       22       23       16         0 Calm       36       11       48       37       25       18       34       07       26       22       23       16         1 Acts bright and alert       38       17       40       27       22       25       34       14       30       22       25       26         3 Seldom excited & angry       35       16       25       22       22       23       16       30       27       26       27       25       26       30       10       45       41       30       27       26       26       26       27       <	6 HS Typing	<b>0</b> 8	08	02	-04	07	08	07	15	8	8	16	12	14	11	6
7       Tries hard to succeed       50       25       45       37       31       32       40       24       34       40       33       39         8       Coop rative       56       27       40       30       34       32       37       13       29       40       37       38         9       Likes to be with people       17       02       33       02       01       -06       04       00       05       03       -07         0       Calm       36       11       48       37       25       18       34       07       26       22       23       16         1       Acts bright and alert       38       17       40       27       22       25       34       14       30       22       25       26         2       Good natured       38       17       40       27       22       25       34       14       30       22       25       26         3       Seldom excited & angry       35       16       27       22       25       26       27       27       25       26       27       25       26       27       27       27 <td>iasic Military Training</td> <td></td>	iasic Military Training															
3       Coop rative       56       27       40       30       34       32       37       13       29       40       37       38         9       Likes to be with people       17       02       33       02       -01       -06       04       00       05       03       -07         0       Calm       36       11       48       37       25       18       34       07       26       22       23       16         1       Acts bright and alert       38       17       40       27       22       25       34       14       30       22       25       26       30       10       45       41       30       27       26       30       10       47       30       27       25       25       26       30       10       48       30       27       22       25       26       30       10       48       30       27       25       26       30       10       30       27       25       25       26       30       10       30       27       25       26       30       10       48       30       27       25       26       30	7 Tries hard to succeed	50	25	45	37	31	32	40	24	34	40	33	39	07	27	36
9       Likes to be with people       17       02       33       02       -01       -06       04       -04       00       05       03       -07         0       Calm       36       11       48       37       25       18       34       07       26       22       23       16         1       Acts bright and alert       38       17       40       27       22       25       34       14       30       22       25       26         2       Good natured       48       19       30       22       25       34       14       30       22       25       26       30       10       45       41       30       27       25       26       30       10       41       30       27       25       26       30       10       41       30       27       25       26       30       10       41       30       27       25       26       30       10       45       41       30       27       25       26       30       10       45       41       30       27       26       30       10       45       26       36       14       30 <t< td=""><td>3 Coop rative</td><td>56</td><td>27</td><td>40</td><td>30</td><td>34</td><td>32</td><td>37</td><td>13</td><td>29</td><td>40</td><td>37</td><td>38</td><td>40</td><td>27</td><td>34</td></t<>	3 Coop rative	56	27	40	30	34	32	37	13	29	40	37	38	40	27	34
0       Calm       36       11       48       37       25       18       34       07       26       22       23       16         1       Acts bright and alert       38       17       40       27       25       34       14       30       22       25       26         2       Good natured       38       17       40       27       22       25       34       14       30       22       25       26         3       Seldom excited & angry       35       16       25       22       20       24       21       10       48       37       29       24         4       Adventurous       24       07       16       25       20       24       27       10       38       37       29       24         5       Physically strong       29       08       26       11       18       15       25       13       08       07         6       Accepts responsibility       52       24       37       32       28       31       30       28       31       30       30       30       30       30       30       31       30       31	9 Likes to be with people	17	02	33	02	<del>.</del> 01	ş	3	ş	8	3	6	-0	13	8	ଞ
1       Acts bright and alert       38       17       40       27       22       25       34       14       30       22       25       26         2       Good natured       48       19       30       22       25       26       30       10       45       41       30       27         3       Seldom excited & angry       35       16       25       22       20       24       22       10       38       37       29       24         4       Adventurous       24       05       30       13       06       00       11       -01       01       05       07         5       Physically strong       29       08       28       25       15       11       18       15       21       08       07         6       Accepts responsibility       52       24       37       32       28       31       30       30       30       34         7       Most likely to succeed       45       17       43       29       27       20       34       32       30       34	0 Calm	36	11	48	37	25	18	34	07	26	22	23	16	30	18	41
2       Good natured       48       19       30       22       25       26       30       10       45       41       30       27         3       Seldom excited & angry       35       16       25       22       20       24       22       10       38       37       29       24         4       Adventurous       24       05       30       13       06       00       11       01       05       05       07         5       Physically strong       29       08       28       25       15       11       18       15       27       13       08       07         6       Accepts responsibility       52       24       37       32       28       31       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       30       34       30       34 <t< td=""><td>1 Acts bright and alest</td><td>38</td><td>17</td><td>40</td><td>27</td><td>22</td><td>25</td><td>34</td><td>14</td><td>30</td><td>22</td><td>25</td><td>26</td><td>3</td><td>17</td><td>ŝ</td></t<>	1 Acts bright and alest	38	17	40	27	22	25	34	14	30	22	25	26	3	17	ŝ
3 Seldom excited & angry       35       16       25       22       20       24       22       10       38       37       29       24         4 Adventurous       24       05       30       13       06       00       11       -01       01       05       07         5 Physically strong       29       08       28       25       15       11       18       15       25       13       08       07         6 Accepts responsibility       52       24       37       32       28       31       30       30       30       34         7 Most likely to succeed       45       17       43       29       25       29       34       32       36       31       30       34	2 Good natured	48	19	30	22	ដ	26	30	10	45	41	8	27	23	22	34
4 Adventurous       24 05 30 13 06 00 11 -01 01 05 05 -07         5 Physically strong       29 08 28 25 15 11 18 15 25 13 08 07         6 Accepts responsibility       52 24 37 32 28 32 36 25 38 31 30 28         7 Most likely to succeed       45 17 43 29 25 29 34 23 33 32 30 34	3 Seldom excited & angry	35	16	25	22	20	24	52	10	38	ŝ	29	24	20	16	*
5 Physically strong       29       08       28       25       11       18       15       25       13       08       07         6 Accepts responsibility       52       24       37       32       28       32       36       25       38       31       30       38         7 Most likely to succeed       45       17       43       29       25       29       34       23       32       30       34         9       7       Most likely to succeed       56       03       05       26       04       16       70       17	4 Adventurous	24	60	30	13	8	8	11	<b>1</b> 0-	0	3	3	-01	18	8	11
6 Accepts responsibility         52         24         37         32         28         32         38         31         30         38           7 Most likely to succeed         45         17         43         29         25         29         34         23         32         30         34           a         Tool 17         20         25         29         34         23         32         30         34	5 Physically strong	29	08	28	25	15	11	18	15	25	13	8	07	27	16	24
7 Most likely to succeed 45 17 43 29 25 29 34 23 33 32 30 34	6 Accepts responsibility	52	24	37	32	28	32	36	25	38	31	30	80	35	23	34
	7 Most likely to succeed	45	17	43	29	25	29	34	23	33	32	Ř	34	35	25	2
	8 Tactical Instructor Evaluation	26	03	02	07	10	13	21	8	8	16	20	12	16	2	5

.

Note .- Biserial coefficients for continuous predictors, phi coefficients for cicliptomous predictors; decimal points omitted.

12

Tuble 8. Means of Predictor Variables by Occupational Group

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والكالية مستلك مستعمل سال سليلة معرفاته مستول فكالمستاط مستعملهم والطراب

Predictor	&	۶ و	37	33	*	C 1	REER 53	I I I X	• <b>0</b> •	3	z	<u>م</u>	¢	Ċ	3
															1
Selection & Glassification 1 Educational level	11.66	12,03	12.15	12.11	11.66	เค•น	νη	n.u	10.05	ъ. Ц	<b>б</b> °п	к.ц	п.%	11-36	<b>п.</b> н
2 Age at enlistment	18.29	18.55	18.5J	13.43	18.JS	18.24	11.11	18.39	<b>16.</b> C	17.86	28.35	18.27	EI.81	18.04	18.39
) AFCT	57.74	81.87	67° 10	85.65	U-73	5: 06	8.8	50.78	42.72	ig.52	22-61	10.55	8.%	51.47	65 <b>.</b> 8J
4 A(W Mechanical Al	38.62	67.69	12.17	63.07	61-13	SE.14	<b>(C-C</b>	30.35	ù5.63	06°G1	C4.4C	31.45	5 <b>5-</b> 55	1,2.0	2.12
5 A(F General AI	64.55	65.64	65 <b>.</b> BJ	45°89	52.69	95°TH	38.15	0.%	36.2	39.66	53-93	57.45	16-27	<b>50.</b> %	63.50
6 AÇE Administrative AI	24°C4	71.64	74.31	76.97	CC•42	18° 52	41°17	(h. SH	37.09	38.35	1.134	42.05	56.03	50.63	67.72
7 AÇE Electronice Al	1,2.66	79.87	81.77	84.38	8.99	16.9	37.53	79.7	32.66	33-55	35.81	37.06	46.25	16.04	55.03
i Indiana B	68.87	69.42	69.42	69.68	69.12	60°69	68.97	¥6*89	68.77	68.71	69.35	69.08	61.49	12.63	69.18
9 Waight	(48.63	131.11	153,44	152.89	1C°611	147.90		147.06	. %°¢1	146.64	32.58	147.96	20.17	149.25	th).(r)
10 Marital status	s.	ą.	8	ą.	ą.	ខ	đ,	Ş,	ຍຸ	ទុ	8	8	ទ្	ខំ	<b>.</b> 0
ll HS Algebry	e.	ц.	<del>.</del> 95	-95	R	•63	-57	-51	84,	3.	\$	Ŗ	8	8.	8
12 HS Germetry	•H2	2.	<b>18</b> .	କ୍	ŝ	ę	2	ស្	ភ្	ង	ħ,	Ŗ	×.	ż,	-22
13 45 Trigonometry	•10	ц.	-th.	38.	51.	6.	8	Ş.	a,	.3	8	6.	31.	\$	•16
14 HS Physics	ង	s.	ତ୍	ઙ	Ľ.	81.	ະ	41.	ส	27	4	67.	8	17.	<b>R</b> .
15 NS Chemistry	2	<b>д</b>	3	<b>B</b> .	÷.	ភ្	31.	ส	ຊ	6T.	Ŕ	শ	ą	•25	<b>T</b> 4•
16 HS Typing	¥.	ą.	8	ę.	14.	\$	ក្	¥,	÷	×	Ą	ġ	• • •	Ŗ	٤4.
Basic Military Training		4		5	8	ŕ	ΥL.	2	6.5	-2.91	- 60 	ç.,.	1.07	5.1	(I.I
17 Tries hard to succeed	1°20	20 - 5 - 5				ι <u>τ</u>		. E	99 F	2.5	-1.05	8	ઙ	- 55	ц.
18 Cooperative	20 T	ς ε 1	2017	Ri	7 2				8	4	đ	51.	Ę	6	ω.
19 Likes to be with pappie 30 rahm	1.20		1.81	5 7	41°T	8		8	-2,0	-1-80	9	i,	9.	4.	10
21 Acts bright and alert	1.33	3.45	04.4	3.58	1.29	3.1	-1.74	<del>59</del>	-3.63	-3.28	-1 <b>-</b> 89	60-1-	¥,	-1.76	4
22 Good natured	12.	1.87	1.64	1.40	ま	•25	÷	.76	-3.53	-1.9	3	÷.	8	9	8
23 Seldom excf 3d and angry	.47	1.44	1.07	1.08	8£.	¥.	1 <del>11</del>	1.02	-2.76	6 <b>2</b> **	64	55	ř.	3.	к.
24 Adventurous	1.82	 2	1.06	.16	8	<u>ч</u> -	-•2¥	42	22.	20	14.	- 02	.26	-10	3
25 Physically strong	2.17	1.14	•65	r.	1.19	5	•78	¥.	••86	5-1-20	89.	67	8	8	다. 1
26 Accepts responsibility	1.2	2 <b>.</b> 98	3.63	3.18	94°I	£.	6a	42.	5.9	-2.75	1.7	ま	<b>%</b>	\$	•78
27 Most 1'kely to succeed	<b></b> 8	3.80	4.35	3.59	1.99	2	ц	۶ <b>.</b>	177° 4-	-3.19	2.1-	<b>-</b> .۹	1.09	6	¢.
28 Tactical wattuctor Evaluation		<b>2</b> 6.	<b>26</b> •	1.02		Ľ.	-70	ي.	÷	-67	-57	G.	8	ઝ	<i>z</i> .

"See Table 4 for names of career fields.

I THE A. THE GER LEVERDRAVE ESTIMATION ARTIGUES DY UNCUPATIONAL ON UP

								P T E L	6		1				
Predictor	8	2	ĸ	2	112	6	3	5	5	8	ತ	ę	R	2	8
Selection & Classification		:	:	1	1		1	1	•						
1 Educational leval	6	đ,	<b>5</b>	ċ	1.2	1.06	1.26	1.30	1.36	1.30	1.10	1-8	8.	<b>.</b>	8
2 Aga at enlistment	1.23	1.48	1.35	1.25	1,41	7,42	1.84	1.35	កក	2.00	1.41	1.57	1.99	1.57	1.28
3 AFOT	9E°iI	ນ.ຫ	¥.CI	12.27	20.38	19.67	19.00	10.37	12.01	16.22	17.85	19.22	<b>JB.</b> 90	31,81	18.69
4 AGE Machanical Al	19.12	17.97	th.U	CC-71	16.64	30.0	ъ <b>.</b> ч	87.41	9.75	12.22	19.06	16.20	16-3I	19.36	8. 1
5 AQE Ganaral Al	13.83	16.18	17.71	15.02	19.63	18.90	24,01	06.91	18.86	20.07	14.85	5.7	£.€	19.61	17.20
6 AQE Administrative AI	17.49	ນ.ຫ	15.06	88°T	17.52	16.39	16.45	17.03	36.12	16.03	16.00	27.19	15.01	11.70	х.ц
7 AQ6 Electronics AI	19.27	7.67	$\mathbf{n}$	ц.	24.61	17 <b>-</b> 71	16.82	17.52	16.84	10°91	16.07	15.93	16.64	16.14	16.91
8 Height	2,80	2.47	2.51	2.63	2.59	2.67	2°62	2.40	2.28	2.68	2-51	2.5	2,66	2° FC	2.44
9 Ealght	22.37	21.07	260	21.89	21.95	20.81	46.91	20.95	19.12	23.34	2.7	21.62	20.65	21.67	22.02
10 Marital status	,20	র	2	.19	ន	.18	8.	8	ਸ	ŗ	ม	Ą	ч.	-17	31.
II HS Algebra	4	ଝ	•23	ភ្	ą	8	ୢଽ	ş	ş	8	Ŀ.	×	÷	4.	8
12 HS Geografy	ઙ	ą.	8.	Ŗ	ş	5	Ą	ą	Ą	3	5	ŝ	ઙ઼	4	s
13 HS Trigenometry	°C•	¥.	8	s.	к.	82.	8	น	ร	ч.	\$	8	5	ĸ	Ŗ
14 HS Physics	ц,	دي.	84,	ş.	3.	8	×.	ħ	ਲਂ	£.	κ.	ş	Ś	£.	54.
15 HS Chepistry	ą.	ጜ	91.	<b>S</b> .	<b>9</b>	¥	ц.	8	Ą	Ŗ	ş	3	ş	<b>G</b> .	S.
15 H STICK	Ŗ	8.	<b>S</b> .	ઙ	<b>S</b> .	\$	¥	i.	5	Ŗ	8	Ŗ	ş	ŝ	Ŗ
<b>Basic</b> Military Training 17 Iries hard to succeed	10.24	9*68	19°6	8°74	9.25	<u>9</u> .08	10.48	\$6°1	นา	10.21	10.30	10.7	6° 39	10.21	<u>۶</u> .2
18 Cooperative	64.6	8.10	8.52	7.63	8.3 ⁴	7.99	8.73	7.17	30.46	10.25	oC*6	<b>6</b> 25	7.87	8.75	6.11
19 Likes to be with people	7.85	8.27	9.35	7.60	8.19	C7	8.39	7.75	56-7	8.16	8.39	9.25	97 <b>-</b> 2	<b>ይ</b> 。 ት 5	3.53
20 Calm	1°-2	417-2	9•63	1.7	7.20	2.06	7.87	ር ዓ	2.65	8, Ch	7.80	8.15	7.06	2.66	7.63
21 Acre bright and alert	10.03	2 <b>4</b> 7%	11.32	8.13	8.91	8.73	9*:6	8.25	× 6	<b>0</b> 4°6	9.42	10.01	9.59	5ª*6	10.58
22 Guod natureá	8.77	2.1	7.93	7.87	7.87	ዊ-2	8.47	2.07	6-71	9.45	8.86	9.28	52-2	8.01	2.62
23 Seldim excited and angry	8.50	1.7	78.7	8.14	8, 29	7.26	8.39	6*90	9.21	9-05	8.75	40°6	7.66	นา	7.68
24 Adventurous	<b>B.</b> (2	9 <b>.</b> 8	10.20	8.36	8.31	B. tui	8.62	7.60	7.35	5. k2	9.99	9*66	8.78	9.17	5.16
25 Physically strong	ы.ц	10.82	26°T	10.54	10.11	14.01	10.37	60°6	1Z*6	8. П	8 <b>.</b> 4	μ.65	<b>Z</b> 6	ц.7	ы.я
26 Accepts responsibility	10.21	10.29	ฑ.่น	9 <b>9</b> °6	9° 20	8°91	9-85	7.78	10.02	10 <b>.</b> S	<b>9</b> *8¢	20.2	2	14,9	9°54
27 Host likely to succeed	11.11	10.73	12.25	54°6	9*86	6 <b>4°</b> 6	10.96	ê.36	10.50	12.06	10.56	<b>เ</b>	5 <b>.88</b>	10, 38	30.38
28 Tectical Instructor Evaluation	1.1	1.07	1.0	1.00	1.09	1.09	1.01	1,17	1.24	1.10	1.09	<b>CL.L</b>	1.10	1.10	1.19
	1														

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GROUP	POPULATION	CAREER-FIELD-DERIVED COMPOSITE SCORS														
		29	30	31	32	42	43	53	54	57	60	64	77	73	77	90
Total																
Population	47	43	44	37	37	43	46	42	41	42	44	46	46	45	44	40
29 <i>a</i>	59	74	65	44	51	67	65	61	51	-19	57	63	53	60	60	39
30	32	26	32	21	26	28	30	23	25	25	26	33	33	26	31	18
31	46	26	41	59	51	29	35	39	41	22	33	44	38	32	43	46
32	30	17	26	33	40	19	30	22	30	10	20	27	27	24	28	33
42	36	-38	39	29	31	43	38	35	30	35	34	39	36	36	35	22
43	41	43	41	32	33	41	45	37	39	36	37	41	42	42	40	35
53	45	46	46	37	38	44	47	51	39	35	41	44	43	44	45	41
54	40	30	31	32	30	31	34	32	47	38	34	33	41	36	38	25
57	47	42	43	43	35	43	46	44	45	65	54	41	47	47	48	44
60	54	49	50	36	40	48	47	45	47	50	57	55	54	49	49	36
64	42	38	41	27	30	39	39	37	31	29	42	45	42	36	38	30
70	52	43	45	32	39	43	48	40	43	41	46	51	54	48	46	40
73	60	49	57	48	42	43	60	51	51	46	49	58	56	74	57	47
77	36	34	35	27	26	31	34	33	31	28	33	35	35	37	36	37
90	38	38	37	43	40	31	45	39	37	41	37	39	36	42	37	57

Table 10. Validities ^a of the Composite Scores for All Occupational Groups

^aThis table should be read in the following manner: For the 29 career field the validity of the population-derived score was .59, for the equation developed on the 29 career field, the validity was .74, for the equation developed on the 30 career field, the validity was .66, and so on.

Note.-Biserial correlation coefficients with decimal points omitted.