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PRS REPORT 822

THE EVALUATION OF LEADERS' SCHOOL GRADUATES:
RELATIONSHIPS DETWEEN CURRICULAR
ELEMENTS AND INTERIM CRITERIA.

H. 43., 1.

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THE EVALUATION OF LEADERS' SCHOOL CRADUATES: RELATIONSHIPS BETWEEN CURRICULAR ELEMENTS AND INTERIM CRITERIA

Foreword:

PRS reports are primarily technical. While conclusions affecting military policy or operations may appear in them, they are not intended as a basis for official action. Findings and conclusions contained in PRS reports are intended to guide the conduct of further research. When research findings suggest recommendations for administrative action, such recommendations are made separately to the appropriate military agency.

THE EVALUATION OF LEADERS' SCHOOL GRADUATES: RELATIONSHIPS BETWEEN CURRICULAR ELEMENTS AND INTERIM CRITERIA

I. AUTHORITY

Under Disposition Form, File No. WDGPA 352, from D/P and A to TAG, Subject: Potential Leaders' School(s), dated 7 April 1947, the Personnel Research Section was directed to:

- A. Prepare, construct, adapt or use existing instruments and write procedures for selection of men with no prior service from the replacement stream of these schools;
- B. Prepare rating and grading forms and procedures for the evaluation of students' performance in the Potential Leaders' Course, in coordination with the Army Ground Forces; and,
- C. Advise and assist the Army Ground Forces on curriculum content and training methods of the course.

The population for this research program included graduates of the Leaders' Schools which are currently operating at Fort Dix, N. J., Fort Knox, Ky., Fort Ord, Calif., and Fort Jackson, S. C.

II. PURPOSE

The purpose of this study is to determine the relationships between the various curriculum elements of the Leaders' Course and the several evaluation measures obtained during leaders' training. It is anticipated that the results of this study will serve as a guide for further research and a basis for improving methods of evaluation and training in Leaders' Schools.

III. POPULATIONS

The populations of Leaders' School graduates covered in this report are shown in Table I below.

TABLE I
POPULATIONS

Group	School	Claases	N
A	Fort Knox	8 - 13	26 0
B, /	Fort Knox	27 - 42	231
	Fort Ord	9 - 21	259
₽±✓	Fort Ord	9 - 29	427
E	Fort Ord	22 - 29	168
F	Fort Ord	30 - 41	202
G	Fort Jackson	23 - 32	103
H	Fort Jackson	33 - 38	100
I	Fort Dix	56 - 66	195

^{1/} These two overlapping populations are included in this report since they were employed for separate analyses involving different variables.

IV. VARIABLES

The variables in this study are as follows:2/

- e. Leaders Reaction Test (PRT 847, 1005)
- b. Buddy Rating Student Leadership Evaluation Report (FRT 826, 827, 828, 829)
- c. Faculty Board Rating Leader's Course Board Rating and Report Form (WD ACO PRT 1621)
- d. Acting NCO Rating
- e. Methods of Instruction
- f. Leadership
- g. Small Job Management
- h. Leading Small Units in Combat
- i. Troop Information and Education
- j. Physical Training

²⁾ For detailed description of the variables in this study, see Appendix I.

- k. Dismounted Drill
- 1. Physical Training and Dismounted Drill
- m. Merits
- n. Demerits
- o. Phase I Total
- p. Final Score

Variables a through d inclusive constitute the interim criterion variables. The Leaders Reaction Test and the Buddy Rating were devised by PRS technicians and standard forms were used from school to school. A standard form was also used for variable c, Faculty Board Rating. The form for variable d, Acting NCO Rating, was not standard so that the degree to which the same thing is being measured in different schools is probably more questionable than in the case of the first three interim criterion variables listed.

Phase I Total is a summation of all grades and ratings received during the first three weeks of the course. Hence, it is a composite of all the variables listed above except items c, d, and p. Phase I Total is a variable of differing significance from school to school as each school did not include the same curriculum elements in computing the Phase I Total. However, this variable is based largely on the grades in curriculum elements (items e through l, inclusive).

With respect to the standards and methods used in grading the curriculum elements, there is also considerable variation among the schools.

V. RESULTS AND DISCUSSION

A. Relationships among interim criteria

The intercorrelations among the four interim criteria are shown in Table II below. The capital letter in parentheses following each correlation coefficient indicates the particular population (see Table I, page 2).

TABLE II
INTERCORRELATIONS AMONG INTERIM CRITERIA

	Eudd y Re	Buddy Rating		ting	Acting NCO Rating		
Leaders Reaction Test	.10(A) .29(F)	.12(B) .13(I)	.15(A)	.24(1)	.04(A) .10(F)	.03(B)	
Buddy Rating			.39(A) .40(I)	.50(D)	.14(A) .10(D) .38(G)	.29(B) .21(F) .19(I)	
Board Rating					.64(A) .26(E)	.35(c) .30(I)	

Although the intercorrelations are, in general, rather low, there appears to be a significant relationship between Buddy Rating and Board Rating and Acting ICO Rating. Because of the contamination among the interim criteria due to the availability of Buddy Ratings and Leaders Reaction Test results to Board members, and the possible availability of Board evaluations to those rating the Acting NCO Ratings, it is difficult to make any positive statements regarding the degree of relationship among the criteria. The important point is that the intercorrelations tend to be small in spite of contamination—which would seem to indicate that the criteria are measuring different aspects of NCO leadership ability.

B. The Leaders Reaction Test

The correlations between the Leaders Reaction Test and each of the various curriculum elements are presented in Table III.

TABLE III

CORRELATION COEFFICIENTS OF LEADERS REACTION TEST

WITH CURRICULUM MEASURES

		Group								
	Measure	Ā	B),	ī	M3				
) ,	Phase I Total 1/	•49	.17	-74		.46				
) .	Final Score 1	.27	.13	.č3	.52	• 39				
·	Methods of Instruction	• 55	.13	01	.30	.20				
•	Lesdership	.22	.12	07	.14	.11				
	Small Job Management		\mathcal{E}_{o} .			.08				
	Leading Small Units in Combat		.15			. 1.				
. •	Troop Information and Education	.11			•	. 11				
	Physical Training	.17			.16	.17				
•	Dismounted Drill	.18			.24	. ව				
•	Merits	01			15	Cp				
	Demerita	17			01	10				

1/ Part-Whole Correlations

^{2/} For an over-all view, the average validity is listed in column headed H in all the tables that follow. These averages were obtained by veighting each correlation by the number of cases on which it was based and dividing by the total N.

There appears to be no curriculum element derived independently of the Leaders Reaction Test which correlated highly with it. However, considering the type of data, one might point to the r's for the following variables as indicative of relationships which may be worthwhile investigating further:

- Ft. Knox (A): Method of Instruction (e)
 Leadership (f)
- Ft. Dix (I): Method of Instruction (e)
 Dismounted Drill (k)

The general low magnitude of the correlations suggest the following possibilities:

- 1. The Leaders Reaction Test is an unreliable measure—
 probably because of variability among the raters, or because the composition
 of the groups which students are assigned to lead during the test is so
 variable that the raters do not have comparable bases for making ratings.
- 2. The Leaders Reaction Test measures factors which are not heavily involved in any of the ther measures of achievement in the course.

C. The Buddy Rating

The correlations between Buddy Rating and each of the curriculum elements are presented in Table IV below.

TABLE IV

CORRELATION COEFFICIENTS OF BUDDY RATING WITH CURRICULUM MEASURES

	Group									
Measure	Ā	η	D	\mathbf{F}_{t}	G	H	Ī	H.		
Phase I Total 1/	.42	•56	.54	.27				.47		
Final Score 1	* 1:74	.70	.50	•55	•33	.71	. 24	•50		
Methods of Instruction	•37	• <u>1</u> ;0	.48	.21	ـاز.	.50	.10	•35		
Leadership	•32	-49	.40	.18	.40	.40	03	•31		
Small Job Management		-40						.110		
Leading Small Units in Co	mbat	• 35						•35		
Troop Information and		•								
Education	.29				.16	.25		.25		
Physical Training	•37					-	•03	•23		
Dismounted Drill	•37 •36						.ú	.25		
Phys. Tr. and Dis. Drill	-		-37		.07	٥ڙ.		.31		
Merits	.18				·	•	.13	.13		
Demerits	.01				13		25	10		

On the whole these correlations are substantially higher than those shown in Table II (page 4). Here again, although the magnitude of the r's obtained against curriculum elements derived independently of the Buddy Rating is not high, one might single out the r's for the following variables as probably of some significance and worthy of further investigation:

	Fort Knox(A)	Fort Knox(B)	Fort Ord(D)	Fort Jackson(0)	Fort Jackson(H
VARIABLES	r	Y	Ţ.	r	r
Nathods of Instruction (e)	•37	•1 1 0	.48	•31	.50
Leadership (f)	•32	.49	·110	.40	•40
Troop Information and Education (1)	•29	•			
Physical Training (j)					
Dismounted Drill (k)	•37 •36				
Small Job Management (g)		•40			
Leading Small Units in Combat (h)		•35			
Physical Training and Diamounted Drill (1)			•37		.30

From the viewpoint of the type of data, the Buddy Rating may be considered a reasonable interim criteria.

It should be pointed out that "buddy rating" in this study refers specifically to associations and personal contacts occurring in the Leaders' Course. Hence, the value of Buddy Rating as a criterion is lessened by the extent to which it is contaminated by academic ratings. Also the problem of whether training in the curriculum elements is contributing to the development of leadership ability must remain unsolved until controlled before-and-after experiments have been accomplished.

D. The Board Rating

The correlations between Faculty Board Rating and each of the other variables are presented in Table V below.

TABLE V

CORRELATION COEFFICIENTS OF FACULTY BOARD RATING WITH CURRICULIN MEASURES

Measure	Ā	A C		I	14.
. Phase I Total 1	٠,١٥	.70	.73		.60
. Final Score 1	.77	.73	.74	•5 5	. 66
. Nethods of Instruction	•33 •26	•53	•65	.23	.43
. Leadership	.26	•37	110	.02	.28
Troop Information	.22				. 23
. Physical Training	ەر.			•0 5	.19
Dismounted Drill	.29			ِ ۇۋ•	.31
Physical Tr. and Dis. Drill		.71	.હ3		.70
Merits		ر0.	.19		.io
Demorits	13	09	•	07	12

Correlations here tend to run definitely higher than in Tables II and III (page 4). However, this is undoubtedly due to the fact that members of the Boards use the curricular gamdes in determining their ratings. It would appear that this practice is more prevalent in groups C and E than in A and I.

E. The Acting NCO Rating

The correlations between Acting NCO Rating and each of the curriculum measures are presented in Table VI below.

TABLE VI CORRELATION COEFFICIENTS OF ACTING NICO RATING WITH CURRICULIM MEASURES

			Croup							
	Measure	A	В	C	E	F	G	H	Ī	M
•	Phase I Total	.04	.16	.32	.26	.07				.17
	Final Score 1/	•73	.43	•54	.19	•55	.82	.71	. 28	•55
	Methods of Instruction	.01	.09	.29	.02	04	.01	.49	02	.15
,	Leadership	.00	.13	.19	.07	03	01	.37	08	.10
	Small Job Management		.15					•		.15
,	Leading Small Units in Combe	it	.14							.14
,	Troop Information	07					•59	.30		.14
,	raysical 'training	.10							06	.03
	Dismounted Drill	.07							.10	و0ء
,	Phys. Tr. and Dis. Drill			. 28	.18		.QÚ	. 24		.21
	Merita	01		.14					.03	.07
,	Demerita	13		-06					05	04

With very few exceptions, these correlations are of negligible or nearnegligible magnitudes. It should also be noted that attempts to predict Acting NCO Rating through the use of the Biographical Information Blank, CCB-2, (see PRS Report 764) 3/ proved unimultful, while that instrument did show significant validities in predicting Enddy Rating and Final Score. The data presented here and reports from FRS representatives in the field suggest the following commence:

- 1. The 3-week period of assignment as acting NCO may not be sufficient time for a busy training company commander to make an adequate appraisal of the Leaders' Course Traince.
- 2. The practice of assigning students to routine nonleadership jobs probably has acted to distort the ratings given by some of the commany communitars.
- 3/ Item Analysis and Development of Scoring keys for the Leaders' Course Bib (Form OCB-2; ND AGO FRT-735), FRS Report 764, The Adjutant Ceneral's Office, Personnel Research Section.

3. It may be well to extend the period of assignment during this second phase of the Icaders' Course or to supplient or augment it with long term (1 to 6 months) assignments of a probationary nature.

F. Additional Comments:

- 1. Neither Merits nor Demerits appear to have appreciable relationship to the criterion measures. Within limits, the behavior of trainees under discipline would appear to be of no particular importance in relation to leadership ability as evaluated by any of the other measures.
- 2. Little can be said at present about the positive relationship of the curriculum elements to leadership ability as measured by ratings. This is because significant correlations for these elements were found only for ratings which showed evidence of contamination with scholastic grades (Buddy and Board Ratings), while those ratings known to be physically independent of academic grades (Leaders Reaction Test score and Acting ECO Rating) railed to show significant correlations with the curriculum elements.

VI Technicians

- A. Program Coordinator: Dr. Hubert E. Brogden
- B. Project Director: Dr. Richard H. Caylord
- C. Statistical Advisor: Unassigned
- D. Preparation of Report: Dr. Richard H. Gaylord

Appendix I

VARIABLES

Headquarters, Army Ground Forces, in letter CNGCT-11 353/5039 (17 Mar 48), Subject: Rating System for Leaders' Course Students with attached Manual, Rating of Students in Army Ground Forces Leaders' Courses, states that the following measures have been selected as "those best reflecting leadership":

- a. The Leaders' Reaction Test A performance test involving 20 specified leadership aituations. The test is conducted in accordance with PRT-1005.
- b. The Endry Rating (Student Leadership Evaluation Report) Accomplishment of the ratings by fellow students is described in Manual, Student Leadership Evaluation Report (DA MCO PRT-026). Rating groups of 3 to 15 men who have had good opportunity to know each other are assembled to fill out the Eating Sheet (PRT-027), and the Description Eacet (PRT-028). In accomplishing the Rating Sheet each member of the assembled group indicates his choices for the three best and the three poorest leaders in the group. Through the use of PRT-029, these ratings are summarized and a single over-all score derived. The description sheet consists of a list of 19 forced-choice pairs of characteristics. Eatings are made by each member of the group for each man he knows well enough to rate by selecting one element of each forced-choice pair he feels is most characteristic of the rates.
- e. Faculty Board Rating Board Ratings are accomplished by four officer instructors of the Leaders' School. Three ratings are accomplished independently by members of the board on the Leaders' Course Rating and Report Form. All raters are permitted to consult records and employ any other information at their disposal. The board president the fourth member then collates the ratings and records their am as the final official entry.
- d. Acting NCO Rating (Company Commander's Rating) An evaluation of the traines's leadership qualities is obtained by observation of his conduct in practical work as an NCO and Assistant Instructor during a j-week assignment to a basic training company. A rating is accomplished by the commander of the training company. Until February 1948, the rating forms varied from installation to installation, however, these old forms appear on examination to be measuring essentially the same factors.

In addition to the interim criteria listed above, data are availunder for the following additional measures obtained during the leaders' Course:

- o. Phase I Total This is a summation of all grades and ratings received during the first three weeks of the course. During this Phase, trainees are given academic and practical training in various elements which are felt to contribute to excellence in leadership.
- p. Final Score This is the sum of the four interim criterion measures described in Section a through d.
- e. Methods of Instruction 29 hours of instruction during
 Phase I. Topics covered during this time include: Military
 Training, Principles of Learning, The Lecture Method, The
 Conference Method, The Demoistration Method, Use of Reference
 Material, Preparation and Use of Training Aids, The Lesson
 Plan, Class Management, Methods of Testing, Student Practical
 Application of Methods of Instruction. The grade is determinded by the instructor.
- f. Leadership 17 hours of Phase I instruction. Topics included are: Introduction to Leadership, Psychological Aspects of Leadership, Personal Adjustment, Round Table Discussion, Roles of the Army Leader, Objectives of the Leader, Leader-Subordinate Relations, Combat Leadership, Solution of Leaders Problems not Involving Sattle Leadership, Solution of Leaders Problems not Involving Sattle Leadership, Solection, Evaluation and Promotion of the Army Leader. Twelve additional hours are devoted to the Leaders Reaction Test. Gradev are 120mm by the Instructor.
- g. Gmall Job Munagement 8 hours. In this instruction, practicut problems in Foremulable are given to and solved by the students. Grades are assigned by the instructor.
- h. Leading Gmall Units in Combat 10 hours. Consists of several practical problems to be solved by the students, stressing especially the duties of leaders of patrols or other small units on tactical missions. Graded by instructor.
- i. Troop Information and Education b hours. Lectures on the purpose, mission and benefits of the Troop I and E Program; educational aspects of the program and how they may be obtained; the methods and conduct of discussion. In the last two hours, the students practice discussion leading. Craded by instructor.
- J. Physical Training 10 hours. Participation in and practical instruction on how to conduct conditioning exercises, comlectives and athletics; how to organize, instruct and supervise physical training and athletics. Graded by instructor.

- k. Dismounted Drill 8 hours. Review of school of the soldier and drill for foot troops, including mass and extended formations, inspections and methods of conducting drill. Graded by instructor.
- Physical Training and Dismounted Drill An over-all grade for elements j and k.
- m. Merits Merits are assigned at the discretion of the Leaders' School staff for excellence in conduct.
- n. Demerits Demerits are assigned at the descretion of the Leaders' School staff for disciplinary infractions.