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Army Project Number Aviator Selection 207637438772 memois Research Memorandan 70-28 RELIABILITY OF ASSOCIATE BATINGS OF PERFORMANCE POTENTIAL BY ARMY AVIATORS Robert F. Eastman - Robert L. McMullen - A. Submitted by: Charles A. Gainer, Chief Fort Rucker Field Unit AR1-RM-76-28 6 6 76 Approved by: Joseph Zeidner, Director Organizations and Systems Research Laboratory J. E. Uhlaner. Technical Director U.S Army Research Institute for the Behavioral and Social Sciences Research Memorandums are informal reports on technical research problems. Limited distribution is made, primarily to personnel engaged in research for the Army Research Institute. y 11 408 020

RELIABILITY OF ASSOCIATE RATINGS OF PERFORMANCE POTENTIAL BY ARMY AVIATORS

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BACKGKOUND

In response to a TRADOC request, the Fort Rucker Field Unit of the Army Research Institute for the Behavioral and Social Sciences has undertaken a program to determine the attributes which make some attack pilots outstanding performers in combat. The program which was proposed consists of the following three inter-related tasks: (1) development of an attack pilot profile from survey data of proven performers; (2) development of a rating form to evaluate potential attack pilots; and (3) evaluation and assessment of AH-1 trainees ¹ using the findings of tasks 1 and 2.

Currently no systematic selection of candidates for AH-1 transition exists. Many trainees do not want to be attack pilots but are assigned to fill requirements because they are due for reassignment. If unit commanders and personnel had more information, a better fit of aviators to transition training might be possible. This research is part of task 2 and was done to determine the reliability of unit-level ratings of potential AH-1 candidates.

OBJECTIVES

The primary objectives of this study were to evaluate the infer-rater reliability of a rating form designed to select AH-1 transition candidates and to study rater acceptance of rating forms.

It was hypothesized that COBRA pilots in cavalry and assault units would demonstrate high inter-rater reliability when rating non-AH-1 qualified aviators in their units \longrightarrow on potential for AH-1 transition and gunship pilot duties. A variable of interest was the effect of length of rater-ratee acquaintance on inter-rater reliability (Freeberg, 1969). \longrightarrow ρ . 5

Structured interviews of more than 50 attack pilots revealed that about 70% felt that they could predict other pilots who were potential "ACEs" (i.e., attack pilots who perform exceptionally well in combat) without observing them under combat conditions. This preliminary research suggested that a majority of attack pilots would favor use of rating forms to evaluate candidates for AH-1 transition in contrast to a general lack of acceptance of ratings to determine leadership potential in Army schools (Medland, Yates and Downey, 1974; Downey, 1975).

AH, attack helicopter = COBRA; UH, utility helicopter.

METHOD

SAMPLE

Ratees. The ratees were UH-1 and UH-1/OH-58 qualified aviators in six troops of the 6th ACCB, one troop of the 2d Armor Division, and one troop of the 1st Cavalry. For some units all eligible ratees were used. For those troops which had mure than 13 eligible ratees, a random procedure was used to eliminate individuals and reduce the number of ratees to 12. The modal number of ratees was 12 (see Table 1). Because of anonymity requirements imposed by unit commanders, no analysis of the tackgrounds of ratees was possible.

Raters. The raters consisted of all the available AH-1 qualified aviators in the eight aviation units. There was considerable variation in the number of raters available within each troop (see Table 1). Because of field duty assignments many AH-1 aviators were not available for participation in this study. However, no systematic basis for nonavailability which would affect this study was apparent.

PROCEDURE

Several troop commanders were unwilling to have their personnel participate in this study unless careful procedures were used to insure the anonymity of raters and ratees. This requirement was satisfied as follows: The raters in each proop were scheduled to prrive at the classroom as a group. Each rater within a group was given a packet with a randomly preassigned two-digit number as he entered the classroom. When the entire troop arrived, the list of names of ratees for the troop was placed on the blackboard and a set of three-digit numbers were randomly assigned to each rates. The raters were told that the set of numbers on the board corresponded to three-digit numbers appearing on the evaluation forms in their packets. It was clearly stated that no previous connection between names and numbers had existed. Raters were then instructed to consider the antire list of individuals before following the written instructions on the rating forms. Immediately after each troop completed their ratings the names and numbers on the blackboard were erased. No records of ratees' numbers were kept.

RATING SCALE

The rating scale was modeled after a general format used at several. Army schools² and is designed to encourage discrimination smong rates

For example, The RANGER Evaluation Report; FB (RD) Form 2.

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Table 1

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on a set of desirable characteristics for gunship/attack pilots. The attack pilot characteristics were identified during structured interviews of attack pilots with combat experience. On the evaluation form the rater is instructed to consider the attack pilot characteristics and assign the ratee a numerical rank (i.e., 1-25 in a typical group of 25 pilots) representing potential for success as an attack pilot. The rater is also provided space for a 2-3 sentence word picture to justify the numerical rating assigned. Additional information is recorded on where the rating was conducted and the type and duration of the relationship between rater and rates. Detailed instructions also spell out the restrictions to be followed when rating a group of AN-1 candidates (see Appendix A).

PATING FORM EVALUATION

The rating form evaluation was designed to ask AH-1 qualified raters the following: (1) characteristics to add to or delete from the list on the rating form, (2) if ratings should be used and who should do the rating, and (3) open-ended questions about why they do or don't favor ratings and potential operational problems of using ratings.

RESULTS AND DISCUSSION

Coefficients of concordance and sverage rho's were computed for each unit to determine the degree of agreement among raters. The results in Table 1 indicate that inter-rater agreement was very high (p < .01) for 6 of the 8 units studied. Although statistical significance was not quite achieved in units 6 and 7 (p < .02), the number of raters involved was small. The overall results indicate that raters were responding to essentially the same characteristics when rating the candidates in their units. This does not mean that the observed orderings were necessarily correct, or based on the "true" criteria for a successful gunship pilot; however, the location of the attack pilot characteristics on the rating form itself was designed to make the rating criteria explicit and reduce the influence of irrelevant variables.

The results of the Rating Form Evaluation are presented in Appendix B. The percentage of the sample (if over 5%) who responded to an alternative or who made an open-ended comment is shown on a copy of the rating form itself. The most important result was that 58% of the respondents felt ratings should be used in selecting candidates for COBRA transition training. However, many raters indicated reservations about the validity of ratings because of the influence of personal prejudices and friendships (20%) and the adequacy of ratings to assess candidates effectively (15%). To the question "who do you think should rate AH-1 candidates," only 20% of the sample responded "commanding and supervisory personnel," while 58% indicated either AH-1 qualified pilots (29%) or other pilots in the unit (29%). Another variable which is important in peer rating research is how well the rater knows the individual being rated. The measure of scsociation recorded in this study was the length of time the rater knew the rated officer. The relationship between median duration of raterratee acquaintance within each unit and the statistical reliability of inter-rater agreement is shown in Table 2. The data in Table 2 suggest that inter-rater reliability, in these units, may be positively related to the duration of association between raters and ratees.

Table 2

RELATIONSHIP BETWEEN INTER-RATER RELIABILITY AND DEGREE OF RATER-RATEE ACQUAINTANCE WITHIN UNITS

Unit No.	Median Number of Months of Rater- Ratee Acqusintance	Significance Level of Inter-Rater Agreement
1	18	p < .001
2	12	p < .001
3	12	p < .001
4	15	p < .001
5	6	p < .01
6	9	p < .02
7	10	p < .02
8	6	p < .01

CONCLUSIONS

AH-1 qualified aviators demonstrate a high degree of inter-rater reliability when rating AH-1 candidates in their units. Statistical reliability was higher within those units where raters and ratees had been acquainted longer.

The majority (58%) of AH-1 qualified raters sampled feel that ratings by fellow aviators should be used in selecting candidates for COBRA transition.

Many raters (20%) had reservations about the use of ratings because of the influence of friendship and other personal biases. Another group felt ratings could not (8%) or might not (7%) be effective in identifying potentially successful AH-1 candidates.

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APPENDIX A

ATTACK PILOT CANDIDATE EVALUATION FORM

Instructions:

1. Evaluate this man in your unit/class in terms of your estimate of his potential ability to become a successful gunship/attack pilot. Determine where you think he would rank in a typical group of 25 pilots (number 1 the highest ranking, 25 the lowest ranking). Consider the ATTACK PILOT CHARACTERISTICS below prior to rating each man. <u>Consider the entire group</u> you are asked to evaluate and the following restrictions before beginning. (a) No more than two individuals may be placed in 1-5 column. (b) no two individuals will be assigned the same rating number. Do not rate yourself.

2. Under REMARKS, write a 2-3 sentence word picture to justify the numerical rating you assigned. State briefly the characteristics (desirable or undesirable) of this man that impressed you most.

3. Your ratings will remain anonymous. The packet you picked up has an ID number only to insure that you followed the restrictions when rating.

	TACTICAL KNOWLEDGE			AGGRESSIVENESS	;		CO	NFIDE	NCE
	PHYSICAL STAMINA			SELF-DISCIPLIN	IE		TE	AI&OR	ĸ
	TIMELINESS OF ACTIO	N		DRIVE			IN	ITIAT	IVE
	COMBAT INSTINCT			EFFECTIVE MAP	USE		DE	PENDA	BILITY
	EVALUATED PERSON'S PRESENT LOCATION. (Circle one)	λĩ	UNIT	TRANSITION TRAINING	25.	NDING MAX (rcle	GROUP		
-	RELATIONSHIP TO		1		1	6	11	16	21
	EVALUATED PERSON (Circle one)	co	IP	OTHER	2	7	12	17	22
	REMARKS:		1		3	8	13	18	23
					4	9	14	19	24
					5	10	15	20	25

APPENDIX B

RATING FORM EVALUATION

1. What characteristics would you add to the list on the rating form?

7 Responding

Desire		17%
Common Se	ense	17%
Mental S	tamina	72
Maturity		52

2. What characteristics would you delete from the list on the rating form?

I Responding

Combat	Instinct	142
Physics	l Stamina	8 X

3. Who do you think should rate AH-1 candidates?

AH-1 quali- fied pilots only	All other pilots in their unit	Commanding and super- visory per- sonnel only	Instructor pilots only	Senior aviators only
		A 1		

7 Responding

(29%)	(29%)	(20%)	(14%)	(8%)

4. What problems, if any, can you foresee in using a rating form like the Attack Pilot Candidate Evaluation form at the unit level? Use the reverse side if more space is needed.

2 Responding

Personal prejudices and friendships will invalidate it202Form can't judge qualifications152

5. Do you feel that ratings by fellow aviators should be used in selecting candidates for COBRA transition?

YES NO X Responding (58%) (42%)

Briefly indicate in the space below why you feel ratings should/should not be used. Use the reverse side if more space is needed.

Should	2 Responding	Should Not	X Responding
Fellow aviators more aware of abilities	12X	Ratings are biased Ratings <u>are</u> no good Ratings <u>may not be</u> any good	87 87 9d 77

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