ADEQUACY OF OFFICER FITNESS REPORTS

BY JOSEPH F. FOLEY U. S. Navar rosignatuate sensei Annapolis, Md.









THE ADEQUACY OF OFFICER FITNESS REPORTS

A study toward improving the present methods of evaluation of officer performance in the Navy

A Thesis

Presented in Partial Fulfillment of the Requirements

for the Degree Master of Science

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U. S. Naval Postgraduate School
Annapolis, Md.

By

JOSEPH F. FOLEY, B.Sc.

The Ohio State University
1950

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PART I

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Chapter 1

THE PROBLEM AND IT IMPORTANCE.

The problem of rating or judging one's subordinates is as old as Organization itself. Many writers have stressed the point that judging the employees under him is an integral part of the job of the supervisor. May argued that consciously or not, the supervisor rates his men whenever called upon to choose between them for special assignments, special awards, promotions, or reductions in 2 force. Judius considers that the ratin, of employees is one of the cliest and most universal practices of management and that there never was a time when supervisors and leaders did not judge the relative value of employees.

Tiffin emphasized that though the term "merit rating" (service rating) is of recent origin, the judging of employees by their supervisors is not.

MEED FOR FORMAL STROD

If many writers have agreed that service rating cannot be dispensed with, an equal number are in consonance
as to the need for a formal sethed of making and recording these judgements. Marble proclaimed that the service
rating device protects the employee from "managerial capriciousness" in the determination of the service standing.

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white taught that one of the purposes of the formal efficiency rating is "to protect employees against the snap
judgements, prejudice, and ill will of some supervisors".

Tiffin feels that the emergence of the formal rating system has "involved the transfer of ratings from haphazerd,
random, and frequently irresponsible judgements of supervisors made perhaps during the heat of a quarrel, to ratings
made calmly, deliberately, systematically...". In addition
to this need for mini izing the effects on the ratings of
the frailties of the rater, Judius sees further value in
the formal recorded rating, in providing a means for preserving a measure of an employee's worth so that even in a
large industry the treatment received by all employees and
the opportunities opened to them will be consistent throughout the organization.

OBJECTIVE OF ATING

The objectives of rating are manifold. Principally, of course, the purpose is to secure a recorded judgment of the employee's value to the organization. But underlying this and giving it direction and otive, remany specific aims. Mention has been add of the utility of rating in affording a basis for encice between one's subording test for special assignments, special avards, promotions, and reductions in force. Less obvious but no less important, is the use suggested by Yoder, of ratings as criteria for evalue

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SERVICE OF THE PERSONS ...

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ting the effectiveness of other personnel practices. Tiffin, Pigors and Yers¹⁰, and Mosher and Kingsley¹¹ made much the same point when they listed ratings as a source of information on which to base programs for employee improvement, training, and development. Associated with this is the use of the data from ratings as a foundation and guide for studies to improve screening and selection procedures. Further, operation of a good rating plan results in improvement of the supervisor, as mentioned by both Tiffin¹² and Judius¹³, and therefore such improvement may be considered as one of the purposes of the program.

Not specifically mentioned in the literature is the use of the service rating as an instrument to eld in the festering of good discipline and sorale. Much good work and many minor deficiencies are not deserving of special action other than as reflected in the marking of the service rating blank. Yet good work must be rewarded and brought to the attention of the apployee and mana ement, and the service rating provides a means of doing this. Though the effect on the employee may be vitisted somewhat by the fact that the psychologically sound principle of the "immediacy of the relard" is violated, the dependance on the service rating as a form of reward is justified on pragmatic grounds.

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THE VALUE OF " AVICE MATING

TO THE MAVY

The considerations which serve to render service ratin: so valuable to large industries are effective to an even greater degree in the personnel at injetration of the Naval Service. Three conditions operate to make this true. First, there is the fact of sheer numbers. The officer corps of the acgular Mavy is composed of 43,839 individuals14 while the officers of the Navel Neserve total up to a much larger figure. Second, the problem posed by size is complicated by the twin factors of wide dispersion over large areas of the earth, an mobility within and beyond those areas. In fact, it is safe to say that Maval units are likely to be found anywhere except possibly behind the "Iron Curtain", the currently popular term for the boundary between Russian do insted territory and the rest of the world. Finally, the difficulties of Naval authorities are not limited to the problem of size and ubiquity. An even more severe strain is placed on administration during perio's of repid expansion in ties of Mational ergency and during the process of demobilization when the emergency has passed. Ith final authority for all administrative action necessarily centralized in the Navy Department in ashington, and with so many individuals involved in numerous widely separated an a mobile groups, personal kno ledge on the part of tho responsible for at in.

when makes taken to some to be authorized and - are on originally one enjoyment agent an election as and I NOT THE POLICE PROJECTION AND ADDRESS OF THE OWNERS PARTY WHEN world able one or work party and the world bear bear Parely, community that story are shown accounty. The all these why that this day to binney and or of redesper and the segment of an initial sections from our on terralities and edition? Section at only he reason indicates and absolute around a special close a where an American is with the probability which may be be an all the probability of the p surped for some unitary profite the property and the object world Million from the first one at other \$4 at anneal and an arrange and the same and th - believe of the same of the s and the second analysis commence on a fairness must been - from side has preciprocal beneather and and asserted quaterner at the value of the city and difficulties of floor, below by application to a suit the continue of the contract date one and of the same same across standards of the same same areas are as a Laborated by a second of an including a fine in contrast partial main moderatilization in Asserts bid paint his proposally the not appropriate fault of the character and passing and part and of territories divinessed makes by the fact and NOT SERVICE OF THE PARTY OF THE with the property of the party of the party

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istrative action, of the qualities of even a small number of the officers of the Navy is impossible.

The Navy Department recognizes the importance of service ratings, or fitness reports. Ample evidence of this is contained in the following passa e fro Navy Regulations. 15

Article 1701. Fitness Reports and Records of Officers.

l. The fitness of an officer for the service, with respect to pro otion and assignment to dut,, is determined by his record, Reports of fitness are decisive in the service career of the individual officer, and have an important influence on the efficiency of the entire service.....

The Navy's "OFFICER'S FIRM to ONT", For Mayran, 310 A (Nev 6-45), is intended to fill the need for a merit rating in the Pervice, but unfortunately it is a partial failure. First of all, it is subject to significant observer errors, like most rating devices and, disappointingly, its design omits several features which authorities consider will eliminate or reduce such errors. In addition, its makeup does not provide for the use of the latest techniques in machine scoring, sorting, and tabulation. This is an important seakness in view of the rolling importance of maximum efficiency implicit in the concept of readiness for "Total ar". Although small numbers of the fitness reports are not laborious to prepare, any considerable study of even a moderate number of them, such as must be performed then aking selections for promotion or special assistances, or

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for evaluating other personnel procedures, is inefficient and time consuming under present conditions.

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PART I

Chapter 2

PLAN FO TRALAT O. . . O L.

The design and use of service rating is a task in psychological measure and the designer's most formidable obstacle has been the difficulty of eliminating or controling the "human error" or bias of the rater. This paper will, therefore, examine rather thoroughly the psychological factors bearing on the question in an effort to show the nature and extent of this "human error" and perhaps assist the reader in saining insight into the problem.

Much valuable research has been and is being performed in the field of service rating design and use, and a great deal can be learned from a review of the reported results. Consequently, a chapter will be devoted to the description and discussion of the more important types of rating devices and rating procedures in use. This discussion will include weighing of the relative admintages and disadvantages of the several devices and systems and consideration of the various error-producin, psychological factors which the messures described are designed to combat. From this treatment a body of "best practices" will be assembled.

The four Services which are included under the general name of "Armed Forces", each use a different type of officer's service ratin, and each device has its good and

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its bad points. These military service ratings will be described, analyzed, and judged, in the light of the aforementioned "best practices" and, based on this assessment, as
well as on the "best practices", a plan for a new improved
officer's fitness report form will be proposed for adoption
by the Navy. No actual work of construction of the device
will be attempted, as such is beyond the scope of this thesis.

As has been stated, much research has been done in this field. In the review of the reported results of that research, credit will be given to the scientist whose material is quoted or referred to wherever possible. It is desired. In addition, to ske specific tention here of the works of Grant Cheridan Daze and of Vayne Gilmer Samples. In 1947, Mr. Baze submitted a master's thesis to the Graduate School of The Ohio State University entitled A Rating Scale for Marine Non-Commissioned Officers of the First Three Pay Grades. A year later, hr Camples submitted a master's thesis to the same authority entitled A fully of Merit Hating lethode for Professional Laployees. Lech writer developed a rating scale wich he recommended for the purpose stated in the title of his thesis. Although the general type of scale produced by both Wr. Base and Mr. Sample (the graphic ratio scale) could be used as a Maval officer's officienc, reting, the particular scales developed and reported toul : not be suitable on therefore will not be discussed further.

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PART II

Chapter 1

SOME PSYCHOLOGICAL FACTORS EMARING ON THE PROBLEM OF SERVICE RATING

MATURE OF RATING

Heretofore in this thesis, service rating has been described as the judging of the rates's worth to his organization. Reliance is placed on judgements in this important field of measurement because of lack of better method. To paraphase Yoder it may be said that many human qualities such as leadership, initiative, persistence, self-control, and others are important to weational success but objective measures of such characteristics do not exist.

These judgements are reached as a result of the rater's observation or perception of the typical performance, or the characteristic actions or behaviors of the ratee. It has been said that, "Nowhere so much as in judging people is perception likely to be so biased." Personality is generally thought of by scientists as the total pattern of an individual's reaction to his environment. In truth Stagner has defined personality as the integral of an individual's characteristic responses. It is evident, therefore, that the service rating, in assessing the typical performance of the rates, is attempting to measure an espect of his personality.

A moment's reflection will bring the realization that

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described as an judged of the majors worth has been denoted as an judged of the mignalantition, untilling to places in judged to the till languaged of till languaged of the till languaged of till languaged of

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personality is a complex entit; just he complex is revealed in the finding of Allport and Odbert⁴ that there are 17,953 words in the Anglia. Isn used used to describe the behavior of one person as distinguished from another. Even when allowance is made for overlap in meaning among these vords, the range of differences in behavior provided for remains very great indeed.

Due to the interrelation between a man's perceptions and his beliefs and attitudes, which will be discussed more fully below, the service ratio, is more than a record of personality as perceived. Under o t systems, inextricably included in his concept of the rates is a description of the rater's beliefs and attitudes toward the rates.

tussed. Tuch a system will require the rate to describe his concept of each rates on a separate form. A well designed form will provide undance and a sistance to the rater in his striving for objectivity a well as a place to record his judgments. Fuller appreciation of the scuteness of the need for this guidance and as istance will come as a discuss on succeeding pages some of the more important paychological influences operating to impair the objectivity of the rater's judgments.

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Social psychologists teach that a person's perception of rhat takes place around 1.1 is profoundly affected parametric is a control or attended for our angles in virially an in the two traces are attended on the traces and the traces are attended to the traces and the traces are attended to the traces are attended to

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Belleville Charles of an example of the format posts rated that he are

by factors within him and that many of these interior influences are themselves the product of the individual's prior
perception and learning. An example of this theory as well
as a clue to the nature of some of the interior modifiers may
be found in the following quotations:

How we perceive the world is a product of memory, imagination, hearsay, and fantasy as well as what we are actually "perceiving" through our senses.

Data are perceived and interpreted in terms of the individual perceiver's own needs, own emotions, own personality own previously formed cognitive patterns.

The reader will readily see the truth in the foregoing and can perhaps recall actual instances in which portions of it have been borne out by experience. In addition
there has been much experimental proof. However, only a few
of the more important experiments can be cited here because
of space limitations.

"previously formed cognitive patterns" (beliefs and attitudes) affect perception. Murray found this born out in his experiment in which a group of girls perceived maliciousness to a greater extent in a man's pictured face after they had played a came of "murder". Leuba and Lucas found similarly that a person's mood significantly influenced his perception of moods in the people in pictures shown to him. Another investigator, Heider, reported that a person may be thought guilty of a crime, because he "looks as if he could have

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committed this crime" or because he has the disposition to do such a thing. And finally Zillig demonstrated that people tend to fail to see the mistakes committed by people they like while at the same time attributing mistakes, without justification, to persons they dislike.

PORMATION OF BELIEFS AND ATTITUDES

Another aspect of the relation between perception and beliefs and attitudes is to be found in the following passage from Krech and Crutchfield:11

A belief (and an attitude also)12 is a pattern of meanings of a thing;...It is a product of original perceptions, of the reorganization those perceptions have undergone, of the cognitions created by such reorganization, etc.

That is to say, not only is perception influenced by beliefs and attitudes but they are in turn dependent on perception for the raw materials from which they are made.

RETENTION OF BELLEN, AND ATTICUES

That about the effect of the passes of the on beliefs and attitudes? It is generally understood that there
will be some forgetting. Kroch and Crutchfield admitted
that what one knows and believes changes with the passage
of time but a ded the valuable thoughts that the effect of
time appears "...not only in errors of omission but frequently in errors of commission as well and "...facts are
created through the process of creative forgetting." Adopting the language of Erech and Crutchfield, one may add to the

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foregoing the process of "selective forgetting".

Clearcut experimental demonstration of "errors of commission" may be found in Bartlett's 4 experiment in which his subjects, when required to retell an unusual and somewhat embiguous story, tended to change the unfamiliar content into more familiar material. "Selective forgetting" was recorded by Levine and Murphy 5 when they found that their anti-Communist subjects remembered anti-Communist material better while the pro-Communist subjects retained pro-Communist material more completely. The same study also demonstrated the influence which one's attitudes have on perception, for the subjects learned poorly that material on Communism which was at variance with their views.

RE ISTANCE TO CHANGE OF PELIEFS AND ATTITUDE

to change with time, there is a concurrent tendency for them to resist change. This may be thought of as a resistance toward external influences which might cause change. Such a phenomenon is to be expected in the light of the findings of Levine and Murphy already mentioned for there, the information which was contradictory to the views of the subjects was partially perceived and quickly forgott n. Thus a see that beliefs and attitudes have "self-protective devices" 16 and that they "not only twist and warp late and thus maintain themselves but create no data for self-incorporation and thus grow in intensity. "17

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OTHER FACTORS INPLUMCING OBJ CTIVITY

It is obvious that the rater's judgement of the ratee is of little value unless the former individual has been acquainted with the latter one sufficiently long. Yet, as warned by Burtt, 18 there comes a time when, as the length of the acquaintence increases, the accuracy of the ratings decreases. Burtt ascribes this phenomenon to, (1) the natural reluctance of the supervisor to imply that his subordinate has not improved under his leadership, and, (2) the equally natural tendency of the supervisor to identify himself with the older subordinates who are more nearly like him in a c and experience. Stockford and Bissell found mathematical proof of these tendencies and commented, "...the longer one has known another, the more acceptable becomes the other's personality."

Another aspect of acquaintance affecting the accuracy of judgements is that determined by the conditions under which the acquaintance was made and saint ined. A supervisor's attitude toward a subordin to whom he knows only on the job is likely to be quit different from his feelings toward one with whom he associates while off duty. Experimental support of this generalization may be found in Eillig's decentration, alread, mentioned on page 12, of how people tend to overlook mistakes made by persons those they like.

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Relative Difficulty of Judging Different Traits

It has been found that raters can juige some traits more reliably than others. This phenomenon may be attributed to factors inherent in both the raters and the qualities being considered. The raters, due to their own disparate cultural backgrounds, may be uncortain as to the exact meanings of the terms used on the rating forms, or they may be doubtful as to just what overt behavior indicates the presence of a given treit. Then considering the traits, one finis that those which are simple and less complex. and those which cause behavior culminating in tangible results, are more accurately estimated than are the complex characteristics, or those which leave little concrete evidence of their existence. Stockford and Bissell reported, for instance. that "dependability" and "quality of work" were more reliably judged than "morale" and "cooperation". 20 These results support earlier similar findings of Hollings orth. 21 A further difficulty attributable to the traits themselves is touched upon by : tagner in the words, "Things waten have the same name are not necessarily the sand e.g., courage in facing a wild animal is not the same as courage in facing adverse public opinion."22

Generosity hrror

When it comes to describing their fellow men, human beings are essentially kind. Lisson²³ found this in connec-



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all here were either one against wall being some and die some noticed that objects the compression and askertished neithful fortune our season on opposit to dampatch control of the being resolutions, the patent, our to their yes diamerate when from not up or clareson to be printed to Leading not the past of agency under our me over more and for branch Springly on the part when you'd belowies the boundary in the best of the property of and alliest his polyableses and allest seein a by none Flore was time alone or sold soul tory and for sufficient reliable and publication reference recent realize acceptance workstands before not not made and animales afertaness over well to asserte atmosco attest appet being asserte as catalymale arisoners timestage the Pissell reputer, for instense, the "department of the "posting" and "posting of the of Deep man of the "contractions" but "slight said bridge -ort & In diversalibility agaring will be appreciated as a proper at sorteemed return and or observances and polyton built not been during applicably pattern and all company or own designed week his common arms pand and this second our me week tone conseque prized in expense to make out for all feature this a god the other bline

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rating system of the U.S. Arry. His resulting comment was,
"Though not a necessity or the logic involved, the elitens
which tend to be used nost often, i.e., are generally 'preferred' by raters in describing others, are invariably nore
favorable items--nice things to say." Cronbach named this
tendency "generosity error" and added, "It is common to find
60 to 80 percent of an unselected group rated 'above average'
because of the urge to speal favorably if possible.24

Error of Central Tendency

Related to generosity error is the tendency of the rater to mark a ratee about whom he has insufficient information "average" or near "average" rather than confess his lack of kno ledge. Guilford²⁵ named this phenomenon the "error of central tendency". Unquestionably, when forced to mass as to the qualifications of an individual, one will enjoy the greatest probability of being correct if he messes that the ratee is average. But service ratings should be based on observation and judgement and guessing is out of place.

Logical Error

Many raters will reason that because the rates exhibits a certain trait to some degree, he also possess certain other traits to a similar degree. To their way of thinking, all of that particular group of traits are really the sale thing or at any rate, the constitute a sindrome. And the series of the series o

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fuch thinking is fallacious and se are injected to Grome for focusing attention on it and aptly naming it "logical error".26

There was some indication in the "tockford and lissell study previously mentioned, that the relative proximity of certain traits on the scale will have an influence similar in effect to logical error. In other words, the judgement made on a trait affected slightly but measurably the judgement ments made on adjacent traits. The authors stated that "...the differences in the inter-correlations between ratings of the same traits varied from +.Ol to +.26 depending directly upon the change in proximity of the traits from one scale to snother......27

Halo

"halo" effect. It leads the rater to an use that because his general impression of the rates is cod (or had), the rates's showing in all, or in a majority, of the traits on the rating scale is good (or had). Halo is generally deplored by anthorities in rating, with one exception, and, as will be discussed in the next chapter, much design effort has been expended on the problem of how to prevent or minimize it. The enception referred to above is talter V. Bingham who feels that, to some extent, a halo effect is acceptable and proper, indeed inevitable. In support of this belief he wrote, 28

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tions to the candidate are in question. He is but tyrical of others......wo will react to the subject, not as a bundle of isolated traits, but as a person with certain duties. The judgements and responses of all these people will unconsciously and inevitably manifest a halo effect, which is, in part at least, valid.

Differences in Purposes of Raters

than reproof in most situations. Definitely greater motivation resulted from praise among school children in an experiment reported by Murlock. Sophisticated raters are a are of this phonomenon and, unless they guard against it, they may allow this knowledge to influence their ratings to the extent that they give higher marks than are deserved on the basis of performance. Some may even go so far as deliberately to give higher markings in the expectation that such marks will spur the ratee to greater effort. The rater would describe this practice as "giving the ratee something to live up to" and would seek to justify it on the ground that he was improving performance by boosting the morale of the ratee.

The effects of fru tration have been demonstrated experimentally and well reported. The individual subjected to frustrating circumstances has the choice of resorting to either adaptive or maladaptive behavior. Desirable form of adaptive behavior which are not likely to be encountered in the rating situation include such effects as intensification of

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effort and reorganization of one's perception of the problem. Maladaptive behavior in the rating situation probably would include such adjustments as aggression, regression, withdrawal, and rationalization.

Many raters, even those lacking in formal psychological education, are cognizant of the possible results of frustration, at least to the extent that they recognize that, though frustration may cause increased effort, it may cause instead, withdrawal or quitting, Realization of this may lead a rater to leniency in rating because of a desire, or preference, for relying on the known good effects of praise rather than risking the induction of the meladaptive response of withdrawal by imposing the frustrating experience of a low rating.

Differences in Standards

It has been said that "Individuals differ with respect to almost any human attribute to are to measure." Private standards of comparison are a personal attribute, a component of personality, and, therefore, will be found to differ from one individual to the next. Like other personality factors, attendards of comparison are a product of the individual's innate characteristics and all the countless influences of his environment. The importance here of differences in private standards of comparison lies in their influence on the rater's judgements. Variations in the standard of comparison obviously will be reflected in variations in measurements.

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SULMARY

We have seen that the service rating process is an stempt to measure an aspect of personality. It does this by having the rater endeavor to describe and record his perception of the ratee. The point was made that perception is likely to be particularly biased when judging people. Inducing this bias are such powerful psychological influences as the perceiver's memory, imagination, elotions, belief's, and attitudes. The interrelation between these factors and perception wa. discussed with emphasis on the process in which. (1) beliefs and attitudes, formed, as they are, from biased perception, are retained and further biased by solective and creative forgetting and. (2) subsequent perception is rendered further biased and selective with the result that beliefs and attitudes tend to grow in strength. Further discussion described how inaccuracy in service ratings can come from long or friendly acquaintance between rater and ratee, variations in the difficulty of julying different traits, the innate desire of most on to speak well of others, differences amon, raters in the results they hope to achieve with ratings, and differences among rater in stanish of comparisons.

This is the meterial and these are the conditions with which the designer and constructor of aproleo rating devices and procedures must work. He is attempting to measure that which is difficult to define and which, in the

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present stage of development of the science, can be measured in no other way. He is using as ejents, creature those performance is unreliable and whose purposes in rating often differ. And finally, he is measuring against differing standards.

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PART II

Chapter 2

DEVICE: AND PROCEEDING IN

In the quest for a solution to the difficult measurement problem discussed in the preceding chapter, many different rating forms and procedures have been tried out. However,
they are all similar in that each is essentially a means of
obtaining a written description of the rates in terms of
traits or behaviors presumed to be indicative of the presence of those traits.

GRAPRIC RATING SCALE

The most wilely used rating form is the graphic rating scale. In its simplest form as shown in appendix A, it consists of a list of traits with short lines or graduated scales opposite each trait. One end of each trait scale represents possession of that trait to a maximum degree while the opposite end corresponds to a linimum degree of possession. The form is used in rating by "checking", or otherwise marking, a point somewhere along each trait scale which is judged to indicate the degree to which the rates possesses the corresponding trait. This builds up a description of the rates in terms of the traits marked.

As stated in the foregoing, the ends of the treit scales represent maximum and minimum possession respectively of the indicated traits. But most graphic rating forms go

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plant may be some not applicately but of being at the parties of t

go further than this. It is common practice to provide guidance for the rater in his choice of the spot to be checked on each trait scale. Varying degrees of pessession of the traits are indicated by distributing labels along the trait scales. The number of labels is usually three or five but it may be more or less than this.

Symonds1, writing in 1924, reported that the more mature and interested judges, when the trait was a well defined one such as "nestness", could profitably use a scale of seven class intervels, whereas, when the trait was a vague one such as "tact", or when the judge were in ature or lacked interest, only five or four class intervals could be clearly distinguished. Symon's approached the question from the standpoint of e ploying the number of class intervals which would provide maximum reliability by reason of full use of the judge's powers of discrimination without refining the scale beyond the point where those porers would cease to be effective. He accepted as permissible a los. of reliability of 1.000% due to coarseness of the scale. From calculations based on this, he concluded that "In constructing scales for rating traits of personality the optimum number of class intervals is 7."2 Guilford declared that the optimum number of scale divisions is five, while a lore recent discussion by Ghiselli and Brown offered the comment, "The best that can be done is to discover empirically the optimal number of steps for each scale."4

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one same was twee parameter they be necessary and the same one well first of none played best house proposed forderested none broad the same of the same of the party of the same of the s sized a and plotstives there promises as done on Aspire of new places this paper assessment and a could never be workered many many and made up "Space" at more one suggests bloom adversarial newspecture or read with a property bound on produced and demanding the angle of the property of the Land "from the assumption by resident and addition by training and add out of To make us coldingles makes of deep time min the was specially and designated by account when my new day on the same different blance transport standar standard or other test and purpose allows that parties will be a proper to the parties of the parties to cond a placetime, or housewest in particular of or easier CONTRACTOR OF LANGUAGE OF RESIDENCE OF THE SERVICE OF THE PARTY OF -Constant there have been an year, on their that the free and referencethe section for return waters of proposition are opidious over out that the agree Sourcement Branch of adaptions and to see Person's word of allow a will all arministrate against the product contribute." AND ADDRESS OF THE PARTY OF THE Could'te and will selected a recorded at all other parties of this year. Separate days not made to be because The space on the trait scales between labels may be graduated to permit finer distinctions between ratees. However, the value of these smaller subdivisions of the scales is deprecated by many for the same reasons given above for not using too lany class intervals.

The labels used may be merely evaluative terms such as "excellent", "good", and "fair", but the preferred practice is to employ descriptive phrases which define what is excellent, and what is only fair. This conforms with the findings of experimenters, to be liscu sed more fully later, that letter results are obtained on rating scales in general which make use of secriptive rather than evaluative terms.

"coring the Graphic Scale

ly the responsibility of the central personnel agency. It may be accomplished in any of several was, the est common of which ill be referred to as, the profile method, the direct calculation method, the graphic-co-putation method, and the machine method.

The profile method. In this plan the merking are converted into a profile by simply connecting by traint lines the points checked on each trait scale or by constructing a similar figure on a specially properly profile sheet. Such graphic presentation of the individual scores of all the rates may be compared with standard profile, and the individ-

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uals may be ranked in accortance with the degree with which their profiles approach the standard.

Profiles are useful in determining the suitability of an individual for a position for which the most a tisfactory profile has been determined. However, their use would not be practicable when comparing the ratings of large numbers of individuals, or when any of a number of profiles would be satisfactory for the job, as would probably be the situation in the rating of Naval officers. The writer knows of only one attempt to determine the most satisfactory profile or profiles for Naval officers. It is being corried on in connection with the ladership studies being conducted by The Ohio thate University under contract with the department of the may. These studies will be discussed in their bearing on "criteria" in the next chapter.

The direct calculation method. Mating systems using this method provide the scale values, according within and apace for computation and totalation directly on the rating blank. It is a little used plan, he ever, because most rating procedures involve scoring in a central office where the calculation second, keys can a conveniently furnished separately, thus simplifying and reducing the cost of the rating blanks. An additional consideration is the desirability of emitting from the rating blanks any indications of the relation values of the individual traits to avoid the possibility of their influencing the rater.

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The archie-computation method. In this procedure the marks on the individual traits are transferred into numerical values by measuring along the scales in millimeters or other suitable units. These individual trait scores are compined, in accordance with the scoring may, into an overall score. Burtt⁶ described this method and a refinement of it in which stencils aid in picking off the scale values.

times become time and energy consuming to an excessive degree. This detrects seriously from their usefulness to the Navy.

The machine method. Then large numbers of ratings are processed, scoring by the International Lusiness Sachines. Corporation's scoring mechine is not only quick and scourate, but also economical. In order that this spaces may a used, the marks must be placed on special scoring sheets, in the small spaces provided, using special "electrons hie" panells. As the sheets move through the machine at the rate of about 500 per hour, electric brushes pass over the said ratio of the penell marks. These impulses actuate the scoring and tabulating mechanisms of the aschine which produce the sought after scores. The special scoring sheet may be separate from the rating blank or, as in the case of the army's new rating, shown in Appendix K, the two may be printed on the same piece of paper. 7

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Types of 'cores

The overall raw scores obtained by any of the foregoing methods can be presented in any of several forms. They
may simply be recorded as numerical raw scores or they may
be translated into letter scores such as A. B. C. D. or h.
etc. Other possibilities are percentile scores, standard or
a scores or simply rank order positions.

The numerical score form is not a highly regarded and result. Authorities generally feel that the precision presently attainable in rating is not sufficient to live manning to differences in numerical scores unless those differences are relatively large. Tiffing marms against recording total ratings numerically in values covering a side range and adds that it is better to use ratings of A,B,C,B, and I than to try to explain why one man is read 240 and another 240 on a scale covering a range of 250.

Banking is a simple procedure and is easily understood by everyone, but it suffers from one important shortcoming. Burtt calls attention to this weekness with the words, "There is nothing to indicate whether the stee between successive pairs of ranks are equal or otherwise,...".

The percentile score and the score have med to recomend them. The former is restil, innerstood and, in a
cense, and two preentile scores are objectable. However,
one must receiber that a difference of five percentile units
near the didde of the distribution of scores effects less

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difference in ratings than the same difference in percentile units at either and of the distribution. Thou a less easily understood by the person who is not familiar it the science of statistics, a scores are free from this difference in value between the middle of the distribution and the ends. Further, all a scores are fully comparable ith each other and they have added utility in that they can be averaged.

Teighting of Traits

It is obvious that some qualities are fore important to success in any particular job than are others. Recause of this it is usually desirable to a opt a system of scoring in which the write on the wore important trait are unde to "count fore" in the overall see than them on the less inportant items. This weighting is accomplished by multiplying the marks on selected traits by numbers (selected before computing the overall score. Usually the weights are into error greater than unity.

The magnitudes of these sultipliers are sterrined by expert judgement. Persons experienced in the requirements of the job for which a rating system is being designed, are requested separately to easign what they consider to by the proper weights within a prescribed range of values. The mediens of such judgements, not sally "rounded off" to the nearest integral value, become the official scoring of his.

Large described the use of this procedure in an actual de-

difference in particular boar the size illustrates in presently makes at alternative at although the statistic colors and the statistic colors and the statistic colors and attained at the statistic colors and attained at the statistic colors and the states and states

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desired one or relating our last nearly of allege of the series of and an arrange of the series of an arrange of the series of a series of the series of the

The appropriate of a secretarial for the analysis of an appropriate of the appropriate of

sign situation. 10 Another convenient bethel involves having the experts list the job's principal traits in the order of their importance. From these neminations welches as be derived, based on the frequency with which each trait is mentioned. A third method was used by mauftli whose group of experts used the "Aquel Appearing Intervals" technique of L. L. Thurstone in choosing their weights. It is readily apparent that in each of the three fore of precedures, assignment of weights is based on the "face validit," of the traits being considered.

Burttle effered a fourth method of determinin, according weights based on the reliability with which the traits may be judged, 15 that is, the extent of concurrence between two judges in estimatin, the saw trait of the sequence of agreement between successive estimates of the same trait by the same judge. He argued that a mighly reliable truit may be liven a nearly weight on the assumption that, since it is difficult to determine vehicity, it is better to deal with the more reliable traits. Or eaver, if the judges can agree more closely among the silves on one trait, then on others, the former should be given more weight not because they reliable traits.

The writer questions the estrablity of essiming well has on this besis. Unfolbtedly it will tend to i prove

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the reliability of the reting device, but, although validity is dependent upon reliability, heavily weighting an unimportant trait seems likely to undermine rether than bolster the total validity of the rating. Consider a hypothetical extreme situation in which a trait which can be estimated with great reliability (for instance, with a coefficient of reliability of +.95) but which has absolutely no relation to proficiency on the job, has been included on the rating form. That possible value has it, no matter what weight is assigned?

Meed for Control of Leighting

Unless special processions are taken, the different traits may become weighted in a manner not intended. "If you are not considering the variability of the ratings on each trait," wrote Tiffin and Musser, "the trait of least important actually may be receiving the heaviest weight...
... hen combining accres-- regardless of the nature of themselves automatically in proportion to their respective variabilities-- standard deviations." If Tiffin a tip subsequently discussed this phenomenon more fully and gave examples showing how the standard deviation affects the weighting, even to the extent that a completely inaccurate overall rating may result.

The authors 15 recommend control of weighting by transforming trait raw scores into z scores (standar, scores) which,
as they explain, may be multiplied by the weights without fear
of inaccuracy resulting. These weighter z scores may then be

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totaled for each individual to obtain his overall standard score.

A simpler device for correcting scores and thereby controlling weighting was suggested by Guilford in the form of a scoring stencil with divisions spaced unevenly. The spacing would be based on the difference between a normal distribution and the average of the actual distributions of the scores.

Advantages of Graphic Scale

The chief sdvantages of the graphic rating scale may be briefly stated as follows. First, it lists all of the traits which are important to the job and thereby insures consideration of each. Second, it is easily understood by raters and ratees alike. Third, if it is not too lengthy, it may be filled out and used without an excessive expenditure of time and energy. Fourth, it is relatively easy to score by hand and is easily adaptable to machine scoring. And fifth, it provides a specific picture of the ratee's strong and weak points which is useful to the ratee and to management, as has already been discussed under "OBJICTIVES OF MATING" on pages 2 and 3.

Disadvanteges of Graphic Scale

The graphic scale, though extensively used because of its important advantages listed above, is subject to nearly all the errors of a parchological origin that are likely to occur.

Failure to obtain spread of scores. The most readily observed shortcoming is the failure of the raters to produce

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a spread of rating scores. That is to may, they fail to obtain anything approximating a normal distribution of scores. Thorndike wrote, " ... the variations in any single trait are usually continuous. ... the variations usually clu ter around one and only one type. 17 He was referring to, (1) the fact that most people will show a trait or a quality to an avorage degree or very nearly so, while a few other people will be above or below average, and only a very few will be greatly above or belo average and. (2) there are no steps or classe but rather, a continuum in the listribution. The matheastical expression of this distribution is the Gaussian "boll shaped" curve. / through treatment of the characteristics of this curve may be found in Adkins18 or any standard statistical text. Psychological literature is replete with further discussion and accounts of experimental demonstrations in support of the normal distribution theory. Similarly, most discourse, on service rating devices and procedures advance the view that properly made service rating scores will rather closely approximate a normal distribution.

an interesting exception to the unant ity described above may be found in the discussion of sercie ratio, by Mosher and Kingsley. 19 These writers feel that the so called "Jeurve" type of distribution is to be expected for merit rating scores and, soreover, is quite proper. Their arguments are based on claims that the behaviors recorded are institutional behaviors and the population dealt with is a selected

-so up list part , or or hi must always make to demonstrate the arrivable expenditures a normal distribution of manuals. over place appears were no contract or the contract and a sector and a sector over on the tip of the section and the section of the se yes otherwise and we will prove him the last two family NAME AND POST PARTED TAXO A SPECIAL OF STREET AND STREET AND SEC. above sport of a state on these was the or small orders not find only the or place here according to the owners on the note on my made (by your consist only on every through not exceed to be built in marking the same representations are AND DESCRIPTION OF THE PERSONNELS OF THE PERSONNELS AND PERSONNELS. Annual to a series of the series of the series of the series of the series of strike the back. In the Color of the Street and the about received the supplemental and a supplemental and property and and the supplemental and a supplemental I AND RELIEF OF THE PROPERTY AND PERSONS AND THE PROPERTY AND PERSONS AND the expension the everyth prices appropriate the everything course Like nevers positive entrance when dispersing their rate and source. smooth officers from a special course planed works

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one.

In saying that there is a failure to produce a spread of scores, reference is made to the tendency of rater, to mark all r tees high. This tendency results in a skewed distribution which, if we follow the consensus of psychological opinion, disagrees with reality and makes necessary special procedures to prevent uncontrolled weighting, as was mentioned earlier.

The problem of reliebility. The very form of the graphic rating blank tends to increase the reliability of the rating. By requiring the separate consideration of each trait. the tendency to rate on the basis of a recent event, an attitude, a preconceived notion, or halo, is minimized to some extent. It is generally agreed that the resistance of the graphic form to halo effect may be increased by arran ing the individual trait scales so that the favorable labels elternate irregularly from the right to the left ends of the scale. Jucius 20 recommended also elimination of all graduations from the trait scales (leaving only the labels) and spacing these labels unevenly. These measures will force the rater to read the labels on each individual trait scale and, it is reasoned, consider each trait more carefully before marking. Burtt21 end Guilford22 suggested that the blank be designed to cause the rating of all rates on one trait befor the next trait is considered. For any considerabl number of ratees this would require a separate sheet for each rates for each trait.

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The province of religious like year from all the greeand to griffly any reservoir or court made nations when selling the requirement was anywhere the profession of applications where on a family process is not a party of possions and the at least ordered series, or tally to william to your any 26 manufalters and board being affine and of its animals. per of the fall of the period of the following by a period of the first -course always of Charge at a cold by ordere always described and the law will be the wing our we pay to the sent of the problem. part self-many fit to midespecie only between the part of ments principles our (effects or the principles) deliver diese and Lain of These oil away halls syrum maner to read to read process of the glore where there's the letter when the street and Dispute and the contraction of the latest disputations and the contractions and the contractions and the contractions are the contracti NAME OF PERSONS OF SOMEOUT OF SOME OFFICE AND PERSONS OF THE PERSON OF THE PERSON NAMED IN their year my council when you me contact the by making out while the contract of the cont Labour case not perfect take the past of the service at extract Prints

The obvious objection to such a plan is its cumberso encas.

Another practice which will bring the reter to love thoughtful consideration of the rating is to require that each trait mark be substantiated by a brief account of the rates's behavior on which the mark is based. A variation of this plan used by some, provides for a notation of the individual trait mark was based on actual televier or on subjective judgment.

ficers (and described more fully in a succeedit, enapter)
strives for accuracy by using a standard booklet for each
ratee in which may my may observations of significant behaviors are recorded by check-marking in appropriate spaces.
At the end of the period when the formal ratio is to be made,
the consensus of the running record is transferred to a graphic scale wheat which becomes the official ratio.

the meaning of the trait named has be reduced by substituting for them phrases descriptive of the behavior which will indicate the presence of those traits. This will also tend to reduce the difficulty due to lack of knowledge by the rater at to what evert chavior he pay take as an indication of a particular trait. The superiority of descriptive phrases over trait names was demonstrated by Stockford and bissell superiority may be found in the writings of Merble 4 who concluded that,

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"while it may be end frequently is a metter of censiderable debate whether an employee is 'resourceful' or not, it may be relatively more simple to agree on whether or not the employee engages in certain observable activities with all by agreement a component part of resourcefulness."

The problem of validity. Validity is sou lit by, (1) using traits which relate closely to the jou and which are il portant to success in it and, (2) by taking the rating device and procedure as reliable as possible. Criteria against which to check validity are sally inadequate in most cases, as will be discussed in the next chapter. Consequently paychologists are denied the lexury of selecting items empirically and must rely on the judgement of experts for this function. Their hypothesis is that if items which are judged to be valid (and which therefore must appear to relate closely and importantly to the job) can be reliably rated, the overall rating will be valid. Cronosch! declaration that, "Jbservations by impartial observers are enerally accested as velid if they can be note reliable."25 illustrates this view. A more precise statement of the relation between relf bility one validity, and one which further emphasized the importance of the former to the letter, was given by Adkins the wrote, "Thus it is clear that, except for chance factors, the validity coefficient of a test cannot exceed the square root of its reliability coeffi i nt. "26

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(1) you send to thinken of thinking the sequent with with the last one and the planets where the past of th Appearant to success in to soly fell by senting the railing dowhich adverted to entrance on objective as managing has not passes where he are stable to the passes he was nothing an expense. AN ALTE DE CLEARING de Par pall magners, Consequenty payer -althoughes one property for paring of these are architecturewhich the rate and advantages to descripted that we place have not place Agency Toolto opposite an east of trace within any purple have the selly lead to the an experience which a policy of the latter of water many new party and new too watering property can wrome will prove the very property of the same of the party of the as because of temperature share-were now passengly assured as severe and resembled the productive new or any past to other cellication consent tentants on the population delicated American not received our party resident reliefs really and have the threeparticular and successful and provided and the successful and the stately but present number was number problem and an or marge to the maps on people make that I be marked and if the OTA PROTESTANO SILIPARE OF

PORCED TITE INTERNATING

tribution have led to the use of the "Porced is tribution" in connection with the graphic scale is shown in Appendix A. For this technique a number of categories from best to poorwat is established and the percentage of rates and may be placed in any category is prescribed. Then rating, each rates is considered in terms of a single trait and then placed in the category seemed proper. Then all have been rated and categorized in one trait, the process is repeated for the remaining traits in turn. An overall score may be consulted from the ratings thus performed. Tiffin suggested the following distribution for a rating of this type: 27

Category Percent e of r tess in the entegory

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Next highest	20
diddle	40
Next lowert	20
Locat	10
Tot	tal 100

As shown in Figure 1, page 37, this distribution approximates the bell shaped curv of the normal distribution.

If conscientiously executed, the forced distribution system will tend to give a one valid spread of scores, provided a large number of a teck are rated by the saw after. However, where the number is not large, it is probable that the erit of the uployees under any one supervisor till not

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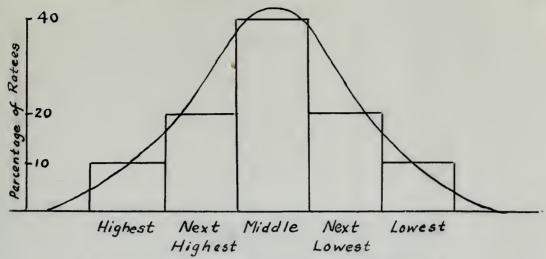
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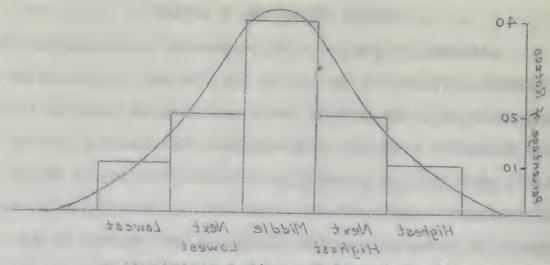
Categories of Prescribed Distribution

Figure 1

A DIAGRAM SHOWING HOW PRESCRIBED DISTRIBUTION APPROXIMATES NORMAL DISTRIBUTION

cover the entire range from best to poorest when compared with the merit of all the other employees. If such were the case, a skewed distribution for the ratings of one or more of the supervisors would be proper and any plan to force normal distributions would work an injustice.

The assignment of Neval personnel is not entirely a randomized operation, particularly when detailing officers, and it is probable, therefore, that there will be differenced in merit of the officers in one command from those in another. Further, the program of rotation of duty frequently changes the membership of groups of officers. Lecause of this, any plan of forced distribution is unsuitable for a Navy rating system.



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It is known that rates find it role lively an ier to arrange their autorite in order from a to prove than to rate their using the algorites or descriptive cars as of the usual graphic scale. This procedure of recking is and as a formal rating procedure in some cases and it known the "Rank Order Nothod".

hanking may be concerned only with a single overall quality such as "jeb performance" or "premotability", or it may be performed on each of several trait in succession. It is not afflicted with the error of the skewed distribution since it presents the ratees only in the order of their excellence relative to each other without regard as to now many are actually "excellent", "ave age", or "poor".

This system suffers from the same dissipants of and unsuit bleness for Navy use discussed for the sorced listribution ystem. In addition, like all systems of rading, this plan is based on the erroneous area stion that the difference between any adjacent pair of ranks is equal, or may be treated as equal, to the difference between any other sijacent pair (see passes, quoted from Eurtt on page 27).

PATIND CUTATIONS

It is relatively easy to choose which of several men is the sest and which is the poore t but, at one approaches the sean of the distribution, discrimination second for difficult. An aid in this situation is the method of "Paired

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Comparison in which each individual is compared in turn with every other, in the group being rated, and a judgement is made at each comparison as to which is the better. From these judgements a reliable rank order can be constructed.

As in the Mank Order Method, rankings may be obtained on a single overall quality or on a series of specific traits. An application of this method to an actual rating situation was described by Lawshe, Kephart, and McCormick. Ratings were obtained with a reported average reliability coefficient of .83.

vantage in that it offers a means of determining the relative values of the differences between adjacent pairs of ranks.

Thurstone and later Guilford described in detail the process involved. It is a workable and satisfactory procedure for scaling items for use on an attitude scale but is likely to require too much time for practical use in scoring ratings. Furthermore, the product of this method of rating is an order of ranks, which, as we have discussed, shares with the Forced Distribution, a real risk of injustice to certain ratees.

There is a serious disadvantage attached to the Paired Comparison Method. Guilford commented that it takes too much time and is "wearying" to the judges, and reported that a German investigator, L. Titmer, in 1894 criticized the method, after trial, also on the grounds that "it took too much time". A subsequent group of investigators have express-

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ed the contrary spinion, however. 32

Mathematicians have shown that then any certain number of objects are to be paired each with ever, other in the group, the number of separate pairings is given by the formula: 33

$$\frac{n(n-1)}{2}$$

where n is the total number of objects to be compared. Thus if only 10 ratees are to be rated by this method, the number of separate comparisons will be:

If comparisons are to be made on more than one quality, the total number of comparisons will be increased accordingly.

Despite the technical excellence of the Paired Comparison Fethod, its custorsomeness prevents side use of it and, coupled with its inherent risk of injustice to certain rates, renders it unsuitable for Navy use.

MAN TO VAN SCALE 34

The Man to Man Scale was developed by the Bureau of Selesmenship Research and put to extensive use by the U.S. Army in 1917. It was discarded in 1920 for the graphic scale and is mentioned here only because it served as the prototype from which the graphic scale was developed.

The Man to Man device required that for each trait or quality, the rater set up a master scale listing the names of actual persons known to him arranged in the order of their

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and quilling one can't error on when my us for accelling the suffering of comparisons will be insepared to viscous favor Daughte has recently accomplished at the Palent Comparks a lietory to conscionante prevade stde use of It starces of subbooksi in oney towards oil dily believe the relate, retilers 15 months le for four rets

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to first man not their burnings matrix, and or the set of where our partyle of the narrow of the source and participations when to notice and of Aspertua and my separal memory famous for rates with these master scales and assigning him ranks or score equivalent to those of the persons on the several master scales whom he rescubled the most closely in traits.

The task of constructing these master scales proved too laborious and this led to the adoption of the graphic scale which substitutes for the comparison of the rates with a master scale of actual people, a comparison with a scale of standardized traits or descriptions. This difficulty due to the master scales is a real disadvantage in the practical situation. Because of this and because there are better ways of rating one's subordinates, the Man to Man Method is not suitable for Mavy use.

CHECK LIST

In 1927 Probst³⁶ began research to develop a new type of rating. The result has been described as a "check list" because of its form. As shown in appendix A, it presents a series of descriptive statements with provision for the rater to check-mark those which are applicable to the rates. Scorting weights have been determined by experiment for each item and the sum of the weights of the items checked, when placed in the scoring formula (also developed by "trial and error") 37 yield a numerical score which is converted by use of a table into one of ten letter grades.

A number of trials of the device using populations ranging from N = 20 up to N = 3039 show a consistent ability

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agelications putter soften and to state in a security

tions rather well. 58 Peliability coefficients of +.78 when H was 475 and +.918 for a scaller group were reported 39 while validity coefficients, with supervisor judge canto as criteria, range from +.36 to +.77 for laborers 40 and from +.43 to +.78 for seventy-eight public health nurses. 41 An extraordinarily high validity coefficient of +.922 was reported for thirty nunicipal probation of ficers with conference ratings as the criterion. 42

A report of a more recent use of the Probst type of scale has been made by Knauft. He constructe? two similar forms and obtained a reliability of +.87 for one of them 45 and a validity, with supervisors' judge tent as a criterion, of +.59 for the other.44

In discussing the Probat scale, hite wrote, "The evidence indicates that satisfactory results can be secured with it." 45 Mosher and impoley also relard the system favorably though they warned of "serious technical weaknesses" in it and hiscussed they at size length. 46 They criticized particularly the method of choice of scorial weights, the values of scorial weights assi ned, and the frank (and apparently successful) attempt of Probat to design a device which ill live a nearly normal distribution of scores.

hecently, Probat has explained his choice of acoring weights and methods more completely and has reiterated that he dill not set out to force his device to render a nermal

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distribution. Instead he reported, "The sole sim was to e-volve a scheme that would place an employee in the service group that would be generally recognized as correct for him." 47

COMBINATIONS

The never ending search for improvements in rating devices has led to combinations in the one form of two or more methods of ratine in the hope that a summation of advantages would result. The addition of the forced distribution provision to the graphic scale has been discussed already. It is usually achieved by dividing the scale into vertical columns each headed by the proper categorical designation as shown in Appendix A. The instructions for the raters using such a form may make it maniatory that the distribution be followed or they may only urge it.

A man to man rating may be included on the combined form. If such is the case, the rater will find instructions to compare the rates to a list of a prescribe number of individuals known to the rater, and whom he must rank in order from best to poorest. As a result of this comparison, the rates is to be assigned a rank equal to that of the individual on the list whom he most closely resembles in traits.

Further attempts to obtain validity include requiring the rater to indicate whether, under some specified difficult situation, he would prefer to have the rate with him, be herely satisfied to have him, or actually prefer not to have him. The subject is also approached from the direction of

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requiring the rater to express his feelings regarding promotion for the rates under each of several hypothetical conditions such as, (1) a large percentage of his peers are to
be promoted, (2) a moderate percentage are to be promoted,
and (3) only a small percentage are to be so rewarded.

ment may be required or invited. In this the rater has considerable freedom to set down anything of importance which may be relevant and which has not been covered sufficiently in the other portions of the rating. This is the most subjective portion of an already too subjective measurement but most authorities feel that it should not be omitted. In addition to eliciting information which might otherwise not be brought out, it has the beneficial effect of giving the rater the feeling that he has not been regimented excessively and has been allowed to express his own opinion in his own way. This is likely to be a more important consideration as rating techniques of a more truly objective character are devised.

POOLING AND REVIEW OF MATINGS

Plural rations. The well known principle that the resultant of assessments by several judges can be more accurate than an appraisal by a single judge is used in many rating programs. "The reliability and validity of ratings," wrote Guilford, "increase with the number of judges." An example of the effect of increasing the number of judges was reported by Bradshaw as follows: 49

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Trait	Coefficient of Reliability	+.75	+.20	+.85	+.90	÷.95
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• 3	No. of raters	- 0	5	7	10	more men
3	No. of reters	- 5	7	10	18	33
4	Mo. of ratera	~ 7	3	15	61	44
5	No. of raters	- 5	6	9	14	29

Fuch plural judgements may be made and combined in conference into a single appraisal or they may be made separately, without consultation, and then averaged. Proponents for either procedure can be found among the authorities in the field of rating.

Pavoring the conference plan are both NacCullough 56 and Yoder. 51 The latter exhibited the extent of his enthusiasm by urging rating by committee even if necessary, because of lack of additional supervisors with the requisite knowledge, to include as members of the ratin condittee fellow employees of the ratees.

On the other hand, both Tiffin⁵² and Durtt prefer to secure the advantage of pooled ratings by evers in, ratings made individually, and without discussion. Durtt wrote: 53

It has been shown in various connections that greater validity is obtained by averaging independent estimate, then by having judges sit to, there are consisted and make a joint estimate.

Elsowhere⁵⁴ Burtt reported that in a study of pooled judgements, when the judgements of twelve jude were each correlated with the criterion the sverage of the twelve correlations was +.37. However, when the same to live judgements

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were combined into a single figure, this composite judgement correlated + .46 with the criterion.55

Probat's scale and accompanying instructions indicate that their designer agrees with Tiffin and Burtt. Spaces are provided opposite each item on the scale, for check-marking by three raters. The directions promise that better results will be achieved if the second and third raters will cover the columns containing the check-marks of preceding raters and perform their own ratings uninfluenced by those marks.

Review of rations. Neview at higher conclons of rations made at lower levels is another possibility for improving judgements. As mentioned above, the Probst scale provides for rating by three persons, with the instructions recommending that the raters make their judgements in inverse order of their seniarity. Although, as explained above, it is intended that each perform his task innocent of any knowledge of what his predocessors have done, obviously the knowledge that the ratings performed by juniors will be compared with ratings made by their superiors will have the effect of "review at higher echelons".

The U.S. Army, the U.S. Air Force, and the U.S. Civil Service each follow the practice of review at night levels.

Spaces are provided on their respective rating forms for the action and signature of the reviewing official. The Civil Service in addition requires that ratings be reviewed and approved by a committee.

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nection of local levels is double; positively for importing all saids of season and against and a complete the double; positively of the complete above; the levels and project and project and partially of these partials, with the levelstantiffer assessmenting as the positive assessmenting as the positive assessment and their said and the positive as applicable of the positive as a positive a

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Army investigators conducted experiments to determine the value, if any, of review of ratings. They found that the validity was improved a statistically significant amount and therefore included the review procedure in their new program.

The practice of requiring substantiating statements, (see page 34) though its primary purpose is to cause careful thought by the rater, may also be considered a measure to facilitate review. This is true even in a system in which ratings are accepted and filed as made. The substantiating statements will aid the central personnel egency in evaluating the ratings, attaching significance to those on which the substantiating statements indicate accurate ratings and giving less consideration to those on which the statements fail to support the marks given.

MITT APPROACH

The product of a relatively new approach to the problem of rating was placed in regular use by the Army in 1947. It employs the forced choice technique principally and, consequently, has come to be known as the Army's New Forced Choice hating. It is the outcome of nearly two years work by a group of psychologists in the Army, suring which they had the advantage of carefully controlled tests of the device in rating almost 50,000 officers. The results were reported to be quite good and the device was declared, "definitely The section galaxy are a modulated as principles and principles of address to exclusive to address to the section of agent and address to the section of agent at any agent and address to the section of agent at any agent and address to the section of agent at a section at a sec

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superior to any other yet devised and tested in fulfilling the requirements of an adequate rating system for Army purposes---.**87

The forced choice technique had been used with some success in personality measurement. The Jurgensen Classification Inventory and the Shipley Personal Inventory being notable examples. Their purpose, which they achieved to an acceptable degree, was to secure a true measure of an individual's personality despite the tendency of most people to conceal what they consider are undesirable or socially unacceptable aspects of their personalities. This technique for forcing the respondent to reveal his personality was adapted by the Army psychologists to forcing the rater to reveal his real opinion of the rates.

A more detailed description and discussion of the forced choice ratin, will be found in Chapter 4, P. T. II.

HUMD OF TRAIT.

has been concerned with attempts to improve reliability and validity by refinements of rating devices, design of different rating methods, and by various combinations of method and device. Mathematically it has been shown that increasing the length of a psychological measuring instrument increases the reliability and validity. The formulae showing these relations are as follows:

(a) The general form of the Spearman-Brown prophecy

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particular environment and he could be seen up (a)

formula for predicting the reliability of a test of increased length is: 58

$$r_{nn} = \frac{nr}{1+(n-1)r}$$

In which:

rnn is the predicted coefficient of reliability of the lengthened test.

n is the number of times by which the test has been lengthened.

r is the coefficient of reliability of the test before lengthening.

(b) The general formula for predicting the validity of a test of increased length is: 59

$$r_{(nx)y} = \frac{r_{xy}}{\sqrt{\frac{1 - r_{xx}}{n} + r_{xx}}}$$

In which:

r(nx)y is the predicted coefficient of validity of the lengthened test.

rxy is the validity coefficient of the test before lengthening.

rxx is the reliability coefficient of the test before lengthening.

A basic assumption underlying the above formulae is that each item of the lengthened instrument measures some relatively unique quality. Mathematically stated, the assumption is that the items correlate low with each other.

In favor of a reduced number of traits. There is a feeling that rating scale items generally do not meet this

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requirement of uniqueness. Lawthe, in describing the helo effect, wrote that the tendency of raters to mark an individual about the same on each trait "suggests that the many different items are, in reality, measuring about the same thing..."

The seventy-seven raters participating in the study reported by Stockford and Rissell reacted to only three basic factors (technical proficiency, mental proficiency, and social proficiency) even though the rating scale they used was made up of considerably more than three items. A factor analysis by Ewart, Scashore, and Tiffin of 1180 ratings made on a twelve trait scale caused the investigators to combine that, "worker competency could be rated on one or possibly two 'traits' as well as it is now rated on the basis of twelve 62

The case for a larger number. An answer to such criticisms can be found in the writings of both Bingham and Probst.
The former, in reply to the question of why raters should be
required to record trait ratings when they correlate so closely with the final overall estimate, declared: 65

... an overall judgment is more likely to be correct if made after the rater's attention has been focussed successively on several of the candidate's specific traits.

Probet has condemned what he calls "Overloaded Factors", items on rating scales which are too all-inclusive such as "Quality of Tork". 64 Moreover, Ewart, Resshore, and Tiffin did not close the door completely on multitrait rating scales. After

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reporting their findings as described above, they called attention to the specificity of those findings and advanced
the hypothesis that improved ratings would be possible on a
multitrait scale which was made up of a number of unique itoms. 65

Looking at the field of physical science for a noment, one will recall that an accurate measurement in that sphere is not the result of a single observation, but rather, it is the average (or some other measure of contral tentency) of the results of several observations. It is quite possible that the use of a ratin; scale which employs rating on twelve or more itsus to measure "one or possible two" factors of worker competence is a similar process of averaging the results of several observations.

The writer was unable to find reports of any satual reliability or validity comparisons between rating scales which had been shortened, because of the findings of a factor snulysis, and the long forms of such scales. A comparison of that nature would be a fruitful research project, it is believed, and the writer submits that any judgement as to whether a short or a long rating form is the better should await the outcome of such a test.

A final consideration in favor of a multitrait scale emerges when one realizes that a rating on an abbreviated scale of one or two factors will afford little information on which either management or the employee can base action leading to improvement of the latter. For instance, one of

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the factors isolated by Evart, leashers, and liffin as "Ability to do Present Job". Is it likely that manage ent or the
rates can do much toward improving the rates in this factor
unless his specific chartcomings as related to job performance
are known?

The importance of the rating in a ployee improvement was stressed early in this thesis (pages 2 and 3) and it will receive further attention later in connection with the treatment of the practice of showing the rates his rating and discussing them with him. No design feature which seriously limits the usefulness of the rating in the important function of employee improvement should be adopted.

Practical considerations. Should the rating scale designer resist the blandishments of the advocates of the abbreviated scale and plan a meny-itered device to sid the thinking of the rater, as suggested by Binglan and by Probat, and to provide a basis for employee improvement, he must, nevertheless, quari against making his scale too long. He must give due consideration to the very real factor of cost of the form and of its administration, and he must have care last he induce a perfunctory attitude in the raters by foisting upon them a form which requires an excessive amount of their time and energy.

ADMINISTRATION OF WYING PROJUCE

Showing ratings to ratees. Implicit in the objectives of rating is the requirement that the rates see his rating.

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Halsey, 66 Yoder, 67 and Probst, 68 in common with many other authorities in this field, have agreed that provision should be made in every rating progrem for the employees to see, or be informed of, their ratings. Scott, Clothier, Mathewson, and Spriegel also recommended a post-rating interview between rater and rates and proposed the following statements for the rater to complete in planning the interview: 69

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The	re is n	othing	more I	can do	for lin	because	
Rem	arks:						

More recently, Armstrong wrote of the post-rating interview. 70 After some discussion, he proposed the form shown in Figure 2, page 54, to be printed on the rating blank and to be used in preparin, for the interview. In addition, he offered the suggestions for actual confluct of the interview shown in Figure 3, page 55.

The should rate. Obviously he has has the most accurate knowledge of the retee should perform the rating and no disagreement relative to the statement as loiced here will be encountered. He ever, the question often arises as to whether it might not be better to utilize ratings made by the ratee's peers or his subordinates instead of those performed by his superiors.

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There is a general feeling that ratings by one's peers, the so called "buddy ratings", are more accurate than supervisors' ratings. Army psychologists used "buddy ratings" to standardize the Army Forced Choice rating form 71 and subsequently, Wherry and Fryer reported finding clearcut superiority in "buddy ratings".72

An Army study reported by Bittner showed that 78% of a group of 1800 Army officers preferred not to be rated by officers of equivalent rank while 77% of these same 1800 officers preferred not to be rated by their juniors. 78 If these attitudes are typical, it seems likely that rating by one's superiors will continue as the usual practice and there remains only the problem of selecting as the rater, the superior with the most adequate knowledge of the rates.

Mental evidence obtained to answer this question, sutherities writing in the field are generally in accord in their recommendations. Halsey 4 and Probet, 5 for example, recommended ratings twice each year, a routine, with more frequent ratings in special situations such as a repidly expanding or shrinking or anization and net or probationary employees. Probat suggested in addition, that ratings be performed on employees about to be transferred. Both men oppose the practice of allowing an excessive period to clapse between ratings, warning of the denger that the raters' memories will be unequal to the test which will lead them to give undue weight

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Rating the reter. It has been suggested by some that poor raters be identified and relieved of the responsibility. A capacity for correctly judging subordinates is certainly a desirable attribute of one in authority, and in the light of that consideration, the performance of a rater may be seen as one measure of his success as a supervisor. Further, ratings of raters would be an aid in rater training just as ratings of employees are helpful in employee training.

Probat recognized the need for locating the incompetent raters and pointed out how his rating system will facilitate this. 76 Yoder discussed "rating the raters" in connection with his plan for correcting ratings to a comparable basis 77 and White proposed statistical analysis of ratings in order that, "... inexpert or careless rating officials can be confronted with the sometimes foolish consequences of their lack of care. "78

TRAINING OF PATERS

with technical improvements and design of rating devices and procedures as they relate to the struggle for increased reliability and validity. Valuable as these elements are, most authorities agree that the nest significant factor in a successful rating plan is an adequate rater training program.

Turning to the writings of white one finds the following passage: 79

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It is indeed now generally held that the form of the rating instrument is less important than thorough training of the rating officers in the art of evaluating subordinates.

Bittner, 80 Knowles, 81 and Tiffin, 82 to mention only a few others, voiced similar views, while Driver 83 even went so far as to advocate the retraining of raters at intervals.

Effect of training measured. In 1945 the research section of the Army Adjutant General's Office conducted a carefully controlled experiment to determine the results of rater training. The population of officers, who were to act as raters, was separated into higher echelon and lower echelon categories and organized into control and experimental groups. After all subjects had performed sample ratings (which were correlated a ainst certain criteria to determine validity), the experimental roups were liven a two hour course of instruction and practice in rathm. Upon completion of this training, all the members of the central and experimental groups rerated the individuals they had evaluated in the preliminary operation. Correlations between rating validities showed a slight and consistent, though not statistically significant, gain for the higher echelon officers but showed no consistent improvement for the lower echelon officers.84

The experimenters commented, when discussing the small improvements obtained, that their subjects were all experience i raters who could not be classified as untrained, and conse-

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quently, the effect of training could not be expected to appear as marked as if administered to untrained raters. To the writer it seems that the relatively small effect of training experienced raters seen in this study would tend to weaken Driver's recommendation that provisions be made for retraining raters at intervals. 85

Effect of certain rater qualities. A more recent study by Stockford and Bissell revealed that training in rating reduced the susceptibility of raters to bias and to halo and increased the reliability of their ratings, although it had little effect on the rater's leniency. Other interesting data were obtained when several qualities of the raters were measured by standard psychological tests and correlated with various aspects of rating performance. The higher the rater's mental maturity, the more reliable, less lenient, and less biased will be his ratings. Moreover, as one might expect, the more intelligent raters profit more from the rater training. Lastly, the higher the rater's Persuasive Component and his Administrative-Supervisory Interest factor, as determined by the Kuder Preference hecord, the less lenient and biased will be the ratings made by him. 86

It appears then that the logical assumption that rater training is a valuable adjunct to a rating program is borne out by test. Therefore consideration of what material should be included in a rater training program is in order.

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Substance of Rater Training Program

The decision as to that should be taught rests on the determination of what are the most common rater errors, since it is toward the correction of those that the program should be simed. Pecause the most frequently occurring raters' errors have been enumerated and discussed at some length in the preceding chapter, they will not be detailed here. Instead the discussion will be limited to the training program proper.

The purpose of rating. The most suitable starting point in the rater training program is emphasis on the role of the rating device as a measuring instrument. In this connection, the objectives of rating, as discussed on page 3 and 4, should be made clear to the raters. The concept of the rating as a means of personal reward or punishment should be climinated. The value to the Mavy, and the Nation, which will accrue from a well designed and properly used rating system should be atressed. Conversely, the harm to the Mavy, and the Nation, which will result from a rating system which has been invalidated by its use as a retard or incentive should be impressed upon the raters.

Theory of normal distribution. The theory of the normal distribution and its relation to individual differences should be explained. xamples of actual studies which demonstrate its truth should be cited. The absurdity of the feeling that Naval officers but be "above average" to be of value to the Naval Service should be shown. If these points are

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clearly and convincingly made, significant progress towards enhanced reliability and validity will have been schieved.

Psychological influences. The more important psychological phonomena which influence the reters should be identified, described, and discussed. The reter should be informed of the effects of these forces and warned of their subtle nature in order that they may be on guard to minimize their consequences.

Meaning of terms. Explanation and discussion of the meanings of the terms used on the rating form are important. The instructor should make frequent use of examples and anecdote to clarify his explanations. Having the student raters take turns at composing descriptions of fictitious, or actual situations which illustrate the meanings of the terms will be especially beneficial. Successful teaching of this section will do much to eliminate the difficulties of differing standard of comparison as well as minimizing errors due to misunderstanding of terms.

Practice ratings. Learning by doing is conceded to be the most effective type of learning when the amount of learned material retained and the ability to apply this learning are the criteria. Consequently, no rater training program would be complete without practice rating. A suggested procedure is to require the student raters actually to perform ratings on real persons or on the basis of anecdotal records. These anecdotal records may be of real or imaginary persons but

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should be so selected that they bring out the many fine points of the ratin problem.

Comparisons and correlations of the ratings on the same persons would show their reliability or lack thereof. Tubsequent discussion and further practice would bring improved rating performance.

Practice rating would have the added beneficial effects of:

- a. Familiarizing the meters with the forms and pro-
- b. Atenderation of the meanings of the terms used on the forms.
- c. Elimination of or reduction of differences in standards of comparison emong the raters.

RATING DIE. OF THE IN

In the preceding sections of this chapter an effort has been ade to describe and evaluate the not common types of rating devices and procedure together ith descriptions of the more important relivant expert opinion and experimental evidence. From this study there elements a body of principles of good service rating design and administration. The relainier of the chapter will be devoted to the compilation of this information.

Principles Applicable to Devices

Bias and objectivity. The rating device should embody features which aid in minimizing the rater's plas and improving

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his objectivity. Further, it must eliminate insofar as possible, errors due to misunderstanding of terms and to differences among raters in standards of comparison. These objectives are best served by the forced choice type of rating. However, if the expense of preparation and maintenance of the forced choice form is prohibitive; or if it meets objection for some other reason, both the Probst check list type of form and the graphic rating scale are possibilities. If the graphic scale is chosen, it should be of the descriptive rather than the ovaluational type and consideration should be given to the possibility of requiring substantiating statements with the ratings. The various other rating processes, such as the ranking and the paired comparison methods, will be eliminated from further discussion except as one element of a combination form, to be discussed in a moment.

Malo. The contruction of the rating device should provide characteristic which will aid the rater to avoid the halo error. Here again the forced choice form is preenient. Other possibilities are the Probat acale and the graphic scale with the favorable end of successive trait scales alternated irregularly from right to left and back again. Other features include unequal graduations of successive trait trait scales or elimination of graduations altegether, leaving only the labels.

Normal distribution. An attempt should be rade to se-

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THE RESIDENCE OF SECURE PRODUCT OF A CONTRACT OF SECURE PRODUCT OF

tribution rating (which has been declared unsuitable for Navy use), the Probst scale seems to be the most successful at attaining this objective with the forced choice rating as second best. Improvement of the graphic form in this respect is attempted by dividing its scales into columns, as described earlier, and supplying hortstory instructions that the raters be guided by the columns when rating.

Statistical methods of correcting ratings may be employed. The standard score (z score) technique previously discussed will accurately convert rating scores to comparable quantities on a normal distribution. Alternative methods, one a mathematical process using average deviations rather than standard deviations, and the other a graphic process, are suggested by Yoder. 88

suitable weighting of traits in arriving at the overall score and precautions should be set up against uncontrolled weighting. (uc. precautions are best provided by the standard score (s score) method or some approximation of it.

Display of qualities. The rating should be in such a form that both the rates and management can see that are his strong points and his weaknesses. If this condition prevails, both the rates and management can take intelligent steps to correct the weaknesses. In addition, management may wish to institute procedures which will lead to selection of superior

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personnel in the future.

This requirement that there be an intelliable display of the rater's qualities is sest met by the traphic rating scale, though the Probst scale is a possibility. The
forced choice form is poorest in this respect since by its
very design the true nature of the rating is concealed from
rater and rates.

Combinations. It is common with military rating forms to include two or more method of rating in the same rating instrument. On the basis of custom and logic, experimental evidence pro or con not be no available, the practice should be continued.

Traits to be excluded. The rating scale's raison d'être is the fact that certain qualities of non are measurable only by judge ent. If a better method of measuring there certain qualities existed it would be only like to dispense with ratin scales and use the better method. Conversely, it is wise measurement policy to exclude from reting scales there qualities which can be measured better by more objective man. Included in this cetegory are such entities as "health", "intelligence", "accuracy", "speed", "volume of production", and "attendance". hile "personality" has defeated all attempts at accurate objective measurement, it is too large and all-inclusive a quality to be entrusted to the limited capabilities of reting scales.

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Administrability. Mating instruments and procedures should not require excessive time and energy to employ and administer. This requires that the forms be of a convenient size with easily readable printing, and that they not require an excessive number of operations. Scoring side such as templates and stencils, or better still, machine scoring, should be provided. Finally, the data produced by the device should be readily obtainable from it in an easily used from.

Principles Applicable to Procedure

Conference with rates. Definite provision for discussing the rating with the rates should be included in every rating program. The rates should be shown his detailed rating, complimented on his strong point, and sympathetically and constructively counselled on means of overcoming his weaknesses.

The should rate. The consensus is that the superior he has the most intil to knowledge of the rates is the an who should rate him. here more than one superior is available with adequate knowledge, the rating procedure should be designed to take full advantage of the superiority of several judges over one. Tither a conference rating or the average of several individual ratings may be used, but the latter is the more accurate.

How often to rate. Informed opinion suggest that so immual rations are sufficiently frequent except in a the organization is expanding or contracting rapidly, at high time a shorter period, usually three months, between ratings

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is recommended. In addition, it is believed that new members of the organization should be rated more frequently, because, (1) they are likely to be changing more rapidly as they learn their duties than are the experienced employees and, (2) more frequent ratings will provide a sounder basis of evaluation during and at the end of the probationary period.

Review of ratings. Where practicable, advantage should be taken of the tendency of raters to give more thought and care to their rating tasks when they know that they may have to justify their judgements to their superiors. This is best done by some procedure for formal review and endorsement of ratings.

Training of raters. A rater training pro rea should be maintained which not only acquaints the rater lith the mechanics of the u.e of the form, but import some understanding of the ore important theories underlying rating.

Rating reters. Just as employee rating is a tool for employee improvement, so ratings of the raters (by the authorities in the central personnel a ency and althoughte lies ion with the rater training program) will be a useful tool in improvement of the raters.

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PART II

Chapter 3

CRITHRIA

Importance of Criteria

Measurements are merely comparisons. It is impossible to conceive of a measurement that is not a comparison for such would be meaningless. In the physical sciences comparisons can be made between the physical entity being measured and a measuring instrument, which in its design and construction has already been compared with a standard, which in turn has been compared with a more refined standard and so on, back to the fundamental standard, the criterion. Measurement in the social sciences requires standards also. Here too, one must have something with which to compare his measuring instrument (a criterion) in order to determine the accuracy of the instrument.

Inadequacy of Available Criteria

In general, criteria available to social scientists have not been as reliable and valid as those at the disposal of the physical scientists. This has been particularly true in the field of measurement of executive ability, which is the area in which this study of officer efficiency evaluation is concerned.

Criteria of reliability. Normally, the reliability coefficient of a rating device will be deter ined by correlating AT THE . . .

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the results of one of the following alternatives:

	er-: ive: Ratings made by.	: Number of : ratings. :	Forms used.
etad bilara mare, austra-al dia anti-al arganism	: Both by the same : rater in each in- : dividual case.		Two different but comparable.
2	: By two different : raters.	: Two :	Same form for both ratings.
3	: Same Paters.	: Two spaced some: time apart. :	Samo.

Typical coefficients of reliability. Yoder has set r = +.75 as the minimum reliability coefficient which should be telerated. By performing the following calculation of forecasting efficiency: 2

we see that Yoder's limit requires that the rating device be reliable only to the extent that the likelihood of two consecutive ratings of the same individual being identical is 33.9% better than chance. That is to say, Yoder's limit requires that the reliability be such that one has 33.9 chances in one hundred of predicting what a second rating would be. Although rating designers have enjoyed some success in exceeding this minimum, none has seen fit to propose raising it.

Probet reported finding a reliability, in one case of ratings of 475 employees, of +.72 and added that this was typical of the experience with his device. Other investigators, to mention only a few, have reported reliability coefficients from their studie, as follows:

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Richardson and Euder⁵ +.85 to +.90 (N = 830)

+.83 (N = 305)

Lawshe, Mephart, and

One of the highest coefficients of reliability for a service rating likely to be found is the r = +.92 reported by Tiffin. It is significant that the system which yielded this high figure employed "systematic corrections" to equalize "rater tendencies" and independent ratings of each ratee by several raters. Only the designers of the U.S. Air Force officer rating system, see Chapter 4 of PART II, report a higher coefficient.

Criteria of validity. The followin passage from a recent book by Lawshe describes the situation in this area succinctly and well:8

... A Survey of the literature yields little evidence of successful validity studies in the executive brackets. This is no doubt due in part to the extreme difficulty attending the setting up of adequate criterian groups at the executive level, ...

This problem of absence of criteria arises from the very condition which makes it necessary to depend on mere judgement in this important field of measurement, i.e., from lack of a better method of measuring many of the aspects of executive performance. To secure a criterion, one must in some way, identify and isolate a standard of executive performance. He must select a definite sample of executive per-

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formance, that is, measure a finite quantity of it. Except when measuring certain qualities such as intelligence, aptitudes, and health, judgement is the only recourse in accomplishing this appraisement. The result is comparable to the outcome of an attempt to test the accuracy as to length of a "one foot" ruler which you have made, by comparing it with a friend's estimate of how long "one foot" is.

The frustrating condition described in the preceding paragraph has led Cronbach to the hopeful remark quoted earlier that, "Observations by impartial observers are generally accepted as valid if they can be made reliable."9 Too often this is exactly the situation which provails. But, in the writer's opinion, it is an unsound position to adopt. It is quite true that validity depends on reliability, that there can be no validity unless there is reliability. The mathematical statement of this relation is shown on page 40. But it is not true that because the measurin; instrument is reliable. It is therefore a valid messure for the particular quality being considered at the moment. Again we may look to the realm of physical measurement for an analogy. If a reliable ceasure is also necessarily valid, then a ruler will yield valid linear measurements even if through some inadvertence it had been made actually too short. Obviously, this cannot be, for though readings obtained with it were uniform, they would be non theles incorrect.

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Typical criteria of validity. Many investigators in this field have relied simply on face validity and reliability, as described under the graphic rating scale in the preceding chapter. Obviously no coefficient of validity is available from such studies since the reliability coefficient
cannot be substituted for it. Those experiment ro who have
strengted validation proceedings have utilized, in most cases,
some other form of rating as the criterion. A "validity coefficient" of a sort is produced by this process but its exact
value may be open to some doubt.

Numerous examples of the velidation of one rating by the use of another as a criterion may be found in the literature of rating. Consider Probat's recent book on the subject. 10 He described his criteria as "supervisors' judgements" and reported correlations between his rating device and these as validity coefficients. A few of these are shown in the following table.

Page	6	Validity	3	Humber of cases	2	Criterion
78	:	+.66	:	25		Ratings by super-
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78	*	+.84	8 0	32	2	Average of judge-
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79	8	+.77	2	22	:	Average of judge-
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Another and loss extensive this of validity using many visors' judges no selections are reported by Knaw't.ll He obtained validity coefficients for two separate rating devices of +.87 and +.60 respectively.

Lating by peers as criteria. The search for validity criteria has led to use of the sociometric method. 12 This is the "buddy rating" procedure or the "neminating technique" so often entitled to current writings on erit rains. It is a process in which the rates rate each other anonymously and, as used by rating scale designers, may result in order of rank c. a coulett ratio of each rates on a list of traits.

Torrelation between the result of rating on the new rating device and the result of the haddy rating all produce a validity coefficient.

nation of poor have been stoutly defended by marry and Tryon. It or, herry is one of the psychologists sho perticipated actively in the work of design, construction, and atomiar lisation of the Arry Forces or olde ratio device, and it was in this work that builty ratio a were extensively used. If

Arry inal Corps Officer Candidate School at Son to Someouth,

Now Jersey in 1945 and involved to separat classon, one containing eighty-two men, the other only fifty-to. Oth buildy
rankings (no instions) and buildy rather were obtained and compared till ratio by juntor officers and senior officers on
the school staff. Correlations were also obtained but sen the

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buddy rankings and ratings and the results of certain selection devices, namely, an officer candidate (high level intellagence measure) test, several personality measures, and ratings
by for er superiors. In addition, it was determined by factor
analysis that all ratings were loaded with a heavy leadership
factor.

The results led the authors to conclude that:

- (a) "Buddy retings appear to be the purest measure of leadership."
- (b) Buddy nominations (ranking) "are equally good measures of leadership."
- (c) "Nominations by class appear to better be measures of the leadership factor than any other variable."
- (d) Buddy nominations correlated more highly with all the selection devices, except intelligence, than did scadenic grades.
- (e) Buddy nominations and ratings both measure accurately after a shorter period of observation than rating by supervisors. That is, one's peers form accurate judgements of one more quickly than do one's superiors.

An Army study of buddy renkings in Officer Candidate chool at Port Penning, Georgie yielded a aplit-halve reliability coefficient of +.90 for a class which had been in being for five weeks and +.72 for a class of three weeks. 16 Correlations between the buddy rankings and the platoon officers!

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rankings were as follows:

- (a) For the five weeks class +.70.
- (b) For the three weeks class +.65.

These figures represent rether close agreement and perhaps may we explained by the fact that the process required that the raters rank only the five best and the five poorest man in each class. This eliminated the middle group where greatest disagreement as to the correct order is likely to occur.

Another defender of ratings by peers is Dittner. 17 He argued that ratings by peers are likely to be more accurate because:

- (a) Hen live and work much closer to their peers than to their superiors and thus have a better opportunity to observe each other's performance.
- (b) Men tend to show only their best sides to their superiors whereas one's peers have an opportunity to observe typical performance.
- (c) The investigator can employ the principle of obtaining multiple jud ements on the rates more effectively if he uses buddy ratings.
- Statements (b) and (c) apply equally rell to retin s by one's juniors though there may be some question as to whether one's subordinates are able to judge the value of typical performance as well as one's peers can judge it.

Ratings by peers instead of superiors. The superiority of buddy ratin a demonstrated by Therry and Pryer and Destified or speciment

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hypothesized by Dittner raises the question as to why we should not dispense with ratings by superiors and use instead rating by peers exclusively. Bittner answered this question in favor of retaining the custom of ratings by superiors when he wrote that, as was mentioned in the preceding chapter, 78% of the 1800 Army officers polled on the subject preferred not to be rated by their equals. 18

The reasons given by thes, officers were not reported but one may speculate as to their nature. It seems probable that, if an organization obtained buildy ratings as a matter of routine, the consequent feeling of being continuously watched and judged by friends and fellow worker would generate undesirable tensions among the personnel of the organization. These tensions might easily prove to be so detrimental to morale and teamwork that the ensuing loss of efficiency would out eight any advantage gained from the superiority of the buddy rating as a rating method.

Puture possibilities. The complexity of the activities and Juties of the executive has been suggested and the necessity for measuring executive performance largely by judgement has been stated and deplored. What then is the solution? Is there any likelihood that anything can be done to aid significantly in the task of judgement? Is there any possibility of a superior substitute for judgement?

One possibility of a strictly Naval application is suggested by information in a letter from Dr. Everett G. Brun-

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dage of the Bureau of Mayal Personnel recently received by the writer. 19 It is stated in this communication that late taken from the readily quantifiable items of all the fitness reports of one Naval Academy class of about thirty years experience as commissioned Mavel officers show, that the Mavy Fitness heport has "fairly good validity" in terms of predicting success before the Navy selection boards. 20 In addition, the data show that reports made on officers when they are holding the relatively junior ranks of Lieutenant (junior rade) or Lieutenant. are ore accurately predictive of the subsequent attainment of flag renk21 than are the fitness reports received while the officers are in the higher ranks. Information of this kind could not be used to validate any completel new technique or method. However, detailed analysis of it minut yield informatter which would be of assistance in an evaluation of past practices made with a view toward synthesis of the best portions of earlier fitness report forms into a new device.

Other possibilities lie in the direction of determining and considering quantitatively more of the factors which
are indicative of satisfactory elecutive performance. One of
the important indicators of the quality of executive performance
is the locale and attitudes of the rank and file of the organization. It is conceivable that if information as to the merale
an attitudes of the subordinates of the officers composing the
criterion group were considered in addition to the buddy ratings of the criterion group, a more valid criterion might be

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achieved.

In ambitious effort towar! leter ining the factors which are indicative of the quality of executive performance is the ten year project of leadership studies currently in progress on the campus of The Ohio Itate University. 22 The Personnel Research Board of the University is conducting the project and has given a statement of its purpose which is quoted in part below: 23

The purpose of such studies is to develop facts and methods which may be useful in the selection and training of persons for positions of leadership...

This group has made studies of the personnel and orgenizations of Neval shore establishments and a number of
commercial firms and it plans to continue with detailed studles of the personnel and organization of a considerable number of small Neval vessels and aircraft squadrons. Fuall
vessels have been chosen as fields for study because a greater
number of comparable unit, will be available. Briefly stated
the objectives of these investigations are to find out, (1) what
leaders do.(2) what effect leaders have on their organizations,
and, (3) what elements, other than the leaders' qualities have
affected the organizations.

If the project is successful, it should do much toward identifying and isolating the qualities which make for good executive ability and in providing improved means for measuring those qualities. An additional or concomitant product of

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the program under these circumstances would be accurate objective criteria of executive performance.

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Chapter 4

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Some Harly Mavy Forme

Information is not available as to exactly when the formal written service rating as first out into use in the Navy. However, the 1391 heport on the Fitnes of Officers shown in Appendix I is an example of one of the earliest Navy forms. It constitutes note evidence that Naval authorities have long felt the need for a means of a temstizing and recording the senior's jud events of his subordin tes. It is interesting, and perhaps a little if couraging, to note the fundamental similarity between this pioner formal the fitness report not in use in the Navy. It indicates that progress in this field has been also indeed.

of Officers proved unestic factory and changes ore add from time to time. By 1312 the fitness report for had grown to a length of four do ble-spaced typerfitten pages and required the recording of considerably more in the way of detailed and diversified information. The 1312 for we are evaluational type, although the evaluational terms prescribed for use had been changed from the "excellent", "Good", "Tolerable", and "Not been of the 1301 for to "list of words are of which was to be further solified by runerals. For example, one could not simply rate as officer "Excellent" on any liven trait,

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but must qualify the "Excellent" by adding the appropriate numeral between "3.5" and "4.0". The qualifying numerals to be used with "Very Good" were "3.0 to 3.5" with lesser numerals jown to and including "0" assigned for use with the less favorable evaluative terms.

In a letter to the writer, Dr. Everett U. Brundage of the Bureau of Naval Fersonnel wrote: 1

changes occurred after 1912. At this time numerical ratings on a scale of 0.0 to 4.0 were already used. A general "aptitude for the service" rating was also in use, and so wore the questions on attitude to and the officer's being "under your command" and toward his being promoted. Later changes in these questions were toward increased quantification. The number of specific ratings [traits] varied after 1917 from 9 in 1919 to 18 in 1921-1924, decreasing to 14 in 1928. Note that in 1922 there were different [rating] forms for see and shore duty. In general, the series of format changes in the reports indicate an attempt to force more accurate and objective ratings.

The Present Navy Form

the formidable title of the reting device in current use in the Navy. As shown in Appendix D it is principally a graphic scale lith normal distribution categories superimposed upon it. It cannot be classed as a forced distribution scale, however, as the instructions in re the distribution are merely hortstory not mandatory. Space for the usual biographical data is provided at the top of the sheet to ether lith space

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for the rates to inlicate his preference for next duty, and further down the page, for the reporting senior to make his recommendations on that subject.

Also located in this top section is a requirement for the rates to indicate his knowledge, or lack of it, as to whether he is qualified for sea duty. This refers to physical qualifications. This estimate by a layman, and not a disinterested layman at that, is of little value, in the opinion of the writer. Except then the officer has been taken ill suddenly and has not had an opportunity to seek the help of a Naval medical officer, information more reliable than his opinion is available. Bating scale authorities generally agree, it will be recalled, that qualities determinable by more objective means should not be listed on reting scales.

The next section provides ample space for reporting any particular qualifications which the reporting senior believes should be given emphasis. Note that here again a layman's opinion on physical fitness is required.

Looking closely at the rating cale portion of the form we see that it is abbreviated communication and is not completely of the descriptive type. To reover, it has no provisions for minimizing halo effect. Larlier discussion in this thesis has suggested the value of longer scale, and has shown the superiority of the descriptive scale and the need for minimizing halo.

Below the ratin; scale is a section designed to elicit

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an indication of the reporting senior's attitude toward having the rates under his command. The next section below this is designed to determine his feelings toward promoting the rates. There is also some attempt made toward evaluating the entire fitness report by securing a rough estimate of the number of officers considered by the rater in setting his standards.

Proceeding with the examination we find a provision for citation of commendatory or adverse material, space for a general overall evaluation, and a space in which the rater sust indicate whether or not the rates has seen the report.

Physical makeup. The complete form is made up in a packet of four sheets with carbon paper between the second and third and between the third and fourth sheets. The first page carries on its face the instructions to the reporting senior and on its back a replice of the complete rating form to be used as a routh work sheet in making the rating. The second sheet also has a complete rating form on it while the third has only sectional through 6 and the fourth page shows sections I through 5. All sheets require the signatures of both the rater and the ratee.

Use of form. Then the reter is satisfied with the rating he has made on the worksheet, it is transcribed by typewriter to the second, third, and fourth sheets and signatures
are affixed. (It is customary, though not essential, for the
ratee to sign the forms before the rating is see since his
signature certifies only to the correctness of the information

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he has contributed to the form.) The next step is the mailing of the second and third sheets to the sureau of Naval

Personnel for such processing, filing, and subsequent evaluation or consultation essay be required. The fourth page secomes the property of the rates when his report is mailed to
headquarters by the rater.

Some analyses of Nevr ratings. An extensive study was made in 1945 by the Training Staniards and Curriculum Division of the Turcau of Mayal Personnel:2

of officers as a possible criterion of use in validating officer selection and classification require ents.

The fitness report files of 534 junior officers who had entered commissioned service between Pecerber 1940 and comber 1942 were examined. From each file information and ected from two fitness reports, one from each of two different reporting seniors. Correlations were obtained between the various items of this information. The more significant for our purposes are given in the following table.

Coefficients of : 'ervice throughout the rereliability between : porting periods. marks by the two seniors:

Prom + .22 to + .48

: Sea duty both periods.

From +.0004 to +.18

t fee duty one period, shor duty the other.

From the above, the unreliability of the ratin a is ob-

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now superseded but, due to the fact that the currently used Navy scale is less of a description cale than form r ones were, it is doubtful if the current scale would yield significantly better results.

Cagle reported results of a stuly of the distribution of marks obtained on the current key fitness report form. His figures, reproduced below, reveal a marked divergence from the nermal listribution.

Fercenta Broup	tu 6 1	distribution):		on:	Actual Percentage
Top 10,6	:	119	\$	494	:	41.6
Next 20%	*	238	:	578	*	49.7
Middle 40%	\$	474	2	102	44 92	8.6
Lover 20%	\$	203	å	4 (°)	3	1.0
bottom 10%	:	110	4	2	\$	0.0
Totala		1188		1188		99.9

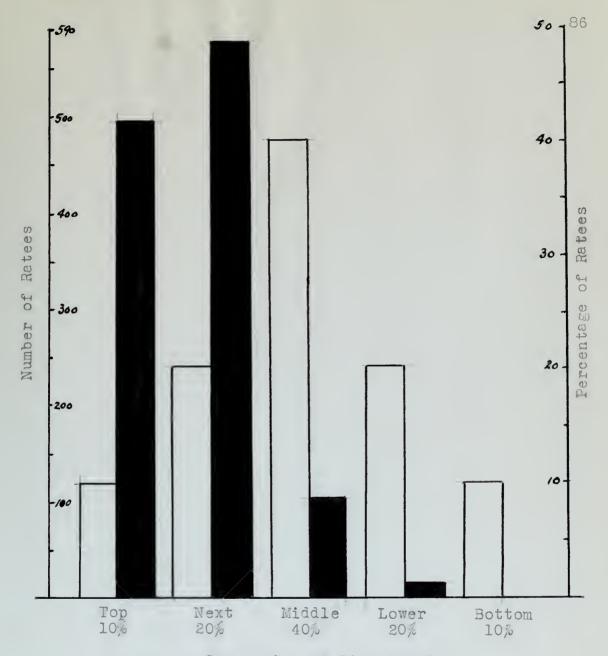
A similar study of the ratings and with the current Navy for on forty-seven Ground chool Instructors at the Navel Proining Command at sensacola, Florida as reported by Michardson, Sellows, Senry and Company, Inc., in 1948. Their figures are as follows.

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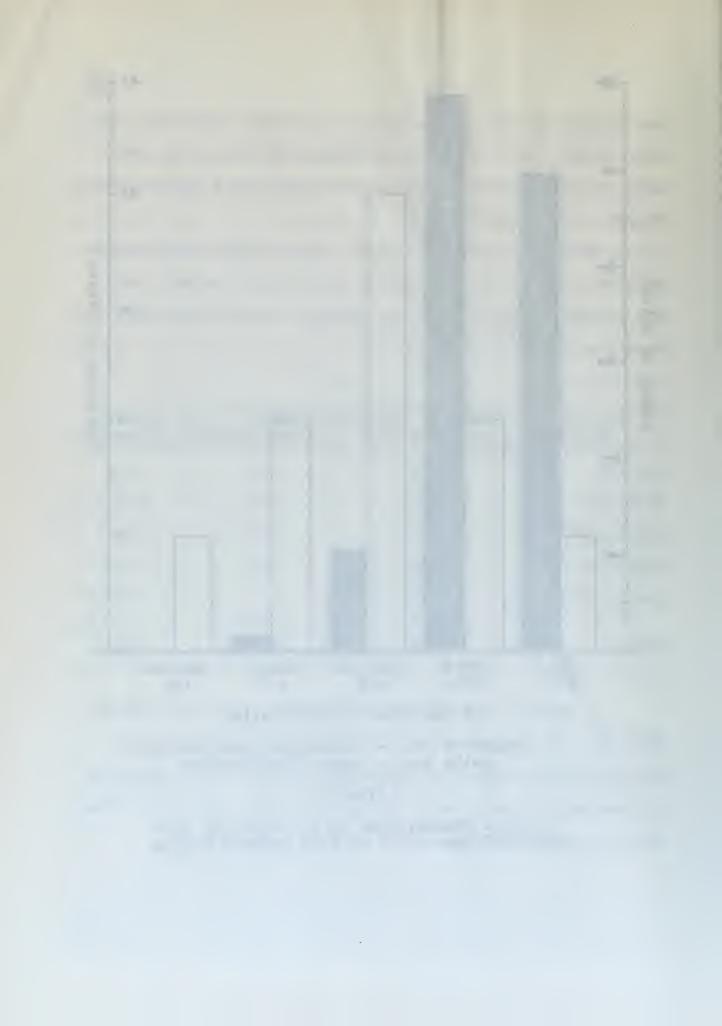


Categories of Distribution

Unshaded Bars - Prescribed Distribution Solid Bars - Actual Distribution

Figure 4

CRAPHIC PRESENTATION OF DISTRIBUTION DATA OBTAINED FROM STUDY OF NAVY OFFICER RATINGS



Percentage Group.	3	Actual Forcentage Distribution Pound.
Top 10%	b **	50%
Next 20%	*	44%
kiddle 40%	2	2%
Next 20%	:	2%
Notton 10%	:	0%
		104%

(Note: The error of 4% in the total results from an error introduced in rounding off the soll number involved when con uting percentages.)

These figures also show a marked divergence from the normal distribution.

There has been little done on validity studies of the Navy fitness report system other than as mentioned in the chapter on Criteria, page 77.

liveluation. In favor of the Mavy's for it may be said that:

- (a) The instruction, to the rater are brief and radily available.
- (b) The form is designed to reduce the labor of preparation to a sinisum.
- (c) The form has provisions for recording all information pertinent to the permanent service record of the rates except that which is determinable by more objective means (however, see items (c) and (d) below).

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(d) The form presents the strengths and weaknesses of the rates in an analytic and easily understandable form.

The Navy's rating system leaves much to be desired, however. Chief among such considerations are:

- (a) No provision is made for rater training, an omission for which the excellent instruction sheet cannot compensate fully.
 - (b) The rating relies on judgement.
- (c) The design of the form does not permit re id and accurate sorting, tabulation, and evaluation of the mata by machine.
- (d) The form attempts to elicit information on physical fitness which is one accurately determinable by other means.
- (e) The form give precious space to the recording of the rates's preference for next duty, a bit of information slap furnished to the Bureau by the rates annually, or more often if preferences change, on the OFFICIR'S DATA GARD NAVPIRS-340 (rev. 7-46).
- of the descriptive type (in this respect, the rating scales of earlier Nevy forms as shown in Appendix C were superior to the presently used one) and it provides no safeguards against the halo effect or rater's bies.
- (g) The form makes no provision for assisting the re-

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interview with the rates (see page 66).

- (h) The rating procedure does not provide for the rating being made by the superior who has the most complete knowledge of the rates. Instead, this is the prerogative of the
 commanding officer who, in a large command, may have only the
 most superficial knowledge of the rates.
- (1) The rating procedure and the form make insufficient provision for the difference in duties and qualities required of officers, depending on whether they are of the Line or staff, whether they are specialists within those categories, or whether they are in school or engaged in the duties of their respective classifications.
- (j) The procedure makes no provision for correcting or adjusting the markings to compensate for the tendency of some raters to mark high and others to mark low.
- (k) The rating procedure makes no provision for either the averagin, of the ratings made by several raters or the review at higher echelons of ratings made at lower echelons.
 - (1) There is no provision for rating the rater.
- (m) And, finally, the Mavy's rating form has low reliability and produces an excessively skewed distribution of scores.

The Army Rating Form

As hed been mentioned, the Army uses a form known as the "forced choice" ratin form. 5 Samples are shown in Appendix E. The most conspicuous features of this device are,

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(a) the forced choice items and, (b) the provision for performing the marking directly on a machine scorable sheet.

Looking at the sheet, we find it entitled EFFICIANCY
MITORT with the additional identification symbols at the bottem of the page of MD - AGO FORK 67-1, 1 Jul 47. The upper
half of the first sheet is occupied by the biographical section, followed about midpage by Section B, a space for a general overall evaluational statement by both the rater and the
rating reviewer or indorser. Next, in Section C, is a list
of nine important situations with space for the rating officer
and the indorsing officer to indicate their attitudes toward
having the ratee serve in them. Following this are spaces for
recommendations by the rater and the indorser for future duty
assignments and future training. Lastly there is a device intended to determine what experience with the ratee the rater
used as a basis for his judgements.

The reverse side of the first sheet is blank. It is reserved for the use of the Career lections of the Arms and Wervices of the Department of the Army.

The biographical I to are repeated on the second sheet followed by the first section of forced choice items, Section IV. These items are intended to sessure the rater's judgement of the rates's job proficiency. Section V of this sheet, also entitled Job Proficiency, is designed to secure judgements from rater and informer as to which of a list of seven specific positions the rates is, or would be, most proficient

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in and which is the second most suitable job from the point of view of his proficiency in it.

On the reverse side of the second sheet there are two sections designed to determine the personal qualifications of the rates. The first of these, Section VI, consists of forced choice items. The other, Section VII, lists six personal qualification items with spaces for the rater and indorser to indicate the degree to which the rates exhibits each.

Finally, there is an attempt to determine where the rates stants, in the opinion of the rater, relative to the other officers of his rank who have been rated at this time by the rater.

Physical makeup and use. The army rating form is a leaflet of two pages with dimensions of 9 inches by 11 inches and arranged to open from the right ed a like a book. It is not equipped with carbon paper but its construction makes it easy to insert a piece when typing in the biographical data, the only entries which require duplication. As mentioned earlier, the sheets are madine scorable. Thus, if the marking is performed with an "electrographic pencil" as prescribed, the reports may so scored by machine without further processing.

There is provision for the signatures of both the rater and the indorsing officer but not of the rates. Moreover, there is no requirement that he be shown his rating. It is true that the meaning of the markings on the forced choice sections will be known only to the possessor of the scoring key in the

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Adjutant General's Office, but certainly the rates could profit by seeing the ratings made on Sections C, V, and VII as these are merely graphic rating scales.

The forced choice theory. Sisson rather thoroughly described and discussed forced choice items, the theory underlying them, and the method employed in their construction. Only a brief treatment will be attempted here.

Developers of the forced choice technique reasoned that if items could be offered to the respondent in pairs, so chosen that each appeared equally acceptable or unacceptable, and further, if these items could be so selected that choice of one would be an indication of the presence of one quality or opinion and choice of the other would indicate another quality or opinion, then they would have a device for measuring qualities or opinions which could not be controlled by the respondent. The fact that although both items might appear to the respondent to be irrelevant, he must nevertheless make a choice, gave the method its name.

Army rating designers catered to the desire of people to speak well of others if possible, a desire high leads to a tendency in ratin, known as "generosity error". They arranged their item in tetrads of two favorable and two unfavorable statements with the provision that the rater must choose only one statement which is most like the rates and a second which is least like him.

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The data as to the apparent favorableness or unfavorableness of the items and their discriminatory value are determined by empirical methods.

which was done in connection with the design of the Army rating form required nearly two years to complete and yielded results which led the investigators to conclude that the new form was the "most valid" of those tested and further, it was "clearly superior" to the older for it was designed to replace. It is unlikely that any organization, private or military, will attempt so extensive a project in the forseeable future. Consequently, the Army's rating system probably will retain the distinction of "the most thoroughly tested" for some time to come.

The criterion group was obtained by the sociometric method discussed in the preceding chapter and consisted of nearly 50,000 officers. These officers were rated on several different devices including the Army form then prescribed for official use, DAGO FORM 67, and two versions of the new forced choice design. FORM 67 is described rather completely by Sisson but in general it was merely an evaluative graphic scale. Correlations of the results prompted the conclusions mentioned above but none of the correlations are as high as those reported by Probst and b. Knauft for their respective check list rating scales, (see preceding chapter). It is only fair to add, however, that the validities obtained by the Army

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investigators are based on enormously greater numbers of cases and that, whereas the Army experimenter: used buildy ratings as the criterion, both Probst and Ensuft used supervisors' judgement. It seems likely that supervisors' judgements would correlate some closely ith ratings asde by supervisors then with buddy ratings.

Army form have yielded the distribution curve presented in Figure 5, 6, 7 on pages 96, 97, and 32 respectively. 10 Although as shown by Sisson, 11 the forced choice rating gives a slightly better approximation of the normal distribution than the FORM 67 which it replaced, these more recent studies reveal that it falls far short of attaining the ideal, normal distribution.

veluation. The currently used Army form has several points of superiority. Frincipal among those are:

- (a) Ty "disguising" the nature of the marks being given, it minimizes the shility of a biased rator to make an unduly biased report.
- (b) The form is designed to minimize the labor required to prepare it, to mark it, and to score it.
- (c) It provides for review and indersement of higher authority.
- (d) The procedure provides that the rates's ismediate sup rior will perform the rating.
 - (e) No ettempt is made to lessure qualities which may

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be better determined by more objective means.

- (f) The form provides a means to indicate the basis on mich the rating as sede, thus affording information to aid in evaluating the rating.
- (g) The validity is superior to that of the evaluative rating scale.
- (h) The distribution of scores produced by the forced choice device approximates the normal distribution nore closely than Joes the distribution from the evaluative graphic scale.
 In particular, the forced choice form causes nore ratings to fall into the "average" and "below average" zones and thereby discriminates better between officers in the lower end of the distribution.

The Army's rating system has a number of shortcomings too. The for important of these are:

- (a) There is incomplete provision for an indication of the atrent coints and weaknesses of the rates. Certain portions, fections C, V, and VII, of the rating device do show one information of this kind but the two sections of forced choice items conceal their true indications from the rates and rater.
- (b) There is no provision for discussing the rating with the rates or for certifying to him that the rating has been duly made and submitted to headquarters.
 - (c) There is no provision for rating the rate a.
 - (d) The ratin; form and procedure make insufficient

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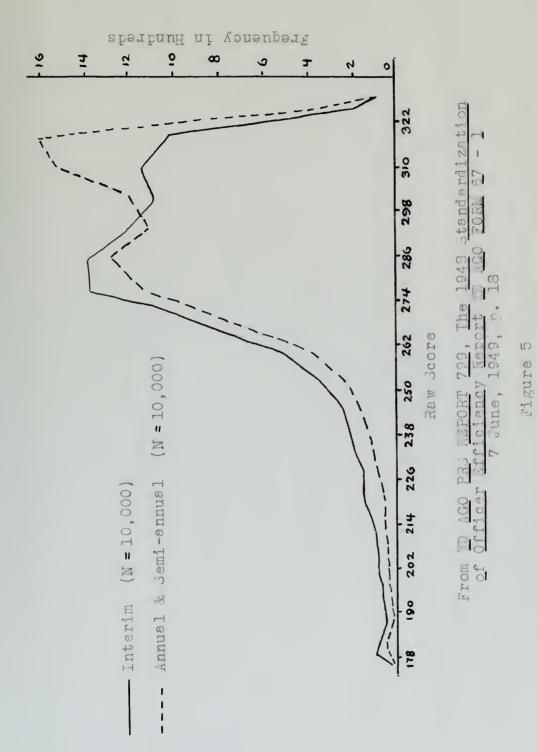
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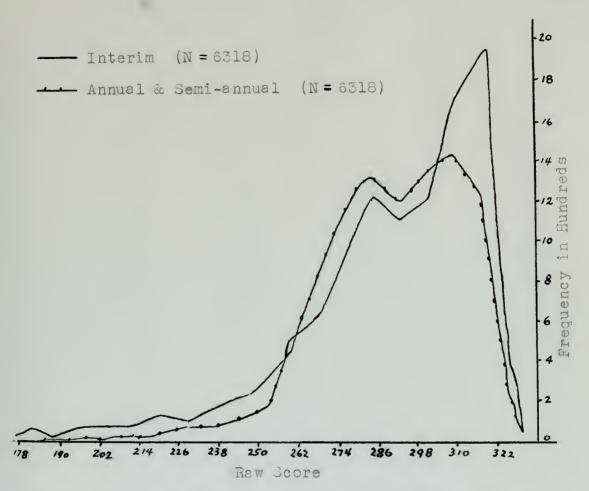
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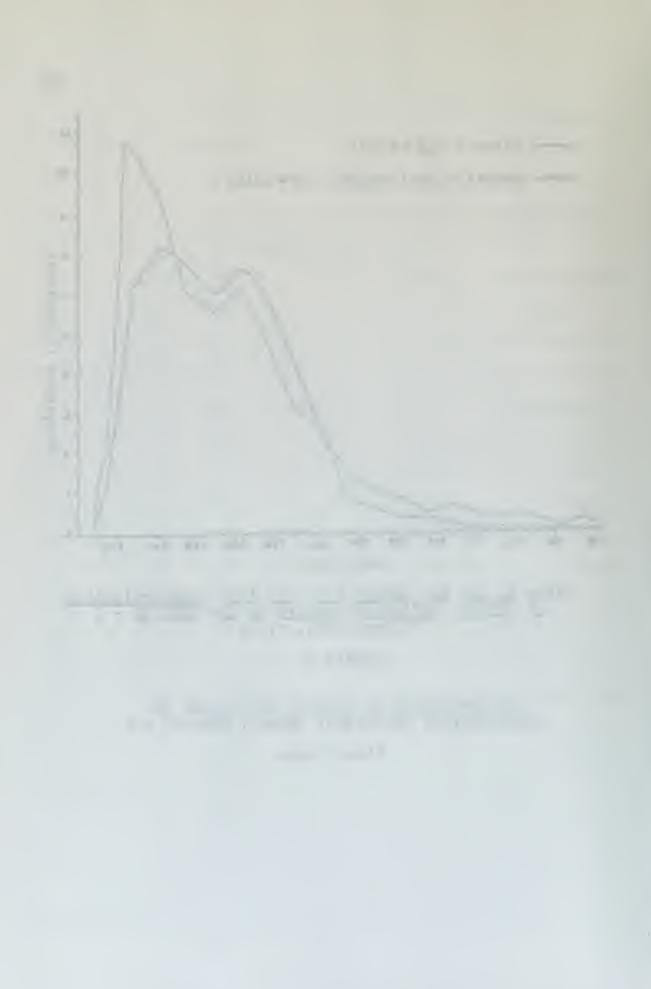


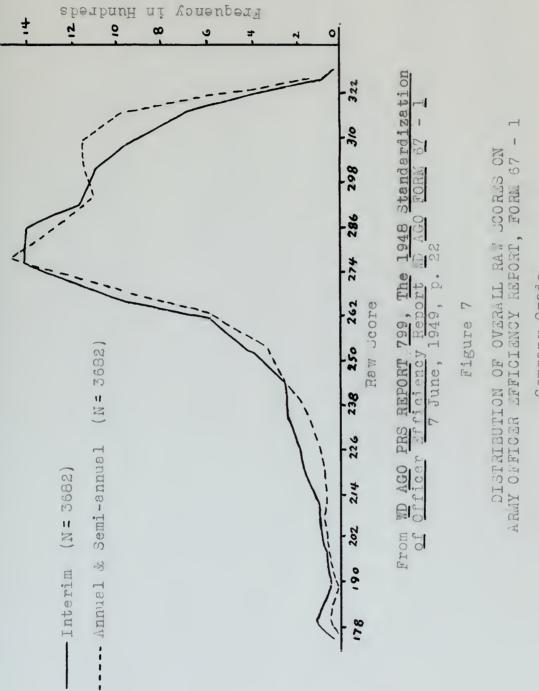
From WD AGO PR3 REPORT 799, The 1948 Standardization of Officer Efficiency Report WD AGO FORM 67 - 1 7 June, 1949, p. 21

Figure 6

DISTRIBUTION OF OVERALL RAW SCORES ON ARMY OFFICER EFFICIENCY REPORT, FORM 67 - 1

Field Grade





Company Grade



provision for the difference in duties and qualities required of officers depending on whether the are of the Line or Itaff, whether they are specialists within those categorie, or whether they are in school or engaged in the duties of their respective qualifications. It is possible, however, that the empirically chosen force choice items as a subscitically account for such differences.

The Air Force Report

The Air Force in 1948 adopted a new rating system which was the outcome of considerable research by the American Institute of mesearch of Pittsburgh. 12 It features a penghlet or work booklet, in which the rater recorns the results of observations he makes of the rates, and a single sheet rating form on which he summarizes the mate recorded in the booklet. A sample page from the booklet is shown in Appendix C.

Nescription and use of booklet. To gaine the rater in his observation of the rates, the work booklet, entitled Check List of Critical Require ents for Officer Evaluation on Report of Officer Effectiveness, lists six areas in saids proficiency, or the lack thereof, is significant. These six areas areas

- I. Proficiency in Manualing Administrative Details.
- II. Proficiency in Supervisia, Person el.
- III. Proficioncy in Planning and Directing Action.
 - IV. Acceptance of Organizational esponsibility.

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- V. Acceptance of Personal Responsibility.
- VI. Proficiency in Duty Military Occupational Special-

within each area of proficiency are listed specific observable behaviors, each divided into five degrees of competence with each degree indicated by a one digit numeral and a short descriptive statement. These specific observable behaviors are arranged in a column with the descriptive statements and numerals placed along a line opposite each as in a graphic rating scale. Thus if the later, while considering the performance of the rates in one of the significant areas, observes behavior which may be described by one of the phrases provided, he marks the digit over the statement. As this process continues throughout the period between ratings, a body of information about the proficiency of the rates is built up based on his observed behavior. It is recorded in terms of the numerals lith the figure "1" indicating minimum competence and "5" indicating maximum proficiency.

the marks in the booklet are transferred to spaces provided on the rating sheet which is a condensed graphic rating scale. The scoring is done by hand on this sheet, treating the marks with the prescribed weights.

The reting sheet. The reting sheet, which is entitled Report of Officer Effectiveness, provides space for data other than the summarized observations from the work booklet. There

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is, of course, a place for certain necessary bicgraphical information. Next on the sheet is a rather large space (nearly one half of the page) for a general overall evaluational report. Next is a provision for the specific, formal delegation of the rating duty by the commanding officer to some other officer together with a statement of the reason for such delegation. This makes it possible officially to assign the reporting duty to the officer with the most adequate knowledge of the rates. Following next is a place for the signature of the reporting officer (rater) and the commands and signature of the indorsing officer.

The reverse side of the sheet is given over to a rest. tement of the six significent areas of proficiency with space under each for entering the summarized numerical marks described in the proceding treatment of the booklet and its use. The spaces for the entries are so arranged that the secres may be calculated and sum arized on the sheet and the total entered at the bottom. Leatly, there is a small space reserved for use in telepiding the ratee's "Military Occupational Specialty".

of the work booklet to record sctual observations of significant behaviors as they occur. It is, in effect, a comprehensive graphic rating scale of the descriptive type with the advantages inherent in such a device. Lorsover, the booklet provides, to a considerable extent, for rating on the apot as

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the behavior occurs, thereby eliminating the errors due to the frailties of human nemory and securing a rating on the firm basis of actual observed behaviors.

The designers have reported a split believe reliability coefficient of +.89 using 534 ratings divided into equivalent believes. Then corrected by the Spearman-Frown formula the reliability coefficient became +.94. This is the highest reliability coefficient for a rating device which the writer has found reported. 13

Other advantages of this system include:

- (a) Limitation of the rating to qualities which cannot be determined more accurately by me objective seans.
- (b) A design which permit, quic. and one transfer of the information accumulated in the booklet to the rating sheet.
- (c) The rating sheet is designed to present the sarkingo in an analytic and early understandable form.
- (d) Provision is also for a general overall evaluation-
- (a) Provision is also made for a statement of the rat-
- (f) There is provision for formal delegation of the rat-
- (g) And finally, there is provision for the review and indors ment of the ratings.

Chief among the disadvantages of the system is the obviously unwieldy procedure of the rater's attempting to keep The contract system because present persons as the contract and the contra

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current a work booklet on each of his officer subcrimates.

It is not difficult to believe that, in actual practice, the booklets are relegated to the senior's deak drawer to be pulled out from time to time and brown the "up to late" by the process of recalling incidents to record. Although this practice undermines the plan to a considerable extent, it is probably better than the technique common in most rating plans in high the rater site down once in three months or six months, or whatever the rating interval may be, and attempts a judgement based on what he can recall of his observations of the rates during the interval since the lest rating.

Other disadvanteres of the system ere:

- (a) There is no provision for showing the rates his rating.
- (b) There is no provision for certifying to the ratee that his rating as seen substitted to headquarter.
- (c) The rating form is not legigned to take adventage of modern machine methods of coring, porting, tabulation, and evaluation.
 - (d) The system does not provide for rating the raters.
- (e) The system does not indicate the kind of experience with the rates which the rates has used as a basis for his judge-ments. That is, one cannot tell from the ratio, thether the rates was observed only in a school situation, an office situation, or in an operational position.
 - (f) The rating procedure and the formula no allerance

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for the differences in duties and qualities required of officers depending on whether they are of the Line or the Steff,
or thether they are as cislists within those categories. It
is possible, however, that the investigators, in choosing for
the items on the ration scale in their now booklet "...incidents of how effective and ineffective officers had acted in
particular military situations..."14 have automatically accounted for differences in the duties and qualities required
of various officers.

The Marine Corps Rating Porm

Description and use. THE EVIOLE OF PITTERS OF OFFICERS

OF THE UNITED TRANSPORT FROM IN Appendix H, is

the briefest of the four military rating devices. The face
of the form provides space for the usual big rathical data
and presents a few brief instructions to the rater.

Belo these instructions is raphic scale which lists the principal dutie of a Merine officer in general terms with provisions for an evaluation ratio, on each. The possible julgements range from "Unsatisfactory" to "Outstanding".

Turning to the reverse side of the sheet we find a second gra, hic scale designed to measure certain attribute considered significant, including "Thysical fitness" and "Intelligence". This scale also requires evaluative judgements ranging from "Unsatisfactory" to "Outstanding".

Following the securi retian scale are several questions intended to elicit information as to the following:

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- (a) Any adverse temperamental, moral, or physical characteristics which the rates might have.
- (b) Any other derogatory information which the rater may have on the rates.
- (c) The rater's attitude toward having the ratee under his command in vartime.
- (d) The rater's estimate of the rates's "General Value to the ervice".

There 14 also space for any additional pertinent information or comment not covered elsewhere in the report.

Analysis. Recently the Meadquarters of the Marine Corps began a project of research. 15

... dealing with the revision of both officer and noncommissioned officer fitness reports with a view to improvement of those currently in use.

Proceeding with the portion of the project concerned with the officer fitness report, the investigators constructed six different types of rating devices based on sample rating forms and information obtained from the other three military services and from thirty leading commercial concerns. Using these six devices and the official Marine Corps form, comparable ratings were obtained on a population of 376 Marine officers of varying ranks acting as rater. The project plans call for correlation of these ratings with buddy ratings of the 376 subjects as a criterion.

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The results, then they become available, till likely prove to be an interestin and valuable contribution to the store of knowledge in this field.

I valuation. Until such time as the findings of the study described above become available, evaluation of the Marine Corps form must proceed largely on a basis of a consideration of its design.

The most noticeable advantage of the form is its brevity and the ease with which it can be filled out. This brevit, is astened by the succinetness of the instructions to the
rater. Other good point of the form are:

- (a) It has the advent of the rates is itemized, showing his strong points on his making ses.
- (b) It provide for a general everall evaluational statement by the rater.
- (c) It provide for the reject of pertinent information or comment not other is covered.
- (d) It provide for an indication of the rator's attitude to and having the rates under his come and luring or service.

Turning attention to the shortcomings of the form, we find tost:

(a) The graphic scales are abbreviated and contain evaluative rather than descriptive terms to indicate the verying degrees of possession of a trait.

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- (b) The truits or qualities on the scale: are not sofficlently well defined.
- (c) there is no sefequend provided against the halo effect.
- (d) One graphic scale includes "registed fitness" and "Intelligence" enough the qualities to be rated, a violation of the principle that qualities which can be more securately determined by one objective means should not be listed on rating so les.
- (e) The form is not designed to per it rayld and accurate scoring, tabulation, and evaluation of the date by modern machine methods.
- (f) The form does not require that the retain be allown to the rates and there is no provision for a saleting the rater in preparing for such an interview.
- (g) The rating procedure does not provide for the rating being made by the superior ith the cont complete browledge
 of the rates.
- (h) The rating procedure and the form who no provision for the difference in duties and qualities required of officers depending on bether they are of the Line or the Staff, whether they are specialists within those categories, or bether they are in school or angued in the duties of their respective classifications.
- (1) The atin, procedure take no provision for either the everaging of the ratings made by several resers or the

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review at higher echelons of ratings and at lower levels.

(j) Finally, the rating procedure makes no provision for certifying to the rate that his rating has been ubmitted to headquarters.

To as to the

ovident that the Mavy's fitness report form is generally unsatisfactory. The Army's form is a superior one and is the most extensively tested of the four. Its principal disadvantage lies in the absence of any provision for acquainting the rates of the details of his rating to sid him in self improvement. The formused by the Air Force appears to have considerable "face validity" and is an example of the best type of graphic rating costs. It possesses the added good feature of a provision for systematicing the rater's observation of the rater to a greater extent then is usual in rating systems. However, the hir love system and for from cumber-someness in use. The chief advantage of the Marine Corps form is its previty.

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PART III

Chapter 1

CONCLUSIONS

From the foregoin, chapters of description and discussion, certain conclusions may be drawn regarding the field of service rating in general and the design of an improved Naval officer's fitness report in particular. These conclusions may be summarized briefly as follows:

- (a) Those in suthority cannot eliminate the need for, nor escape the responsibility of assessing, either at intervals or more or less continuously, the value of their individual subordinates.
- (b) In the present state of the science of psychological measurement, dependence must be placed on judgement in achieving these assessments.
- (c) Then assessing executives and Naval officers, the dependence on judgement is necessarily greatest due to the non-existence, to a large extent, of objective measures of executive performance.
- (d) Human judgement is a complex product of many subtle, mutually interacting influences and, unless it is rether firmly founded on objective evidence, it is certain to be a variable entity, characterized by considerable inaccuracy.
- (e) Lacking suitable means of obtaining objective evidence, se need some method of systematizing judgement and controlling or minimizing its weaknesses. A concomitant need,

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which is relatively easy to fill, is provision of a device for recording judge sents, thereby wolding equalence on un-

- (f) Undir ayed by the difficulty of the problem, inverticators have so get empetically for a number of pairs
 (at least since the closing years of the min thenth century),
 and are continuing the amoreh, for a reass of controlling or
 minimizing the vegation of human judgment in service rating.
- (g) Such means as have been devised for this purpose have been only partially successful. This is perhaps due to failure to filter out of the ratio, the reflection therein of the personality of the rater. It will be see there' that the rater makes the rates not at the too in but a see perceives the rates to be.
- (h) It appears that further improvement of importance but about success in, (l) for ulation and wrification of objective oritoria of accutive performance and, (2) the development of a mole mer theoretical basis, as any possed by Flansjan. In the mention, the best features of the existing system should be used, with full restigation of their limitations, since any tool, even an important one, is better than none.
- (i) tech of the overal system of service rating in
- (j) The lost providing possibilities as types of a new News officer's fitness report form appear to be the forced

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choice rating and the Probat check list device, although neither has been tested conclusively against a problem reting scale of superior design. The forced choice form rooms to be most resistant to rater's bias and help sails the check list as designed by Probat is not successful in actieving an agreed stelly normal distribution of scores.

- (k) There are certain entre features which mismid to a port of the r things, te if it is to accomplish each of its objectives.
- (1) A few of these fortures we incorposible in that inclusion of one of them will detrect suscends from the effectiveness of another. For example, it is desirable to emit from the reting form the Reg for according in order to leny the retringformation with mich he may control the overall mark be gives. (Such conceed at it funds antal to the lorded choice system.) But when the real reanings of the ratings are thus withheld, important information which both the rater and rates should have is kept from the and the value of a post rating intervies is reatly reduced.

ith these considerations in . ind, it to proper to advance to the problem of improving the rating , too in use for evaluating Maval officer performance.

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PART III

Chapter 2

RICO BUNDATIONS

First Recommendation

It has been concluded that the most promising possibilities as types of a new Navy officer's fitness report are
the forced choice rating and the Probat check list device.

A third, perhaps somewhat less encouraging, possibility is an
improved graphic rating scale incorporating all the recommended feature for increasing objectivity and resistence to halo
and rater's bias.

As stated in the preceding chapter, neither the forced choice device nor the Probst check list is clearly the better in all respects, and neither has been tested conclusively against a graphic scale of superior design. It is recommended, therefore, that the Eureau of Naval Personnel experiment with a scale of each of the three types especially constructed for its use. The three devices should be tested simultaneously for reliability and for validity against improved criteries and using in both tests the largest practicable populations.

The improved criteria should be derived from a proper combination of buddy ratings and other pertinent information regarding the ratees such as the morals and attitudes of their subordinates, the effectiveness of the organizations which they headed, (as determined by the most objective means which can be devised), etc. The methods to be employed in isolating and

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collecting this information and in achieving its proper combination are beyond the scope of this thesis and cannot be discussed here. Buffice it to say, however, that the importance
of the criteria is so great that no practicable effort should
be spared in carrying out this phase of the project.

Form

The administration of officer personnel in the Navy is such that, although in some cases, initiation of administrative action may take place in the field, final authority rests in the Bureau of Naval Fersonnel. A fitness report designed to give only information for such final action might very well be of the type which conceals the true nature of the rating made upon it from all who do not hold the scoring key.

However, as discussed in Chapter 1 of PART I, the efficiency evaluation has additional objectives. It will be remembered that supervisor improvement is one objective, improvement of the ratee is another, while aiding in the maintenance of morale and discipline completes the list. Maximum accomplishment of the first two of these will require that the rating be in Mome easily understood analytic form, whereas an overall score might be satisfactory for the last named purpose.

If either the check list or the improved gratic scale proves to be the scat efficient, and consequently is adopted, the requirement for a display of the ratee's qualities mentioned above will be met. The forced choice form however, would not provide the desired display. Should the forced choice

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rating be adopted nevertheless, provision should be made for an additional rating, for purposes of analysis, on a graphic scale which the rater could sho to the rates and discuss with him.

Second Meconmendation

expensive (and also less conclusive) plan recently employed by the Marine Corps, and described herein, should be followed. The rating devices of the Army and the Air Force, suitably edited to eliminate obviously inapplicable items, should be tested with an improved graphic scale against improved eriteria. The most effective device from this test group should become the new Navy officer's fitness report.

Third Recommendation

Lven if it is impracticable to consider altering the basic features of the present rating system, it would be a distinct step for and to prepare and place in service an improved graphic scale. It would be essential that limited tests to deter ine reliability be performed but the requirement for validity must be met by giving the scale maximum face validity turing design and construction.

Fourth Recommendation

No matter what the final decision may be rejarding rating devices, a definite rater training program should be established as soon as practicable as a permanent part of the Navy's educational system. In this case, as for the introduction element has allering to recommend the contract the policy of any policy of the second law of the second to the sec

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of a new rating device, maximum benefit will accrue to the 'ervice only if the initiation of the program is preceded by a careful promotional procedure designed to gain acceptance for the training plan.

The material to be taught in a rater training program has been discussed in an earlier chapter. Later training courses offering this meterial should be included in the ourricula of the U. S. Naval Academy, The U. S. Naval Schools (General Line) at Newport, R. I. and Monterrey, Calif., and the U. S. Maval NOTC units at civilian colleges and universities. Instructional pamphlets should be prepared and circulated to other Naval activities and, if funds permit, a trainin moving picture film should be produced. This film would be particularly effective in dramatizing the cycle of, (1) observation of the rates by the rater, (2) recollection by the r ter, at rating time, of his observations, and (3) transformation of these recollections into marks on the rating blank. Other aspects of the problem such as the benefit to the forvice, and the Nation, thich till result from careful and conscientious marking and the harm to the "ervice, and the Nation, which will result from improper merking of the ratings could be emplasized in a film.

Subsidiary kecommendations

The designers of a rating form for Navy use should take cognizance of certain general considerations which arise from recognition of the principles of good service rating design and

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personal production of the person of the per perfect that were problem and the manufacture and the second training and where our per production we defend of the same name and other respective where of the first or the summer of the state of the same of the s integrated than the standard by the standard or (mile freezeway) elementary has securify to the sales of the last of the last secreta has been part of the statement of the secretary development of the soldered in a Charles about the party contribution of Secret could be a Secret they notice plate or the country private paids or the fills small and the country of the country the particularly offered by the relative for relative for the first out and or maliferationers (ii) process on the harden and the auditorious working till den gem tracement pår by gredt midde da gebler country on the second of the special state of the s produced and the principality of the control of the and declinate on the column and discount of the column and the same of the column and the same of the column and the column an the delice provide the late of the second of feedbarren - 12-ye matter of a subfine reported and agency ALLEY B MA

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administration which were discussed in Chapter 2, PANT II. The proposed actions regarding the more important of these factors are offered in the following paragraphs as subsidiary recommendations.

Information to be Elicited

The discussion in Chapter 3 of PLT II described the difficulties attendent upon the determination of what leaders do, or west is more important, of what expects of a leader's behavior are significant and are therefore objects of interest on the part of his superiors. The ideal efficiency eveluation device would be designed to elicit information on those significant behaviors, and cale items would be chosen accordingly. Selection of the items is a matter of judgment on an a priori basis and, apparently for some time to come, must remain so.

Authorities in this field are unanirous in the opinion that the items used on a ratin scale should be chosen from among those composed by men who till later use the scale in rating their subordinates. This applies no matter whether the projected device will be a graphic scale, a creek list, or a forced choice rating for. The assumptions pon which this view is based are, (1) the immediate supriors of the rates are in the best position to know that behaviors are significant and, (2) having participated in its design, the raters will have more respect for the ratin device and will use it more carefully. No ever, even though the a coific items

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should be obtained from the suggestions of the raters, guidance may so furnished them by specification of the areas in which suggestions are desired.

Significant areas of information. The most important of the significant areas of information are, (a) leadership, (b) performance of duty, (c) special qualifications, and (d) appearance and general conjuct. In addition there should be, (1) a list of standard situations in which the rater must indicate the extent to which he would place dependence on the rates, (2) a specified difficult situation in which the rater should indicate his attitude toward having the rates serve with him, and, (3) a space for a general evaluational statement and citation of any pertinent commendatory or derogatory material.

Taking a cue from Maval Leadership we find that in the leadership area important items are levelty up and down, moral and physical courage, homesty and fairness, common sense, rood judgement, confidence, initiative, test, self control, humor, modesty, enthusiasm, ability to delegate wisely, to establish communication up and down, to plan, to implement plans, to control operations, and knowledge of other principles of good organization and manage ent.

There will be such overlap between the leadership and performance of duty areas but the latter should be included nevertheless. It will provide a mean of marking officers shows may happen to be serving in positions requiring a inhall dis-

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play of loadership qualities. Initiative, ability to plan, to implement plans, to control operations, to itle ste wise-ly are important qualities. Others are enthusiass, perseverance, accuracy, thoroughness, conscientiousness, and resourcefulness.

The special qualifications section would be intended to record any special aptitudes or abilities which the officer might have developed but which probably could not be on record in the Bureau of Naval resonnel. Each things as adoptness at ship handling or organizing and training our crews are important to record but are not so treated usually. The final area covers personal nestness and that responsible attention to small details of regulations and ou toms which are one of the distinguishing mark, of the excellent officer.

The superiority of the descriptive item over the evaluational has been cointed out. Decruse of this superiority, all item should be constructed to describe the behaviors which mill indicate the presence or allegace of the various qualitie involved.

Specificity of Rating Levice

of information to be covered, is the question of whether a single ratio, device can cover adequately all the important qualities which must be possessed by the officer corps of a molern navy. Included in this group of men, one will find in addition to the general line officer (executive), a long list

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of specialists in various technological fields, in communication, business and supply, law, the social sciences, and in medicine. In the sense that all Naval officers are executives, they must bring to their duties certain fundamental characteristics common to all branches. However, each of the specialities listed above requires also a different aggregation of peculiar knowledges and skills, and perhaps attitudes to some extent. But is considering the measurement of these special qualities, one finis that he is encroaching on the fields of intelligence testing, and aptitude and achievement testing where service rating has no place.

There is no satisfactory answer to this question. Authorities agree that a rating device should be designed for the specific group which it is intended should be rated by it and they advice that several different forms may be needed to rate the employees of a single commercial firm. Recommendations regarding the specificity of the executive rating form are not so unequivocal, however. This is not surprising when one recalls what has been said in Chapter 3 of PART II concerning the lack of information as to that aspects of an executive's performance are significant for the purposes of evaluation.

It is probable therefore, that a satisfactory answer will not be forthcoming until the findings of studies now in progress become available. These findings may reveal differences (as well as similarities) between the behaviors of general line officers and the various categories of specialists

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of such signitude that the design of special rating blanks for each fill be seen a clearly necessary.

been examined take some attempt to recure a rating in the officer's specialty. This feature should be retained and expended in scope in the new form, insofar as budgetery consideration will permit. Intension light to ecomplished by, (1) devising a paper ratin form for all officer to be secondaried by special ratin form for certain classes of specialists, or (2) by giving one up co on the ingle overall form to a lescription of and rating in a specialty.

If the plan for additional ametalian ratio blanks is a loved, the specialist officers might be grouped at factorily for ratio purposes into, (1) technological and actorific specialists, (2) business on ausphy specialists, and (3) Fedical and Dental officers.

Infurnation to be Excluded

As previously it caused, qualities which very a determined by or objective seans should not be measured by rating. Moreover, because of the importance of limiting the length and complainty of the form therever possible, items which require entries that do not contribute information of value in reaching an assessment of the rates should be exitted.

Length and Comple ity

The question of the longth of the ratin form, the number of it is on it, was discussed in Chapter 2 of PALT II where

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it is concluded that the longer forms are likely to be more reliable. Mosever, as continued there, the cost and administrability cannot be inneed. To cover specifically each of the qualities continued earlier in this chapter would require a finisher of approximately thirty items. This number may seem excessive by the stemaril of these, who, on the basis of the results of factor analysis, feel that rating scales madure only one or too qualities at more. But, Judging from the experience of Prosst, thirty items may not be too many. He has reported that the average number of items checked on his scale, sich though it lists lol items specifies that only the a which are applicable to the rates are to be checked, is between the only an theory-rive.

It would be desirable to limit the form to only the two sides of a single wheet of paper 82 inches side and 142 inches long, the size of the present havy fitness report form. The requirement to carbon capies should be aliminated, insofar as possible, as it complicates preparation and filling and increases costs. There appears to be no need for copies because "Incoming (fitness) reports are filled in a jacket of their own. This is available for all personnel actions..."

In long at the Navy Regulations provide that prompt tubmission of fitness reports is a joint responsibility of the rates and rater, some means of notification to the rates that the transaction has been accomplished in desirable. The present Mavy fitness report form provides a carson copy of the

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biographical section of the report for the rates. This feature or its equivalent should be etalled. Indeed, there is much to be said for furnishing a complete copy of the ontire rating to the rates. Ith spen ment and crolete record of his superiors' judgement of his in his possession, he sould be in ruch totter position to plan action to and a lift inprovement.

Machine Provesting

The sort officient ethol for coming, conting, or tabulating a large number of similar reports is the assume method
discussed briefly in Chapter 2, 1911 II. The facility and accursey lith which these operations can be acceptived by machinery renter the dependence on older processes unvise.

There has been some experimentation is the lurses of Nevel Ferscand with a revision of the present fitness report for "designed to facilitate punching it on an IBM card". Although the revised for an not adopted, any new design of fitness report definitely hould include provisions for aschine processing in the Furesu. The Nevy cannot afford to ignore the important sid to advanced personnel prestices which the technique of reclaims processing of fitness reports affords. It is important in the unprecedentedly large pracetic. Many of tolar and could be vestly used important when the Nevy is required to expend to meet a national engage.

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PART II

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PART II

Chapter 1

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APPENDIX A

SAMPLES OF TYPES OF RATING FORMS

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APPINDIX A.

Evaluative Type Graphic Scale

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APPENDIX B

AN EARLY NAVY RATING FORM



REPORT ON THE FITNESS OF OFFICERS.

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Station of duty.		·····
Period covered by this report, from		. 15 ,
to		
1. Ability to command.	· · · · · · · · · · · · · · · · · · ·	
2. Manuer of performing duties.		
3. General conduct.		
4. Sobriety.		
5. Health		
6. Condition and efficiency of command.		
7. If any special duty has devolved upon him, state its a	nature, and how it was perform	ned.
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APPENDIX C

A LORE RECENT NAVY RATING FORM



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12. To what degree has he exhibited the following qualifications? (Each line is divided into four main divisions, with a definition below each division. Consider only the definition below each line which accurately fits in regard to the subject. Having decided which definition is most suitable, place a check mark at the grading along line to which the person being marked is entitled. A check to the right of the double vertical line will be considered as an unsatisfactory (unfavorable) report.) Intelligence
(With reference to the fac-nity of comprehension; mental acuteness.) Slow of comprehension; unimaginative Beadily understands nor-mal situations and con-ditions. Exceptionally quick-witted; keen in under-atending. Grasps essentials of a sit-uation quickly. Judgment

(With reference to a discriminating perception by which the values and relations of things is mentally asserted.) Unusually keen in estimat-ing situations and reaching sound decisions. or judgment; draws Exceptional in ability to think, plan, and do things without waiting to be told and instructed. (With reference to constructive thinking and resourcefulness; ability and intelligence to get on own responsibility.) Capabia of performing nor-mai and routina duties on own responsibility. (With reference to moral power possessed and ea-erted in producing re-aults.) Weak ; with little in Leadership
(With reference to the fac-uity of directing, con-trolling, and inducacing others in definite lines of action.) Inspires others to a high degree by precept and example; will always have a following. Leads well, but has limitations. poor leader of fails to attract does not inspir (With reference to the fac-ulty of being courteous, considerate, and sensible in dealing with others.) table and courteous a high degree. Can relied upon to handle leate questions or sit-ions. Cooperation

(With reference to the fac-uity of working harmoni-oualy with others toward the accomplishment of common duties.) Exceptionelly successful in working with others to a common end. Loyalty Fidelity, faithfulness, alle-giance, constancy — all with reference to a cause and to higher authority.) Faithful in the Attends to his duty in a highly satisfactory With reference to the fac-ulty of cerrying on all work in a thorough and conscientious manner.) exceptionally high and with reference Presence of Mind (With reference to the fac-ulty of acting instinc-tively in a logical man-ner in difficult and un-forseen aituations.) Exceptionally cool-headed and logical in his ac-tions under all condi-tions. Endurance Can perform well his duties under trying conepable of atanding an ex-ceptional amount of physical hardships and strain (With reference to ability for carrying on under any and all conditions.) Industry

(With reference to performance of duties in an energetic manner.) Military Bearing (With reference to military carriage and dignity of demeanor.) Neatness of Person and Dress

(With reference to correctness of uniform and amartness of appearance.) merally neat and c Aptitude for Service With reference to a na-tural capacity and gen-eral diness for the Naval Service.) Enthusiastic and excel-lently fitted for the Naval Service. Weil fitted and interested Adapta himself to and is acquiring a capacity for the service. REMARKS 13. Give in this space: (a) A clear and concise estimate of this officer's personal and military character, (b) his fitness for promotion, (c) any duty performed worthy of special mention, (d) also any information which might be of value to the department in making assignments to duty.



PRESENT NAVY RATING FORM



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IMPORTANT INSTRUCTIONS—READ CAREFULLY

GENERAL INSTRUCTIONS

The attached revised Officer's Fitness Report is to be used in place of the old forms, NAVPERS 310 and 311.

This form serves the following purposes:

- 1. It serves as a report of fitness for all officers both affoat and on shore.
- 2. The first carbon—(Page 2)—keeps up to date in Bu-Pers the Officer's Qualifications Questionnaire, which provides the Bureau with information covering each officer's previous experience and qualifications for various types of duty.
- 3. The second carbon—(Page 3)—provides data covering changes in the officer's qualifications and is to be filed in the Officer's Qualification Record Jacket as an aid to Commanding Officers and Personnel Officers in assigning him properly.

This form is to be submitted semi-annually for all officers and in all cases of permanent detachment of either the officer or reporting senior. Special reports of fitness on an officer, on the prescribed form, shall be made whenever the officer reported on:

- (a) Distinguishes himself in battle.
- (b) Performs an outstanding act of valor or devotion to duty.
- (c) Displays extraordinary courage, ability, or resource in time of peril or great responsibility.
- (d) Is guilty of serious misconduct or marked inefficiency.

A typewriter is to be used when at all possible in filling out Sections 1 through 6. Since 96% of all fitness reports received in BuPcrs are typed, the form has been constructed for that type of preparation. Care should be exercised that the carbon copies are legible if a typewriter is not used.

INSTRUCTIONS FOR REPORTING OFFICERS

In deciding on promotions of officers, Selection Boards must, in effect, compare an officer with others of the same rank rather than with more arbitrary standards. You will note that in Section 7 and subsequent sections you are asked to do just that — compare each officer with all others of the same rank and corps whose professional abilities are known to you personally. Please note that the officer is not to be compared only with the others of his rank now under your command. For this reason, it is important to indicate in Section 9b how many officers are included in the group you use for comparison.

In making this comparison, keep in mind that the group of officers whose professional abilities are known to you personally (or any other group of people) will fall into a normal distribution when graded on any trait or factor—that is, there will be a small number at the lower end, a larger group in the middle, and a small group at the top. With this curve in mind, compare the officer with the group

and mark him on each factor in Section 7 as falling in one of the five brackets—the lower 10%, the next 20%, the middle 40%, the next 20% or the top 10%. Do not hesitate to mark "not observed" on any factor which you think not applicable to the duty in which you have observed the officer or in which your observation has been too limited to warrant judgment.

No entry which is made in Section 7 will be considered an unsatisfactory report. Only adverse comment in Section 6 and entries so designated in Sections 8, 9, 11 and 12 will be so considered.

An unsatisfactory report must be referred to the officer reported on for his statement which is to be attached to the report of fitness. In any case open to question as to what constitutes an entry of an unfavorable or unsatisfactory nature the officer will always be given the benefit of having seen the report. (See Articles 1701 and 1405 Navy Regulations, and BuPers Manual Article B-2202.

The Bureau desires that reporting seniors make every effort to show each fitness report to the officer reported upon and to discuss it with him, in so far as practicable. In this connection please note the instructions in Section 12 which provide that statements of a constructive nature which refer to minor imperfections or lack of qualifications do not constitute an unsatisfactory report. On every report of fitness, the reporting senior will indicate under Section 12 whether the officer reported on has or has not seen the report.

The reporting senior will sign all three pages of the report in the lower right hand corner, or will sign the original and designate a commissioned officer, preferably senior to the officer reported on, to authenticate Pages 2 and 3 in lower right hand corner. The officer reported on may sign and retain Page 3, inserting same in his qualification jacket, if he is geographically detached from the reporting senior.

The Officer's Fitness Report (Page 1) and the Officer's Qualification Report—BuPers Copy—(Page 2) are to be forwarded—not separated—to BuPers. The Officer's Qualification Report—Jacket Copy—(Page 3) is to be detached—and filed in the Officer's Qualification Record Jacket.

Fitness Reports are to be submitted promptly and their preparation is one of the most important and responsible duties of superior officers. Failure to prepare them objectively is detrimental to the efficiency of the Navy. If not submitted promptly, the rights of the officer reported on may be prejudiced. The fitness of an officer for the service with respect to promotion and assignment to duty is determined by his record.

INSTRUCTIONS FOR OFFICER REPORTED ON

It is your responsibility to fill out Sections 1 through 5 of this form and to sign all sheets in the lower left-hand corner. Submit the form to your reporting senior at the times specified in the General Instructions above. Use a typewriter, if at all possible—if not, use ink, but be sure that all copies are legible.

APPENDIX E

ARMY RATING FORM



EFFICIENCY REPORT

See AR 600-185 for details.

Unit Adjutant or Personne! Officer will complete Sections I and III. Rating Officer will complete Sections II, IV, V, VI, VII, VIII, and IX. Indorsing Officer will complete Sections II, V, VII, and IX.

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EFFICIENCY REPORT

WD AGO Form 67-1 Part 2

See AR 600-185 for details.

Unit Adjutant or Personnel Officer will complete Sections I and III. Rating Officer will complete Sections II, IV, V, VI, VII, VIII, and IX. Indorsing Officer will complete Sections II, V, VII, and IX.

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C. No one ever doubts his ability.		ws his job and orms it well.	O		r makes excuses s mistakes.	O;; ¥	F A		s clear and c lions.	oncise	o ''	В А
D. Well-grounded in all phases of Army life.		s no favorites.	<	D. Slow his w	in accomplishing ork.		- !!-	D. Very	exacting in a	II details.		
A. Follows closely directions of higher echelons.	A. Con	stantly striving for new vledge and ideas.		A. Critic	izes policies of iors,		T		es others for nistakes.			
B. Inclined to "gold-brick."	B. Busi	nesslike.	S 5	B. Other with	s can't work	S T	8	B. Alwa discip	ys demands : oline.	strict	ر ا	ς.
C. Criticizes unnecessarily.	ii iiu phy	arently not sically lit.	0	C. If he	is wrong, will it.	0,	E A	C. Exce	llent at constr ism.	ruclive	0	
D. Willing to accept responsibility.		to use good ment.	W		en know they ca s judgment.	n rely ∦			ant about rer sions.	ndering	₹	
A. A go-getter who always does a good job.		not assume consibility.		A. Does	n't try to "pull ra	ank."	:		take over in mergency.		#	T
B. Cool under all circumstances.	B. Kno	ws how and when to	S 8 4		s men, their cap- es & limitations.	S	S S		and just in ealings.			2 <
C. Docsn't listen to suggestions.	C. Oile	ers sungestions	W	C. Low	efficiency.	o _{::} :	7 H	C. Lack	s interest in h	is job.	o '	۷ ا
D. Drives instead of leads		easily changes his ideas	,		a steady monoto s speech.				tions orders triors.	from	\	_
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OO NOT WRITE IN THIS SPACE	1 Management and o	peration of military matt	ers not inclu	ded in	1 3				larger units i	n devising	metho	ıds
		e over-all operation of a	a military uni	1.	of meetin	g the requi	rements	of military	situations.			
	3 Presenting learning or civilian compone	materials in a classroom	situation in	a military	6 Duties inv	volving aere	onautica	1 skills per	formed by ra	ted officer	s,	
	4 Exercise of specialized	ed knowledge, requirin	g lengthy tec	hnological	7 Training	at service s	chools, /	Air Univer	sity, Army In	dustrial Co	ollege,	etc.
	for RATING OFFIC	ER				FOR I	INDORS	ING OFFIC	ER			
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A.	People work for & with him because of his personality.		Τ	A.	Lacks ability fidence of m	to inspire co en & officers			- A		y of mil ng, & n				ii.	A.		ains resp nout cau					-1
Б.	Never rank-conscious.	S 1	S	8.	B. Easygoing.				s 8.	. Norm	ally che	erful.		ST	, v	В.	Lack	s aggre	ssiv e ne	:55.	S		- 1
C.	Thinks only of himself.	0	E	C.	Type of man likes for a fr	<u>_</u>		, c	, Can'i	take cr	iticism.		0	/ ∀	C.		an exce		ommar		10 .	E A	
D.	Worries a great deal.	₹		D.	Has a quiet, bearing.	D		n't get a people.			₹		D.		king in g oral hal		onduct	¥		-			
A.	Active in athletics.	ii.		A.	Hot-tempere	d.			^	A. Modest & reserved.						A.	Съг	lheaded	l.				
В.	Firm but not overbearing.	Z S	s	В.	fails to demo	onstrate	⊢	- ,# #4			n't have he shou		οr	ST		В.		mands i	respect	by	r L	۲	-
C.	Egotistical.	0 2	E A	c.	Reserved.			5	C	. Antis				0	ш В У	C.		erbearing	g		O	11 . .	۲ ا
D.	Rubs people the wrong way.	×		D.	Impresses pe	ople favorab		€ 	ם		ected by v officer			\$		D.	Indi	fferent.			٤		- 1
A.	Compliments a man on his good work.			Α.	Boastful.				A	. A qu	iet, unas	suming	officer.	. !!		۸.	Imm	iature.					
B.	Loses his head, gets excited.	Z Z	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	В.	Inspires pride		t-	- , '		. Follor	ws rathe	r than	leads.	ST	S	В.	Mod	lest but	not ret	iring.	S T	,	2
C.	Has admiration of officers & men alike.	0 3		c.	Lacks tact.		C	6 . 2	C		n attitu	de of		0	9 ¥	C.	Ner	vous.			0	12 -	۲ ا
D.	Poor in dress & appearance,	×	<u></u>	D,	Thoughtful o	f others.	2	€ ∷ ∷ ∷	٥	. Tactfi	ıl.			×		D.		roughly is work.		rative	₹	-	
	Section VII. PERSONAL QUALIFICATIONS Use ELECTROGRAPHIC PENCIL, following same directions as for Section V. MARK ALL SIX QUALIFICATIONS.																						
	FOR RATING OFFICER FOR INDORSING OFFICER																						
	The degree to which he is able to meet situations without 1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 bias and without emotional upset.													DORSIN		_							
			et situa	ation	s without		3	4 5	TINC	6	7 8 !! !!	9	10	1	2	3	4	5		7 !!	8 9	10	
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APPENDIX F AIR FORCE RATING WORK BOOKLET (SAMPLE SHEET)



40. 50	BORDINATING PERSONAL 1	2 2	3	4	5
Unknov	Allowed personal interest and welfare to interfere seriously with perform- ance of duty.	Made excessive use of the privileges of his rank to increase personal comfort or avoid inconvenience.	Accopted minor personal inconvenience in order to perform his duties.	Subordinated personal desires to the performance of duty.	Disregarded personal wel- fare and interests com- pletely whon necessary for the successful per- formance of duty.
41. CO	OPERATING WITH ASSOCIA	ATES (See also I-11)	3	4	5
Unknov	Refused to help or co- operate with an associate.	Cooperated only grudg-	Gave some assistance to an associate when requested to do so.	Cooperated willingly with an associate when called upon.	Voluntarily assisted an associate whon help was needed.
42. 5H	OWING LOYALTY	2	3	4	5
Unknav	Openly criticized a superior or associate.	Allowed a superior or associate to be criticized without coming to his defense.	Supported the policies or actions of a superior or associato.	Gave credit to a superior for accomplishments of the organization.	Shared any criticism or blame directed at a sup- erior for the mistakes or shortcomings of his organ-
43. TA	KING RESPONSIBILITY FO	R SUBORDINATES (See a	ilso 1 1-26) 3	4	ization. 5
Unknov		Took very little responsibility for the conduct and fair treatment of a subordinate.	Assumed responsibility for the conduct and fair troat-	Assumed substantial responsibility for the conduct and fair treatment of a subordinate.	Assumed full responsibility for the conduct and fair troatment of a sub-ordinate.
44. AT	TENDING TO DUTY	V. PERSONAL H	ABITS AND ADJU	STMENT	
	1	2	3	4	5
Unknov	wn Required constant prod- ding and close super- vision to keep his atten- tion on his assigned duties.	Worked just hard enough to get by.	Showod satistactory industry.	Worked hard and will- ingly to achievo objec- tives.	Did extra work voluntarily in order to achieve objectives.
45. AT	TENDING TO DETAILS				
	1	2	3	4	5
Unknov	wn Neglected an important detail of his job with serious results.	Neglected routine details of his work, slowing up operations.	Handlod satisfactorily the important details of his job.	Gave caroful attention to the important details of his job.	Made sure that all details of his job were completely taken care of.
46. RE	PORTING FOR APPOINTME	ENTS 2	3	4	5
Unkno	Failed to keep an appointment causing serious inconvenience to others.		Notified others when he expected to be late for an appointment.	Made a special offort to be prompt in reporting for an appointment.	Kept an appointment in spite of substantial personal inconvenience.
47. MI	EETING COMMITMENTS (Se	e also I-3) 2	3	4	5
Unkno	Failed to meet a commit- ment hindering the work of others.	Was late in meeting a commitment causing inconvenience to others.	Met a commitment promptly and fully.	Met a commitment fully in spite of difficulties beyond his control.	
48. fN	PROVING EFFECTIVENESS	(See also VI-55)	3	4	5
Unkno			Accepted an opportunity to improve his proficiency or potentiality.	Was alert to an opportunity to improve his offectiveness.	Sought out actively an opportunity to improve his proficiency and potentiality.
_	ING FAIR AND SCRUPULO	U5 (See also IV-40)	3	4	5
Unkno		Used an indirect and questionable method.	Was satisfactorily accurate, frank, or fair in a statement or practice.	Used a direct and forth-right method.	Was scrupulously accurate, frank, or fair in a statement or practice.

30. MAKIN	G USE OF EXPERIENCE	(See also VI-56) 2	, 3	4	5
Unknown	Made no application of his own or others' experience in similar work resulting in unnecessary delays and errors.	Failed to make adequate application of his own or others' experience resulting in a loss of effectiveness.	Made some application of his own or others' experience to assist him on a problem.	Made good use of his own or others' experience to work out a problem.	Applied his own and others' experience to the fullest extent in the solution of a problem.
31. LONG-	RANGE PLANNING	2	3	4	5
Unknown	Failed to prepare plans to guide the organization's work.	Prepared only inadequate plans based on a sketchy understanding of the objectives.	Prepared plans based on only the immediate objectives of the organization.	Prepared careful plans based on a full understanding of all the objectives.	Developed very effective long-range plans based on a thorough analysis of all objectives and of means of reaching them.
32. TAKIN	G PROMPT ACTION	2	3	4	5
Unknown	Refused to act when a decision was urgently needed.	Hesitated or put off making a needed decision although possessed of all essential facts.	Took necossary action without serious delay.	Took prompt action to meet an established need.	Took prompt action to meet a legitimate need even though he might have delayed.
33. SUSPE	NDING JUDGMENT	2	3	4	5
Unknown	Refused to wait for or examine essential additional facts before deciding.	amine needed additional	Decided only after he had been supplied with some additional information.	Withheld his decision on an important matter until the main additional facts needed could be examined.	Insisted in spite of strong pressure on obtaining needed additional facts before making an important decision.
34. MAKIN	IG CORRECT DECISIONS	S 2	3	4	5
Unknown	Made a bad decision which appeared quite contrary to the known facts.	Made a sorious error in judging the relative importance of several factors in deciding.	Made an adequate decision based on a reasonable interpretation of the facts.	Mado a good decision showing sound evaluation of all the factors involved.	Made an excellent de- cision which exactly fitted all the factors involved.
35. PERSIS	STING IN EFFORTS	2	3	4	5
Unknown	Gave up as soon as he met opposition or difficulties in pursuing an objective.	Gave up after a few attempts had failed.	Kept on working toward an objective of the organi- zation despite minor diffi- culties or opposition.	Renewed his offorts after a major set-back in pur- suing an objective of the organization.	Persisted in his efforts to achieve an objective of the organization despite repeated set-backs or severe opposition.
36. MAKIN	IG FORCEFUL EFFORTS	2	3	4	5
Unknown	Made very feeble and in- effectual efforts to achieve an objective.	Made only weak and partially effective efforts to achieve an objective.	Was somewhat vigorous and forceful in his efforts to achieve an objective.	Pursued an objective of the organization with energy and force.	Made very vigorous and forceful efforts to achieve an objective.
37. ABSOF	RBING MATERIALS	2	3	4	5
Unknown	Delayed operations be- cause of his poor memory or the slowness with which he absorbed facts.	Made a mistake due to slow fearning or faulty memory for facts.	Learned and remembered well enough to do a satisfactory job.	Achieved good results be- cause he learned or re- called facts better than others.	sults because of his un-
	IV. ACCEPTANO	E OF TEAM PRII	NCIPLE AND ORG	ANIZATIONAL DI	SCIPLINE
38, COMP	LYING WITH ORDERS A	ND DIRECTIVES	3	4	5
Unknown	Disobeyod an order or directive.	Delayed or tried to avoid compliance with an order or directive.	Complied satisfactorily with an order or directive without undue delay.	Carried out an order or followed a directive promptly.	Carried out promptly and effectively the spirit and intent of an order or directive.
39. ACCEF	TING ORGANIZATIONA	L PROCEDURE	3	4	5
Unknown	Violated an organizational procedure or regulation.	Was openly critical of and followed only partially an organizational procedure.	Conformed without opon criticism to an organizational procedure with which he had previously expressed disagreement.	Accepted a procedure fully because he understood the necessity for organizational control.	Accepted and promoted understanding of a procedure as essential to effective organizational control.

APPENDIX G

AIR FORCE RATING SHEET



LAST NAME FIRST NAME	INITIAL GRADE SERIAL No.
INSTRUCTIONS: Place an "X" in the appropriate box to denote your evaluments listed below. The six columns of loxes correspond to the unknown box for Officer Evaluation on Report of Officer Effectiveness (AF Form 77A).	nation of the performance of this officer with respect to the critical require- and the five numbers on each scale in the Check List of Critical Requirements
D L PROFICIENCY IN HANDLING ADMINISTRATIVE DETAILS	IV. ACCEPTANCE OF ORGANIZATIONAL RESPONSIBILITY
U 1 2 3 4 5	U 1 2 3 4 5 34. Complying with orders and directives 35. Accepting organizational procedure 36. Subordinating personal interesta
. Getting ideas from others	37. Cooperating with associates
S. Checking accuracy of work G. Writing letters and reports	38. Showing loyalty 39. Taking responsibility for subordinates
7. Getting cooperation 8. Presenting finished work 9. Keeping records 10. Keeping others informed	X
11. Rendering effectiveness reports	V. ACCEPTANCE OF PERSONAL RESPONSIBILITY
X	U 1 2 3 4 6 40. Attending to duty 41. Attending to details 42. Reporting for appointments
II. PROFICIENCY IN SUPERVISING PERSONNEL	48. Meeting commitments
U 1 2 3 4 5	44. Being fair and scrupulous
12. Matching personnel and jobs	45. Maintaining military appearance
13. Delegating authority	46. Adapting to associates
14. Giving orders and instructions	47. Adapting to the job
15. Insuring comprehension 16. Giving reasons and explanations	48. Conforming to civil atandards
17. Supporting authorized actions	X (DO NOT USE THIS SPACE)
18. Encouraging ideas	1 2 3 4 6
□□□□□ 19. Developing teamwork	X
20. Setting a good example	VI. PROFICIENCY IN DUTY MILITARY OCCUPATIONAL SPECIALTY
21. Assisting subordinates in their work	(Describe the speeiste duty personned and give the SSN/ of the duty)
22. Evaluating subordinates' work	
23. Looking out for subordinates' welfare	
24. Maintaining relations with subordinates	
X	
III. PROFICIENCY IN PLANNING AND DIRECTING ACTION	
U 1 2 3 4 5	
25. Taking responsibility	U 1 2 3 4 5
26. Solving problems	50. Improving effectiveness
27. Making use of experience	51. Keeping well-informed
28. Long-range planning	62. Applying training and information
29. Taking prompt action	53. Showing ingenuity in specialty
30. Suspending judgment	54. Handling related assignments
31. Making correct decisiona	X (DO NOT USE
32. Making forceful efforta	1 2 3 4 5
X DO NOT USE	×
THIS SPACE)	TOTAL SCORE (DO NOT USE THIS SPACE)



APPENDIX H
MARINE CORPS RATING FORM

10 A Table 10 A Table

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U.S.M.C.

REPORT ON FITNESS OF OFFICERS OF THE UNITED STATES MARINE CORPS

(To be submitted in accordance with Art. 137, U. S. Navy Regulations, 1920, and Art. 10-22, Marine Corps Manual)

(Name—Surname first)	(Har	UK)					
Ship or station	 -						
Period covered months, from to be answered by officer reported on:) 						
1. Regular duties					·		
2. Additional duties							
3. Wife's address							
4. Name, relationship, and address of person other than wife to be notified in case of eme							
(Algnature)							
To be answered by reporting officer:				IVOLEN,			
5. Reporting officer(Name)		-, -	(Par		U.	S	
6. Method of rating.—When rating this officer, consider carefully and keep in mind the fo							
sideration his length of service, the opportunities afforded him which might have a his personal characteristics, and professional qualifications: **UNSATISFACTORY.**—Inefficient; helow minimum standard.** FAIR.**—Satisfactory; passably efficient; up to minimum standard. GOOD.**—Average qualifications; efficient, but to a less degree than "Very good." VERY GOOD.**—Above average; efficient; well qualified. EXCELLENT.**—Highly efficient; qualified to a high degree. OUTSTANDING.**—Superior; exceptionally efficient; qualified to a preeminent degree. NOT OBSERVED.**—To be used in all cases where the reporting officer has had ins officer reported on during the period covered by this report to permit a rating as personal characteristics, or professional qualifications. 7. Before making out this report, decide in your own mind on an actual officer in the grade who, in your opinion, based on personal knowledge, is the outstanding officer of his rational decides in your own mind the character attributes and professional qualifications which officer now heing reported on should possess.	ufficion to person of the contract of the cont	ent o erform ne offi n the	pport nance cer n Mari	unity of a ; ow be ne Co	to o partic	bserve cular (eporte or	e:the duty,
8. Considering the officer reported on in comparison with your ideal (7), and having in mind the instructions under (6) "Method of Rating", indicate your estimate of him by marking "X" in the appropriate space below.	Not observed	Unsatisfactory	Fair	Good	Very good	Excellent	Outstanding
Performance of duty (based on fact): (a) Regular duties							
(b) Additional duties				-			
(c) Administrative duties							
(d) Executive duties						*****	
(e) Handling officers							
(f) Handling enlisted men							
(g) Training troops							
(h) Tactical handling of troops (unit appropriate to officer's grade)							
						10-182	200-3

9.	To what degree has he exhibited the following qualifications? Consider him in comparison with your ideal (7), and indicate your estimate by marking "X" in the appropriate space below.	Not observed	Unsatisfactory	Fair	Good	Very good	Ercellent	Outstanding
(a)	Physical fitness (physical stamina; endurance under hardship, adversity, or discouragement)							
(<i>b</i>)	Military bearing and neatness (dignity of demeanor; neat and smart appearance)			 -				
(c)	Attention to daty (industry; the trait of working thoroughly and conscientiously)							
(d)	Cooperation (the faculty of working in harmony with others, military or civilian)							
(e)	Initiative (the trait of taking necessary or appropriate action on own responsibility)							
ഗ	Intelligence (the ability to grasp readily situations and instructions)							
(g)	Judgment and common sense (the ability to think clearly and arrive at logical conclusions)							
(h)	Presence of mind (the ability to think and not promptly and effectively in an unexpected emergency or under great strain)							
(i)	pected emergency or under great strain). Force (the faculty of carrying out with energy and resolution that which is believed to							
(j)	be reasonable, right, or duty)							
(k)	Loyalty (the quality of rendering faithful and willing service, and unswerving allegiance under any and all circumstances)							
10.	Has he any characteristics—temperamental, moral, physical, etc.—which adversely affects, briefly describe them							
11	During the period covered by this report, has the work of this officer been reported o							
11.	adversely? If so, indicate subject matter and date							
	During the period covered by this report was he the subject of any disciplinary action to the action of the officer concerned? If yes, what improvement,	stat , wer	e the	t of	oatur iencie	e and	atter	odant ought
14.	If no improvement was noted, what period of time has elapsed since the deficiencies we Considering the possible requirements of the service in war, indicate your attitude to command. Would you— (a) Particularly desire to have him?	ere br ward	ough bavi	t to l	is not is off	ice? . icer 1	under	your
	(b) Be glad to have him?							
	If (d), explain briefly							
15.	(To be answered only when reporting on officers serving under revocable commissions the service after expiration of revocable period of commission?	.) I	o yo	u rec	omm(end r	etenti	on in
16.	REMARKS: (To be used for additional pertinent information or comment, if any, i	ot c	overe	d else	wher	e in t	his re	eport)
17.	Indicate your estimate of this officer's "General Value to the Service", using the ratio	gs sp	ecifie	d in	(6)			
18.	Having in mind the special fitness of this officer and the efficiency of the naval serve knowledge and belief all entries made hereon are true and without prejudice or particles.	ice, l	I cer					
	(Signature)	, -		(Rar	k)	Ù	. S	
	(Date)		(Du	(y)				
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APPENDIX I

GLOSSARY OF TERMS

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OLOSSMET OF TERMS

APPEMBIX I

GLO. THE OF THE

- Behavior -- Any or all of the overt actions of an individual including manifestations of emotions. In
 the field of efficiency rating it refers particularly to those actions or manifestations which are
 significant to the job being performed by the ratee.
- Cognition -- A concept, a mental picture. Also the act of forming a lental picture.
- Continuum -- The relation which exists then several entities are actually verying legrees of the same quality of thing.
- Correlation -- The degree with which two phenomena are related or associated. Correlation implies association only, not causality.
- Correlation, Coefficient of -- The mathematical expression of the degree of association. A coefficient of 1.00 signifies perfect association for, knowing the value of one phenomenon, the personnel manager may predict the value of the other exactly. Coefficients of less than 1.00 indicate that prediction will be less than perfect until, at a coefficient of 0.0,

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there is no relation and prediction will be no better than blind guessing. He pative coefficients have predictive value comparable to that of positive coefficients of the sale numerical magnitude. However, with a negative coefficient, the maximum display of one phenomenon is associated with the minimum of the other and prediction must be made on that basis.

- Distribution -- Any group of acores obtained on the same rating or to tin device and gathered together for consideration.
- Efficiency hating -- This is one name for an assessment of that portion of an individual's value on a job which is made up of intengible qualities not measurable by more objective means. The term is also applied to the blank paper form used to systematize and record this assessment.
- Afficiency Report -- The U.S. Army efficiency rating device for officers. The term "report" carries the connectation that only a description of the rates is being made with the derivation of a rating being postponed until the report reaches headquarters.
- Pitness Report -- The U. C. Navy equivalent of the Army Ifficienc, Report.

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Thomas Smooth -- the dr. to long equivalent or the Amp of the

- Mean -- The aritimetical average of a group of num-
- Median -- The point or number in a distribution which divides the distribution into two equal parts.
- Herit Rating -- 'he Industrial psychologist's equivalent of the fficiency Rating.
- N -- The symbol for the number of subjects participating in an experiment.
- Perception -- That which takes place when an individual becomes aware of the occurrence of a phenomenon or of the existence of an entity.
- Percentile Score -- A score presented in such form that it shows the percents a of the entire distribution which lies below that particular score. Thus a 75th percentile score is higher than 75% of the scores of that distribution.
- Ratee -- The individual who is the subject of the efficiency rating or report.
- Rater -- The person who performs the assessment and makes out the rating form.
- Raw Score -- The actual score attained on a rating.

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Reliability -- That quality of a measuring instrument which causes the device to produce the same result on successive measurements of the same entity.

Reporting Senior -- The Navy's term for the Hater.

- Service Nating -- The name applied to efficiency rating in the field of public personnel administration.
- fervice Report -- The name applied to the efficiency report in the field of public personnel administration.
- Skewed Distribution -- A distribution which has departed from the normal bell-shaped curve and has the major portion of its scores concentrated near one end of the scale.
- Split-Helves heliability -- A kind of reliability determined by dividing the test or rating device into two equivalent parts and correlating the secres on the two parts. The resulting coefficient is known as the split-helves reliability coefficient.
- Standard Deviation -- A statistical concept; a measure of the variability of the distribution. It is determined by taking the square root of the average of the deviations (from the mean) of all the scores in the distribution.

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- Standard Score -- The standard score equivalent of a raw
 score is the deviation of that raw score from
 the mean of the scores, divided by the standard
 deviation of the distribution. The standard
 score is a ratio and as such is comparable to
 standard scores in other distributions. Therein
 lies its usefulness.
- Statistical Significance -- A term applied to describe a difference between two measures. It refers to a convention observed by statisticians whereby, if the
 difference is three times as great as the standard
 deviation of that difference, the chance that on
 repeated measurements the difference will be found
 to occur in the apposite direction is so small as
 to be regligible. Under such conditions, the difference is said to be "statistically significant".
- Subject -- The general term for the individual being subjected to study in an experiment.
- Trait -- A consistency of behavior toward a given stimulus.
- Validity -- The ability of a measuring device to measure that which it purports to measure.

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validity, Face -- Validity hich is a arded to a device by

reason of the fact that it a pears (on considera
tion of its makeup) to measure that hich it pur
ports to measure.

z Score -- A synonym for Standard Score.

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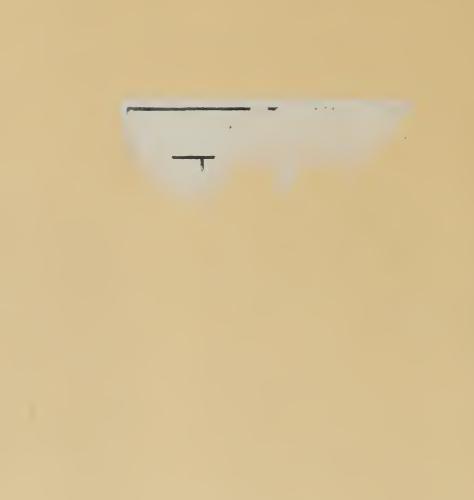


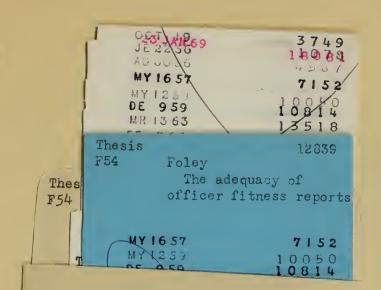












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