# TEACHER BEHAVIOR RATINGS AS A CRITERION OF TEACHER EFFECTIVENESS 

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## INTRODUCTION

It seems to be a matter of common agreement that there exists a need for some adequate measures which might be used as criteria of teaching effectiveness. This need and its recognition have produced a number of discussions of the problem iii the iiterature, such as that by Ryans (5) and by Orleans, et. al. (4). It has also. !ed to the ur.precedented action of the American Educational Research Association which appointed a special committee to investigate the problem of setting up criteria in this area (3). The importance of this problem and the evident inadequacies of existing instruments for this purpose have led to a number of attempts to devise procedures which woujd eerve the purfose more adequately.

In his analytic discussion of criteria of teachirg effectiveness, Ryans (5) indicated that criterion measures should be one of two types: (1) observation of the teacher, and (2) observation of the product of the teacher's efforts, the pupils. The latter referred to the "pupil gain" criterion, and has usually been measured by achlevement tests. With existing tests, however, it seemed to be limited to the measurement of subject matter learning and study skills and to provide no means of measuring pupils' progress toward a number of other important educational objectives of a less tangible naiure. Since it seemed obvious that the learning of the students is, at ieast in part, the effect of the teacher's behavior, the first approach appeared to offer a better and quicker way of developing measures of teacher effectiveness in these non-subject-matter areas.

The purpose of this study was, therefore, taken to be the development of procedures to provida measures of some of these intangible aspects of learning in the classroom, througn the observation of teacher behavior, It was assumed that the behavior of the teacher plays an important part in setting the stage for learning through its effect on the social and psychological climate of the classroom. This would mean that these teacher behavio..'s were assumed to determine to a considerable degree the amount and quality of student learning.

The purpose of the study thus became, more specifically, to develop rating procedures to provide judgments of those teacher behaviors which were thought to be relateo to the development of good pupil-teacher relations, the learning of cooperative, democratic ways of working together, and the development of habits leading to good mental health. The aim was to develop a set of observer rating scales that woild have the following characteristics: (1) the variables to be rated would be psychologicaliy meaningiui and relevant to possible educational objectives, (2) each scale wouid include a single variable, the nature of which would be unambiguous, (3) the ratings would possess some degree of reliability, in the sense that the results obtained from different observers should be relatively consistent, (4) the scales should be usable by professional educators and psychologlsts without requiring an undue amount of special training and experience in the use of these particular scales, and (5) the scales should be relatively free of values in order to make them useful in a wider variety of situations than would be the case if values were made a part of the scales.

## The Rating Scales

The project began with the preparation of a list of some thirty kinds of teacher and pupil behaviors that were thought to be of some significance in a specification of classroom climate and which were thought to affect the learning process. Many of these were nodifications of the ? hisiors of parents listed in the Fels Parent Behavior Rating Scalcs (1), and were based on the tiou fht that parent behavior and teacher behavior have much in common. Others were added which seemed appropriate in the group work situation of the classroom and in the particular relations of children to thei- teachers. All were based on the notion that differences in the achievement of different classrooms are due to real differences in the teachers. It was felt that these differences could be observed. They were also based on the belief that the achievement and growth of the student is affected by such classroom characteristics as warmth, acceptance, permissiventiss, consistency of teacher behavior, opportunity for cooperative group activity, competitive pressures, absence of fear and tension, etc.

This list of behaviors wos theu used in making up a set of ratiog scales patterned after the Fels Parent Behevior Rating bcales (1). Each scale was presented on a separate sheet of paper, and included a deiinition of the behavior to be rated, descriptions of the behavior at various points along the scale, the (graphic) rating scale, and spaces for the score and identifying data. Wirh the addition of a validity scale this gave a total of thirty-two scales. (For the variables and the!: definitions see the copy of the scales, Appendix A.) In using the scales the rater was instructed to indicate two things: (1) his rating, and (2) the limits within which he would consider another rating as being essentialiy in agreement with his rating. His rating was indicated by marking the Une scale at the point corresponding to his judgment. The score based on this rating was simply the distance of this mark in millimeters from the base line. The "tolerance 11 mits" were alsc recorded in millimeters. These "raw scores" formed the information for the subsequent analyses and evaluation of the scales.

## Procedures

The scales were then tried out by two observers in nearby elementary schools. After a short period of preliminary training in class observation, the two observers visited nineteen classrooms in the public schools of central missouri and six classrooms in the University Laboratory School (University of Missouri). In every case the observers visited the classrooms together. The usual procedure was for the observers to take seats in the rear of the room and to remain as unopkrusive as possible. During the observation period they made notes on the activities observed, incidents which occurred, aind observations of the relationships between the teacher and the students. The observation period typically lasted for about one hour. The ratings were usually made later in the day from notes made during the observation. Where possible, the observers also made notes on the rating scales of the kinds of behavior observed which they belleved had influenced the rating.

It had been intended to repeat this series of observations in order to check on the stability of the behaviors rated-- to get a test-retest reliability measures on the scales. Due to the approach of the end of the school year this was not possible.

Of the twenty-five classrooms visited, four presented the observers with situations where the regular teacher had yielded temporarily to a spectalist teacher in one case and to practice teachers in the others. Since it was felt that in these situations the regular patterns of clessroom relations were markedly disrupted, these classes were excluded in making the analysis of the scales. This left data on twenty-one classrooms.

## Results

One requirement that should be met in devising scales of this kind for the use of observers is that when a given situation is observed and rated there should be at least some degree of agrecment between the ratings of the observers. The lack of such agreement would point out the Inadequacy of the scale, the need for either revision or abandonment of that scale. The first analysis of the data of this investigation was aimed at testing the scales against this requirement. The results of the anelysis are given in Table 1, which gives the means and standard deviations for each rater on each scale and the correlation between ratings of observers on each scale.

Examination of Table 1 indicates that there were a number of scales on which there was Little or no agreement between the ratings of the two observers. In inree cases the correlat!on betwaen ratings of the observers was negative. Since these correlation coefficients are, in a sense, reliablity coefficients, it is important that they be high enough to indicate at least some reliability. Taking a correlation of about .50 (i of .49 is significant at .01 level, one-talled test) as an erbitrary minimum to satisfy this requirement eliminated all but twelve of the thirty-two scales. This meant that twenty scales needed to be drastically revised or to be discarded. Presumably, mitror revisions would be sufficient for the twelve scales that had survived this requirement.

## TABLE 1

COMPARISON OF OBSERVER RATINGS ON 2: CLASSROOMS

| Scale | Cbserver A |  | Observer B |  | Inter-observer correlation |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1. Adjustment of Classroom | 56.1 | 13.0 | 60.3 | 13.5 | . 41 |
| 2. Activeness of Classroom | 5 \%.5 | 17.3 | 57.7 | 8.7 | . 75 |
| 3. Discord in the Classroom | 43.0 | 13.8 | 46.8 | 10.2 | . 13 |
| 4. Coordinationof Classroom | 61.3 | 9.6 | 57.1 | 11.5 | . 71 |
| 5. Student-Centeredness of Classroom | 56.0 | 18.5 | 53.8 | 13.5 | . 08 |
| 6. Intensity of Contact | 60.9 | 15.7 | 51.2 | 11.4 | . 22 |
| 7. Restrictiveness of Regulations | 53.5 | 15.1 | 52.4 | 12.3 | . 66 |
| 8. Readiness of Enforcement | 49.4 | 9.5 | 51.4 | 8.5 | . 36 |
| 9. Severity of Actual Peralties | 36.0 | 8.7 | 42.7 | 11.6 | . 06 |
| 10. Justification of Disciplinary Policy as Presented to Child | 42.5 | 8.5 | 51.4 | 9.7 | . 35 |
| 11. Democracy of Reguiation and Enforcement Policy | 32.0 | 10.9 | 49.0 | 14.1 | . 21 |
| 12. Clarity of Policy of Regulations and Enforcement | 56.4 | 7.6 | 54.1 | 19.6 | . 51 |
| 13. Effectiveness of Policy of Regulations and Enforcement | 59.8 | 10.6 | 50.0 | 13.3 | . 78 |
| 14. Disciplinary Friction | 32.6 | 12.1 | 41.1 | 11.9 | . 35 |
| 15. Quantity if Suggestion | 65.5 | 11.7 | 64.8 | 11.5 | . 21 |
| 16. Coerciveness of Suggestion | 66.0 | 10.6 | 56.6 | 13.8 | 34 |
| 17. General Babying | 49.0 | 13.3 | 49.4 | 13.1 | . 13 |
| 18. General Protectiveness | 62.0 | 6.9 | 46.7 | 10.7 | -. 21 |
| 19. Readiness of Criticism | 50.2 | 13.9 | 52.4 | 13.1 | -. 24 |
| 20. Direction of Criticism | 54.5 | 10.1 | 46.1 | 13.2 | . 50 |
| 21. Ritadiness of Explanation | 47.0 | 20.0 | 54.4 | 10.6 | . 57 |
| 22. Solicitous for Student Welfare | 30.8 | 8.9 | 39.5 | 11.2 | . 15 |
| 23. Acceptance of Students | 56.5 | 15.8 | 48.6 | 16.0 | . 51 |
| 24. Emotionality | 37.6 | 11.6 | 38.7 | 8.8 | . 45 |
| 25. Understanding | 55.8 | 12.3 | 51.7 | 14.3 | . 67 |
| 26. Rapport Between Teacher and Students | 60.6 | 14.5 | 47.2 | 15.2 | . 53 |
| 27. Affectionateness | 62.0 | 10.7 | 49.8 | 13.5 | . 69 |
| 28. Intra-Group Activity | 70.1 | 9.6 | 68.6 | 9.1 | . 18 |
| 28. Group Action | 28.6 | 12.4 | 38.3 | 12.2 | . 18 |
| 30. Acceleration | 30.2 | 3.3 | 54.6 | 10.2 | -. 18 |
| 31. Validity | 46.6 | 13.5 | 44.2 | 14.0 | . 62 |
| 32. Teacher Approach to Student s | 65.3 | 13.7 | 57.2 | 12.4 | . 44 |

At this point the analysis was split into two parts: (1) the further study and analysis of the data to aid in a better understanding of what the scales were and how they related to each other, and (2) the isubjactive) re-examination and revision of the scales. A summary of the results of work in these two parts follows in the order given above.

Part 1. A complete matrix of intercorrelations was obtained for the ratings of each observer (Tables 2 and 2). Two attempts were then made to datermine in what manner the variables tended to cluster together.

The first of these ivas performed upon the intercorrelations of the twelve variables which hat been found to possess some degree of reliability (as defined by inter-observer agreement). The procedure for the determination of a cluster consisted of inspecting the inter-correlations and selecting those variables which correlate highly with each other and little or rot at all with the other variables. Use of this procedure revealed what appeared to be two clusters (Tables 4 and 5).
TABLE 2
INTERCORAELACIONG OF RATLNGS OF ORSERVER A*

table 3
intercohrelations of ratrag of observer b*

| Virinble | 2 | 3 | 4 | 3 | 8 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 38 | 27 | 28 | 18 | 30 | 11 | 32 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. Ad ukement of Cieneroom | 27 | -72 | 56 | 58 | 26 | -33 | 12 | -16 | 73 | 81 | 38 | 71 | -87 | -02 | -26 | . 07 | 32 | -38 | 16 | 64 | 32 | 68 | -81 | -9 | 65 | 38 | . 09 | 17 | -n0 | -38 | -42 |
| 2. Activelisest of Cisesroom |  | 18 | -02 | 36 | 69 | . 31 | 03 | -18 | 37 | 22 | -11 | 02 | 03 | -26 | -17 | 01 | 47 | 04 | 43 | 58 | 50 | 82 | 04 | 1 | 34 | 87 | -33 | 40 | 26 | -11 | -83 |
| 3. Discord in the Clesaroom |  |  | -68 | -43 | -21 | 23 | -31 | 11 | -58 | -91 | -93 | -78 | 67 | -6 | 07 | -23 | - 36 | us | -60 | -49 | -40 | -44 | 44 | 4 | -41 | -36 | vo | -31 | 00 | 18 | 22 |
| 4. Coordinatlis of Cleseroom |  |  |  | 21 | -04 | 15 | 57 | 34 | 47 | 01 | 88 | 74 | -61 | 28 | 22 | -17 | 38 | -10 | 33 | 16 | 14 | 16 | -! 8 | 16 | 06 | 09 | 12 | -04 | 09 | -33 | -09 |
| 5. Student-C enteradness |  |  |  |  | 66 | -24 | :7 | O8 | 40 | 44 | 23 | 37 | -25 | -01 | -15 | 12 | 18 | (1) | 35 | 38 | 22 | 49 | -26 | 32 | 54 | 39 | -11 | 38 | 45 | -12 | -51 |
| 6. Intensti, Cl Contect |  |  |  |  |  | - 29 | 14 | 08 | 49 | 17 | 05 | 06 | 00 | 17 | 11 | 33 | 47 | :1 | 31 | 82 | 44 | 48 | 23 | 4.3 | 37 | 42 | -14 | 11 | so | 20 | -61 |
| 7. Hestrintlveneas of Regul. |  |  |  |  |  |  | 3 c | 65 | -47 | -61 | 10 | -11 | 16 | 62 | 91 | 30 | -06 | 38 | - 58 | . 56 | -28 | -83 | 24 | -59 | -63 | - ${ }^{0}$ | 73 | -4 | :3 | 19 | so |
| 6. Readimes of Enforcement |  |  |  |  |  |  |  | 52 | 38 | -25 | 53 | 3: | -33 | 68 | 74 | 03 | 33 | 41 | -09 | -26 | 10 | -20 | 02 | -33 | -34 | -32 | 58 | -12 | 01 | $0 \cdot$ | -05 |
| 9. Sevrilty of Penatiles |  |  |  |  |  |  |  |  | 03 | -46 | 06 | 00 | 26 | 36 | 82 | 08 | 20 | 31 | -32 | -34 | -13 | -43 | 23 | -17 | -32 | -48 | 42 | -10 | 53 | -00 | 05 |
| 10. Justificalior of Pollicy |  |  |  |  |  |  |  |  |  | 58 | 46 | 80 | -56 | 11 | -21 | 04 | 57 | -co | 86 | 57 | 38 | 65 | -36 | 51 | 53 | 60 | -17 | 44 | 02 | -33 | -35 |
| 11. Dewocrecy of Pollicy |  |  |  |  |  |  |  |  |  |  | 06 | 24 | -23 | -45 | -43 | . 15 | 26 | - 30 | 62 | 80 | 36 | 93 | -32 | 71 | 79 | 4 | -60 | 49 | -02 | -73 | -* |
| 12. Clarlty of Polley |  |  |  |  |  |  |  |  |  |  |  | 83 | -78 | 34 | 16 | -01 | 33 | 00 | 37 | 10 | 10 | 10 | -31 | 04 | 98 | -0.s | 23 | 10 | -20 | -21 | - 30 |
| 13. Effectiverese of Polley |  |  |  |  |  |  |  |  |  |  |  |  | - 80 | 16 | 05 | 04 | 33 | -14 | 84 | 26 | 20 | 28 | - 32 | 21 | 20 | 14 | 12 | 30 | -01 | -12 | -30 |
| 14. Disciplinary Friction |  |  |  |  |  |  |  |  |  |  |  |  |  | -11 | 10 | -02 | -30 | 19 | -53 | -28 | -16 | -27 | 61 | -04 | . 20 | -23 | -13 | -13 | 35 | 16 | 17 |
| 15. Quantliy uf Sugetetion |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 83 | 22 | 29 | 88 | -20 | -35 | -26 | -46 | 13 | -34 | -34 | . 53 | 76 | -31 | 16 | 17 | ) ${ }^{\text {a }}$ |
| 16. Coercivenese of Sucrastion |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 00 | 32 | 68 | -48 | -48 | -22 | -54 | 28 | -45 | . 50 | . 56 | 70 | -36 | 19 | 36 | 13 |
| 17. General Rabying |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 44 | 28 | 16 | 20 | 34 | -18 | 18 | -04 | 1. | Os | :0 | -39 | 03 | 11 | 20 |
| 16. General Proteclivenesx |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 33 | 38 | 41 | 67 | 21 | 08 | 12 | 29 | 33 | 11 | 6 | 12 | -17 | -23 |
| 18. Resdimes of Criticlem |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | -05 | -13 | 13 | -25 | 50 | - 32 | -09 | -34 | 34 | 118 | 30 | 50 | -15 |
| 20. Direction of Criticlerr |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 80 | 53 | 19 | -37 | 59 | 33 | 73 | -49 | 12 | 06 | -27 | -58 |
| 21. Rredinese of Explanation |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 36 | 82 | -24 | 83 | 69 | 63 | -52 | 46 | 16 | -19 | -51 |
| 22. Solletioue fo- Welfere |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 30 | 10 | 16 | 36 | 49 | -2.7 | 45 | 28 | -19 | -27 |
| 23. Acceptence of Studeme |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | - 30 | 78 | 89 | 38 | -68 | 5 | 04 | -21 | -71 |
| 24. Emotionality |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | -36 | . 26 | -39 | -05 | 07 | 22 | 24 | -19 |
| 25. Understaxding |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 63 | 62 | -50 | $: 3$ | 10 | - 34 | -44 |
| 28. Rappo.t |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 64 | -61 | 30 | 20 | -21 | -59 |
| 27. Affictionateness |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | -61 | 34 | 04 | -33 | -42 |
| 28. Irirs-Group Activity |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | -tis | -02 | 13 | 41 |
| 29. Gresp Action |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 32 | 010 | -62 |
| 30. Acceleration |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.1 | -29 |
| 31. Valldity |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $0:$ |
| 32. Teacher Approarh |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

The first cluster included eight variables (Tables 4 and 5):
2. Activeness of Classroc.7
7. Restrictivenessof Rr juiations (negative relatior cidpl
20. Direction of Criticasm (Approval)
21. Readiness of Expieration
23. Accopiance of Students
25. Understanding
26. Rapport between Teacher and Students
27. Affectionateness

This cluster was tentatively called the "warmth" cluster since all the variables seem to indicate the eotablishment of a comfortable and pleasant relationshlp between the teacher and the students.

The second cluster contained three variables (Tables 6 and 7):
4. Coordination or Classroom,
12. Clarity of Policy of Regulations and Enforcement,
13. Effectiveness of Policy of Regulation and Enforcement.

This appears to be a "stability" or "maintenance of order" type of clustur, since all the variables appear to indicate the presence of efficiency and planned organization of the classroom.

One variabie of the twelve, 31. Valldity, did not enter either of the two clunters. This variable was designed to indicate the extent to which the presence of the observers in the classroom altered the climate and conduct of the cless.

The second analysis made of the way in which the variables cluater together was performed in the mame way on the complete set of intercorrelations of the ratings made by Obseryer B. Athough more confuaing because of the larger r.umber of variables involved, the results of this socond analyals appear to be very similar to those obtained in the first analysis. The largest and cleareat cluater again appears to be a type of "warmth" cluster and includes all the variables asaigned to that cluster in the first analysis. In all, the cluster contained twenty-two variables. The variables assigned teaiantively to this cluster with poaltive loadinge were:

1. Adjustment of Classroom
2. Activeness of Classroom
3. Student-Centeredness of Classroom
4. Intensity of Contact
5. Justification o: Disciplinary Policy as Presented to the Child
6. Demecracy of Regulation and Enforcement Policy
7. Direction of Criticism (Approval)
8. Readiness of Explanation
9. Acceptance of Students
10. Understanding
11. Rapport between Teacher and Students
12. Affectionateness
13. Group Action

The variables assigned to this cluster with negative loadings were:
7. Restrictiveness of Regulations

日. Severity of Actual Penalties
15. Quantity of Suggestion
16. Coerciveness of Suggestion
10. Readiness of Criticism
23. Irtra-Group Activity
30. Acceleration
31. Validity
32. Teacher Approach to Students

Table 4
Intercorrelations of Variables of Cluster I for Cbserver A

| Variable | 7 | 20 | 21 | 23 | 25 | 26 | $2 ?$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2. Activeness of Classroum | -. 17 | . 38 | . 35 | . 37 | . 61 | . 78 | . 58 |
| '7. Restrictiveness of Regul. |  | -. 48 | -. 64 | -. 52 | . 03 | -. 52 | -. 40 |
| 40. Direction of Criticism |  |  | . 46 | . 67 | . 33 | . 63 | . 60 |
| 21. Readiness of Explanation |  |  |  | . 38 | . 34 | . 64 | . 29 |
| 23. Acceptance of Students |  |  |  |  | .61 | . 81 | . 60 |
| 25. Understanding |  |  |  |  |  | . 47 | . 51 |
| 26. Rapport |  |  |  |  |  |  | . 64 |
| 27. Affectionateness |  |  |  |  |  |  |  |

Table 5
Intercorrelations of Variables of Cluster I for Observer B

| Variable | 7 | 20 | 21 | 23 | 25 | 26 | 27 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2. Activeness of Classroom | -. 61 | . 43 | . 56 | . 62 | . 47 | . 53 | . 67 |
| 7. Restrictiveness of Regul. |  | -. 58 | -. 58 | -. 83 | -. 58 | -. 65 | -.80 |
| 20. Direction of Criticism |  |  | . 80 | . 78 | . 58 | . 83 | . 73 |
| 21. Readiness of Explanation |  |  |  | . 82 | . 83 | . 88 | . 85 |
| 23. Acceptance of Students |  |  |  |  | . 78 | . 89 | . 88 |
| 25. Understanding |  |  |  |  |  | . 83 | . 82 |
| 26. Rapport |  |  |  |  |  |  | . 86 |
| 27. Affectionateness |  |  |  |  |  |  |  |

Table 6
Intercorrelations of Variables of Cluster II for Observer A

| Variable | 12 | 13 |
| :--- | :--- | :--- | :--- |
| 4. Coordination of Classroom | .54 | .00 |
| 12. Clarity of Policy |  | .62 |
| 13. Effectiveness of Policy |  |  |

Table 7
Intercorrelations of Variables of Cluster II for Observer B

| Variable | 4 | 12 | 13 |
| :--- | :--- | :--- | :--- |
| 4. Coordination of Classroom | .68 | .74 |  |
| 12. Ciarity of Policy |  | .83 |  |
| 13. Effectivesiress of Policy |  |  |  |

The second cluster obtained in this analysis of the ratings of Otserver $\mathbf{B}$ appears to be the same as the second cluster obtained in the first analysis. It contains the same variables and appeared to be a "stability" or "maintenance of order" cluster. It contained four variables:
4. Courdination of Classroom
12. Clarity of Policy oí Regulations and Eutorcement
13. Effectiveness of Policy of Regulation and Enforcement
8. Readiness of Enforcement

This more complete analyais was not done on the intercorrelations of the ratings of Observer A. Although there were some differences and the correlation coefficients of Observer A were in general amaller, it was observed that they tended to follow the same general patiern as those of Observer B.

It would seem that the results of these cluster analyses are essentially in agi ement with the factors reported recently by Ryans (8) in his study of teacher behaviors in the demsntary echool. Ryans found five oblique 'ictors which he described as: A, Originality, aidaptability and tolerance; B, Businesslike vs. disorganized, Irresponsible approsch; C. Understanding, fair vs. unfriendly, domineering; $D, S$ ociabluty; and E, Appeirance. The second cluster found in the present study, the "stability" or "maintenance of order" cluater, seens to be much like Ryans" factor B, Businesslike ys, disorganized, irresponstile approach. The firat cluster, the "warmth" cluster, appears to correspond to Ryans' factcrs A. C, and D. It would not be unreasonable to suppose that with a larger number of cases and with ita more rigorous procedures of factor analysis, this "warmth" cluster might yield several factors of the type indicated by Ryans. Since the present atudy included no scales dealing with teacher appearance, no clusters could be expected to correspoud with Ryans' factor $E$.

In the course of the preceding analyses a phenomenon was observed that appeared not to be directly related to the main investigation, but which appeared to be both lmportant and interesting. In a number of cases it was observed that the raters had disagreed on the ratings to be assigned teachere on a pali of acales, i.e., the correlation between raters was low. Yet when correlations were run between the scales (for each rater) the acales were found to be related. Take the following combination, for instance:

| Variable | 5 | 6 |
| :---: | :--- | :--- |
| 5 | $.08(a)$ | $.65(b)$ |
| 6 | $.88(c)$ | $.22(d)$ |

In this case (a) and (d) are correlation coefficients representing the degree of interobserver agreernent; (b) is the correlation between the two acales based on ratings of Observer $A$; and (c) is the correlation betwesn the two scales based on ratings by Observer B. What was the mearing of this sort of thing? Does it indicate a preatructuring of the phenomena of the clasaroom In the minds of the observers as suggested as a possibility by Ryans (6)? And that cluster or factor anciyais ravaels only the etructure of a part of the observer's value ayatem? Or is it merely evidence of the presence of the "halo" effect? No answors to these questions could be found in the data at hand.

Part 2. The evidence on ecale reliability given above indicated the nscesaity of reviewing and revising many of the rating scales that had been constructediand tried out. At least twenty of the scales needed to be revised to make them more reliable before furtrer work with them could be justified. The scales were, therefore, re-examined with special attention to those on which the agreement of the observers was low. This reconsideration resulted in the discovery of several characteristics of some of the scales that may have been contributing to this lack of reliability.

In the first place, there were a few scales winch the observers felt could not be used because the observation period praitded no opportunity to observe the behavior with which the scale was concerned.

In these cases one observer refused to make a judginent, the other made ratings which were in the nature of predictions of what the teacher's behavior wouid be in that kind of situation. This was noticeably true for scales 18, General Protectiveness and 22, Solicitous for Student Welfare.

Second: it became more apparent that a number of the scales were not confined to a single, unitary dimension; that some scales included two or more kinds of behavior that were not aecessarily closely associated. This was found to be true of even some of the scales that showed a satisiactory degree of inter-observer agreement. For example, scale 2, Activeness of Classroom, was composed of elemeats of activity and of tension. Scale 5, Student-Centeredness of Classroom, was built around the notion of meeting student needs. But observation indicated that the teacher, rather than ignoring student needs, was usually sacrificing some needs ius vihers. This brought up the ques:ion of who is to define student needs--should the ratings be made on the degree to which the teacher is meeting the student needs as defined by the school board, the teacher, the pupil, or the observing psychologist? On scale 15, Quantity of Suggestion, one rater assigned two values to one teacher. The teacher was giving many detalled suggestions at soma times (especially in initiating student activities), and in other phases of the activities was avoiding making any suggestions. Did this indicate the need for more than one scale, with each devoted to a particular kind of activity in the teaching process? . Scale 21, Readiness of Explanation, included both explanation of the assigned topic and explanation of "irrelevant" aubjects brought up by the students. Teachers often differed in readiness to explain these different kinds of topics. On scale $2 \varepsilon$, Intra-group Activity, there was apparently some confusion as to whether to rate on the basis of "planned" interactions or "casual" interactions, or both. There were other scales for which experience and data indicated the need to split the scale ato two or more additional scales for one reason or another, but the ones mentioned are perhaps typical.

Third, many scales appeared to need a more explicit definition of the behavior to be observed and of the points on the scale itself. It was discovered that the two observers had tended to base their ratings on different kinds of observed behavior: one rated as much as possible on the basis of student behavior, the other tended to prefer to observe and rate the behavior of the teacher. Insofar as the scales allowed these differences in the a!proach of the observers to the rating situation, the scales were at lault. It was felt that this was also contributing to the lack of agreement between the ratings of the two observers.

Another problem arose in connection with the question of values. The attempt had been made to construct scales that would be relatively free of value considerations with the idea that values could be applied later by persons using the scales. However, it became evident that the scales varied in the effects produced by this process of attaching values. Some of the scales survived the process rather well, the attachment of values resulting in the highly valued activity falling at an extreme of the scale. But many became "double-ended" or curvilinear when values were attached, with both extremes represening undesirable conditions and the most highly valued activity falling somewhere within the scale. This observation posed a problem that should have been foreseen and worked out ahead of time if the scales were to be of practical inse.

This insertion of the problem of values and educational objectives forced a reconsideration of some of the assumptions underlying the whole research project: the nature and relevance of educational objectives, the general nature of any criterion, and the relations of both of these to any proposed criterion measures.

In summary, then, at this point it was seen that most of the rating scales were unreliable in use although the cluster analyses indicated that they were tapping some of the kinds of variables that many have considered to be important. A review of the scales indicated a number of ways in which they might be improved so as in increase their reliability. However, it was also discovered that the applicalion of value judgments to the scales (a step necessary if they were to be used as criteria) led to a situation which would be very inconvenient in the analysis of results when the scales were used as criterion measures. Thus the problems of rellability and practicality forced a reconsideration oi the whole criterion problem in the effort to find a means of re-casting the 1. We would like, at this point, to thank Dr. Kennsth B. Brownfor bringing this matter to our attention.
measuring instruments into a form that would be reliaiole and that could handle in some way the values that must eventually be attarhed to the measurements.

## A Reconsideration of the Problem

After a considerable amount of reading and thinking about the se questions it became increasingly apparent that this type of approach to the criterion, popular as it may be, has some serious drawbacks from a theoretical standpoint. Educators seem to be in agreement on the whole, on the ultimate objectives of education, and therffore on the ultimate criterion which may he taken to be the student's performance in late- life (3). Since the ultimate criterion is not one on which measures can readily.be gained, if becomes necessary to resort to some type of intermediate criterion measures. Accordingly, they have had recourse to such things as measures of pupil achievement, ratings of teacher behavior, tests of qualities presumed to be associated with teaching effectiveness, and the teacher's record as a college student (2). At the present time the first two of these are :he only ones that appear to be considered seriously as criterion measures (3, 5, 7). The present study began with the object of developing improved measures or instruments for the rating of teacher behavior. It is now seen that the project ran into difficulties. It could not have been otherwise. An intermediate criterion measure, to be useful'as a criterion measure, must be related to the ultimate riterion (8). This relationship must often be assumed. The question in this study became, then, une of how large an assumptic. ssould be made. For such measures as those of pupil achievement the assumption of relevance to the ultimate criterion can be made easily-it seems reasonable to assume a relationship between what a student learns now ard what his behavior will be when he leaves school. Tise same assumption cannot as readily be made about the relation between what the teacher does and what the student does in later life. In the first place, this assumption requires ore more "jump" from the ultimate criterion than does the "pupil gain" criterion. In the second place, it has been repeatedly observed even by those advocating its use, that a teacher behavior criterion is faced with zertain serious problems (2, 3, 4, 8). Different teachers showing what appears to be the same behavior get different results from the student. It appears that different students react differently to the teacher exhibiting this behavior. It has also been noted that teachers showing different behaviors sametimes attain similar results. In other words, to predict student outcomes from teacher behavior would require a combination (the nature of which has yet to be demonstrated) of teacher personality (specific traits unknown), teacher behaviors (unknown), and the special situation in which the teaching is done (the significant variables in this situation are also unknown $)^{2}$. The evidence is clear. It is utter folly to continue to assume a simple relationship between simple teacher behaviors and the ultimate criterion of education. The attempt to develop an adequate measure of teacher behaviros for use as a criterion measure has, therefore, been abandoned.

## Plans for Future Research

The purpose of this project, the development of measures of some of the intangible aspects of learning in the classroom, will be ratained. But the attention will be shifted from the behavior of the teacher to the behavior of the students in the class. Experience of the project stalf and of others irdicates that a great deal can be learned from the observation of students (8). If a devicu could be developed to help the observer see and report the student behaviors in the classroom, and to help him organize these observations according to their meanings, the result would be a measuring device that would fall into the same category oi criterion measures as does the "pupil gain" criterion, which, as indicated above, does not require assumptions that are too remote or which are contrary to fact. The goai of this part of the project, then, will be to produce, an illustrative device of this sort and to try it out.

What seems to be indicated as necessary in such an instrument $\varepsilon^{\text {net }}$ the following: (1) emphasis on student behavior, (2) specific behavicr descriptions, (3) definite provision for application of values to the scales, and (4) a format which would be not ton time-consuming. The project stalf 2. A formulation similar to this one was presented by N. L. Gage at the 1853 Convention of American

Personnel and Guidarce Association, Chicago, April 1, 1853.
is now engaged in the development of such an instrument.

## Summary

1. An atterapt was made to formulate a series of teacher behavior rating scales which would serve as criterion measures in the study of teaching effectiveness.
2. The scales were tried out by two observers in twenty-one elementary school classrooms. The reaults showed some degree of reliability (inter-observer agreement) for twelve of the thirtytwo scales. Three possible reasons for the unreliability of the remaining scales were presented: (a) the attempt to rate behavior that occurred too infrequently, (b) inadequate specification and defintion of behavtors to be rated, and (c) permitting the observers to base their ratings on the observation of either student or teacher behavior.
3. A cluster analysis of the results Indicated that there were probably two clusters of Importance inclucied in the scales: (a) a "warmth" cluster, and (b) a "maintenance of order" cluster.
4. A reconsideration of the critetion problem indicated that this type of approach leads to results that are logically unacceptable as criterion measures, and that an approach utilizing observaion of student behaviors would be more acceptable.

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APPENDIX A
The rating scales

Teacher $\qquad$ Date of Observation $\qquad$
Grade $\qquad$ School $\qquad$ Fioom $\qquad$ City $\qquad$

ADJUSTMENT OF CLASSROOM
(Well ad jus ted - Malad jus ted)
Rate the general internal adjustment of the class as a whole in its day-by-day relationships. Is the classroom atmosphere characterized by satisfaction, stability, achievement, and happy adjustment; or by thwarting, unpleasantness, repression, and insecurity?

This is a broad variable, including conflicts amcng persons, among motives, or with obstacles. Conilicts may be emotional, social, economic, or physical; both overt and covert. Rate the total con-figuration--the quality of the students' classrocm atmosphere.

| - | Exceedingly well-adjusted. Characterized by pleasant cooperation, security, and full satisfactions throughout. |
| :---: | :---: |
| - | Fundamentally sound adjustment, but with minor conflicts here and there. |
| - | Fairly smooth on surface, bit suggests inducement of repression or insecurity. |
| - | Definite evidence of mild malas justment throughout. |
| - | Dominated by maladjustment, coloring most class activities |
| - | Extreme maladjustment; torn with conflict, repression, and insecurity. |

Score $\qquad$ Fater $\qquad$ Date of rating
Tclerance Range $\qquad$
Rater's remarks:

Teacher $\qquad$ Date of observation $\qquad$
Grade $\qquad$ School $\qquad$ Hoom $\qquad$ City $\qquad$

> ACTIVENESS OF CLASSPOUM (Ac tive - Inac tive)

Rate the $g$ neral activity level of the classroom, taking the class as a whole. Is tiie classroom a taosphere active, quick, and alert; or is it inactive, slow, and inert?

This is a broad, general varialle, including amount and quickness of activity, alertness, decisiveness, and tension, insofar as they are manifest overtly as part of the students' environment.

- Classroom extremely bustling, busy, excited, tense.
- People in classroom move quickly, talk rapidiy, work with dispatich. Classroom alert, wide-awake, moving, decisive.
- People move, tialk, and work without haste, but with some dispatch. Classroom alert, but not hypertense.

People move, talk, and walk with leisurely dejiberateness. Classroom relaxed, but not lackadaisical.

People move slowly, talk slowly, work slowly. Classroom passive, relaxed, easy-going, indecisive.

Classroom poky, lackadaisical, lazy, slow-moving, procrastinating.

Score $\qquad$ Rater $\qquad$ Date of rating $\qquad$ Tolerance Range $\qquad$
Rater's remarks: (continue on back of sheet)

Teacher $\qquad$ Date of Observation $\qquad$
Grade $\qquad$ School $\qquad$ Room $\qquad$ Sity $\qquad$

DISCORD IN THE CLASSKOOM
(Conflict - Harmony)
Rate the extent to which the classroom surrounds the students with an a toosphere of overt conflict, discord, unpleasant argument, recrimination, quarreling, complaining. Is the atmosphere marked by unpleasant discord among individuals? Or are the interpersonal relations of the classroom typically harmonious, friendly, and agreeable?

Include inter-student and student-teacher discord. Disregard other types of maladjustment, as worry, insceurity, illness, and cyricism. Include only insofar as it impinges more or less directly on the students.

```
C Classroom flies into vindicative recrimination, oitter
    - dispuics, on slightest provocation.
    Underl-ging disoords often break through the general sur-
    - face narming ds snarp arguments or ili-natured sarcasm.
        Frequerit uipleasant wrangling, squakbling, complaining.
        Harmonious tasic relationships, overiaid with a good deal
    - of surface coatention, bickering, and teasing.
    Tolerant, friendly. Arguments terd to be good-natured.
    - Teasing occasional. Quarrels rare.
    Peaceful, harmonious, agreeable a tmosphere reigns. Class-
    - room harmony disturbed only under rare and extreme circum-
        stances.
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Score $\qquad$ Rater $\qquad$ Jate of rating $\qquad$ Tolerance Range $\qquad$
Rater's remarks:
(continue on back of shect)

MISSOURI TEACHEF EEHAVIOR RATING SCALE NO. 4

Teacher $\qquad$ Date of Observation $\qquad$
Grade $\qquad$ School $\qquad$ त̄̃ocr. $\qquad$ City $\qquad$

COORDINATION OF CLASSROON: (Coordinated - Chaotic)

Rate the routine functioning of the classroom as to 1 ts smoothness of organization. Is it effectively planned ard crocitai? Or is it uncoordinated and chaotic?

Rate on basis of effectiveness in operation rather than tendency to systematize every detail. Include care of telongings, coordination ef schedule, planning, and general efficiency of organtzation as it works in practice. Disregard variation in aesthetic standards, style: quality and quantity of equipment, etc.


Teacher $\qquad$ Date of Observation $\qquad$
Grade $\qquad$ School $\qquad$ Room $\qquad$ Ci．ty

STUDENT－CENTEREDNESS OF CIASSKOOM （Student－centered－Student－subordination）

Rate the organization of the classroom according to the degree to which it is built around the students＂needs ard welfare．Are the apparent needs of the students considered acore the needs of the teacher to gratify himself in terms of his pleasure，desire to avoid work，or to rigidiy foilow his schedule？

Eehavior is student－centered to the extent to which it involves sacri－ fice of pleasure，corvenience，opportunity，etc．，in attempting to benefit the students．


Score Rater $\qquad$ Date of rating $\qquad$
Tつミロánce Rane＿＿＿
Rater＇s remariks：（continue on back or sheet）

$$
\text { MISSOURI TEACHER EEHAVIOR RATING SCALE NO. } 6
$$

Teacher $\qquad$ Date of Observation $\qquad$
Grade $\qquad$ School $\qquad$ Room $\qquad$ City $\qquad$

INTENSITY OF CONTACT
(Vigorous - Inert)
Rate the reactivity of the teacher during contacts wi th the students. Does the teacher react readily and vigorously; or does he tend to disregard the students as much 3.5 possible?
"Reactivity" includes both initiating social intercourse with the students and responding to stuient initiative. It includes attention suggestion, affection, coercion, help, conversation, criticism, information, play, scolding, threatening, explaining, etc.

Rate only on situation where there is opportunity for stimulation-independent of duration of contact.


Teacher Date of Observation $\qquad$
Grade $\qquad$ School $\qquad$ Room $\qquad$ City $\qquad$

RESTRICTIVENESS OF REGULATIONS
(Restrictiveness - Freedom)
Rate the restricifveness of the regulations set up or implied by the teacher as standards to which the students are expected to conforin. Are the requirements numerous and severe; or few and mild? In meeting these standerds would the child be highly circumscribed in his behavior, or would he still have a large measure of freedom?

Disregard whether requirements are sharply codified rules, or merejy implied in the disciplinary policy. Disregard the teacher's motives and methods of enforcement. Include both prohititions and positive requirements. Consider the standards expected, regardless of how well they are enforced.


Score $\qquad$ Rater $\qquad$ Date of rating $\qquad$
Tolerance $\qquad$
Range $\qquad$
Rater's remarks: icontinue on back of shoct)

Teacher $\qquad$ Date of 0 bservation $\qquad$
Grade $\qquad$ School $\qquad$ Room $\qquad$ City $\qquad$

## READINESS OF ENFORCEMENT <br> (Vigilant - Lax)

Rate the teacher's tendency to enforce the standards of conduct set up for the students. Does the teacher follow up to see that the student conforms, or sustains a penalty? Or are lapses in compliance disregarded?

This variable appiles only to situations where there is an opportunity for the teacher to enforce an accepted standard which has been, is being, or is about to be violated oy the stident. Disregard the method of enforcement and the severity of penalties, Disregard effectiveness of enforcement and clarity to the child of standards involved. Do not confuse with the non-regulational type of teaciner duninatiun eovered by the "suggestion" scales.

Eternally vigilant. Goes out of way to discover and disci-- pline misconduct. often pounces before lapse occurs.

Seldom lets student "get away" with anything. Enforces

- ruies strictly whenever violations come to attention, but seldom deliberately hunts for misbehavior.

Moderately firm. Strict about important requirements and

- prohibitions; but rather lax withmiror violations, especfally when they are not an issue at the moment.

Reluctant to enforce standards. Tends to overiook violations - unless they are flagrant, cumulative, or threaten serious consequences.

Extremely lax. Disregardis obvious mistehavior. Enforces

- regula iicns only when pressed by the strongest motives or the severest circumstances.

Score $\qquad$ Rater $\qquad$ Date of rating $\qquad$
Tolerance Range $\qquad$
Rator's remarks:
(continue on back of sheet)

## MISSOURI LEACHER EEHAVIUR RATITG SCALE NO. 9

Teacher $\qquad$ Date of Otservation $\qquad$ .

Grade $\qquad$ School $\qquad$ Foom $\qquad$ City $\qquad$

## SEVERITY OF ACTLAL PENALTIES <br> (Mild - Severe)

Rate the severity of penaities imposed wiken wacher tanus ufficial notice of misconduct. Are penalties acutely severe, or light and inconsequentiali

Do not consider situations where teacher entirely disregards misconduct, invoking no penalties. Include all censorial reactions from mild verbal. reproof to severc corporal punishment and removal of privileges. Consider only such situations as come under express or implied regulations and standards. Try to judge the penalties in terms $=f$ their negetive motivating power for the students.

| - | Severe penalties, frequently stimulating students to dread, terror, or deep personal resentment. |
| :---: | :---: |
| - | Rather severe on the whole, but inclined to te lenient in extenuating circumstances. |
| - | Moderate penalties. Severe enough to have definite motivating power for the child; but not so severe that the students are overinhibited, severely frightened, or deeply resentful. |
| - | Mild penalties predominate. iday be severe in critical situation; but penalties often seem too mild to have much motivating power. |
| - | Most flagrant misbehavior provokes no penalty more severe than weak verbal remonstrance. Penalties are so light that their potency for the students is negligible. |

Score $\qquad$ Rater $\qquad$ Date of rating $\qquad$
Tolerance
Range $\qquad$
Rater's remarks:

Teacher Date of Observation $\qquad$
Grade $\qquad$ School $\qquad$ Room $\qquad$ City $\qquad$

JUSTIFICATIOA OF DISCIPLINARY POLICY AS PRESENTED TO THLE CFILD
(Kational - Arbitrary)
Rate the teacher's tendency to explain to the students the reasons for requirements and penalties. Does the teacher attempt to put all discipline on a rational basis? Or are his policies presented in a purely arbitrary fashion to the child?

Disregard restrictiveness of reguiations, and readiness and severity of enforcement. Disregard the clarity with which regulations are codified and the extent to which they are democratically set up. Include all control measures, whe ther pertaining to established policies or merely involving immediate suggestion.

Goes out of way to show students praciical reasons be-- hind requirement and suggestions, even in emergencies or where explaining is difficult.

Attempts to explain policies to students, as a general rule: - but frequently arbitrary where the issue is very critical or complex.

No apparent tendency favoring either the peremptory or

- the rational approach to student control..

Arbitrary in most matters. Does not justify policies unless - pressed. Ofter avoids the issue, or invokes moral precepts as reasons.

Never explains policies to students. Handles discipline

- in very arbitrary fashion, expecting students never to question "why."

Score $\qquad$ Rater $\qquad$ Date of rating $\qquad$
To le rance Range $\qquad$
Rater's remarks: (continue or back of sheet)

## MISSOURI TEACHER EEHAVIOR RATII:S SCALE NO. 12

Teacher $\qquad$ Date of Observation $\qquad$
Grade $\qquad$ School $\qquad$ ROOM $\qquad$ C1ty

## DEMOCRACY OF REGULATION AND ENFORCEDENT POLICY (Democratic - Dictatorial)

Rate the teacher's tendency to share with the students the formulation of regulations for the students' conduct. Does the teacher give the students voice in determinirg what the policy shall be? Or does the teacher hand down the established policy from above?

Disregard immediate issues not covered by policy (see Coerciveness of Suggestion). Rate independent of justification of policy to $s$ tudents, and independent of restrictiveness of regulations. Include both overt consulting with students and considering students' expressed whenes. Dictatorial policies may be wise or foolish, benevolent or sedísh.


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Peacher
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Grade

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``` School
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``` Room
``` \(\qquad\)
``` City
CLARITY OF POLICY OF REGULATiONS AND ELFOKCEEENT
(Clear - Jague)
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$\qquad$
$\qquad$

Rate the clearness with which the teacher's standards of student conduct are manifested to the students. Are regulations and requirements clearly formulated and corsistently executed, so that the students should be atle to know what is expected of them and what will happen if they fail to conform? Or are the teacher's standaras ard policies so vague or fluctuating that tile student ias little chance of adjusting?

Schedule and other stardards are precisely formulated and - adhered to meticulousiy. feacier goes out of way to maintain clear, consistent policy regardless of specjal circunstances.

Policies are sometimes adjusted to nee $\dot{t}$ unusual circumstances but on the whole they are clear-cut and corsistent.

There is a core of reasonable consistency about teacher's policy, which serves as a stable basis for adjustreiat despite numerous minor fluctuations and vagueness about details

Standards are usually formulated, tut exceptions and modi-

- fications are frequent enough to keep students readjusting. Schedule often upset.

Regulations vaguely formulated. Enforcement uncertain and

- inconsistent. Student basis for adjustment is slight, even in. some major matters.

Policjes of teacher in deaing with students are so erratic, - unformulated, and incorsistent that students never know what to expect. Schedule craotic.

Score $\qquad$ Fater $\qquad$ Jate of rating $\qquad$
Tolerance Range $\qquad$
Rater's remarks: (continue on back of steeet)
reacher $\qquad$ Vale ufa ôusedvátúan $\qquad$
Grade $\qquad$ School $\qquad$ Room $\qquad$ City

## EFFECTIVENESS OF POLICY OF REGULATIOI:S RAD ENFORCEMENT (Successful - Unsuccessful)

Rate the degree to which the student conduct meets the $s$ standards set by the teacher. Are the students well-behaved? Or do the students fail to meet the requirements implied in the teacher's control policy?

Rate in terms of the students' net overt behavior, disregarding the amount of coercion, threats, penalties, etc., employed in producing the behavior. Disregard student inner conflicts in conforming.


## Score

$\qquad$ Rater $\qquad$ Date of rating $\qquad$
Tolerance
Range $\qquad$
Rater's remarks: (continue on back of sheet)

Teacher $\qquad$ Date of Observation $\qquad$
Grade $\qquad$ S.hool $\qquad$ Room $\qquad$ City

DISCIPLINARY FFICTION
(Contentious - Concordant)
Rate the amount of overt teacher-student conflict over the enforcement of reguiations and requests. Is the relationship between teacher and students characterized by continuous wrangling, resistance, and rebellion in regard to student conduct? Or is discipline characterized by harmonious coordination, without bickering, threats, refusals, and penalties?

Disregard whether student conduct meets teacher standard. The questios is, how much disharmony occurs as part of the teacher's attempt to cortrol the students ' conduct, both in enforcing routine standards and in maktng immediate suggestions.

Situations to which regulations or standards apply are alvay: - characterized by overt teacher-child conflict. Teacher dema. resisted. Friction continuous and acute.

When student is supposed to do (or nct to do) sometting, - there is usually an argument, struggle, threat, or jenalty. Friction frequent and marked.

Teacher invokes penalties, child resists, etc., rather - frequently, but harmonious adjustment in disciplinary situations is somewhat more usuai. Friction moderate.

- Teacher-child clashes occur now and then, but they are exceptional, superficial, or mild.

Disciplinary conflicts are exceedingly rare. Either the

- student conforms docilely, or the teacher tranquilly permits lapses. Friction extremely mild or absent.

Score $\qquad$ Rater $\qquad$ Jate of rating $\qquad$
Tajeranco $\qquad$
Range $\qquad$
Rater's remarks: (continue on back of steet)

MISSOURI TEACHER ELUAVIJR RATING SCSLE 1.0. 15

Teacher $\qquad$ Date ci observation $\qquad$
Grade $\qquad$ Sichooi $\qquad$ F.000 $\qquad$ Cits $\qquad$

QUANTITY OF SUGGESTIUR: (Suggesting - Non-suggesting)

Rate the teacher's tendency to make suggestions to the students. Is the teacher constantly offering requests, commands, hints; or other attempts to direct the studerits' immediate behavior? Or does the teacher withhold suggestions, giving the students' initiative fuil S*Q?

This does not apply to routine regulations and their enforcement. Rate only where there is opportunity for sugkestion. liote that "suggestion" is defined broadly, including direct and indirect, positive and negative, verbal and non-veribal, mandatory and optional.


Score $\qquad$ Rater $\qquad$ Date of riting $\qquad$
Tolerance Range $\qquad$
Rater's remarks: (continue on back of sheet)

Teacher $\qquad$ Date of Obsorvaさien $\qquad$
Grade $\qquad$ School $\qquad$ FrOm $\qquad$ City $\qquad$

> COERCIVENESS OF SUGGESTION
> (Mandatory - Optional)

Rate as to dictatorial quality the teacher's suggestions in dealing With the students' immediate behavior. Does the teacher attempt to control a situation by issuing orders or commands to be obeyed? or does the teacher make his suggestions optional or discretionary with the child?

Apply only where teacher is trying to influence students. Try to see through the verbal form to the significant content for the stu-dents--does the suggestion demand obedience, or is it a "mere suggestion?"


Score $\qquad$ Rater $\qquad$ Date of rating $\qquad$
Tolerance
Range $\qquad$
Rater's remarks: (continue on back of sheet)

## WISSCUKI TEACHER LEAAVIOK FAGIIG SCALE RU. 17

f'eacher Date of Otservation $\qquad$
Grade $\qquad$ icnool $\qquad$ Hoom $\qquad$ City $\qquad$

GENERAL LAEYING
(Over-helps - Wi thholds help)
Rate the teacher's tencency to help the students through tine ordinary difficuilites of everyday life. Does the teacher insist or helping in situations where the studerits are quite capable; or does the teacher withhold aid even in major difficulties?

Rate relative to the student ability level. Disregard ieliberate drill and training. This is a general variable including motor, mental, emotional, and social behavior. It applies only to tasks the students are attempting, not to teacher-imposed requirements resisted by the students.

Continually helping students, even when students are fully capable and willing.

Usually helps more than needed. Seldom lets students strugg - unsuccessfuily.

- Helps when needed, but not when students can get by alone.

Tends io withhold aid, letting stuients solve own minor - problems. Offers heip aiter prolonged failure or in emergenc

Leaves students alone to solve even major problems, often - refusing ald when requested.
$-$
Score $\qquad$
folerance
$\qquad$

Ráter $\qquad$ Date of rating $\qquad$

Kater's remarks: (continue on Lack of sheet)

## MISSOURI TEACHER E:BAMIOK hATING SCALE IvO. id

Teacher $\qquad$ Date of Observation $\qquad$
Grade $\qquad$ School $\qquad$ Room $\qquad$ City $\qquad$

GENERAL PROTECTIVEIESS
(Sheltering - Exposing)
Rate the teacher's reaction to threats and hazards to the student well-being. Does the teacher tend to keep the students unnecessarily sheltered, and prevent difficulties from reaching the students? Or does the teacher tend to expose the students to dangers, perplexities, and difficulties?

This is a broad variable, including protection from physical, bacterial emotional, mental, and social hazards. Rate relative to the students' maturailonal level. Disregard whether students are aware of protection How much does the protective attitude of the teacher tend to protect the storents from experiencing difficulties?

| - | Tends to shelter students from every imaginable slight discomfort or difficulty. |
| :---: | :---: |
| - | Not given to inventing imaginary hazards, but does protect from many trivial difficulties which students could handle. |
| -. | Allows students to be exposed to many minor difficulties, but shelters from serious upsets ever. if purely temporary. |
| - | Iets students face own obstacles when there is no danger of Jasting harm. |
| - | Exposes students to rather tough situations, unless danger is quite serious or sithation acute. |
| - | Allows students to be exposed to major hazards, dangers, problems, suffering. Oblivious to hazards, or deliberately refrains from protecting studentis. |

Score $\qquad$ Rater Date of riting $\qquad$
Tolerance
Range $\qquad$
Ratrr's remarks: (continue on back of sheet)
'Teacher $\qquad$ Date of Observation $\qquad$
Grade $\qquad$ School $\qquad$ Rona $\qquad$ C1 ty $\qquad$

READINESS OF CRITICISM
(Critical - Uncritical)
Rate the teacher's tendency to express an approval-disapproval antitude toward the students' behavior. Does the teacher readily and vigorously express a reaction to things the students do; or is the teacher non-commital, iepressed, uninterested, or stoical toward the students 'actions?

Rate the tendency to express criticism regardless of whether it is approval or disapproval. Criticism may be verbal, gestural, or by facial expression or tone of voice--any signal to the student indicaning approval or rejection of behavior in a specific situation.


Score $\qquad$ Tolerance

Rater $\qquad$ Date of rating

Range $\qquad$
hater's remarks: (continue on back of siret)

## MISSUUKI 'IEACHER EEhAVIOK RATING SCALE NO. 20

Teacher $\qquad$ Date of úservation $\qquad$
Grade $\qquad$ School $\qquad$ Proom $\qquad$ City $\qquad$

DIRECTION OF CRIIICisM
(Approval - Disapproval)
Rate the direction of the teacher's critical reaction to the student behavior. When the teacher rescts does it tend to take the form of praise, approval, acclaimi or does blame, disapproval predominater:

Rate only situations where a critical reaction occurs-a reaction to behavior rather than general affectionateness or hostility. Criticisim may be verbal, gestural, or by facial expression or tone of voice It may be expressed either directly to the students or with the student as witnesses. Rate relative to the merits of the behavior criticised.

- Warm, unambiguous praise and commendafion toward even rather ordinary behavior. slortcomings over looked or excused.
- Emphasis on approval. Most iisapproval is sugarcoated with simultaneous acclaim.
- Ealanced criticism. Praise, or disapprobation, precicminates only as merited by student behavior.

Tends to disapprove more readily than to approve. Nost praise is tempered with faultfinding. Unduly critical of details.

Teacher alvays finding falilt. Ignores or belittles praiseworthy betavior, picking out minor details to criticise disproportionately.

Score $\qquad$ Rater $\qquad$ Date of rating $\qquad$
'Nolerance $\qquad$
Range $\qquad$
Mater's remarks:
(continue on back or sineet)

Teacher $\qquad$ Date of Obscrvation $\qquad$
Grade $\qquad$ School $\qquad$ Room $\qquad$ City $\qquad$

READINESS OF EXPIANATION
(Satisfies curiosity - Thwarts curiosity)
Rate the teacher's tendency to satisfy the students' intellectual curiosity. Does the teacher readily respond to the students' "Why?" and "How?" questions; or is the student thwarted in atteapts to get information and explanation from the teacher?

Disregard accuracy, depth, and honesty of answers. ivete that explanations which are too ambitious, or too forced, may rate low; and the furnishings of specific references may rate high. Active coaching to think for self may rate high. Do not confuse with mental tabying. A teacher may refuse to do the student's simple thinking, and yet go out of his way to help with difficult explanations.

Never too busy to answer student questions as adequately - as possible. Anticipates questions. Encolirages curiosity with willing explanation.

Goes out of way to answer fairly involved questions, but - sometimes postpones till students are more advanced. Yay evade when very busy or very tired.
Usually tries to satisfy student curiosity. Sometilies loses

- patience with persistent "Why's?"

Answers simple questions when in good humor and not preoccup.

- but seldom goes byond minimum needed to shut student up.

Explanations are grudiging and reluctant where any mental

- effort is required. Teacher of ten evades the issue.
- Trwarts student curiosity. Actively discourages questions, "Two busy," "Just because," etc.

Score $\qquad$ Rater $\qquad$ Date of rating
Tolerance
Kange $\qquad$
Fiater's remarks: (continue on back of sheet)

## MISSOURI TEACHER EEHAJIOR RATING SCALE NO. 22

Teacher $\qquad$ Date of Observation $\qquad$
Grade $\qquad$ School $\qquad$ room $\qquad$ CIty $\qquad$

SOLICITOUS FOR STUDENT WELFARE
(Anxious - Nonchalant)
Rate the teacher's tendency to display over-concern for the student well-being. Is the teacher readily excited to overt anxiety all out of proportion to the importance of the situation? Jr is the teacher markedly calm, cool, and nonchalant, even in the face of critical danger to the students?

Consider the teacher's net behavior, regardless of the motives behind it. Include only behavior which is a potential stimulus to the students, impinging more or less directly upon their awareness. Include concern for both physical and mental comfort.


$\qquad$ Rater $\qquad$ Date of rating $\qquad$ Tolerance
Range $\qquad$
Rater's remarks: (continue on back of sheet)

Teacher $\qquad$ Date of Observation $\qquad$
Grade $\qquad$ School $\qquad$ Room $\qquad$ City

ACCEPTANCE OF STUDENTS
(Devotion - Rejection)
Rate the teacher's acceptance of the students with respect to his identification with students and consideration of them as individuals. Is he willing to accept students as persons who happen to be younger and less trained than himself? Or does he view studenti as troublesome creatures who must be endured for the sake of their possibilities as future adults or because it is part of the job?

Consider ail evidence which in any way may iupinge upon the students as acceptance - rejection, however subtle, vague, or indirect. It is not the teacher's true feeling rut his attitude as a functioning unit in the students' erviranment whiah we are reting.


Score $\qquad$ Rater $\qquad$ Date of rating_
Tolerance
Range $\qquad$
2ater's remarks: (cortinue oi back of sineet)

MISSOURI REACHBR EEHAVIOR RATING SCALE NO. 24

Teacher $\qquad$ Date of Observation $\qquad$
Grade $\qquad$ School $\qquad$ Room $\qquad$ City $\qquad$

EMOTIONALITY
(Emotional - Objective)
Rate the emotionality of the teacher's general beravior toward the students. Is the teacher's reaction highly emotional; or is it consistently cool and objective?

Rate only in situations where there is sufficient cause for emotion to bring it out if it is there. Combine frequency and intensity of emotion. Combine direct expression of emotion and irrational distortion of policy due to emotion. "Emotion," as used, includes manifesta tions of rage, panic, disgust: mirth, or sympathy, where feeling nredominates over reason. Emotion may be considered to be positive or negative as long as it is irrational.


Score $\qquad$ Rater $\qquad$ Jate of rating
Tolerance Range $\qquad$
Rater's romarks:
(cciatinue on buck if sheet)

Teacher $\qquad$ Dete of Observation $\qquad$
Grade $\qquad$ School $\qquad$ Room $\qquad$ City $\qquad$

UNDERS TANDING
（Keen－Obtuse）
Rate the teacher＇s understanding of the students＇abilities，needs， viewpoints，etc．Does the teacher＇s behavior indicate a thorough and intaliさかっ：nt understanding oi the students；or does it indicate a fallure to appreciate the capacities and limitations of the students and an inability to meet the students on their own level？

This might be called＂functional teacher intelligence．＂It includes insight，foresight，student－cmpathy．

$\qquad$
Grade $\qquad$ School Foom $\qquad$ City $\qquad$

## RAPPORT EETWEEN TEPCHER AND SIUDENTS

(Close rapport - Isolation)
Rate the closeness of the psychological relationship between teacher and students. Do they show a high degree of rapport; or are they distant and out of touch with each other "spiritually," tending to be inhibited in each other's presence?

This variable includes mutual understanding, sympathy, confidence, and sharing of aspirations, intimatc thoughts, and feeling. Fiate it independently of the dominance-summission relationship. jo not confuse with antagonism-harmony.

$$
\begin{aligned}
& \text { [ Complete sharing of intimate thoughts and feelings. } \\
& \text { - Impiicit trust and confidence in each other. } \\
& \text { Close mutual understanding and sympathy, but with occasiona } \\
& \text { temporary lapses. } \\
& \text { Moderate degree of rapport in most situations; achieve } \\
& \text { - Moderate degree of rapport in most situations; achieve } \\
& \text { Do not get along together any ton well, but occasionally } \\
& \text { - a olose relationshin is temporariiy estatilshed. } \\
& \text { Perfunctory relationship, superficial uncerstanding, inter- } \\
& \text { - est slight or foreed. Tend to be inhibited in eachother's } \\
& \text { presence. } \\
& \text { Spiritually isolated. Iio sharing of confidence and aspira- } \\
& \text { tions. No active interest in each other. }
\end{aligned}
$$

Score $\qquad$ Fater $\qquad$ Date of rating $\qquad$
Tolerance Range $\qquad$
Rater's remarks; (continue on back of sheet)

Teacher $\qquad$ Date of Observation $\qquad$
Grade $\qquad$ School $\qquad$ Room $\qquad$ CIty $\qquad$

AFFEC II ONATENESS
(Affectionate - Hostile)
Rate the teacher's expression of affection to the students personally. Does the teacher manifest a warm, persona affection to the stucents; or a matter-of-fact, unemotional attitude; or definite antagonism?

Rate the attitude shown to the students, rather than the deeper one which affects the students only indirectly as through care, solicitude, or degree of devotion to the students' welfare.


Score $\qquad$ Rater $\qquad$ Date of rating $\qquad$
Tolerance
品若ge $\qquad$
Ratio's remarks: (continue on back of sheet)

MISSSOURI TEACHER FEHAVIOR HATING SCALE NO. 28

Teacher $\qquad$ Date of Observation $\qquad$
Grade $\qquad$ School $\qquad$ 브영 $\qquad$ Cit:

INTKA-GROUP ACTIMITY
(S tudent-student - leacher-s tudent interaction)
Rate the classroom situation in terms of amount of interaction among students. Is all activity carried on directly between teacher and student? Or is there much inter-student discussion?

Include both inter-student activity structured and approved by teacher and unstructured casual inter-student behavior.


Teacher $\qquad$ Date of Observation $\qquad$
Grade $\qquad$ School $\qquad$ rom $\qquad$ City $\qquad$

GROUP ACTION
(Group identity - Self assertion)
Rate the degree to which students work together in discussion and classroom activity. Do students work on a problem as an integrated group, supporting and contributing to the assertions and ideas of other members of the group? Or do students tend to be more selfassertive, expressing individuality in contrast to activities of rest of group?

Expression of individuality may be either constructive, adding new ideas to the discussion or may serve as a tearing apart of other $s$ students. It may be approved of or disapproved of by the teacher.

$$
\begin{aligned}
& T \text { Students always work as a body, with individual contribution } \\
& \text { - serving only to support and augment the activity of other } \\
& \text { members of the group. } \\
& \text { Group feeling predominates with occasional minor contra- } \\
& \text { victory comments. } \\
& \text { Cooperation and individual assertion balance each other } \\
& \text { - with group feeling and individual assertiveness about equal } \\
& \text { in the classroom behavior. } \\
& \text { A nucleus of group feeling is maintained but most classroom } \\
& \text { discussion is of a seli-assertive nature. } \\
& \text { All student activity is self-assertive, with no comsideratio. } \\
& \text { - of the group, except as the group provides situations in } \\
& \text { which the individuals can express themselves. }
\end{aligned}
$$

Score $\qquad$ Rater $\qquad$ Date of rating $\qquad$
Tolerance
Range $\qquad$
Rater's remarks: (continue on back of sheet)

## MiSSOURI TEACHER LEHAVIOR RATIIG SCALE K: 30

Teacher $\qquad$ Date of Observation $\qquad$
Grade $\qquad$ School $\qquad$ Room $\qquad$ City

## ACCELERATION

(Push - Inertia)
Rate the extent to winch the teacher attempts to force rapid progress in the pupils. Is he constantly forcing students to work more rapidly to progress to more advanced material? Or does he allow classroom activity to move along at its own rate, going on to more advanced material only when it seems that students know the currently covered topic to the point of boredom?

Consider pressure exerted on students to do homework, and añorit of homework, pressure to go on to next topic even though students appear confused and have unanswered questions, and pressure to keep working no matter what alternative actin ty is suggested. Disregard teacher motivation. Thus a non-accelerative teacher may be motivated ty personal laziness and non-preparation or by a desire to promote student development in non-academic ways.


Score $\qquad$ Rater Date of rating
Tolerance Range $\qquad$
Rater's remarks: (continue on ta ak of sheet)

## MISSOURI TEACHER BEHAVIOR RATING SCALE NO. 31

Teacher $\qquad$ Date of Obser:ation

Grade $\qquad$ School $\qquad$ Ho om $\qquad$ City

VALIDITY
(Observer changes situation - Observer ignored)
Rate the extent to which you feel that your presence alters the usual classroom activity. Does there appear to be a marked change in behavefor and attitudes of teacher and students upon your entrance in to the classroom? Or do you have the impression that your presence has no influence on the classroom situation:

Conditions to be noted include marked awareness of your presence ky teacher and $s$ students, increase or decrease in activity, change in class plans, etc.

There appears to be a complete change in classroom situation - due to your presence with alteration of class activity, change in teacher and student activities.

The classroom activity is definitely modified in consideration - of your presence.

There is some change in classroom activity and atmosphere

- due to your presence, but this change is slight and does not significantly alter validity of observation.

Teacher and students are aware of your presence but in no

- way alter behavior and activity accordingly.
- Teacher and students appear to be oblivious to your presence.


Rater $\qquad$ Date of rating $\qquad$ Tolerance Range $\qquad$
Rater's remarks:
(continue on back of sheet)
'Teacher Date of Observation $\qquad$
Grade $\qquad$ School $\qquad$ Room $\qquad$ City

TGACHER APPROACH TO STUDENTS
(Group oriented - Individual oriented)
Rate the extent to which teacher conceives of students as a relatively homogeneous group or as individuals. Does he corceive of his class as a whole, the members of which are reletively undifferentiated? Or does he attempt to adjust his behavior toward the indiviuual students, as if each individual were a separate case with particular interests, abilities and problems of his own?

Consider time spent in instruction directed toward the group and time spent in individual instruction, willingness to answer individual questions not of pertinence to entire group, emphasis on bringing individual personal experience into the classroom, emphasis on individual fulfillment and attempts to encourage activities engaged in by indiviluals but not by group.


Score $\qquad$ Rater $\qquad$ Date of rating $\qquad$
Tolerance $\qquad$
Range $\qquad$
Rater's remarks:
(cnntinue on back of sheet)

