PROJECT REPORT # 12

ANALYSIS OF THE CLIENT NEEDS ASSESSMENT SCALE



DEPARTMENT OF HEALTH AND SOCIAL SERVICES

CASE CLASSIFICATION/STAFF DEPLOYMENT PROJECT

Bureau of Community Corrections

DIVISION OF CORRECTIONS

February, 1978

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INTRODUCTION

Wisconsin's effort to develop a classification system began as the result of a directive from the State Legislature to "implement a workload inventory system and specialized caseloads for probation and parole agents." The intent of the directive was later interpreted not as a mandate to specialize all caseloads but to improve effectiveness of service delivery by systematically relating client needs to agent functional time requirements.

This desire to improve service delivery led the Case Classification/Staff
Deployment Project to develop processes which would:

- 1. Improve identification of client needs.
- 2. Ensure that agents would have sufficient time allotted to deal with clients with various need profiles.
- 3. Help agents to quickly develop appropriate casework strategies; to help agents understand their clients in order to deal more effectively with their problems.

The subject of this report, the needs assessment scale, was developed to standardize and improve identification of client needs. The scale is completed by Probation and Parole agents and is used to help determine the appropriate level of supervision for each client. The higher the level of supervision that a client is assigned, the more time an agent is allotted to supervise that individual. The time allotment associated with each supervision level is based on time study results and represents the average amount of time required to deal with each client at each level. Staff deployment based on workload is fully explained in Project Report #9.

The process to help agents develop appropriate treatment strategies is outlined in Project Report #7.

DEVELOPMENT OF THE NEEDS ASSESSMENT SCALE

Probationers and parolees have both chronic and crisis needs, some of which can be handled through referral to the appropriate community resource agency and others that the agent must deal with directly.

The Wisconsin Division of Corrections sought to standardize the manner in which agents assess the needs of their clients. This objective led to the development of a table which identifies and assigns weights to eleven categories of needs most commonly evidenced in probationers and parolees. The scale, <u>Assessment of Client Needs</u>, presented on page 3 is primarily a product of Wisconsin probation and parole agents.

Agents involved in the development of the needs assessment scale determined that crisis needs should not be considered as classification criteria. An immediate need for shelter or meal money, for example, is usually the result of a more extensive problem such as unemployment, drug abuse or emotional stability. Although an important agent function, crisis intervention generally provides temporary solutions to problems symptomatic of more complex needs.

An extensive list of possible client needs (40 items) was prepared and used to survey incoming clients over an eight-month period in Madison. The eleven categories of needs which comprise the final scale were derived from that list and thought to cover problems most frequently encountered in probationers and parolees.

The scale was designed not only to be a classification device (assignment to a specific level of supervision), but to provide a common denominator for assessing the composite severity of problems, to aid in formulating a case plan and to provide an instrument for uniformly assessing the progress of clients.

Table 1

ASSESSMENT OF CLIENT NEEDS

Select the appropriate answer and enter the associated weight in the score column. Higher numbers indicate more serious problems. Total all scores. SCORE ACADEMIC/VOCATIONAL SKILLS High school or above skill Adequate skills; able to 2 Low skill level causing minor adjustment 4 Minimal skill level causing serious adjustment pro--1 level handle every-day requirements problems **EMPLOYMENT** Satisfactory employment Secure employment; no Unsatisfactory employ-Unemployed and virtually -1 for one year or longer 3 ment; or unemployed but 6 unemployable; needs traindifficulties reported; or homemaker, student or has adequate job skills retired FINANCIAL MANAGEMENT _1 Long-standing pattern of 3 Situational or minor dif-5 Severe difficulties; may in-No current difficulties self-sufficienty; e.g., good ficulties clude garnishment, bad credit rating checks or bankruptcy MARITAL/FAMILY RELATIONSHIPS Relationships and support Relatively stable relation-Some disorganization or Major disorganization or 0 ships 3 stress but potential for im-5 stress -1 exceptionally strong provement COMPANIONS -1 Good support and in-No adverse relationships Associations with oc-Associations almost com-2 casional negative results 4 pletely negative **EMOTIONAL STABILITY** Exceptionally well ad-Symptoms limit but do not Symptoms prohibit ade-No symptoms of emotional -2 justed; accepts responsiquate functioning; e.g., instability; appropriate prohibit adequate funcbility for actions emotional responses tioning; e.g., excessive lashes out or retreats into ALCOHOL USAGE O No interference with func-3 Occasional abuse; some Frequent abuse; serious tioning disruption of functioning disruption; needs treatment OTHER DRUG USAGE 3 Occasional substance 0 No interference with functioning Frequent substance abuse; abuse; some disruption of serious disruption; needs functioning treatment MENTAL ABILITY O Able to function independently Deficiencies severely limit Some need for assistance; potential for adequate independent functioning adjustment **HEALTH** 2 Serious handicap or O Sound physical health; seldom ill Handicap or illness interchronic illness; needs freferes with functioning on a quent medical care recurring basis SEXUAL BEHAVIOR 5 Real or perceived chronic 3 Real or perceived situa-O No apparent dysfunction tional or minor problems or severe problems AGENT'S IMPRESSION OF CLIENT'S NEEDS 0 Low 3 Medium 5 Maximum -1 Minimum

Following the selection of categories to be included on the needs assessment scale, a group of eight agents, three client services assistants (paraprofessionals) and a unit supervisor independently ranked each need according to its impact on the time required by agency personnel to deal with the problem. The results of those rankings are presented below:

Figure 1

PROBLEM RANKINGS
(Based on Agent Time Requirements)

| Leas | t Time Req | uired | | | | 1 | Most T | ime | Required |
|------|--------------------|-------|-------------------------------|--------------|-------------------------------------|----|-------------------|-----|------------------------|
| 1. | Physical Health | 2. | Academic/Vocational Skills | 3. | Financial Management | 4. | Employment | 5. | Emotional Stability |
| | ; | | Companions | | Marital/ Family Relationships | | Alcohol Usage | | |
| | | | | | Drug Usage | | Mental Ability | | |
| | | | | | Sexual Behavior | | | | |

Weights of individual items are based on these rankings.

The system implemented requires the supervising agent to assess clients within 30 days of admission to probation or parole. Reassessments are done at six-month intervals.

Each area of need is subdivided into three or four categories; major problem, minor problem, no problem, and strength (if appropriate). As an aid to consistency in needs assessment, concise definitions were developed and assigned to each severity level (see page 3). Consistency (or reliability) in needs assessment is particularly important when the instrument is used as a classification device since "placement" (in this case, level of supervision) can be a direct result of the needs score.

Inter-rater reliability is examined in a subsequent section of this report.

VALIDITY

Professional judgment of the time each need category will require is the basis for assigning weights to each item on the needs scale. Hence, total needs scores should be indicative of the amount of time that different clients require of probation and parole staff. To determine if overall needs scores are related to time spent on probationers and parolees, needs assessment totals from 482 Madison Region clients were cross-tabulated with time devoted to each client over a two-month period. Time spent on probationers and parolees should vary within each supervision level relative to needs assessment totals if the weighting system incorporated is a valid indicator of time required by clients. The strong relationship between time and needs scores is presented in Table 2.

Table 2
RELATIONSHIP OF NEEDS SCORES TO SUPERVISION TIME

| Needs Assessment Score | Low Supervision (Average Mir | Medium Supervision uutes Per Clie | | Average |
|------------------------|------------------------------------|---|-------|---------|
| 9 or Less | 40.0 | 61.9 | 92.4 | 47.7 |
| 10 - 14 | 45.3 | 90.6 | 105.3 | 79.7 |
| 15 - 19 | NA | 69.7 | 116.9 | 86.8 |
| 20 - 24 | NA | 95.4 | 184.3 | 142.0 |
| 25 - 29 | NA | 104.3 | 180.9 | 160.2 |
| 30 or More | NA | 107.2 | 196.7 | 185.5 |

Generally, the average amount of time spent on clients increased relative to needs scores. In only two instances was this pattern reversed. The average time devoted to medium supervision clients with scores in the 15 to 19 range was lower than the time spent on clients in the 10 to 14 range; and less was

spent on maximum supervision clients with needs scores in the range 25 to 29 than individuals with needs assessment totals in the 20 to 24 range.

Overall, the study indicated that the weighting system utilized in the needs scale presents an accurate assessment of the time needed for service delivery.

The cut-off scores initially utilized in Wisconsin were arbitrarily set by a committee of probation and parole agents and research staff with the understanding that they would be changed if experience indicated an adjustment was needed. The ranges of needs scores and the resultant supervision levels are presented below:

Low or Minimum Supervision 14 and below Medium Supervision 15 - 29 Maximum Supervision 30 and above

Data collected during 1977 indicate that the cut-off points are possibly too high. Of the first 6,000 needs assessments completed on new clients, 51.4% totaled 14 or fewer points, 37.7% rated 15 to 29 points, and 12.3% had 30 or more points. The mean needs assessment score was 15.5 and the median score of 14 falls into the low supervision range. Lowering the cut-off scores as follows would result in approximately one-third of all clients "fitting" into each supervision level:

Low or Minimum Supervision 9 and below Medium Supervision 10 - 19 Maximum Supervision 20 and above

More importantly, the lower cut-off scores appear to be the points at which agent time requirements change most dramatically. Table 5 provides an additional dimension to data presented in Table 2. Needs scores are again related to time study results from the Madison Region. The largest increases in time devoted to clients occur between the ranges 9 or less and 10 - 14, and between the ranges 15 - 19 and 20 - 24.

Table 3

CHANGE IN SUPERVISION TIME BY NEEDS SCORE RANGE

| Needs Score Range | Average Minutes Per Month Per Client | Percent Change From Preceding Average |
|-------------------|---|--|
| 9 or Less | 47.7 | |
| 10 - 14 | 79.7 | 67ቄ |
| 15 - 19 | 86.8 | 9% |
| 20 - 24 | 142.0 | 64% |
| 25 - 29 | 160.2 | 13% |
| 30 or More | 185.5 | 16% |

The total sample size (482) was too small to conduct the above analysis for each needs score interval. However, subsequent time studies should produce enough data to allow management to firmly establish cut-off points for each level of supervision.

INTER-RATER RELIABILITY

Because a score on the needs assessment scale can result in assignment of a specific level of supervision, a high degree of inter-rater reliability is desirable. Extensive reliability testing was undertaken to determine if the definitions associated with each need category would result in consistency in ratings when different agents rated the same clients based on identical information.

Consideration was given to two different methods of presenting information regarding clients to agents participating in the study: Probation social reports and taped interviews. Other states have used presentence investigations or probation socials to test the reliability of classification instruments. Missouri, for example, used presentence investigations to test the reliability of a client analysis scale utilized in that state.

^{1.} German, S., A.C. Mogah, and C.R. Tracer, Jr. <u>Probation and Parole Supervision Classification</u>: <u>The Client Analysis Scale</u> <u>Jefferson City</u>, <u>Missouri</u>, Spring, 1975

Agents were asked to read presentence reports and make independent ratings of each scale item. This technique, however, was rejected by Case Classification/Staff Deployment staff on the basis that the agent writing the report had already selected the information contained in the Social; hence a percentage of any reliability statistic attained could be attributed to this factor.

The CC/SD Project chose to have agents independently rate client needs based on taped interviews between client and agent. A semi-structured format (of approximately 45 minute duration) was used which in most cases covered all eleven categories of needs to be assessed. Of the nearly 200 interviews that were taped, nine were selected for use in this study. The selection was based primarily on the clarity of the tape, not on content or client characteristics. No attempt was made to use tapes where the existence and severity of problems was unusually apparent.

Groups of agents from the following locations participated in the study.

- 1. Eau Claire
- 2. La Crosse
- 3. Viroqua
- 4. Beloit
- 5. Milwaukee
- 6. Racine
- 7. Wausau
- 8. Sheboygan
- 9. Kenosha
- 10. Madison

Two assumptions were made regarding the reliability analysis:

1. Taped interviews are not ideal media for assessing inter-rater reliability. Ideally a group of agents should participate in all client and collateral contacts for the first 30 days of supervision and then independently rate client needs. However, given the time constraints of field staff, the use of taped interviews was the best method available for testing reliability.

It was assumed that because agents generally base actual needs assessments on more than one contact and on more information than was presented in the interview, agreement on the existence or non-existence of a problem (rather than level of severity) would be sufficient as a measure of inter-rater reliability.

2. Certain need categories would be difficult to assess without verifying evidence. For example, if an individual was suspected of having mental deficiencies which severely limit independent functioning, agents would generally request intelligence testing for that client to determine the extent of the problem. Therefore, it was assumed that the reliability figure attained for some items (emotional stability, mental ability, and sexual behavior) would be lower than reliability attained in actual practice.

The results of the analysis are presented in Table 4. Each statistic represents the percentage of raters who agreed on the existence or non-existence of a particular problem for each client. (The rating cited by the majority of agents was considered the "correct answer." In only one instance did half of the raters decide a need existed while half agreed there was no problem.) The overall percentage of agreement (87%) is considered by CC/SD staff to be quite acceptable for a subjective scale.

Including each agent's rating of the severity of each scale item, the percentage of agreement decreased 7%. The overall agreement for each item is presented in Table 5.

Table 4

PROBLEM/NO PROBLEM CHOICE

Percentage of Agreement

| <u> </u> | 54 | 54 | 49 | 57 | 45 | 48 | 46 | 47 | 49 | 449 |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|
| Need Category | Tape A | Tape B | Tape C | Tape D | Tape E | Tape F | Tape G | Tape H | Tape I | Average |
| Acad/Voc Skills | 87 | AN | 76 | 70 | 91 | 100 | 98 | 81 | 100 | 88 |
| Employment | 100 | 91 | NA | 98 | 96 | 85 | 100 | 62 | 84 | 90 |
| Financial Mgt. | 98 | 87 | 90 | 98 | 100 | 98 | 100 | 96 | 73 | 93 |
| Mar/Fam. Relat. | 67 | 78 | NA | 95 | 100 | 50 | 100 | 100 | 92 | 86 |
| Companions | 83 | 91 | 80 | 88 | 93 | 88 | 95 | 83 | 98 | 89 |
| Emot. Stab. | 69 | 73 | 71 | 79 | 100 | 58 | 100 | 87 | 77 | 79 |
| Alcohol Usage | 96 | 80 | 96 | 86 | 100 | 98 | 82 | 100 | 92 | 94 |
| Drug Usage | 67 | 83 | NA | 82 | 100 | 100 | 100 | 86 | 85 | 91 |
| Mental Ability | 69 | NA | 86 | NA | 76 | 77 | 76 | 58 | 82 | 79 |
| Health | 100 | 100 | 100 | 91 | NA | 84 | 96 | 62 | 96 | 89 |
| Sexual Behav. | 98 | 94 | 100 | 96 | 64 | 89 | 75 | 55 | 83 | 84 |
| Average | 85 | 86 | 87 | 88 | 92 | 84 | 93 | 79 | 87 | 87 |

NOTE: NA in any column signifies that the interview did not present sufficient information to rate that item.

N = number of agents that rated each taped interview.

Table 5

AGREEMENT BY SEVERITY LEVEL

| Need Category I | Percentage of Agreement |
|------------------------------|-------------------------|
| Academic/Vocational Skills | 82% |
| Employment | 81% |
| Financial Management | 79% |
| Marital/Family Relationships | 76% |
| Companions | 82% |
| Emotional Stability | 70% |
| Alcohol Usage | 92% |
| Drug Usage | 80% |
| Mental Ability | 70% |
| Health | 81% |
| Sexual Behavior | 84% |
| Average | 80% |

MILWAUKEE STUDY SUPPLEMENT

Early in 1977, data indicated that Milwaukee agents were rating clients lower on the Needs Assessment Scale than were their counterparts in other Wisconsin locations. (See Table 6) This ran counter to a long standing assumption that Milwaukee clients were generally the most difficult cases on supervision in Wisconsin, both in terms of needs and risk of continued criminal behavior. Profiles, derived from data (other than need scale items) collected at admission to probation or parole tend to support their assumption. Hence, a study was undertaken to determine why Milwaukee clients were receiving lower needs assessments.

Table 6

NEEDS ASSESSMENT SCORES BY REGION (First Four Months, 1977)

| | | Need | ls Assessment Sc | ores |
|------------|------------|------------|------------------|------------|
| Region | и, | 14 or Less | 15 - 29 | 30 or More |
| Milwaukee | 715 | 54.7% | 34.8% | 10.5% |
| Madison | 358 | 41.6%* | 43.9%* | 14.5%* |
| Waukesha | 435 | 53.3% | 34.0% | 12.7% |
| Green Bay | 436 | 42.9%* | 42.2%* | 14.9%* |
| Eau Claire | <u>457</u> | 46.6%* | 36.3% | 17.1%* |
| Total | 2401 | 48.8% | 37.7% | 13.5% |

Specific conditions in Milwaukee which were hypothesized to be possible contributors to the difference in needs assessments were analyzed extensively. These included:

- 1. A possible difference in community norms between Milwaukee and smaller Wisconsin communities.
- 2. The relative inexperience of Milwaukee agents due to a staff turnover rate of nearly four times that of other regions.
- 3. Higher caseloads in Milwaukee; the product of a higher client to agent budgeting ratio and the higher staff turnover rate.

Agents from four Milwaukee units participated in the reliability study described in an earlier section of this report. Four taped interviews rated by Milwaukee staff were also rated by agents from Racine, Beloit, Viroqua and La Crosse. Using these ratings, an analysis of the effects of community norms was undertaken. The results are presented in Table 7.

Table 7

COMPARISON OF MILWAUKEE/OUT-STATE OVERALL ASSESSMENTS

| | Milwaukee Average Needs Assessment Rating | Out-State Average Needs Assessment Rating |
|--------|---|---|
| Tape F | 18.65 | 15.90 |
| Tape G | 35.30 | 35.73 |
| Tape H | 23.26 | 21.24 |
| Tape I | 19.48 | 20.11 |

If a difference in community norms contributed to the lower overall needs assessment scores given Milwaukee clients, one could expect lower overall ratings of the four study clients by Milwaukee agents. This clearly was not the case. In fact, Milwaukee staff gave two of the four clients higher overall ratings, and statistically, the mean scores from the two groups of raters were not significantly different for any of the tapes.

To further determine the effects of community norms, one additional analysis was undertaken. Most of the difference between the average needs score of Milwaukee clients and the average needs score of clients in other regions could be attributed to lower ratings on two scale items, marital/family relationships and companions. Again, to determine if the lower ratings were due to a difference in community norms, scores given these two items by Milwaukee agents were compared with assessments given by out-state agents. The results are presented in Table 8.

Table 8

COMPARATIVE ASSESSMENTS OF MARITAL/FAMILY RELATIONSHIPS AND COMPANIONS

| Need Category | | | Average Scores | | |
|-------------------------|---------|-----|---------------------|---------------------|--|
| | | | Milwaukee Agents | Out-State Agents | |
| Marital/Family Relation | onships | | | | |
| Tape | F | 23 | 1.78 | 1.12 | |
| _ | G | 23 | 4.73 | 4.91 | |
| • | H | 23 | 4.65 | 4.58 | |
| | I | 23 | 3.69 | 3.77 | |
| Companions | | | | | |
| Tape | F | 25 | 0.17 | -0.08 | |
| _ | G | 23 | 1.91 | 2.26 | |
| | H | 24 | 2.26 | 1.50 | |
| | I | .26 | 2.17 | 2.23 | |

The mean ratings of each of the two groups were not significantly different for any of the four client rated. The results of above analyses clearly indicate that if there is a difference in community norms, it has no impact on needs assessment totals.

A similar analysis was conducted to determine if the experience levels of agents affect the rating of client needs. The results of this analysis are presented in Table 9. The absence of a discernable pattern (moving from the group with less than one year experience to the group with three or more years on the job) indicates that the level of experience does not affect needs assessment scores. Again no set of means was found to be significantly different.

Table 9

COMPARATIVE ASSESSMENTS OF AGENTS
GROUPED BY LEVEL OF EXPERIENCE

| | | Average Scores | | | | | |
|--------|---|------------------|------------|----------------|--|--|--|
| | | Less Than | | | | | |
| | | l Yr. Experience | 1 - 3 Yrs. | 3 Yrs. or More | | | |
| Tape 1 | F | 16.9 | 16.4 | 17.6 | | | |
| Tape | G | 35.7 | 36.6 | 34.7 | | | |
| Tape 1 | Н | 20.4 | 23.0 | 22.5 | | | |
| Tape | I | 21.5 | 19.6 | 19.2 | | | |

An earlier project report, Report #5, Results of Agent Time Studies, compared time study data collected in Milwaukee with data from the Madison and Eau Claire Regions. This study found that due to higher caseloads, Milwaukee agents in general spend less time with each client. It was also noted that as caseloads increased, less time was devoted to case planning; that agents become crisis oriented, having little time to plan effectively or to make the type of collateral contacts necessary to develop a comprehensive case plan.

Without sufficient time to thoroughly investigate a client's situation and circumstances, agents cannot properly rate the needs of their clients.

Therefore it was hypothesized that the lower needs assessments given Milwaukee clients were the result of higher caseloads.

To determine the relationship between needs scores and caseload, agents from metropolitan areas <u>outside</u> of <u>Milwaukee</u> were aggregated by the number of clients each supervised (averaged over a four-month period) and comparisons were made of the average scores given clients (also over the same four-month period).

The results of this analysis listed in Table 10, show an obvious inverse relationship between caseload size and needs assessment totals. The average score given by agents with caseloads of 65 or more clients was nearly 5 points lower than the average score given by agents supervising 34 or fewer clients. Only between the caseload aggregates 55 - 59 and 60 - 64 was the pattern reversed. However, for the next group, 65 and over, the average needs score is lower than the average score reported for both preceding groups.

Table 10

RELATIONSHIP OF CASELOAD SIZE
AND NEEDS ASSESSMENT TOTALS

| | | Number | |
|----------------|-------------|--------|----------|
| | Average | of | Clients |
| Caseload Size | Needs Score | Agents | Assessed |
| Under 35 | 19.32 | 12 | 37 |
| 35 - 39 | 18.23 | 17 | 48 |
| 40 - 44 | 17.25 | 16 | 65 |
| 45 - 49 | 17.11 | 14 | 65 |
| 50 - 54 | 15.15 | 19 | 97 |
| 55 - 59 | 14.87 | 9 | 53 |
| 60 - 64 | 15.61 | 17 | 106 |
| 65 and Over | 14.44 | 8 | 36 |
| Total | 16.28 | 112 | 507 |

In July, 1977 the Bureau of Community Corrections began efforts to equalize caseloads throughout Wisconsin. Rather than deploying staff at a 60:1 ratio in Milwaukee and 44:1 in other regions, all staff was deployed at approximately a 51:1 client to agent ratio. This effort has gradually reduced the differences between Milwaukee caseloads and caseloads in other areas.

Caseload equalization should lead to more consistent ratings of client needs throughout Wisconsin. Table 11 indicates that such a trend is already noticeable. Table 11 is an updated version of Table 6 which includes needs assessment totals on new clients through November 1977. The number of clients given 14 or fewer points on the needs scale outside of Milwaukee increased substantially as caseloads rose.

Generally, the difference in needs assessment scores between Milwaukee and out-state clients diminished as caseloads became more similar.

Table 11

NEEDS ASSESSMENT TOTALS BY REGION

First Eleven Months, 1977

| Region | N | 14 or Less | 15 - 29 | 30 or More |
|------------|------|------------|---------|------------|
| Milwaukee | 1834 | 53.5 | 36.3 | 10.1 |
| Madison | 925 | 48.0 | 40.0 | 12.0 |
| Waukesha | 977 | 55.7 | 33.7 | 10.6 |
| Green Bay | 786 | 48.6 | 36.9 | 14.5 |
| Eau Claire | 847 | 47.9 | 35.1 | 17.0 |

SUMMARY

The analysis of the Needs Assessment Scale indicates that it is a valid and reliable instrument because of the strong positive correlation between needs scores and time requirements, and the high degree of inter-rater reliability demonstrated. Some adjustments to the cut-off points currently being used may be appropriate, however.

Currently, workloads of Wisconsin agents vary considerably which is reflected in needs assessment scores. As workloads go up, agents have less time to properly assess client needs. Reliability of the instrument will be maximized when equalization of workoad is established state-wide.

Neither community norms nor experience levels of agents have any perceivable influence on the needs scores.

END