



DEVELOPMENT OF THE WISCONSIN RISK ASSESSMENT SCALE



53481



# DEPARTMENT OF HEALTH AND SOCIAL SERVICES

CASE CLASSIFICATION/STAFF DEPLOYMENT PROJECT BUREAU OF PROBATION AND PAROLE DIVISION OF CORRECTIONS

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### CASE CLASSIFICATION/STAFF DEPLOYMENT PROJECT

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ACTOR			GHT PER URRENCE
Rules Violations	• •	•	l
urrests	• •	٠	1
lisdemeanor Convictions	• •	•	3
bsconsions		٠	5
elony Convictions		•	7
Convictions for Assaultive . Offenses	•••	•	9

Each weighted occurrence was then added to a base score of 1. Scores were cut off at 30 in order to prevent a few very high totals from skewing the data.

Information was collected on approximately 250 randomly selected closed or revoked cases. The data analyzed were, to a large extent, determined by a committee of agents, supervisors, and project staff that was responsible for developing differential supervision levels and criteria for assignment to each level. The collective experience and expertise of that group suggested that "risk" could best be determined through the analysis of the following items:

- 1. Age at intake
- 2. Number of prior felony convictions
- 3. Number of prior misdemeanor convictions
- 4. Number of prior incarcerations both adult and juvenile
- 5. Number of prior periods of probation/parole supervision
- 6. Number of prior revocations
- 7. Age at earliest arrest
- 8. Age at earliest conviction

Specific offenses (convictions)
 Use of a weapon
 Number of address changes in past year
 Percentage of time employed
 Problems in inter-personal relationships
 Social identification (peer group)
 Attitude
 Emotional stability
 Alcohol Usage/Problems
 Drug Usage/Problems

- 19. Ability to meet financial needs
- 20. Ability to manage finances
- 21. Response to court or Bureau-imposed conditions
- 22. Use of community resources

To select the items which would cumulatively provide the best scale for assessing client risk, a multiple linear regression analysis was implemented. Variables were entered in a stepwise fashion.\* The standard error of the estimate was minimized after seven variables were entered. The following table outlines the results:

VARIABLE	MULTIPLE R	R <sup>2</sup>	SIMPLE R	F RATIO
Attitude Age at First Conviction	.6003	.36 .50	.600 .354	
Prior Revocations	.7268	.53	.350	
Alcohol Usage/Problems No. of Address Changes	.7412	.54	.421	
Felony Convictions	.7591	.58	.335	
Prior Periods of Probation/Parole	.7613	.58	.412	34.16*
*Significant at the .01 level				

\*Two items which proved to be good predictors, Response to Court or Bureau-imposed Conditions and Use of Community Resources, were not entered because they are difficult criteria to assess at intake. (Classification should be completed within 30 days of reception.) Although the factors analyzed explained only 58% of the variance in criminal behavior, the results proved sufficient to classify clients in less precise rankings. (The analysis could be used to predict low, medium and high degrees of criminal behavior rather than actual scores. "Low" criminal behavior meant a score of two or less on the criminal behavior scale. "High" criminal behavior was defined as a revocation or conviction for a new felony offense during the period of supervision.) Utilizing these rankings and comparing them to predicted scores indicated that, overall, 72% of the cases were "placed" correctly using the resultant regression equation. The following table outlines the percentages correctly placed within each group:

AMOUNT OF CRIMINAL BEHAVIOR PREDICTED	ACTUAL AMOUNT OF CRIMINAL BEHAVIOR REPORTED Low Moderate High		
Low (Low Supervision)	89%	98	2%
Moderate (Medium Supervision)	214	29%	50%
High (Maximum Supervision)	8%	25%	67%

Of the high risk clients misclassified as moderate risks, 3/4 had scores in the upper third of the moderate range. The substantial crossover between the high and medium risk classification scores indicates that this type of client will be difficult to classify.

In an attempt to achieve better results, group means or percentages (depending upon the factor analyzed) were compared for all variables. Based on significant differences and simple correlation coefficients three items were added to the risk scale. They were:

- Specific offenses (Burglary, Robbery, Auto Theft, Forgery, Worthless Checks, and Theft)
- 2. Percentage of time employed
- 3. Drug Usage/Problems

All ten variables comprising the final scale were then assigned weights based on their correlation with criminal behavior. (See Addendum 1) The scale was then tested utilizing the random sample of closed and revoked cases. While the percentage of correct predictions actually declined slightly, it was felt that this may be due primarily to the fact that the weight associated with each independent variable was rounded to a whole number somewhat "blunting" the accuracy of the regression equation. The following table outlines the results:

AMOUNT OF CRIMINAL BEHAVIOR PREDICTED	ACTUAL AMOUNT OF CRIMINAL BEHAVIOR REPORTED			
	Low	Moderate	High	
Low (Low Supervision)	84%	10%	6%	
Moderate (Medium Supervision)	32%	27%	41%	
High (Maximum Supervision)	10%	24%	<sup>.</sup> 66\$	

### CUT-OFF SCORES FOR EACH CLASSIFICATION:

The cut-off scores for each level of supervision were set somewhat low for two reasons. First, an important factor, the actual quality and quantity of supervision given each client, could not be included in the analysis. If a basic assumption of probation and parole (supervision will diminish criminal behavior) is at all valid, then successful completion of probation or parole should be strongly influenced by the degree and type of supervision. The regression analysis left 42% of the variance in criminal behavior unexplained indicating that agent intervention may be a significant factor in decreasing criminal behavior. Secondly, all predictive devices will misclassify some persons. This is regarded as "error" and its probable limits can be stated. However, the "error" term can be manipulated - and with a predictive scale that will result in an assignment of Corrections' clients to a structured supervision level - such manipulation seems essential. It was assumed that in a test situation it would be better to over supervise than to under supervise. Hence, the cut-off scores for each level of supervision were lowered so that nearly all of the "error" occured with clients being assigned to a higher level of supervision than strict interpretation of an individual score would indicate.

The low cut-off scores resulted in only 5% of the entire sample analyzed being classified <u>lower</u> than their actual probation/parole outcomes warranted. Initial indications are that approximately 50% of all new clients will be scaled as high risk clients.\*

<sup>\*</sup>This is based solely on a sample from Dane County and may be somewhat high. Agents have expressed the opinion that Dane County judges make more use of probation than do judges in other counties.

### **REEVALUATION:**

Client risk will be reevaluated every six months using a scale different than that used at intake. (See Addendum 2) The weights assigned to some iters have been changed reflecting a decreased emphasis on prior record. Other items have been replaced by better indicators of client risk which agents can readily assess following six months of supervision. In general, factors related to recent behavior increase in importance and factors related to the client's prior record decrease in importance; hence, the client's response to supervision, to a large extent, determines the level of supervision assigned. However, the client's prior record still accounts for 33% of the total points on the reevaluation scale.

Preliminary indications are that the number of clients initially rated as high risks will decline by 40% - 50% at the first reevaluation. This corresponds well with research that indicates that the first six months of supervision are critical. If reevaluation continues to show a decrease in high risk ratings, this will effect a system in which a high percentage of clients will be under maximum supervision for the first six months of probation/parole and that percentage will decrease rapidly as time under supervision increases. The Project's first experience with reevaluation also indicates that while the number of clients rated as medium risks increases at the six month reevaluation, the number of clients rated as low risks remains about the same.

Approximately one-third of the average caseload has been under supervision for less than six months. The following table outlines the effects of the high percentage of clients initially assigned to maximum supervision on a caseload of 60 clients.

	Clients on Probation Less Than Six Months	Clients on Probation Six Months or More	Total
# of Clients	20	40	60
<pre># Classified    as Maximum</pre>	10 (50%)	10 (25%)	20 (33%)*

\*If the number of clients rates as maximum risks continues to decline at 12, 18 and 24 months under supervision then less than 33% of an average caseload will be rated maximum risks.

Wis. Dept. of Health and Social Services Division of Corrections Form CC/SD 03 (7/76)

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ASSESSMENT OF CLIENT RISK

Description       Last       First       Maint       First       Maint         Probation Control Date or Institution Release Date       Monit, Day, Year       Agent Last Name       Number       Number         Date of Evaluation       Select the appropriate surver and inter the biscoasted weight in the server oriulinit       Select the appropriate surver and inter the biscoasted weight in the server oriulinit         Date of Evaluation       0 None       2 One	Client Name	First MI Client Number		
Institution Release Date	Last	First MI		
Date of Evaluation       Select the appropriate answer and enter the associated weight in the schere culumit         Date of Evaluation       Total all scores to arrive at the risk assistance score.         Number of Address Changes in Last 12 Months:       0       None         2 One       3 Two or more		Agent Last Name Numb	Jei	
Date of Evoluation       Total all scores to arrive at the risk assessment score.         Number of Address Changes in Last 12 Months:       0 None         2 One	Month, Day, Year			
Number of Address Changes in Last 12 Months:       0       None         2       One       3       Two or more         Percentage of Time Employed in Last 12 Months:       0       60% or more	Date of Evaluation		reight in the score column	
2 One       3 Two or more         Percentage of Time Employed in Last 12 Months:       0 60% or more         1 40% - 59%       2 Under 40%         2 Under 40%			SCORE	
2 One       3 Two or more         Percentage of Time Employed in Last 12 Months:       0 60% or more         1 40% : 59%       2 Under 40%         2 Under 40%       0 Not applicable         Alcohol Usuge/Problems:       0 No apparent problems         2 Moderate problems	Number of Address Changes in Last 12 Months'			
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	weapon, physical force or the threat of force)	-		

TOTAL SCORE

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WIS. DEPT. OF HEALTH AND SOCIAL SERVICES DIVISION OF CORRECTIONS FORM CC/SD 04 (7/76)

REASSESSMENT OF CLIENT RISK

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	Client Name			Client Number	
-	Last	k	irst	MI	
	Date of Recvaluation Nonth, Day, Year	Agent	Leat	Name Number	
		enter määsös	the ex emont	isociated weight in the score column. Total score.	
					SCORE
	Number of Address Changes in Last 12 Months:	•	2	None Ona Two or more	99 March 1999 - 20 March 1999 - 2000
	Age at First Conviction:	•	· 0 1 2	24 or older 20 - 23 19 or younger	974007000gen
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	Other Drug Usage/Froblems:	•	1	No apprirant problems Modernite problems Serious problems	Bartana Magazari
	Problems in Inter-Personal Relationships: . (Current Living Situation)	•	. 0 1 3 5	None Few Moderate Savare	
	Social Identification:	•	. 0 3	Mainly with positive individuals Mainly with delinquent individuals	And Lugar (buildiged)
	Response to Court or Bureau-Inposed Condition	. : a	3	No problems of consequence Moderate compliance problems Has been unwilling to comply	
	Use of Community Resources:	• •	0 2 3	Not needed Productively utilized Needed but not evailable Utilized but not beneficial Available but rejected	

TOTAL SOORE

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# END