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THE UNIVERSITY OF OKLAHOMA

GRADUATE COLLEGE

AN APPLICATION OF THE GOLDBERG RULES IN THE DIAGNOSIS OF PERSONALITY DISORDERS OF FEDERAL YOUTH OFFENDERS COMMITTED FOR OBSERVATION AND STUDY

A DISSERTATION

SUBMITTED TO THE GRADUATE FACULTY

in partial fulfillment of the requirements for the

degree of

DOCTOR OF PHILOSOPHY

By

BARBARA TAYLOR ROBERTS

Norman, Oklahoma

AN APPLICATION OF THE GOLDBERG RULES IN THE DIAGNOSIS OF PERSONALITY DISORDERS OF FEDERAL YOUTH OFFENDERS COMMITTED FOR OBSERVATION AND STUDY

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APPROVED BY

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It is with deep respect and appreciation that I dedicate this dissertation to the prisoners of the Federal Reformatory of El Reno, Oklahoma. The experience of knowing and working with them has certainly enhanced my awareness of the complexities of their lives and what it is like "doing time."

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AN APPLICATION OF THE GOLDBERG RULES IN THE DIAGNOSIS OF PERSONALITY DISORDERS OF FEDERAL YOUTH OFFENDERS COMMITTED FOR OBSERVATION AND STUDY

CHAPTER I

INTRODUCTION

Challenge of Crime in a Free Society, the report of the President's Commission (1967) on Law Enforcement and The Administration of Justice, is one of the most definitive examinations of the problem of crime and dealing with prevention and correction ever. In part, the report states:

> America's system of criminal justice is overworked, undermanned, under-financed and often misunderstood. It needs more information and more knowledge, it needs more technical resources, it needs more coordination amongst its many parts, it needs more public support, it needs the help of community programs and institutions in dealing with offenders and potential offenders; it needs above all the willingness of re-examining the old ways of doing things; to reform itself, to experiment, to run risks; to dare, it needs vision.

The problems of criminal justice in America, outlined in the above quotation, are manifold and complex. The aim of this research investigation will be to examine two of the difficult areas pinpointed: institutions and offenders. More specifically, this study will entail

an analysis of a newly developed measure of behavior disorders in young adult offenders.

One method available to a scientist attempting to assess behavior in offenders is prediction. Gottfredson (1967) contended that "prediction is a traditional aim of science, and is a requisite to any effective crime and delinquency prevention or control program. If we seek to control delinquent or criminal behavior, then first, we will need to be able to predict it." Any prediction method should provide a way of summarizing previous experience in order to find a useful guide to future decisions. As William James aptly put it, "we <u>can</u> establish general expectations....We live forwards, but we understand backwards."

The literature is replete with prediction studies of criminality in youth and young adults. The majority of prediction works have been concerned with the prediction -- and prevention -- of delinquency among general populations (Glueck, 1950 and 1960); The stability of predictive factors over time and over different groups of offenders for whom probation or supervision had been ordered (Monachesi, 1932; Gillen and Hill, 1950; and Reiss, 1951; and most abundantly, parole prediction studies in which efforts were based on the theory of "differential identification" (Glaser, 1954) of offenders, in terms of the risks of their violating parole or being reconvicted (Ohlin, 1951; Mannheim and Wilkins, 1955; Gottfredson and Beverley, 1962; Voss, 1963; Gough, Wenk and Rozynko, 1965; and Babst, Gottfredson and Ballard, 1968).

Few studies have specifically investigated the relationship of emotional illness to criminality in an effort to develop assessment methods with sufficient configurational patterns to accurately classify

different behavior types within penal institutions. Such studies are crucial to establishing realistic treatment programs.

Sadoff (1971) stated that the relationship between emotional illness and criminal behavior is complex, and that numerous attempts have been made to classify and integrate criminal behavior into accepted psychosocial diagnoses. Some mental health professionals consider all criminals to be mentally disturbed, while other professionals consider environmental factors to be the predominating influence of crime. Sadoff proposed various combinations and associations of theories. In a paper prepared for the American Bar Association Journal (1968), he concluded in a study in which he presented five "non-professional criminal" types, that each case exemplifies the phenomenon in which people accused of commiting crimes have used the criminal-legal process as an indirect mechanism for handling internal conflicts. All respondents utilized the legal process in a therapeutic manner to avoid facing their real difficulties and receive some form of releif from their anxieties. People may handle anxiety or conflict in a number of ways: they may be aware of and feel anxiety, they may convert the anxiety to physical symptoms, they may repress anxiety, or they may act it out in aberrant behavior. Sadoff summarized his study as follows:

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Many of the case histories presented reflect examples of the individual "acting out" his internal conflicts in such a manner as to deny their existence and focus only on antisocial criminal behavior. In this way, the individual may avoid recognizing that which he wishes to hide. In some cases our criminal structure allows for successful self-deception and the conflicts remain unsolved. Recidivistic criminal behavior may then result.

The individual who uses the criminal-legal structure in order to obtain necessary treatment, either because he feels he has been denied treatment, or because he cannot accept voluntary therapy programs, poses an even greater challenge. Here, the patient recognizes his underlying emotional difficulties but may be so aggressive, hostile and dangerous that the typical psychiatric facility is unable or unwilling to treat him. In some cases this rejection may encourage the individual to react in a criminal manner in order to have court-mandated or enforced psychiatric treatment.

We must be aware of underlying psychodynamic mechanisms in criminal behavior in order to prescribe proper disposition...(p. 46)

Sadoff has centered on the core of the problem in classifying categories of emotional disturbance in conjunction with criminality. There is a need for uncovering and understanding underlying psychodynamic mechanisms. The question is: How can the clinician make predictions concerning the personality of an offender and, if necessary, formulate an individually styled treatment program -- particularly, in a prison setting with a disproportionate and growing ratio of offenders to clinicians?

Clinical Versus Actuarial Prediction

The variety of data available to a clinician involved in research can be as far ranging or as limiting as the research hypotheses dictate. Whether or not clinical or actuarial methods are employed in the research has no bearing on the type of data used. Gough (1962) has written:

The defining distinction between clinical and actuarial methods is instead to be found in the way in which the data, once specified, are combined for use in making the prediction. If the procedures, however complex mathematically,

are in principle such that a clerk, or a machine, or anyone else could carry out the necessary operations and that the result would be the same in all instances, then the method is actuarial or statistical in the sense here being discussed. If the combining is done intuitively, if hypotheses and constructs are generated during the course of the analyses, and if the process is mediated by an individual's judgment and reflection, then the method is clinical (p. 530).

Quay (1965) maintained that to concentrate on delinquency per se is of little value. His research and reviews have revealed that knowledge of different delinquent types would serve only to clarify past and future research on delinquency. However, if the goal is to predict and control behavior, then studies of personality dimensions that are related to delinquency should be of primary interest.

A review of the research literature focused on the assessment and prediction of personality characteristics of offenders -- for purposes of diagnosis and treatment -- indicates a use of both clinical and actuarial methods.

There are a number of works which have utilized clinical methodology to increase an understanding of psychopathology of criminality. The contribution some of these works have made is irrefutable. However, replication has been difficult, because even the so-called classic studies are based almost entirely on subjective clinical experiences rather than objective evidence.

Eissler (1949) studied a variety of personality types and stressed the necessity to establish a meaningful therapeutic relationship with delinquents. Her theories, based heavily on the earlier works of Aichhorn (1935), focused sharply on the connection between gross criminal behavior in parents and delinquent behavior in their

children. Eissler concluded that because society needs criminal or delinquent scapegoats, it seduces individuals into delinquent behavior, and interferes with programs which prevent delinquency.

Johnson and Szurek (1952) concentrated their research on defect or distortion in the conscience as the ontogeny of delinquency. They felt that this abnormality was caused by a delinquent's constitutional inability to develop an inner control, by identification with a pathological parent or parent figure, by severe and cruel and emotionally traumatic experiences in a particular social or cultural group, or a combination of these factors. The authors demonstrated in their clinical work that their "observations apply equally to the young delinquent or the psychopathic personality of years later, who is etiologically a delinquent grown older" (p. 342).

Succinctly stated, the Johnson-Szurek thesis is that the antisocial behavior in the child is encouraged unconsciously by parents who participate in the process, vicariously gaining pleasure in the child's deeds and thereby, subtly carrying out their own unconscious hostile and destructive feelings toward the child.

According to Abrahamson (1949) all delinquents are emotionally disturbed, and their disturbance has resulted from tensions in the family. In later research (1960) he broadened his theory to encompass multiple factors in the causation of criminality. Throughout his research Abrahamson stresses that "basically the persistent juvenile delinquent has a deformed character structure." His thesis is based primarily on comparative studies made of 100 criminals and 100 noncriminals who required treatment. Using data from psychiatric

interviews, additional data was gathered from Rorschach tests administered to 31 criminals and 29 of their family members. He concluded that criminals always manifested emotional disturbance and there was significantly more family tension in the criminal group. The study was weakened because Abrahamson had <u>a priori</u> knowledge of who was and was not delinquent and he made no attempt to collect the same data from both groups. Also, he acknowledged that "some differences between the groups were not easy to detect except through skilled interviewing and interpretation necessarily puts us on guard about the possible operation of subjective bias."

In their classic study, the Gluecks (1950) found only 36 (seven percent) psychopaths in their group of 500 delinquents. These findings are the result of the Gluecks' experimentation in predicting juvenile delinquency in school-aged children. Their research resulted in a predictive instrument (The Social Factors Prediction Table) to distinguish at the time they enter school those children who are in danger of developing into persistent offenders, especially in highdelinquency areas. The study is presented in this review because one aspect of the Gluecks' analysis took into account the rate of psychopathology manifested by the group.

Dissimilarity in the proportion of pathology concomitant with delinquent populations has been observed in other studies. Reiss (1952) noted, for example, in a group of 1,100 delinquent probationers, that emotional disorders could be associated with over 20 percent of the population. The other persons were found to be "relatively integrated."

Many of the discrepancies in the rates of personality disorders associated with delinquency and criminality can be attributed to the differences in diagnostic methods and categories used for classification of behavior. The paradigm followed by some researchers has been to use empirical designs. In this manner the predictive usefulness of procedures and findings can be cross-validated and thus increase the contribution to prediction research.

Roebuck's (1965) empirically designed study was based primarily on the type of offense most frequently committed by an offender. The statistical method of "association analysis" that she used was adapted from Wilkins and MacNaughton-Smith (1954), who developed prediction methods for probationers. Roebuck's data was derived from the arrest records of 400 offenders in a Virginia reformatory. The subjects were selected at random and she identified thirteen different patterns of criminal behavior. As a result of the patterns, she stated three types of offenders: (1) single pattern types in which the offender's record showed at least three arrests, all for the same charge; or, if there were other charges, then four arrests for the same charge; (2) double pattern and (3) triple pattern. These criteria were met if two or three types of crimes had been committed respectively.

Besides the arrest records, Roebuck analyzed social and personal backgrounds of the different types of offenders. Offenders arrested for armed robbery tended to be comparatively young, reared in unsatisfactory ghetto homes, and members of juvenile gangs. Criticism of Roebuck's work has focused mostly on her attributing behavioral differences to crimes delineated by legal definitions.

Gibbons (1965) closely matched Roebuck's research in terms of association of criminal career with learned social roles, i.e., deviant behavior. Gibbons stated that different role-careers are caused by different combinations of social and personal factors. Many offenders, he contended, display stable patterns of delinquent or criminal role-playing. He developed two typologies, one for juvenile delinquents and another for adult criminals. He hypothesized that the role career of the "heavy" usually begins with "membership in a delinquent gang, is characterized by increasing involvement with older professionals from whom necessary skills are learned, and often terminates with 'retirement' into a non-criminal occupation in middle age" (p. 134). Gibbons further suggested that the social and personal background of the heavy includes an urban, lower-class background, deprivation at all levels of his or her upbringing, along with deviant behavior manifested in sibling and peer relationships and frequent contacts with the police. A drawback in Gibbons' study is that his behavioral classification of criminality has not stood up well under cross-validation.

Argyle (1961) reviewed works on the behavioral components of criminal behavior based on Freudian theory. All the works he reviewed were the results of personality tests which measured traits of delinquents and non-delinquents. He found a number of the tests that did in fact measure traits which could group delinquents into four types: (1) inadequate super-ego; (2) deviant identifications; (3) weak ego control and, (4) lack of sympathy. Hood and Sparks (1970) criticized this study on the ground that if Freudian theory was shown to be

correct, some criminals still would not fit any of Argyle's types.

There is paucity of research using the Minnesota Multiphasic Personality Inventory (MMPI) in the prediction of pathological factors in criminality. A study of particular interest, involving the analysis of personality traits of offenders, was conducted by Gough and Peterson (1952). They developed a modified series of 64 items from the MMPI aimed at identifying and measuring predispositional factors in crime and delinquency. Their theory of psychopathology of offenders centered around the role-taking ability -- or lack of it -- in offenders. Subjects in the study included 940 delinquent males and 124 delinquent females incarcerated in Minnesota State Prisons. Control subjects numbered 168 men and 178 women. The results were crossvalidated using 1,092 army recruits and 99 stockade prisoners in Fort Ord, California. Critical values were significant for both the original research and the cross-validational research beyond the .01 level. Based upon their research, Gough and Peterson stipulated that offenders could be characterized by the following: (1) role-taking deficiencies, insensitivity to interactional cues and the effects of one's behavior on others; (2) resentment against family, feelings of having been victimized and exploited in childhood; (3) feelings of dependency and alienation, lack of confidence in self and others; and (4) poor scholastic adjustment and rebelliousness.

Lanyon (1968) in a comprehensive review of 293 mean clinical profiles of the MMPI, included 20 separate studies (comprising over 3600 subjects in all) on adolescents, delinquent youths, and prisoners. The major objective of each of these studies was to distinguish any

prevailing attributes or patterns of delinquents and prisoners. In what might be described as overwhelming empirical evidence and a cross-validation of findings (of sorts), the psychopathic deviate scale was the highest average peak in each of the criminality studies. The studies reflected the predictive utility of the MMPI in distinguishing delinquent from non-delinquent populations (Ashbaugh, 1953; Ball, 1962; Capwell, 1945; and, Jurjevich, 1963; Rowley and Stone, 1962; Rempel, 1958; and Stone and Rowley, 1963); and response to treatment (Randolph, Richardson and Johnson, 1961; Lauber and Dahlstrom, 1953). The MMPI studies with prisoners reflecting the same predictive utility of the psychopathic deviate scale concentrated on similar typologies -- i.e., classification of traits of criminal behavior (Panton, 1959, 1962a and 1962b; Clark, 1952; Miller and Hannum, 1962; Wolf, Freinek, and Shaffer, 1969; Swenson and Grimes, 1958; and Wattron, 1958; and outcome of treatment (Cabeen and Coleman, 1961).

Consistency in trait patterns of criminality borne out by the psychopathic deviate scale, as well as the discriminant efficiency of the nine other MMPI scales with all the sub-clinical groups reported in Lanyon's provided the springboard for Goldberg's (1965, 1970, 1972) theoretical development and cross-validation of his three stage predictor profile index rules.

Goldberg's Three Stage Predictor Profile Index Rules

Goldberg based his study on the assumption that there was practical utility to be derived from the use of group data. Using the 293 non-duplicated group profiles from Lanyon's review, Goldberg

hypothesized that he could develop a sequential diagnostic classification of gross behavior: (1) normal versus deviant, (2) psychiatric versus sociopathic, and (3) psychotic versus neurotic. He felt this could be accomplished by serially applying 11 MMPI scales, using stepwise multiple regression analyses against the stated gross criterion. Of the 293 non-duplicated group profiles in Lanyon's Handbook, Goldberg could only use 233. It was not possible to use the others for several reasons, including lack of profile and validity scales. The group profiles researched contained complete data for the same 11 MMPI scales -- L, F, K, HS, D, HY, Pd, Pa, Pt, Sc and Ma.

Goldberg classified 208 group profiles into five categories:

1. Psychotic (N=22). This category included paranoid schizophrenics and acute and chronic psychotics.

2. Neurotic (N=19). This category included conversion hysterics, anxiety neurotics, hypochondriacs, and reactive depressives.

3. Sociopathic (N=41). This category included alcoholics, narcotic addicts, sex offenders, homosexuals, male and female delinquents, and habitual and non-habitual criminals.

4. Mixed psychiatric (N=48). This category included schizophrenic patients on Promazine, hospitalized psychiatric groups, psychoneurotics, psychotics, psychosomatic cases, and patients undergoing shock therapy.

5. Normal (N=78). This category included actors, art students, gifted adolescents, ministers, medical students, and pregnant women.

Two other categories, totaling 25 groups, were deleted from study: (1) meddical (N=21), groups with complaints such as ulcers;

low back pain; obesity; aphasia; epilepsy; cerebral palsy; and multiple sclerosis; and (2) faking (N=4), normal persons faking illnesses,

First Stage Predictor Index: Normal versus Deviant Classification (Hs+2Pd-Ma)

The 208 groups were then further categorized, dichotomously, as normal (N=78); and deviant (N=130), including the categories, 1 through 4, described above. Based on stepwise multiple regression analysis, the 11 MMPI scales and the dichotomous normal versus deviant categories, Goldberg evolved a prediction formula: Hs+2Pd-Ma.

This first stage predictor in a point-biserial correlation coefficient between the first stage predictor and the normal versus deviant dichotomous classification group was .80 (N=208). The mean score for the normal group was 110 (S.D. = 5). By contrast, the mean score for the subgroups of the deviant samples were: neurotics = 141 (S.D. = 7), psychotics = 136 (S.D. = 14), mixed psychiatric = 137 (S.D. = 16), and sociopaths = 140 (S.D. = 9).

Using the scores attained from the formula, Goldberg rank ordered all the groups. He included the medical groups with a mean score of 128 and S.D. of 12. He asserted that by using a cutting score between 123 and 124 only four deviant and none of the normal groups were misclassified.

Second Stage Predictor Index: Psychiatric versus Sociopathic Classification (2Pd-Hy-Sc)

The analyses employed for the development of the first stage predictor index were similarly used to derive this second stage predictor index, the formula 2Pd-Hy-Sc.

The resulting point biserial correlation coefficient with the second stage predictor and the dichotomous criterion classification of psychiatric versus sociopathic was .86. The N for this coefficient was 82 groups.

The mean score and standard deviation for the 42 sociopathic groups was 24 and 8, respectively. The psychiatric groups yielded the following scores: neurotics = -10, S.D. = 9; psychotic groups = -2, S.D. = 8; and a mean of 0 and S.D. of 9 for the mixed psychiatric groups. Goldberg reported that "none of the psychiatric groups produced scores higher than 15, and none of the sociopathic groups produced scores lower than 5" (p. 124).

Based on the formula scores, the cutting score of 10 was imposed when these 82 groups were rank ordered. This cutting score resulted in the misclassification of two sociopathic groups and two psychiatric groups.

Third Stage Predictor Index: Neurotic versus Psychotic Classification (L+Pa+Sc-Hy-Pt)

The Lanyon Handbook profiles afforded Goldberg the opportunity to cross-validate his third stage predictor which he had developed in an earlier work. The third stage predictor index formula, an unweighted combination of five scales developed, is: L+Pa+Sc-Hy-Pt.

In a study designed to test the accuracy of clinical as opposed to actuarial judgments, Goldberg (1965) used 861 MMPI profiles from seven different clinical settings. The criterion of diagnosis was classifying a patient as psychotic or neurotic. Goldberg's findings revealed that the linear combination of L+Pa+Sc-Hy-Pt significantly

outperformed thirteen Ph.D.'s and sixteen clinical psychology trainees, and equalled or outperformed sixty-five diagnostic signs.

Although the results of the 1965 study were cross-validated in other works, Goldberg used the 1972 study to cross-validate group profiles using the third stage predictor developed from individual data.

The predictive efficiency of the third stage predictor in the 1965 study was .44. In the 1972 study, the resulting point-biserial correlation coefficient between scores on the predictor index and the dichotomous criterion classification of psychosis versus neurosis, was .83. The mean score of the psychotic group was 67 with a standard deviation of 12. Conversely, the mean score of the neurotic groups was 37 with a standard deviation of 7. Rank ordering of all 233 groups resulted in one psychotic group and three neurotic groups being misclassified, when a cutting score of 45 was used. Figure 1 depicts the hierarchical classification for emotional disorders that Goldberg hypothesized to predict through the use of the three predictor index.

Goldberg also analyzed the formulae using a simultaneous classification procedure, based on the linear multiple discriminant function. The hit rates (the number of profiles accurately classified by the formulae) attained through this method for the first, second, and third stage predictors were 98, 95 and 90 percent, respectively.

The highly significant findings prompted Goldberg to suggest that "group data appear to contain such a high signal-noise ratio that they become extraordinarily efficient indicators of underlying processes -- processes which are normally obscured by the unreliability inherent in individual profiles."



Figure 1. Goldberg's Hierarchical Classification System for Psychiatric Diagnosis.

Research on Goldberg's Profile Index Rules

Nichols (1974) reported his results of Goldberg's profile index rules as applied to two other MMPI typology coding systems. One system consisted of the 16 Marks and Seeman profile types for females developed from the profiles of 441 emotionally disturbed subjects. The 19 Gilberstadt and Duker coding system, developed from profiles of 266 veterans (all males), composed the second code type analyzed. Nichols concluded that in the use of both the sequential and simultaneous application of Goldberg's rules, the formulas yielded a significantly "high degree of congruence between formula classifications and modal diagnoses."

CHAPTER II

STATEMENT OF THE HYPOTHESES

Robert Levinson (1972), Director of Mental Health Services for the Bureau of Prisons, in Washington, D. C. has stated that Goldberg's MMPI results might have some applicability to federal prison populations. The literature, reviewed in Chapter I has indeed underscored the fact that there is a lack of empirical research on the relationship between emotional illness and criminal behavior, particularly in terms of the use of the MMPI.

The purpose of this present investigation, consequently, was to apply the Goldberg formulae to individual MMPI profiles of federal prisoners to assess the accuracy of judgment of the formulae as opposed to the behavioral judgments made by clinicians of the same population.

To study this problem, a special group of men -- known as observation and study cases -- convicted of federal crimes and committed to the Federal Reformatory, El Reno, Oklahoma prior to sentencing served as the subjects. Vold (1935) stressed the importance of using prediction methods to aid the courts and penal institutions.

Prior to a criminal court judge rendering a verdict in a case, he or she has several essential pieces of information, bits of a puzzle, about the accused that can help in the decision-making process.

These pre-sentencing factors were outlined by Dubienski (1972):

- 1) The degree of premeditation involved;
- 2) The circumstances surrounding the actual commission of the offense, that is, the manner in which it was committed, the amount of violence employed, whether or not an offensive weapon was used; the degree of participation of the offender;
- The gravity of the crime committed in regard to which the maximum punishment provided by the statute as an indication;
- 4) The attitude of the offender after the commission of the offense, as this serves to indicate to some extent the degree of criminology involved and throws some light on the character of the participant;
- 5) The previous criminal record, if any, of the offender;
- 6) The age, mode of life, character and personality of the offender;
- 7) Any pre-sentence report or any mitigating or other circumstances brought to the attention of the court;
- 8) The motive of the crime, the provocation, if any, the family background, the present status of the accused; the mental health of the accused; any reports pertaining to his social behavior; the relation of this offense to the accused's own life and community; the relation of this offense to society generally and its frequency and probably the most important, what facilities are available in penal institutions, or on probation for the possible rehabilitation of the accused.

Observation and Study Commitments

When a person has entered a guilty plea, a plea of nolo contendere or has had a guilty verdict rendered for a federal crime, the judge may, prior to sentencing, request a scientific examination if more exact knowledge about the case is required. Such a special provisional commitment is known as an observation and study sentence. Usually, an observation and study (hereafter abbreviated 0 and S) commitment is ordered when extenuating circumstances prevail or in instances where motivations are not apparent. The judge can commit such an offender to a federal facility for a stated period of time in order, hopefully, to have some of the causative factors unravelled. Smith (1962) has emphasized that "the primary aim in the application of the 0 and S procedures was to aid the court in the determination of the best possible course of treatment for the individual offender under study."

Four types of 0 and S commitments are available to the Federal Courts:

1. <u>Mental Competency to Stand Trial</u> (Title 18 of the United States Code of Crimes and Criminal Procedure (U.S.C.), Section 4244. (Subjects committed under this procedure were not considered for this study. The reason being that the primary question in such a commitment is one of competency to stand trial). In the other types of 0 and S commitments the questions all relate to causative factors after conviction, along with possible treatment and a recommendation for sentencing deposition of the case.

Youth and Young Adult Offenders (Title 18 U.S.C., Section
5010(e)). Enacted on September 30, 1950 the law is stated as follows:

If the court desires additional information as to whether a youth offender will derive benefit from treatment....it may order that he be committed to the custody of the Attorney General for observation and study at an appropriate classification center or agency. Within sixty days from the date of the order, or such additional period as the court may grant, the Division shall report to the court its findings.

Youthful offenders committed under this provision are usually between the ages of 22 and 26. Section 4 of Public Law 85-752 (1958) extended procedures, however, for such a commitment to young adult offenders through age 25. Additionally, youthful offenders under age 22 can be committed under the Youthful Corrections Act (18 U.S.C. 5010(b)).

All persons committed under these procedures have had little or no prior serious delinquency or prior commitment to any correctional institution.

3. <u>Adult Offenders</u> (Title 18 U.S.C. 4208(b)). This commitment procedure has provided:

If the court desires more detailed information as a basis for determining the sentence to be imposed, the court may commit the defendant to the Attorney General, which commitment shall be deemed to be for the maximum sentence of imprisonment prescribed by law....The results of the study, together with any recommendations which the Director of the Bureau of Prisons believes would be helpful in determining the disposition of the case, shall be furnished to the court within three months unless the court grants time, not to exceed an additional three months, for further study. After receiving such reports and recommendations, the court may in its discretion: (1) place the prisoner on probation as authorized, or (2) affirm the sentence of imprisonment originally imposed, or reduce the sentence of imprisonment, and commit the offender under any applicable provision of law.

When a man or woman is committed under this 0 and S procedure, the findings usually serve to augment the existing pre-sentence report investigation. In other words, the 0 and S report is a more intense, detailed and in-depth study of the previously completed pre-sentence report. 4. Juvenile Offenders (Title 18, U.S.C. 5034, as amended

March 31, 1962). This procedure has stipulated:

If the court desires more detailed information as a basis for determining whether to place any juvenile delinquent on probation or to commit him to the custody of the Attorney General for observation and study to an appropriate classification center or agency. The Director of the Bureau of Prisons, under such regulations as the Attorney General may prescribe, shall, after the delinquent has been so committed, cause a complete study to be made of the delinquent, including a mental and physical examination, to ascertain his personal traits, his capabilities, pertinent circumstances of his social background, any previous delinquency or criminal experience, any mental or physical defect or other factor contributing to his delinquency, and any other factors which the Director may consider pertinent. A full and complete report of the results of such study, together with any recommendations which the Director believes would be helpful to the court in making its determination, shall be furnished to the court by the Director within sixty days after the date such delinquent is ordered committed to the custody of the Attorney General under this paragraph unless the court grants additional time for further study.

Hypotheses

For this present investigation six hypotheses are suggested for testing:

1. The predictor profile index (Hs+2Pd-Ma) will significantly discriminate between <u>normal</u> and <u>deviant</u> groups of offenders committed for observation and study.

2. The predictor profile index (2Pd-Hy-Sc) will significantly discriminate between <u>psychiatric</u> and <u>sociopathic</u> groups of offenders.

3. The predictor profile index (L+Pa+Sc-Hy-Pt) will significantly discriminate between psychotic and neurotic groups of offenders.

ZZ

committed for observation and study.

4. There will be a significant agreement between each of the three predictor profile indices and the original diagnoses, by clinicians, of observation and study cases.

5. There will be a significant agreement between each of three predictor profile indices and the original diagnoses, by clinicians, of observation and study cases examined by type of offense.

6. There will be a significant agreement between each of the predictor profile indices and the original diagnoses, by clinicians, of observation and study cases examined by racial groups.

CHAPTER III

METHOD

Subjects

All Observation and Study cases in this study were assigned to the Federal Reformatory, El Reno, Oklahoma.

The mental status report on an 0 and S commitment id done by a prison clinician -- i.e., a psychiatrist, Ph.D. psychologist or by a psychology trainee -- one assigned to handle each 0 and S case.

To begin with, each 0 and S prisoner is given the same battery of psychological tests administered to each prisoner committed under regular U.S.C. Rules and Procedures. The standard battery of tests consist of the Beta IQ test, the Draw-A-Person projective test, and the MMPI. Whereas prisoners committed under traditional procedures are given this battery of tests and are the subjects of periodic reports on their adjustment and adaptability to life within the institution as well as efforts aimed at their rehavilitation; 0 and S cases, by law, have to have whatever psychological tests needed to enable the clinician to evaluate thoroughly the court's questions.

Two points concerning the pyschological evaluation were of primary interest for this research. First, was the MMPI profile. Secondly, and what, basically, makes this 0 and S group suitable for

the application of Goldberg's rules, was the accompanying clinical impression given by the clinician at the conclusion of each detailed report of all pertinent clinical findings necessary to help the court understand the nature of the psychological processes evoking the manifest behavior under study. The clinical impression for each prisoner was required by the Bureau of Prisons Office, and had to be compatible with a diagnosis listed in the <u>Diagnostic and Statistical Manual of</u> <u>Mental Disorders</u> (1967).

0 and S case reports conducted at El Reno during the years 1971 and 1972, inclusive, were selected for study for three reasons: (1) the different types of 0 and S commitments were enacted into law beginning in 1950, as previously stated. However, it had been only during the years 1971 and 1972 that El Reno had had committed the largest number of 0 and S cases. More specifically, 0 and S prisoners whose files remained at the institution intact; (2) there was during this two-year period a cross-section of professionally trained clinicians involved in 0 and S evaluations and case report write-ups. It was concluded by the author that clinicians with diverse backgrounds, in terms of professional training, would be of greater significance from a research viewpoint, than one or two clinicians, of similar training having diagnosed all of the cases; and (3) the year 1972 was the last year that the Bureau of Prisons Office officially required a clinical impression in conjunction with a psychological report.

A preliminary investigation indicated that one hundred and forty (140) 0 and S prisoners were committed to El Reno during the years 1971 and 1972. Table 1 is a breakdown of all cases conducted at
Year	FJDA-5034	YCA-5010(e)	S.4208(b)	Total
1971	1^{1} (0) ²	36 (32)	24 (17)	61 (49)
1972	4 (4)	55 (44)	20 (12)	<u>79 (60)</u>
	5 (4)	91 (76)	44 (29)	140 (109)

Type and Number of Observation and Study Cases Committed to El Reno During the Years 1971 and 1972

Table I

¹Number of cases conducted at El Reno.

 $^2 Number of cases used for this study.$

El Reno, by type 0 and S commitment and year committed, during the two-year period. The figures in parentheses reflect the actual number of cases used in this study.

Thirty-one (31) cases were deleted from the study for one of the following reasons:

1. Incomeplete MMPI scores and/or background data on the subject was missing (10 cases).

2. The clinical impression was not compatible with Goldberg's rules. All cases involved a diagnosis of mental retardation (3 cases).

3. Subject had been released from federal prison at the completion of his 0 and S commitment period. Or, subject had completed a further sentence imposed after the 0 and S commitment period was concluded. In both instances, the case file was no longer active and had been turned over to the Bureau of Prisons Archives in Washington, D.C. (18 cases).

Demographic Data

The average age of all 109 subjects was 22.9 years, with the age of the 1971 group averaging 23.6 while the mean age of the 1972 group was 22.5 years. All ages were based on age at the time of sentencing for the federal offense under study.

The mean ages of the subjects committed as FJDA, YCA and Adult was 18.3, 21.9, and 24.3 years of age.

Of the total group, 84 were White (77.1 percent) and they averaged 22.5 years of age; 23 subjects were Black (21.1 percent) averaging 21.5 years of age. The two (1.8 percent) remaining subjects were Native Americans with an average age of 24.6 years.

The citizenship of two of the subjects could not be determined. The other 107 subjects were all citizens of the United States. Most were residing in the central part of the United States at the time of their arrest and over half (56.9 percent) were arrested for the present offense in the same state in which they were born.

An analysis of the educational attainment level of the group reflected that 45 percent of the group had completed some level of high school training (grades 9-11). 26.6 percent of the subjects were either high school graduates or held the General Education Development (GED) diploma. Varying levels of college training was attained by 17.4 percent, while only two of the subjects (both White) had completed college.

The educational picture shifts somewhat when the subjects' level of education is examined by race. White prisoners compared quite favorably with the percentages cited above for the group as a whole. Black subjects were quite similar as well to the overall group. However, there was only one Black subject who had acquired some college education (one-half a semester to three years). The level of schooling completed for the Native American subjects was quite a sharp contrast from the group as a whole. Neither subject went beyond grade 8. (see Appendix A, Educational Level of Attainment for 0 and S Subjects).

The kind of occupations (see Appendix B, Occupation at Time of Arrest), in which the prisoners were involved, at the time of arrest, were evenly split between skilled and unskilled labor. This split in skill was relatively constant for both Whites and Blacks, with the White subjects having a slightly higher percentage of skilled labor

jobs and Black subjects tending to hold more unskilled jobs. However, the difference in these statistics for the two groups were not significant. The Native American subjects both held unskilled labor jobs. Approximately one fourth of the subjects had formed some kind of bond with another person. 21.3 percent were married while another 13 percent were either separated or divorced. The remaining 63.0 percent were single (see Appendix C, Marital Status of Observation and Study Offenders).

Sixty-three subjects had no prior military history. Of the remaining 45 subjects (on whom such information was available) who had served in the military, the average length of time served was approximately two years. 48.9 percent of those 45 subjects had been terminated from the service with honorable discharges. Another 20 percent had either general or medical discharges. The rest of them either had "other than honorable" discharges or had not been discharged at the time of the present offense (see Appendix D, Type of Military Discharge of Observation and Study Offenders).

Past Criminal Record Data

Fourteen subjects (12.8 percent) had no arrest record prior to the present arrest and commitment. The other 95 (87.2 percent) each had an average of 6.5 prior arrests (with a range of 1 to 45 prior arrests), although only 22.1 percent of the 95 had ever been committed previously -- this percentage does not include the prisoner with a history of 45 prior arrests! The 21 prisoners (with an average of 17.3 years at the time of his first arrest) with prior commitments had been committed an average of 1.4 times (with a range of 1 to 4

commitments). The longest time served on a previous commitment averaged thirteen (13) months. Prior to this 0 and S commitment for the present offense the average subject had been out of prison an average of three years.

Appendix E lists a complete breakdown of prior commitments of the subjects. It should be noted that the record of previous arrests and commitments were significantly similar for both White and Black subjects. The Native American subjects averaged 18.5 prior arrests with no commitments for one subject and three for the other.

Only one of the twenty-one prisoners with prior commitment records had been incarcerated in a federal prison facility. The other twenty had spent one or two terms in either a local or state prison.

Representation of Sample to All Observation and Study Cases

During the fiscal years 1971 and 1972, a total of 603 men were committed as Observation and Study cases to young adult institutions for males (Federal Bureau of Prisons Statistical Report, 1971 and 1972). Accordingly, the 140 cases at El Reno represented 23.2 percent of all cases conducted during the two-year period. Deleting those cases not applicable for research, the El Reno group comprised 18.1 percent of all 0 and S cases for the two years.

Consequently, this group was considered representative of the total population of young adult male 0 and S cases committed to federal prisons during 1971 and 1972.

There were no tables released by the Bureau of Prisons related to the proportion of 0 and S cases committed to federal prisons by race. However, the total number of prisoners, between the ages of 22

and 25 years of age, committed to federal prisons (Federal Bureau of Prisons Statistical Report, 1971 and 1972) during the stated two-year period, was 2,341. The percentages that Whites, Blacks, and Native Americans represented of this total group were 72.1, 25.2, and 2.5. The racial make-up of the sample group for this study (White = 77.1 percent; Black = 21.1 percent; and, Native American = 1.8 percent) were relatively comparable to the racial composition of all offenders, of similar ages, committed to federal facilities during the same period.

Based on the percentages cited above of the sample group to other relevant populations, this research group was considered representative. Necessarily, generalizations to the total population of 0 and S cases will be deemed appropriate.

Procedure

Data for the subjects was obtained from two sources: (1) the prison central files for information concerning each prisoner's past and present criminal record; as well as background data including personal, social, family, marital, educational, occupational, and military histories. Bureau of Prison forms 6 and 7 (see Appendices, F, G) maintained in each man's central file "jacket" contained the background information just cited. Also located in the central files is the clinician's report on the mental and emotional status of the offender, a copy of which is submitted to the court. It was from each of these reports that the clinical impression of the subject was taken.

Except for race and age, background data was available on only 108 of the 109 subjects. And (2) the medical records Bureau of

Prisons form 8 (see Appendix H) which contained all MMPI scale scores. The MMPI scale scores were available and complete for all 109 subjects

All clinical impressions on psychological or psychiatric reports were listed sometimes with multiple diagnoses. In such instances, Bureau of Prison format as well as principles of psychological reporting have dictated that the predominating, and/or most serious (psychodynamically) factor underlying and contributing to the manifest criminal behavior be listed first as the primary diagnosis.

In twenty-four (24) cases there was a <u>secondary diagnosis</u>. It was concluded by the author that a secondary diagnosis was indicative of a disorder necessitating equal treatment priority in conjunction with the primary diagnosis, or was a symptomatic expression of the primary diagnosis.

In three (3) instances, there was a <u>tertiary diagnosis</u>. For clarity, such a diagnosis would be interpreted in a manner similar to that given secondary diagnosis. A tertiary diagnosis would further suggest, however, a condition that was as dynamically significant a factor, but from a cause-and-effect relationship viewpoint, not as compelling a factor of criminal behavior as would be the primary and secondary diagnoses.

Each original clinical diagnosis (primary, secondary and tertiary) was then classified for research purposes. Tables II, III, IV, list the classifications used for the primary, secondary and tertiary diagnoses, respectively. <u>The Diagnostic and Statistical Manual of</u> <u>Mental Disorders</u> (1968) was used as a guide in classifying the diagnoses made by the clinicians.

Table II

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Group Classification of Clinicians' Primary Diagnoses of the Offenders

Clas	sification		<u>N</u>
Norn	nal		47
1.	No mental disorder		25
2.	Adjustment reaction of adolescence		10
3.	Adjustment reaction of adult life		7
4.	Social maladjustment without manifest psychiatric dis	order	4
5.	Dyssocial behavior		1
Soci	anathia		54
1	Passive accressive personality disorder		20
1. 2	Passive-aggressive personality disorder		14
2. 7			14
3. 1			9
4.	Immature personality		
5.	Drug dependence (unspecified)		2
6.	Passive dependent personality		2
7.	Drug dependence (barbituate)		1
8.	Alcoholic addiction		1
9.	Group delinquency reaction of adolescence		1
10.	Cyclothymic personality (hypomanic type)		1
Neur	otic		
1.	Anxiety neurosis		3
2.	Hysterical neurosis, slight tendencies		1
3.	Phobic neurosis		1
Psyc	chotic		
1.	Acute schizophrenic reaction		1
2.	Schizophrenia, latent type		1
3.	Schizophrenia, childhood type (probably in remission)		1
- •			
		Total	109

Table III

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Group Classification of Secondary Diagnoses of The Offenders Made by Clinicians

<u>Clas</u>	sification	<u>N</u>
<u>Soci</u>	opathic	17
1.	Antisocial traits or features	10
2.	Drug dependence, unspecified	4
3.	Antisocial personality	2
4.	Inadequate personality	1
Neur	otic	. 4
1.	Depressive neurosis (including overtones of)	. 2
2.	Hysterical neurosis, slight tendencies, conversion type (Belle Indifference)	1
3.	Hypochondriacal neurosis	1
Psyc	hotic	
1.	Psychosis (unspecified)	2
	a. underlying tendencies to decompensate emotionally (acute psychoses 5 years earlier) 1 case	
	 b. minimal capacity to relate adequately to the stresses and strains of daily living. Decompensated mental capacity. 1 case. 	
2.	Schizophrenia, latent type	1

Total 24

Table IV

Group Classification of Tertiary Diagnoses of the Offenders Made by Clinicians

Cla	ssification	<u>N</u>
Soc	iopathic	
1.	Antisocial personality (including asocial personality)	2
2.	Drug dependence (unspecified)	1
	Total	3

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The resulting dichotomous classifications of behavior based on the original diagnoses were as follows:

1. Normal (46 cases) vs. Deviant (63 cases)

2. Sociopathic (55 cases) vs. Psychiatric (8 cases)

3. Neurotic (5 cases) vs. Psychotic (3 cases)

Similarly, the present offense for which each prisoner was sentenced was classified into one of three groups: (1) Group I-Drug Laws; (2) Group II-Violent Crimes Against Persons; and (3) Group III-Crimes Against Property and Other. Table V lists the group classification of present offenses.

The level of training of the clinicians was a determining factor in their classification. There were eight clinicians divided into three categories: (1) psychiatrists-3; (2) Ph.D. psychologists-2, and (3) psychology interns-3. Table VI lists the categories of clinicians and the number of cases diagnosed.

The MMPI scale scores were keyed to each of the predictor profile index formulae. (See Appendix I for the complete list of MMPI scale and resulting formula scores).

Hypotheses I, II and III were tested by computing point biserial correlations for each of the profile index formula results and the dichotomous categories of diagnoses as determined by the clinicians.

Hypotheses IV, V and VI were tested through the computation of tests of significance for nominal data.

The design, for all statistical analyses, were based on the Statistical Package for the Social Sciences (1970). All data and statistics defined and coded for the computer system on the diagnostic grouping of behaviors by the clinicians.

Table V

Group Classification of the Present Offense of Observation and Study Cases by Race

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			•	Native	
		White	Black	American	<u>Total</u>
GROU	<u>P I</u>				
Dru	1g Laws				
1.	Marijuana	19	3	0	22
2.	Narcotics	17	2	0	19
3.	Dangerous drugs	<u>5</u> 41	<u>0</u> 5	<u>0</u>	<u>5</u> 46
		74	Ū	Ū	40
GROUI	<u>9 11</u>				
Vic	olent Crimes Against Persons				
1.	Kidnap and Rape	0	1	0	1
2.	Robbery	5	3	0	8
3.	Assault (District of Columbia)	0	2	0	2
4.	Homicide (District of Columbia)	0	1	0	1
		5	7	0	12
GROUE	<u>P III</u>				
<u>Cri</u>	mes Against Property and Other				
1.	Counterfeit	0	1	0	1
2.	Embezzlement and Fraud	4	~~0	0	4
3.	Firearms	4	2	1	7

<u>TABLE V</u> - cont'd.

				Native	
		White	Black	American	<u>Total</u>
GROUI	PIII - cont'd.				
<u>(</u> La	arceny/Theft)				
4.	Motor Vehicle, Interstate	17	2	0	19
5.	Postal	2	0	0.	2
6.	Postal with Forgery	1	1	0	2
7.	Theft, Interstate	3	1	0	4
8.	Other	1	0	0	1
9.	National Security Laws	1	0	0	1
10.	Selective Service Act	0	1	0	1
11.	Security, Transporting False or Forged	ĺ	2	0	3
12.	Other Unclassified	1	1	0	2
	a.l. threatening letters sent through the U.S. Mail				
	b.2. bond jumping				

Gov	vernment Reservation, Hig	1 Seas,	Territorial	and	District of	Columbia
13.	Auto Theft		1	0	0	1
14.	Burglary		0	0	1	1
15.	Larceny/Theft		1	0	0	1
16.	Other and Unclassified		1	0	0	1
			38	11	2	51

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Cla	ssification of Clinician	(N)	W	hite		Black	N Am	ative erican	<u> </u>	<u>'otal</u>
1.	Psychiatrist	(3)	37	(44)	13	(56.6)	1	(50)	51	(46)
2.	Ph.D. Psychologist	(2)	25	(30)	5	(21.7)	0	(0)	30	(28)
3.	Psychology Interns	(3)	22	(26)	5	(21.7)	1	(50)	28	(26)
			84	(100)	23	(100.0)	2	(100)	109	(100)

Table VI									
Number	of	Cases	Diagnosed	by	Туре	of	Clinician		

CHAPTER IV

RESULTS

The first three hypotheses centered on the utility of the predictor profile indices to significantly discriminate between the three dichotomous groups of behavior manifested by the group of offenders under study. The results were as follows:

1. <u>Normal versus deviant offenders using the first-stage</u> <u>predictor profile index (Hs+2Pd-Ma)</u>. The hypothesis was supported. Using the cutting score of 124 the formula discriminated between normal and deviant groups of offenders. Thirty-six (36) subjects were classified as normal with a mean score of 107 (SD = 12). The remaining subjects (73) were classified as deviant. The mean score of the deviant group was 150 (SD = 19). Appendix I lists the formula results for all subjects. The mean and standard deviation results closely approximate those mean score findings of Goldberg's study group.

2. <u>Sociopathic versus psychiatric offenders using the second-</u> <u>stage predictor profile index (2Pd-Hy-Sc)</u>. The hypothesis was supported. Of the seventy-three (73) subjects classified deviant by the first-stage index, forty-six (46) were classified as sociopathic (with a mean score of 33 and a SD = 15), while it classified twentyseven (27) subjects as psychiatric (mean score equalling -3, and

SD = 14). The cutting score for this index was 10 and none of those subjects classified as psychiatric scored above this number. The mean index scores of the sociopathic and psychiatric groups on the first stage prediction profile index were 148, SD = 20, and 153, SD = 18, respectively. These results reflected Goldberg's findings that the more severe the pathology, the greater the difference in the mean scores of the first formula.

3. <u>Neurotic versus psychotic offenders using the third-stage</u> <u>predictor profile index (L+Pa+SC-Hy-Pt)</u>. This hypothesis was also supported. A cutting score of 45 was used with this index. The twenty-seven (27) psychiatric subjects were further classified, by the third-stage index, as either neurotic or psychotic. The neurotic group (N=4) produced a mean score of 36 (SD = 6). Contrastingly, the psychotic group mean results were 66 with a SD = 15. The deviant index score for the neurotic group was 145 (SD = 14), while the deviant index score for the psychotic group was the highest produced by any group with a mean of 155 and a SD = 18). Table VII lists the mean scores which resulted for each group for all three indices.

The MMPI scale scores for the group of 109 subjects are profiled in Figure 2. Figure 3 profiles the scale scores for the subjects by race.

The fourth hypothesis tested:

4. Agreement between each of the three predictor profile indices and the original diagnoses, as determined by prison clinicians of offenders. This hypothesis was statistically tested with the point biserial correlation. The hypothesis was not supported.

Group	<u>N</u>	Formula I Mean	Formula II Mean	Formula III <u>Méan</u>	SDI	SDII	SDIII
Normal	(36)	107	8	52	12	15	20
Deviants	(73)	150	20	55	19	22	20
Sociopathic	(46)	148	33	54	20	15	20
Psychiatric	(27)	153	-3	61	18	14	18
Neurotic	(4)	145	7	36	14	4	6
Psychotic	(23)	155	-5	66	18	16	15

Behavioral Classification of Subjects Based on Predictor Profile Index Results

Table VII

PLEASE NOTE:

Pages 43 and 44, "The Minnesota' Multiphasic Personality Inventory", copyright 1948 by The Psychological Corporation not microfilmed at request of author. Available for consultation at The University of Oklahoma Library.

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The correlation coefficient which resulted for the first-stage predictor and diagnoses made by clinicians was .05 for the 109 subjects. This correlation yielded a significance level of .61 (p > .05). This result was interpreted as being indicative of very little congruency in the classification of behaviors by the clinicians and the predictors (see Table VIII). Figure 4 reveals the differences in the classification of the offenders to the broad dichotomous normal and deviant groups.

A chi square test of independence was computed to determine the significance of differences between the normal and deviant groups as labelled by both the clinical and predictor method. The null hypothesis of no difference between the group was not rejected.

The correlation of coefficient between the sixty-three (63) subjects the clinicians diagnoses as either sociopathic versus psychiatric and the second-stage predictor was -.05 (attaining a significance level of .70) and was interpreted as a statistically non-significant result. The correlation coefficient of -.05 indicated no agreement. The formula scores obtained by the sociopathic and psychiatric groups, as determined by the clinicians, were inverse to the scores predicted in Goldberg's research, and the resulting mean scores of this group independent of the diagnoses. Figure 5 shows the distribution of subjects by both methods for this part of the hypothesis. The number of cases involved in the computation of this coefficient was determined by the number of subjects diagnosed sociopathic by the clinicians -- in this instance 55. The profile index, correspondingly classified 46 subjects as sociopathic. Figure 5 indicates that with

Table VIII

Point Biserial Correlation Coefficients Between the Predictor Profile Indices and the Diagnosticians for all Observation and Study Cases

	Profile Index I	Profile Index II	Profile Index III
Normal vs. Deviant Diagnosis	.045 (N=109) S ¹ -0.614		
Sociopathic vs. Psychiatric Diagnosis		05 (N=63) S=.699	
Neurotic vs. Psychotic Diagnosis			.76* (N=8) S=,029

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¹S refers to significance level.

*p > .05.

Figure 4.



Normal and Deviant Classification Distribution of Subjects As Determined by First Stage Predictor Profile Index (Hs+2Pd-Ma) and the Diagnoses of Clinicians

¹Diagnosed refers to clinicians assessment of subject's personality. ²Classified refers to predictor profile index results.

Figure 5





seventy-eight (78 non-duplicated sociopathic cases the clinicians agreed with the index on only 23 cases (29 percent), while they disagreed on 78 subjects (71 percent). Figure 6 shows the distribution of thirty-three (33) non-duplicated cases labelled psychiatric by both methods. Clinicians and the index agreed on only two subjects. The other 31 were labelled differently. The null hypotheses for the chi square test of independence in labelling of sociopathic and psychiatric groups by both methods was not rejected.

On the neurotic versus psychotic continuum, the resulting correlation coefficient, for the eight (8) subjects diagnosed as psychiatric by the clinicians and the third stage predictor profile index (L+Pa+Sc-Hy-Pt), was .76. This correlation coefficient was beyond the .05 level of significance. The point biserial correlation coefficient is inflated, however, because the computation of the correlation is based on the eight cases diagnosed by clinicians. The formula scores for these eight cases had been classified by the indices as either sociopathic (5 cases), normal (1 case), psychotic (1 case) -- this case was diagnosed as neurotic. Only one case was agreed upon as being neurotic (see Figures 7 and 8). Necessarily, computing a chi-square test of independence of differences between the neurotic and psychotic groups resulted in a lack of rejection of the null hypothesis. It is of import for research, however, that the chi-square did approach the .10 level of significance.

Table IX lists the means of the formulae based on the diagnostic grouping of behaviors by the clinicians.

Figure 6.



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Figure 7.

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Figure 8.





<u>N</u>	Formula I Mean	Formula II Mean	Formula III <u>Mean</u>	<u>SDI</u>	SDII	SDIII
(109)	136	16	54	27	21	19
(46)	134	12	55	27	22	20
(63)	137	19	56	26	20	19
(55)	136	19	58	27	21	19
(8)	145	16	48	22	13	17
(5)	150	10	39	11	11	11 ່
(3)	137	27	63	6	6	13
	<u>N</u> (109) (46) (63) (55) (8) (5) (5) (3)	N Formula I Mean (109) 136 (46) 134 (63) 137 (55) 136 (8) 145 (5) 150 (3) 137	N Formula I Mean Formula II Mean (109) 136 16 (46) 134 12 (63) 137 19 (55) 136 19 (8) 145 16 (5) 150 10 (3) 137 27	N Formula I Mean Formula II Mean Formula III Mean (109) 136 16 54 (46) 134 12 55 (63) 137 19 56 (55) 136 19 58 (8) 145 16 48 (5) 150 10 39 (3) 137 27 63	N Formula I Mean Formula II Mean Formula III Mean SDI (109) 136 16 54 27 (46) 134 12 55 27 (63) 137 19 56 26 (55) 136 19 58 27 (8) 145 16 48 22 (5) 150 10 39 11 (3) 137 27 63 6	N Formula I Mean Formula II Mean Formula III Mean SDI SDII (109) 136 16 54 27 21 (46) 134 12 55 27 22 (63) 137 19 56 26 20 (55) 136 19 58 27 21 (8) 145 16 48 22 13 (5) 150 10 39 11 11 (3) 137 27 63 6 6

Predictor Profile Index Means and Standard Deviations Based on Clinical Diagnoses

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Table IX

The fifth hypothesis concerned:

5. Agreement between each of the three predictor profile indices and the original diagnoses made by the clinicians of observation and study cases by the type of offense for which each was committed. The point biserial coefficient was calculated to test this hypothesis. The resulting coefficients did not reach significant levels. Thus, the hypothesis was not supported. Tables, X, XII and XIV contain the correlation coefficients for each of the three classes of crimes under which 0 and S offenders were committed. Tables XI, XIII and XV list the means and standard deviations for each of the diagnosed groups. These formula means do not approximate nor reflect a systematic distinction between normal to psychotic groups as Goldberg suggests they should. The scores are, instead, high for normal groups or groups with minimal psychopathy, and low for groups labelled as manifesting a significant degree of psychopathy -- thus, the correlation coefficients were nonsignificant.

The last hypothesis analyzed:

6. Agreement between each of the predictor profile indices and the diagnoses, of clinicians, of the study group examined by racial background. Similar to the other hypotheses, the point biserial correlation coefficients did not reach significant levels. The hypothesis was not supported. The significantly high correlation between Profile Index III and the Neurotic versus Psychotic Diagnosis (.76) for White subjects in Table XVI is explained the same as the similarly high correlation for the total group of subjects. The chi-square hypothesis of no difference with this dichotomous group using both methods was not

Table X

Point Biserial Correlation Coefficients Between the Prediction Profile Indices and the Diagnosticians for Observation and Study Cases Classified by Type I Offense (Drug Laws)

	Profile Index I	Profile Index II	Profile Index III
Normal vs. Deviant Diagnosis	.18 (N=46) S ¹ =.223		
Sociopathic vs. Psychiatric Diagnosis		15 (N=20) S=.519	•
Neurotic vs. Psychotic Diagnosis			.82 (N=4) S=.184

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¹S refers to significance level.

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Group	N	Formula I Mean	Formula II Mean	Formula III Mean	<u>SDI</u>	SDII	<u>SDIII</u>
Total	(46)	131	13	51	24	18	15
Norma1	(26)	127	12	51	24	20	14
Devian t	(20)	136	15	51	24	16	16
Sociopathic	(10)	134	17	52	26	17	17
Psychiatric	(4)	145	11	49	20	12	11
Neurotic	(3)	150	6	45	22	10	8
Psychotic	(1)	131	13	51	*	*	*

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Predictor Profile Index Means and Standard Deviations Based on Clinical Diagnoses for Type I Offense Observation and Study Cases

Table XI

Table XII

Point Biserial Correlation Coefficients Between the Predictor Profile Indices and the Diagnosticians for Observation and Study Cases Classified by Type II Offense (Violent Crimes)

	Profile Index I	Profile Index II	Profile Index III
Normal vs. Deviant Diagnosis	21 (N=12) S ¹ =.512		
Sociopathic vs. Psychiatric Diagnosis		99.000 ² (N=7) S=****	
Neurotic vs. Psychotic Diagnosis			99.000 (N=0) S=****

¹S refers to significance level.

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²99.000. This value indicates a coefficient could not be computed.

Table XIII

Predictor Profile Index Means and Standard Deviations Based on Clinical Diagnoses for Type II Offense Observation and Study Cases

Group	<u>N</u>	Formula I Mean	Formula II Mean	Formula III Mean	<u>SDI</u>	<u>SDII</u>	<u>SDIII</u>
Total	(12)	139	-1	60	33	16	20
Norma1	(5)	147	-5	49	34	20	19
Deviant	(7)	133	1	68	34	14	18
Sociopathic	(7)	133	1	68	34	14	18
Psychiatric	(0)	-	-	-	-	-	-
Neurotic	(0)	-	-	-	-	-	, _
Psychotic	(0)	-	-	•	-	-	-

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Table XIV

Point Biserial Correlation Coefficients Between the Predictor Profile Indices and the Diagnosticians for Observation and Study Cases Classified by Type III Offense (Crimes Against Property and Other)

		Profile Index I	Profile Index II	Profile Index III
•	Normal vs. Deviant Diagnosis	08 (N=51) S ¹ =.593		
	Sociopathic vs. Psychiatric Diagnosis		04 (N=36) S=.822	
	Neurotic vs. Psychotic Diagnosis			.85 (N=4) S=.153

¹S refers to significance level.

Table XV

Predictor Profile Index Means and Standard Deviations Based on Clinical Diagnoses for Type III Offense Observation and Study Cases

Group	N	Formula I Mean	Formula II Mean	Formula III Mean	<u>SDI</u>	SDII	SDIII
Total	(51)	139	22	59	27	21	22
Norma1	(15)	143	18	64	29	23	25
Deviant	(36)	138	24	57	26	21	21
Sociopathic	(32)	137	24	58	26	22	20
Psychiatric	(4)	144	22	47	27	12	23
Neurotic	(2)	149	15	30	13	13	11
Psychotic	(2)	140	29	64	45	8	- 18

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Table XVI

Point Biserial Correlation Coefficients Between the Predictor Profile Indices and the Diagnosticians for Observation and Study Cases Classified by Race (White Subjects)

	Profile Index I	Profile Index II	Profile Index III
Normal vs. Deviant Diagnosis	.05 (N=84) S ¹ =.624		, , , , , , , , , , , , , , , , , , ,
Sociopathic vs. Psychiatric Diagnosis		10 (N=48) S=.491	
Neurotic vs. Psychotic Diagnosis			.76 ² (N=8) S=.029

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 ^{1}S refers to significance level.

 $^{2}p < .05.$

rejected. The correlation coefficients are listed in Tables XVI, XVIII and XX with Tables XVII, XIX and XXF revealing the scatter in behavioral group mean scores.

The level of agreement attained by the clinicians, as opposed to the predictor profile indices, was not one of the original hypotheses. It was felt, however, that the predictive efficiency of the indices compared with the level of training of clinicians was crucial to any conclusions reached after analyzing the results. The level of agreement between indices and behavioral diagnoses as determined by the psychiatrists and psychology trainees were similar to results of the hypotheses, i.e., there were no significant results (see Tables XXII, XXIII, XXVI and XXVII.

Contrastingly, the level of agreement of Ph.D. psychologists for the diagnoses of the normal versus deviant dichotomy and that of the first-stage predictors was significant beyond the .05 level of significance (see Table XXIV). A glance at the mean scores for the normal and deviant groups (Table XXV) can explain readily the significant correlation coefficient. Despite the fact that the mean score for the normal group does not fall into the cutoff category designated by Goldberg, it approaches it very favorably. Consequently, the degree to which misclassifications would be made, in contrast to the index classifications, would be expected to be minimal. Results for the second and third-stage predictors with the appropriate diagnoses were non-significant.

The ranked scores resulting from each of the index formulas and the original diagnoses were printed out in Tables XXVIII, XXIX and
Profile Index III II Profile Index Н Profile Index to significance level Psychiatric Diagnosis Neurotic vs. Psychotic Diagnosis Diagnosis Deviant 'S refers .05. vs. v Sociopathic ^{2}D ٧s. Normal 61

rejected. The correlation coefficients are listed in Tables XVI, XVIII and XX with Tables XVII, XIX and XXF revealing the scatter in behavioral group mean scores.

The level of agreement attained by the clinicians, as opposed to the predictor profile indices, was not one of the original hypotheses. It was felt, however, that the predictive efficiency of the indices compared with the level of training of clinicians was crucial to any conclusions reached after analyzing the results. The level of agreement between indices and behavioral diagnoses as determined by the psychiatrists and psychology trainees were similar to results of the hypotheses, i.e., the ant results (see Tables XXII, XXIII, XXVI and

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The ranked scores resulting from each of the index formulas and the original diagnoses were printed out in Tables XXVIII, XXIX and

Predictor Profile Index Means and Standard Deviations Based on Clinical						
Diagnoses for Observation and Study Cases Classified by Race						
(White Subjects)						

Table XVII

Group	<u>N</u>	Formula I Mean	Formula II Mean	<u>Formula III</u> <u>Mean</u>	<u>SDI</u>	<u>SDII</u>	SDIII
Total	(84)	135	17	53	26	22	19
Normal	(36)	134	12	54	29	22	20
Deviant	(48)	137	21	53	24	21	19 .
Sociopathic	(40)	135	22	54	25	23	19
Psychiatric	(8)	145	16	48	22	13	17
Neurotic	(5)	150	10	39	17	11	11
Psychotic	(3)	137	27	63	32	6	13

Table XVIII

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Point Biserial Correlation Coefficients Between the Predictor Profile Indices and the Diagnosticians for Observation and Study Cases Classified by Race (Black Subjects)

	Profile Index I	Profile Index II	Profile Index III
Normal vs. Deviant Diagnosis	.0008 (N=23) S ¹ =.99		
Sociopathic vs. Psychiatric Diagnosis		99.000 ² (N=13) S=****	· .
Neurotic vs. Psychotic Diagnosis			99.000 (N=0) S=****

¹S refers to significance level.

²99.000. This value indicates a correlation coefficient could not be computed.

Group	. <u>N</u>	Formula I Mean	Formula II <u>Mean</u>	Formula III Mean	<u>SDI</u>	<u>SDII</u>	<u>SDIII</u>
Total	(23)	136	11	64	31	16	19
Norma1	(10)	136	12	57	24	20	19
Deviant	(13)	136	10	69	36	12	17
Sociopathic	(13)	136	10	69	36	12	17
Psychiatric	(0)	-	-	-	-	-	. '
Neurotic	(0)	-	-	-	-	-	
Psychotic	(0)	-	-	-	-	_	-

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Table XIX

Diagnoses for Observation and Study Cases Classified by Race (Black Subjects)

Predictor Profile Index Means and Standard Deviations Based on Clinical

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Table XX

Point Biserial Correlation Coefficients Between the Predictor Profile Indices and the Diagnosticians for Observation and Study Cases Classified by Race (Native Americans)

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	Profile Index I	Profile Index II	Profile Index III
Normal vs. Deviant Diagnosis	99.000 ¹ (N=2) S=****		
Sociopathic vs. Psychiatric Diagnosis		99.000 (N=2) S=****	
Neurotic vs. Psychotic Diagnosis	• .		99.000 (N=0) S=****

¹99.000. This value indicates a correlation coefficient could not be computed.

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Group	<u>N</u>	Formula I Mean	Formula II Mean	Formula III Mean	<u>SDI</u>	<u>SDII</u>	<u>SDIII</u>
Total	(2)	149	22	70	0	28	15
Norma l	(0)	-	-	-	-	-	-
Deviant	(2)	149	22	70	. 0	28	15
Sociopathic	(2)	149	22	70	0	28	15
Psychiatric	(0)	-	-	-	-	-	-
Neurotic	(0)	-	-	-	-	-	-
Psychotic	(0)	-	-	-	-	-	-

Predictor Profile Index Means and Standard Deviations Based on Clinical Diagnoses for Observation and Study Cases Classified by Race (Native Americans)

Table XXI

Table XXII

Point Biserial Correlation Coefficients Between the Predictor Profile Indices and Diagnoses Made by Psychiatrists for Observation and Study Cases

	Profile Index I	Profile Index II	Profile Index III
Normal vs. Deviant Diagnosis	08 (N=51) S ¹ =.570		
Sociopathic vs. Psychiatric Diagnosis		06 (N=38) S=.705	
Neurotic vs. Psychotic Diagnosis			.93 (N=3) S=.237

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¹S refers to significance level.

Table XXIII

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Predictor Profile Index Means and Standard Deviations Based on Clinical Diagnoses of Psychiatrists for Observation and Study Cases

Group	<u>N</u>	Formula I Mean	Formula II Mean	Formula III Mean	SDI	<u>SDII</u>	<u>SDIII</u>
Total	(51)	134	14	59	28	22	20
Normal	(13)	137	5	63	31	22	23
Deviant	(38)	132	17	57	27	· 21	19
Sociopathic	(35)	131	17	57	27	21	19
Psychiatric	(3)	147	21	57	21	14	19
Neurotic	(1)	140	6	38	0	0	0.
Psychotic	(2)	151	29	69	28	7	10

Table XXIV

Point Biserial Correlation Coefficients Between the Predictor Profile Indices and Diagnoses Made by Ph.D. Psychologists for Observation and Study Cases

	Profile Index I	Profile Index II	Profile Index III
Normal vs. Deviant Diagnosis	$.44^{1}$ (N=30) S ² =.014		
Sociopathic vs. Psychiatric Diagnosis		07 (N=11) S=.847	
Neurotic vs. Psychotic Diagnosis			99.000 ³ (N=1) S=****

¹Correlation coefficient significant beyond the .05 level of significance.

²S refers to significance level.

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³ 99.000. This value indicates a correlation coefficient could not be computed.

Table XXV

Predictor Profile Index Means and Standard Deviations Based on Clinical Diagnoses Made by Ph.D. Psychologists for Observation and Study Cases

Group	<u>N</u>	Formula I Mean	Formula II Mean	Formula III Mean	SDI	SDII	<u>SDIII</u>
Total	(30)	136	18	54	25	22	20
Normal	(19)	128	11	50	21	20	17
Deviant	(11)	150	28	60	24	29	24
Sociopathic	(10)	149	29	64	26	23	22
Psychiatric	(1)	158	24	22	-	-	-
Neutotic	(1)	158	24	22	-	-	-
Psychotic	(0)	-	-	-	-	-	-

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Table XXVI

Point Biserial Correlation Coefficients Between the Predictor Profile Indices and Diagnoses Made by Psychology Trainees for Observation and Study Cases

		Profile Index I	Profile Index II	Profile Index III
	Normal vs. Deviant Diagnosis	03 (-28) S ¹ =.924		
72	Sociopathic vs. Psychiatric Diagnosis		26 (N=14) S=.379	
	Neurotic vs. Psychotic Diagnosis			.46 (N=4) S=.541

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¹S refers to significance level.

Table XXVII

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Predictor Profile Index Means and Standard Deviations Based on Clinical Diagnoses Made by Psychology Trainees for Observation and Study Cases

Group	<u>N</u>	Formula I Mean	Formula II Mean	Formula III Mean	<u>SDI</u>	<u>SDII</u>	<u>SDIII</u>
Total	(28)	139	18	5 <u>3</u>	28	19	17
Normal	(14)	140	19	54	32	22	.19
Deviant	(14)	138	16	52	25	15	16
Sociopathic	(10)	138	18	54	26	16	18
Psychiatric	(4)	140	10	46	27	12	7
Neurotic	(3)	150	6	45	22	10	8
Psychotic	(1)	108	23	51	-	-	-

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Table XXVIII

Primary Diagnosis

Distribution of Normal and Deviant Scores Ranked on Hs+2Pd-Ma Index

0 and S Subject	Index Mean	Original Diagnostic Impression of Clinician	Classification of Diagnosis	
90-2Y3 ¹	203	Inadequate Personality	S ²	
98-123	200	Adjustment Reaction to adolescence	0	
72-2X2	192	Antisocial Personality, severe	S	
1-2X2	183	No Mental Disorder	0	
85-1X3	181	Passive-Aggressive Personality Disorder	·S	
7-1X3	179	Adjustment Reaction of Adolescent Life	0	
4-123	177	No Mental Disorder	0	
10-121	175	Anxiety Neurosis	E	
45-1X1	174	Antisocial Personality Disorder	S	
97-1X1	174	Passive-Aggressive Personality Disorder	S	
81- 121	172	No Mental Disorder	0	
3-1X3	171	Schizophrenia, Childhood type, probably in remission	Р	
83-123	169	Adjustment Reaction of Adolescence	0	
64-1Y3	169	Inadequate Personality	S	
105-121	167	Drug Dependence	S	
103-1X2	165	Passive-Dependent Personality	S	
68-1X3	164	Antisocial Personality	S	
66-1X1	164	Adjustment Reaction of Adolsecence	0	
58-1Y2	164	No Mental Disorder	0	
62-2X3	162	Group Delinquency Reaction of Adolescence	S	
61-1Z1	161	No Mental Disorder	0	
109-1Y3	161	Inadequate Personality	S	
92-2Z3	161	Antisocial Character Disorder	S	
54-1Y3	159	Passive-Aggressive Personality	S	
48-2Y2	158	Adjustment Reaction of Adolescence	0	
35-1Y3	158	Anxiety Neurosis	Ε	
89-1X3	158	Adjustment Reaction of Adolescence	0	
74-1Y3	158	Inadequate Personality	S	

Table XXVIII-cont'd.

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0 and S Subject	Index Mean	Original Diagnostic Impression of Clinician	Classification of Diagnosis
65-1Z1	156	Drug Dependence	S
28-1X1	155	Adjustment Reaction of Adult Life	0
91-2X3	155	Antisocial Personality Disorder	S
33-123	149	Antisocial Personality	S
21-3Z3	149	Alcoholic Addiction	S
2-3X3	149	Inadequate Personality	S
53-1Y1	148	No Mental Disorder	0
78-1X1	146	No Mental Disorder	0
34-1Y1	145	No Mental Disorder	0
27-1X1	144	Passive-Aggressive Personality Disorder	S
63-1Z1	144	Drug Dependence	S
49-1X3	144	Passive-Aggressive Personality	S
80-1Y3	144	No Mental Disorder	0
12-1Y1	142	Social Maladjustment without manifest	
		psychiatric disorder	0
8-2Y3	141	No Mental Disorder	Ó
25-2X3	141	Adjustment Reaction of Adolescence	0
15-1X3	140	Phobic Neurosis (claustrophobia)	E
102-1Y3	140	Antisocial Personality, Mild	S
104-221	139	Adjustment Reaction of Adult Life	0
29-1Z1	139	Anxiety Neurosis	E
1 6- 2Z3	138	No Mental Disorder	0
94-1Y1	137	Adjustment Reaction of Adult Life	0
20-1Y2	136	Adjustment Reaction of Adult Life	0
55-1X1	136	Passive-Aggressive Personality Disorder	S
59- 1Z1	136	Slight tendencies toward hysterical neuros	is E
30-2 X1	134	No Mental Disorder	0
38- 1Z1	134	Immature Personality	S
9-1X3	133	Passive-Aggressive Personality Disorder, Passive-Aggressive Type	S
101-2X2	133	Inadequate Personality Disorder	S
77-1X1	133	Passive-Aggressive Personality Disorder	S
99 -1Z1	132	No Mental Disorder	0

Table XXVIII-cont'd.

0 and S Subject	Index Mean	Original Diagnostic Impression of Clinician	Classification of Diagnosis	
52-1X3	132	Antisocial Personality Disorder	· S	
37-1X3	131	Passive-Aggressive Personality Disorder, Passive-Aggressive Type	S	
42-1X1	131	Acute Schizophrenic Reaction	P	
43-1Z1	128	No Mental Disorder	0	
44-1 X2	128	Passive-Aggressive Personality Disorder, Passive-Aggressive Type	S	
11-1Y3	128	Antisocial Personality Disorder	S	
93-1Y3	128	No Mental Disorder	0	
26-1Y3	127	Cyclothymic Personality (Hypomanic Type)	S	
88-2Y3	126	Inadequate Personality	S	
82-1X1	126	Drug Dependence (barbituates)	S	
95-123	125	No Mental Disorder	0	
51-1Z1	124	Passive-Aggressive Personality	S	
23-1X3	124	Antisocial Personality Disorder	<u> </u>	
6-1Y1	122	Social Maladjustment without manifest psychiatric disorder	0	
17-1Y3	121	Inadequate Personality	S	
31-1Y3	120	Adjustment Reaction of Adolescence	0	
22-2X3	120	Passive-Aggressive Personality Disorder	S	
40-1X3	120	Passive-Dependent Personality	S	
36-1X3	120	Passive-Aggressive Personality Disorder	S	
76-1X1	120	Passive-Aggressive Personality Disorder	S	
106-2Y1	117	No Mental Disorder	0	
87-1X1	117	Dysocial Personality	. 0	
86-1Y1	117	Adjustment Reaction of Adult Life	0	
5-1X1	115	Adjustment Reaction of Adolescence	· 0	
32-1X3	114	Antisocial Personality	S	
96-1Y1	113	No Mental Disorder	0	
13-1X1	113	No Mental Disorder	0	
60-123	113	No Mental Disorder	0	
56-1Z1	112	Inadequate Personality	S	
47-2X2	112	Passive-Aggressive Personality Disorder	S	
79-1X1	112	Passive-Aggressive Personality Disorder	S	

Table XXVIII- cont'd.

0 and S Subject	Index Mean	Original Diagnostic Impression of Clinician	Classification of Diagnosis
84-1X3	111	Passive-Aggressive Personality Disorder	S
14-1Y1	109	No Mental Disorder	0
100-123	108	Schizophrenia, Latent Type	Р
41-2X3	104	Antisocial Personality Disorder	S
18-2X2	103	Antisocial Personality, Severe	S
107-223	103	No Mental Disorder	0
71-1Y3	101	No Mental Disorder	0
50-221	101	No Mental Disorder	· 0
57-121	100	Social Maladjustment Without Manifest Psychiatric Disorder	· 0
108-2X2	99	Immature Personality	S
69-1X3	96	Antisocial Personality Disorder	S
46-2X1	96	Passive-Aggressive Personality Disorder, Passive-Dependent Type	S
24-1X1	94	No Mental Disorder	0
75-1X3	94	Passive-Aggressive Personality	S
19- 1Y2	93	Adjustment Reaction to Adult Life	0
39-1X1	86	Adjustment Reaction to Adult Life	0
67-1X3	86	Passive-Aggressive Personality	S
70-1Y1	85	Social Maladjustment Without Manifest Psychiatric Disorder	0
73-1Z1	83	Immature Personality	S

190-2Y3. Ex. 90 = identification number of subject 2 = race (2 = Black; 1 = White, and, 3 = Native American Y = Type clinician who conducted case. Y = Ph.D. psychologist; X = Psychiatrist; and, Z = Psychology Trainee.

²S. This letter represents diagnostic classification of original diagnosis. S = Sociopathic; 0 = Normal; E = Neurotic; and, P = Psychotic.

Table XXIX

Primary Diagnosis

Distribution by Sociopathic and Psychiatric Scores Ranked on 2Pd-Hy-Sc Index

0 and S Subject	Index Mean	Original Diagnostic Impression of Clinician	Classification of Diagnosis		
54-1Y3	72	Passive-Aggressive Personality	S		
74-1Y3	59	Inadequate Personality	S .		
49-1X3	58	Passive-Aggressive Personality	S		
97-1X1	57	Passive-Aggressive Personality Disorder	S		
85-1X3	52	Passive-Aggressive Personality Disorder	S		
45-1X1	45	Antisocial Personality Disorder	S		
23-1X3	45	Antisocial Personality Disorder	S		
21-3Z3	42	Alcoholic Addiction	S		
33-123	42	Antisocial Personality	S		
102-1Y3	39	Antisocial Personality, Mild	S		
37-1X3	38	Passive-Aggressive Personality Disorder, Passive-Aggressive Type	S		
9-1X3	35	Passive-Aggressive Personality Disorder, Passive-Aggressive Type	S		
3-1X3	34	Schizophrenia, Childhood Type, Probably in Remission	Р		
62-2X3	33	Group Delinquency Reaction of Adolescence	e S		
36-1X3	32	Passive-Aggressive Personality Disorder, Passive-Aggressive Type	S		
52-1X3	32	Antisocial Personality Disorder	S		
26-1Y3	31	Cyclothymic Personality (Hypomanic Type)	S		
51-1Z1	28	Passive-Aggressive Personality	S		
56-1Z1	27	Inadequate Personality	S		
90-2Y3	25	Inadequate Personality	S		
35-1Y3	24	Anxiety Neurosis	E		
42-1X1	24	Acute Schizophrenic Reaction	Р		
68-1X3	24	Antisocial Personality	S		
55-1X1	23	Passive-Aggressive Personality Disorder	S		
100-123	23	Schizophrenia, Latent Type	Р		
88-2Y3	22	Inadequate Personality	S		
17-1Y3	21	Inadequate Personality	S		

Table XXIX - cont'd.

0 and S Subject	Index Mean	Original Diagnostic Impression of Clinician	Classification of Diagnosis	
69-1X3	19	Antisocial Personality Disorder	S	
76-1X1	19	Passive-Aggressive Personality Disorder	S	
75-1X3	19	Passive-Aggressive Personality	S.	
46-2X1	18	Passive-Aggressive Personality Disorder, Passive-Dependent Type	S	
44-1X2	18	Passive-Aggressive Personality Disorder, Passive-Aggressive Type	S	
40-1X3	15	Passive-Dependent Personality	S	
79- 1X1	15	Passive-Aggressive Personality Disorder	S	
73-121	14	Immature Personality	S	
64-1Y3	14	Inadequate Personality	S	
32-1X3	13	Antisocial Personality	S	
29-1Z1	12	Anxiety Neurosis	E	
59- 1Z1	12	Slight Tendencies Toward Hysterical Neuro	sis E	
22-2X3	11	Passive-Aggressive Personality Disorder	S	
11-1Y3	11	Antisocial Personality Disorder	S	
63-1Z1	10	Drug Dependence	S	
38-1Z1	10	Immature Personality	S	
105-1Z1	10	Drug Dependence	S	
92-223	9	Antisocial Character Disorder	S	
18-2X2	9	Antisocial Personality, Severe	S	
41-2X3	8	Antisocial Personality Disorder	S	
101-2X2	8	Inadequate Personality Disorder	S	
77-1X1	8	Passive-Aggressive Personality Disorder	S	
15-1X3	6	Phobic Neurosis (claustrophobia)	E	
47-2X2	3	Passive-Aggressive Personality Disorder	S	
72-2X2	2	Antisocial Personality, Severe	S	
2-3X3	2	Inadequate Personality	S	
84-1X3	1	Passive-Aggressive Personality Disorder	S	
27-1X1	0	Passive-Aggressive Personality Disorder	S	
109-1Y3	-6	Inadequate Personality	S	
10-1 Z1	-6	Anxiety Neurosis	E	
91-2X3	-8	Antisocial Personality Disorder	S	
108-2X2	-8	Immature Personality	S	

Table XXIX - cont'd.

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0 and S Subject	Index Mean	Original Diagnostic Impression of Clinician	Classification of Diagnosis
65 - 121	-8	Drug Dependence	S
82-1X1	-10	Drug Dependence (barbituates)	S
103-1X2	-25	Passive-Dependent Personality	S
67-1X3	-33	Passive-Aggressive Personality	S

XXX. This table has provided a graphic depiction of the disparity in the range scores and diagnosis. However, the table manifests the minimal misclassification resulting from significant correlation coefficient between the first-stage and the normal deviant diagnoses as determined by Ph.D. psychologists.

All of the above stated hypotheses and analyses were computed for all the secondary as well as tertiary diagnoses made by clinicians. These results were not reported due to the paucity of cases yielding data which could not be computed, or non-significant data.

Table XXX

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Primary Diagnosis

Distribution by Neurotic and Psychotic Scores Ranked on L+Pa+Sc-Hy-Pt Index

0 and S Subject	Index Mean	Classification of Diagnosis	
3-1X3	76	Schizophrenia, Childhood Type, Probably in Remission	Р
42-1X1	62	Acute Schizophrenic Reaction	Р
29-121	52	Anxiety Neurosis	E
100-123	51	Schizophrenia, Latent Type	Р
10-1Z1	45	Anxiety Neurosis	<u>·E</u>
15-1X3	38	Phobic Neurosis (claustrophobia)	E
59-1Z1	37	Slight Tendencies Toward Hysterical Neuros	sis E
35-1Y3	22	Anxiety Neurosis	E

CHAPTER V

DISCUSSION

The first three hypotheses, testing the predictive efficiency of the Goldberg rules to discriminate between personality traits of observation and study offenders, were supported. The Goldberg rules significantly discriminated between normal versus deviant, sociopathic versus psychiatric, and neurotic versus psychotic dichotomous groups of behaviors. The resulting configurational patterns of the traits of this sample further validated Goldberg's work on the efficiency of the predictor rules with group data.

A profile of the total group as delineated by the Goldberg rules would be that the subjects were defined as manifesting deviancy by a margin of two to one. Almost two-thirds of the deviant group were described as psychiatric -- overwhelmingly psychotic (23 cases) as opposed to neurotic (4).

The last three hypotheses, testing the level of agreement between the Goldberg rules and clinicians (psychiatrists, Ph.D. psychologists, and psychology interns) in classifying behaviors of all subjects, by race and by type of offense committed, were not supported. The clinical impression of the diagnosticians was that the subjects were basically sociopathic, while another large proportion -- almost half --

were diagnosed as normal. Those subjects who did fall into the psychiatric category (8 cases) were described as being more neurotic than psychotic.

The fact that the majority of subjects were classified as "sociopathic" by both methods was where the similarity in the characterization of the group ended, since they jointly agreed on less than half -- (a non-significant finding) of the same subjects so labelled as being "sociopathic."

The discovery that the clinicians diagnosed the overwhelming majority of the 0 and S offenders as normal or sociopathic, while the predictor profile indices classified the majority of the same subjects as either sociopathic or psychotic was alarming! This finding was disturbing due to the fact that utilizing these two procedures with the grossest of all behavioral classification distinctions -- normalcy versus deviancy -- there was virtually little, if any, agreement! Such a result would probably have been interpreted by the author as a stalemate between the two methods, had it not been for one significant result. The high level of agreement between the Goldberg rules and the Ph.D. psychologists on the normal-deviant dimension was significant beyond the .05 level. This result suggested that both the Goldberg rules and the Ph.D. psychologists probably utilized similar cues and strategies with some degree of consistency. This would seem to suggest favorable predictive utility for the empirical method and predicates need for further investigation using both methods with a dimilar group of offenders.

Perhaps, a future investigation of the two methods, along the theoretical and empirical line suggested by Dudycha and Naylor (1966), would be of scientific value. These researches emphasized:

> humans tend to generate "correct" strategies but then, in turn, fail to use their own strategy with any great consistency....One is left with the conclusion that humans may be used to generate inference strategies but that once the strategy is obtained the humans should be removed from the system and replaced by his own strategy.

It was theorized that one explanation, perhaps, for the high level of agreement between the Ph.D. psychologists and the profile indices was that the psychologists' facility and frequency in using the MMPI resulted in a greater degree of accuracy in determining the psychodynamic processes of the offenders. Conversely, it could be stated that the psychiatrists, as a group, served in a consulting capacity and lacked the accrual of knowledge relating to criminality and personality traits as manifested on the MMPI. One interesting point was that one psychiatrist was not a consultant but a full time staff member at El Reno. This fact that a psychiatrist was on the staff would tend to mitigate against the theory of frequency of use and accuracy stated above -- save one matter. This psychiatrist diagnosed twenty-three (23) offenders as "passive-aggressive personality, passive-aggressive type" without exception. Individually rated, as all of the clinicians were, this psychiatrist's performance was worse than that of the psychology trainees.

The poor showing of the psychology trainees was attributed to level of training and lack of experience in the use of the MMPI as a diagnostic tool.

Granted, of course, that a contingent of the criminal population in this study has been correctly labeled as sociopathic by both methods, the real and far more serious problem remains unresolved. This is the problem of the discrepancy in the labeling of the subjects as normal (by the clinicians) while the Goldberg rules classified the same subjects as psychotic. This discrepancy in the labeling of personality traits has, of course, the greatest implication for the offender so mislabeled.

If the error is made in the direction of labeling the offender as a normal functioning human being he could, theoretically expect to be returned to prison to serve a sentence. More fundamental here is the question of whether such an individual would be considered a target candidate for treatment by mental health personnel based on his "normal" diagnosis. The number of men sentenced to prison and diagnosed as having more serious emotional problems would seem to mitigate against the mislabeled "normal" offender from being singled out for treatment. What is disturbing here is the possibility that such a person could conceivably serve his time quietly and undemonstrably and be considered a model prisoner and released to society still a very sick man.

This sort of misclassification is a striking example of what Sadoff (1971) described as a person who knows how to mask his emotional disturbance through "acting-out" and is adroit in using the criminallegal process to get himself committed to prison so he can receive treatment. This self-deception, Sadoff reasoned, is utilized because society won't give him the treatment he needs or he won't admit to

himself his real problem. The author would take Sadoff's conclusions a step further and suggest that if the prison clinician is not adept at unmasking the self-deception or uncovering the psychodynamic processes and labels such an individual as normal, it is to some extent tantamount to giving one a license to steal or worse.

The other side of the mislabeling dilemma is the man classified as deviant when in fact he is not. In MMPI parlance this is referred to as "faking bad." Such misclassification is not entirely detrimental if one assumed that a person manifests some sort of aberrant behavior when one commits a crime. In such a situation the offender can expect to be brought into contact with treatment in a controlled environment --perhaps, for the better. What can be harmful is his chances for shedding the deviant (psychotic) label once released back into society, when, in fact, his chances for a productive, contributing life were, otherwise, quite favorable.

It is stressed here that either error in labeling could prove detrimental for the criminal justice system as well as for the offender. It is for this reason that more research needs to be done with offenders.

The MMPI has become very controversial as a diagnostic instrument. It would appear, however, that with the ever-growing size of the federal prison population some effort will have to be made to computerize the strategies of clinicians for diagnostic and treatment purposes. Unfortunately, there just are not enough mental health professionals in prisons to do extensive diagnoses -- as with 0 and S cases -- and effectively spend time in individual or group therapy programs.

Goldberg's rules can afford an excellent opportunity to further our knowledge of personality traits of criminals through the use of the MMPI.

Limitations of Study

There were several major difficulties encountered with this study. Predominant among the difficulties was that the clinicians, besides bringing their own professional experience to the decisionmaking process, also used diagnostic instruments other than the MMPI. In another research situation, the efficiency of one of the other instruments might have proved to be a more significant predictor than the MMPI rules used here.

Another limitation of the study was the unreliability of the test performances of the subjects. All 109 subjects! future was in limbo, so to speak, because of a possible prison sentence hanging over their heads. This uncertainty as to their future -- undoubtedly causing heightened anxiety -- might have obscured otherwise relevant findings. The same might also be said of intervening courtroom appearances, extended 0 and S commitment periods, as well as the age and cultural background of the subjects as compared to the test norm of the MMPI. All of these factors could have adversely affected the research.

CHAPTER VI

SUMMARY

This study involved two sets of hypotheses using Goldberg's three predictor profile indices -- normal vs. deviant, sociopathic vs. psychiatric, and neurotic vs. psychotic -- and one hundred and nine (109) observation and study case offenders of the Federal Reformatory, El Reno, Oklahoma. The first set of three hypotheses testing the predictive efficiency of the Goldberg rules to distinguish behavioral characteristics of the offenders were supported. The second set of hypotheses (3) tested the level of agreement between the Goldberg rules and the clinical impressions made by prison diagnosticians. These hypotheses were examined by the group as a whole, by race of the subjects, and by type of crime committed by the offender. Agreement between the indices and the clinicians was minimal resulting in more of the hypotheses being supported. When the hypotheses were tested by level of training of the clinician, Ph.D. psychologists were found to agree with the predictor profile rules to a significant level on the normal vs. deviant dimension. This finding resulted in some optimism for the predictive efficiency and continued use of the Goldberg rules. Further research with other prison populations was stressed as well as

a possible computer application of the rules for diagnostic and treatment purposes within penal institutions. The disadvantages of mislabeling an offender were discussed as well as the limitation of the study.

REFERENCES

- Abrahamson, D. Family Tension, Basic Cause of Criminal Behavior. Journal of Criminal Law, Criminology and Police Science. 1949, 40:330-343.
- <u>The Psychology of Crime</u>. New York: Columbia University Press, 1960.
- Aichhorn, A. Wayward Youth. New York: Viking Press, 1935.
- Argyle, M. A New Approach to the Classification of Delinquents, With Implications for Treatment. (Study cited in Hood, R. and Sparks, R. <u>Key Issues in Criminology</u>) New York: (World University Library) McGraw- Hill, 1970.
- Babst, D. V., Gottfredson, D.M. and Ballard, K. B. Comparison of Multiple Regression and Configural Analysis Techniques for Developing Base Expectancy Rates. Journal of Research in Crime and Delinquency. 1968, 5, 1.
- Barkin, E. Sentencing the Adult Offender. <u>Federal Probation</u>. 1962, 26, 2, 11.
- Bonjean, C. M., Hill, R. J. and McLemore, S. D. <u>Sociological Measure-</u> <u>ment, An Inventory of Scales and Indices</u>. San Francisco: <u>Chandler. 1967.</u>
- Butcher, J. N. MMPI: Research Developments and Clinical Applications. New York: McGraw-Hill, 1969.
- Byerly, J. F. Sentencing the Juvenile Offender. <u>Federal Probation</u>. 1962, 26, 2, 23.
- Clark, R. <u>Crime in America: Observations on Its Nature, Causes, Pre-</u>vention and Control. New York: Simon and Schuster. 1970.
- Clinard, M. B. <u>Sociology of Deviant Behavior</u>. New York: Rinehart, 1957.
- Dahlstrom, W. G., Welsh, G. S. and Dahlstrom, L. E. An MMPI Handbook Volume 1: Clinical Interpretation (revised edition). Minneapolis: University of Minnesota Press, 1972.

- deReuck, A.V.S. and Porter, R. (eds.) <u>The Mentally Abnormal Offender-A Ciba Foundation Symposium</u>. Boston: Little, Brown and Company, 1968.
- Diagnostic and Statistical Manual of Mental Disorders. Prepared by: The Committee on Nomenclature and Statistics of the American Psychiatric Association. Washington, D. C.: American Psychiatric Association Publishers, 1968.
- Dubienski, I. V. The Role of the Police and Courts in Corrections. <u>Corrective Psychiatry and The Journal of Social Therapy</u>. 1972, 18, 2, 19-27.
- Dudycha, L. W. and Naylor, J. C. Characteristics of the Human Inference Process in Complex Choice Situations, cited in Goldberg, L. R. Man Versus Model of Man: A Rationale, Plus Some Evidence, for a Method of Improving on Clinical Reference. Psychological Bulletin, 1970, 73, 6, 422-432.
- Eissler, R. S. Scapegoats of Society. Chapter in Eissler, K. R. (ed.) Searchlights on Delinquency. New York: International University Press. 1949. pp. 288-305.
- Federal Bureau of Prisons Statistical Report: Fiscal Years 1971 and 1972. Prepared by: Management Programs Branch. Washington: U. S. Government Printing Office. 1972.
- Federal Rules of Criminal Procedure With Amendments to July 1, 1974.Federal Rules of Appellate Procedure With Amendments to July 1,1974. Title 18, U. S. Code Crimes and Criminal Procedure WithAmendments to September 2, 1974. Saint Paul: West PublishingCompany. 1974.
- George, B. J. Sentencing Methods and Techniques in the United States. Federal Probation. 1962, 26, 2, 36.
- Gibvons, D. C. <u>Changing the Lawbreaker</u>. Englewood Cliffs, New Jersey: Prentice Hall. 1965.
- Gilberstadt, H. and Duker, J. <u>A Handbook for Clinical and Actuarial</u> MMPI Interpretation. Philadelphia: W. B. Saunders. 1965.
- Gillin, J. L. and Hill, A. B. Predicting Outcome of Adult Probationers in Wisconsin. American Sociological Review. 1950, 19, 335-341.
- Glaser, D. A Reconsideration of Some Parole Prediction Factors. American Sociological Review. 1954, 20, 283-287.
- Glass, G. V. and Stanley, J. C. <u>Statistical Methods in Education and</u> Psychology. Englewood Cliffs, New Jersey: Prentice Hall. 1970.

Glueck, S. and Glueck, E. Unravelling Juvenile Delinquency. Cambridge, Mass.: Harvard University Press, 1950.

. Predicting Delinquency and Crime. Cambridge, Mass.: Harvard University Press. 1959.

Goldberg, L. R. Diagnosticians versus Diagnostic Signs: The Diagnosis of Psychosis versus Neurosis From the MMPI. <u>Psycholo-</u> gical Monographs: General and Applied. 1965, <u>79</u>, 9, 1-27.

. The Search for Configural Relationships in Personality Assessment: The Diagnosis of Psychosis versus Neurosis from the MMPI. Multivariate Behavioral Research. 1969, 4, 523-537.

. Man versus Model of Man: A Rationale, Plus Some Evidence for a Method of Improving on Clinical Inferences. Psychological Bulletin. 1970, 73, 6, 422-432.

. Man versus Mean: The Exploitation of Group Profiles for the Construction of Diagnostic Classification Systems. Journal of Abnormal Psychology, 1972, 79, 2, 121-131.

Gottfredson, D. M. Assessment and Prediction Methods in Crime and Delinquency. <u>Chapter in Task Force Report:</u> Juvenile Delinquency and Youth Crime. Washington, D. C.: U. S. Government Printing Office. 1967.

, and Beverley, R. F. Development and Operational Use of Prediction Methods in Correctional Work. Study in Frances, S. <u>Prediction Methods in Criminology</u>. London: Her Majesty's Stationery Office, 1971.

Gottshall, A. E. Sentencing the Youth and Young Adult Offender. Federal Probation. 1962, 26, 2, 17.

Gough, H. G. <u>Clinical versus Statistical Prediction in Psychology In</u> The Making. New York: Knopf. 1962.

, and Peterson, D. R. The Identification and Measurement of Predispositional Factors in Crime and Delinquency. Journal of Consulting Psychology. 1952, 16, 207-212.

, Wenk, E. A. and Rozynko, V. V. Parole Outcome as Predicted From the California Personality Inventory and MMPI and a Base Expectancy Table. Journal of Abnormal Psychology. 1965, 70, 6.

Halleck, S. L. and Bromberg, W. (eds.) <u>Psychiatric Aspects of</u> <u>Criminology</u>. Springfield, 111.: Chas. C. Thomas Publishers, 1968. Hathaway, S. R. and Monachesi, E. D. (eds.) <u>Analyzing and Predicting</u> <u>Juvenile Delinquency With the MMPI</u>. <u>Minneapolis: The Univer-</u> sity of Minnesota Press. 1953.

Profiles. The University of Minnesota Press. 1961.

Hays, W. L. Statistics. New York: Holt, Rinehart and Winston. 1963.

- Hindelang, M., Dunn, C., Sutton, L. P. and Aumick, A. <u>Sourcebook of</u> <u>Criminal Justice Statistics</u>. Washington: U. S. Government Printing Office. 1973.
- Johnson, A. M. and Szurek, S. A. The Genesis of Antisocial Acting Out In Children and Adults. <u>Psychonalytic Quarterly</u>. 1952, <u>21</u>, 323.
- Lachar, D. The MMPI: Clinical Assessment and Automated Interpretation Los Angeles: Western Psychological Services. 1974.
- Lanyon, R. I. <u>A Handbook of MMPI Group Profiles</u>. Minneapolis: University of Minnesota Press. 1968.
- Levinson, R. B. (ed.) Memorandum: All Bureau of Prisons Mental Health Personnel. Washington: U. S. Government Printing Office. 1972.
- McCord, W. and McCord, J., with Zola, I. K. <u>The Origins of Crime</u>. New York: Columbia University Press. 1959.
- Mannheim, H. and Wilkins, L. T. <u>Prediction Methods in Relation to</u> <u>Borstal Training</u>. London: Her Majesty's Stationery Office. 1955.
- Monachesi, E. D. <u>Prediction Factors in Probation</u>. Liverpool, England: The Sociological Press, 1932.
- Nichols, D. S. The Goldberg Rules in the Detection of MMPI Codebook Modal Diagnoses. Journal of Clinical Psychology. 1974, 30, 186-188.
- Nie, N. H. Bent, D. H. and Hull, C. H. SPSS-The Statistical Package for the Social Sciences. New York: McGraw-Hill. 1970.
- Ohlin, L. E. <u>Selection for Parole: A Manual of Parole Prediction</u>. New York: Russell Sage Foundation. 1951.
- Quay, H. C. Personality and Delinquency, Chapter in Quay, H. C. (ed.) Juvenile Delinquency Research and Theory. Princeton, New Jersey: D. Van Nostrand. 1965, 139-166.

- Reiss, A. J., Jr. Social Correlates of Psychological Types of Delinquency. American Sociological Review. 1952, 17, 710-718.
- Roebuck, J. <u>Criminal Typology</u>. Springfield, Illinois: Chas. C. Thomas. 1965.
- Sadoff, R. L. Criminal Behavior Masking Mental Illness. <u>Corrective</u> <u>Psychiatry and The Journal of Social Therapy</u>. 1971, <u>17</u>, 2, <u>41-47</u>.
- Smith, C. E. Observation and Study of Defendents Prior to Sentence. Federal Probation. 1962, 26, 2, 6.
- Smith, W. F. Sentencing Alternatives Available to The Courts. Federal Probation. 1962, 26, 2, 3.
- Susman, J. (ed.) <u>Crime and Justice</u>. (An AMS Anthology, 1970-1971). New York: AMS Press. 1972.
- <u>Task Force Report. Corrections.</u> Prepared by: The President's Commission on Law Encorcement and Administration of Justice. Washington: U. S. Government Printing Office. 1967.

. <u>The Courts</u>. Ibid. . Juvenile Delinquency and Youth Crime

Ibid.

- Vold, G. B. Prediction Methods Applied to Problems of Classification Within Institutions. Journal of Criminal Law and Crimonology. 1935, 26, 205.
- Voss, H. L. The Predictive Efficiency of the Glueck Social Prediction Table. Journal of Criminal Law and Criminology. 1963, 54, 4.
- Young Adult Offenders--A Review of Current Practices and Programs in <u>Prevention and Treatment</u>. Prepared by: Department of Economic and Social Affairs. New York: United Nations Press. 1965.
- Welsh, G. S. and Dahlstrom, W. G. <u>Basic Readings on the MMPI in</u> <u>Psychology and Medicine</u>. <u>Minneapolis: University of</u> <u>Minnesota Press.</u> 1956.
- Wilkins, L. T. and MacNaughton, P. New Prediction and Classification Methods in Criminology. Journal of Research in Crime and Delinquency. 1964, 1, 19.

APPENDIX A

Highest School Level Completed By Observation and Study Offenders

And the second

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COREBOOK AND CURPELATIONS Computations 270 - 299 Fill Stone (Creation Date = 12/16/74)

12/16/74

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HIGHEST SCHOOL LEVEL COMPLETED VARIABLE VAR033

VALUE LABEL	VALUE	ABSOLUTE	PELATIVE FREQUENCY (PERCENT)	ADJUSTED FREQUENCY (PERCENT)	CUMULATIVE ADJ FREQ (PERCENT)
1. Elem. Grades 1-8		11	10.1	10+2	10.2
2. High 9-11 but non-graduates.	2.	49	45.0	45.4	55.6
3. High School graduate or GED equivalent.	ۍ د	29	26.6	26.9	82.4
4. Some college, ½ year to 3 years.	· 4.	17	15.6	15.7	96.1
5. College graduate.	5.	2	1.8	1.9	100+0
9. No Data.	9.	1	0.9	MISSING	100.0
	TUTAL	109	100.0	109.0	100.0
STATISTICS					
MEAN 2.537	STD ERROR	0.091		MEDIAN	2.376
MCOL 2.000	STD DEV	0.942	:	VARIAN	CE 0.886
KURT 3515 -0+380 .	SKEWNESS	0.433	l	PANGE	` 4 • 000
MINIKUM 1.000	MAXIMUM	5.000)		
VALID OBSERVATIONS - 108 Missing observations - 1					
APPENDIX A1

Level of Education Completed by Race of Observation and Study Offenders

Level of Education Completed by Race of Observation and Study Offenders

Total:

1)	Less than 11 years schooling:	=	60
2)	High School Graduate or more:	=	48

White:

1)	Less than 11 years schooling:	=	42
2)	High School Graduate or more:	=	41

Black:

1)	Less than 11 years schooling:	=	16
2)	High School Graduate or more:	= .	7

Indian:

1)	Less than 11 years schooling:	=	2
2)	High School Graduate or more:	=	0

PLEASE NOTE:

Appendices B, C, D and J have very small and indistinct print. Appendices F, G, and H are Data Forms with print to the extreme edges of pages. Some print will be lost in binding. Best available copy. Filmed as received.

UNIVERSITY MICROFILMS.

APPENDIX B

Occupation At Time of Arrest of Observation and Study Offenders

CODESSER AND CORFLATIONS COMMUTATIONS 270 - 299 File Stuny (Creation Date = 12/16/74)

12/16/74

OCCUPATION ATA VARTABLE VARCEA CUMULATIVE ADJUSTED ABSOLUTE RELATIVE VALUE VALUE LADEL ADJ FREQ . FREQUENCY FPEQUENCY FREQUENCY (PERCENT) (PERCENT) (PERCENT) 2.8 2.8 2.8 1. з 1. Professional, tech & kindred workers. 6.5 3.7 3.7 A 2. 2. Managers, officials, proprietors, farmers & form workers. 14.0 9 8.3 8.3 : 3. 3. Clerical & Sales. 34.3 19.3 19.4 21 4. 4. Craftsman and foreman. 17 15.6 15.7 50.0 5. 5. Operatives & kindred workers. 79.6 32 29.4 29.6 6. 6. Unskilled, service & domestic. 19.5 98.1 18.3 7. 20 7. Student-non-earning. 100.0 1.8 1.9 2 8. S. Unemployed. 100.0 MISSING 0.9 . 9. 1 9. No data. ____ -----***** 100.0 100.0 TOTAL 109 100.0 STATISTICS.. MEDIAN 5.500 STO ERROR 0.153 5.139 MEAN 2.513 VAPIANCE STD DEV 1.565 MODE 6.000 7.000 -0.611 RANGE SKENNESS KURTUSIS -0-186 8.000 1.000 MAXIMUM MINIMUM

VALID OBSERVATIONS -MISSING CRSERVATIONS - 108

101

APPENDIX B1

Classification of Occupation At Time of Arrest By Race of Observation and Study Offenders

	White	Black	Indian	Total
Occupation 1:	2	1	0	3
Professional, technical and kindred workers				
Occupation 2:	2	2	0	4
Managers, Officials, and Proprietors and kindred Workers.				
a. Nonfarm managers, officials, and pro- prietors.				
b. Farmers and farm managers.				
Occupation 3:	8	1	0	9
Clerical and sales workers.				
a. Clerical and kindred workers.b. Sales workers.				
Occupation 4:	15	5	0	20
Craftsman, foreman, and kindred workers.				
Occupation 5:	15	2	0	17
Operatives and kindred workers.				

Classification of Occupation At Time of Arrest By Race of Observation and Study Offenders

Classification - cont'd.

	White	Black	Indian	Total
Occupation 6:	21	9	2	32
Unskilled, service, and domestic workers.				
 a. Private household workers. b. Service workers, except private household. c. Farm laborers and foremen. d. Laborers, except farm and mine. 		·		
Occupation 7:	2	0	0	2
Student:				
Non-earning.				- 1
Occupation 8:	17	3	0	20

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Unemployed

APPENDIX C Marital Status of Observation and Study Offenders

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STATISTICS ..

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MINIMUM

3.7 3.7 97.2 5. 4 3 2.8 2.8 100.0 6. 9. . 0.9 MISSING 100.0 1 ----------...... TUTAL 109 100.0 100.0 100.0 · . 1.778 0.127 MEDIAN STD ERROR 0.0 1.000 1.321 VARIANCE 1.745 STD DEV . . . SKEWNESS 1.783 RANGE 5.000 2.125 MAX1MU/4 1.000 6.000 VALID ODSERVATIONS - MISSING OBSERVATIONS -108 1

SCHARATED COMMON LAW

VALUE LABEL ABSOLLTE RELATIVE ADJUSTED VALUE CURULATIVE FREOUENCY FREQUENCY FREQUENCY AOJ FREO (PEPCENT) (PEPCENT) (PERCENT) SINGLE 62.4 63.0 68 1. MARE ICO 23 21.1 2. 21.3 OIVORCED 10 9.2 9.3 4.

(CSEATION DATE = 12/16/74) FILE STONE MANITAL STATUS VARIABLE VAR032

CUDEBOUK AND COFRELATIONS COMPUTATIONS 270 - 299

12/16/74

63.0

84.3

93.5

APPENDIX D

Type of Military Discharge of Observation and Study Offenders

COUTA	COK AND	CORFELATIONS	
FILE	STONE	(CREAT ION	DATE = 12/16/74)

TYPE OF HILITARY DISCHARGE VARIABLE VAR029

VALUE LADFL			VALUE	ABSOLUTE Frequency	RELATIVE FREQUENCY (PERCENT)	ADJUSTED FREQUENCY (PEFCENT)	CUMULATIVE ADJ FREQ (PERCENT)
HONDRAHLE				22	20.2	48.9	48.9
GENERAL			2.	8	7.3	17.8	66.7
MEDICAL			3.	1.	0.9 '	2.2	69.83
OTHER THAN H	ONORABLE ·		4.	5	4.6 .	11.1	80.0
NOT DISCHARG	EO	•	· 6.	9	8.3	20.0	100.0
			· · · 9.	64	58.7	NISSING	100.0
			TOTAL	109	100.0	100.0	100.0
STATISTICS	• •	•					
MEAN	2.356		STD ERROR	0.244	:	HEDIAN	1.563
N005	1.000		STD DEV	1,640	••••	VARIANC	E 2.689
KURT OS 1 S	-1+229		SKEWNESS	0.697		RANGE	4.000
MINIYUM	1.000		MAXIMUM	5.000			
VALID COST MISSING DBSE	RVATIONS - RVATIONS -	45 64					

12/16/74

108

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<u>APPENDIX E</u> Number of Prior Commitments of Observation and Study Offenders

Number of Prior Commitments of Observation and Study Offenders

Under 18 years with commitment LE¹ 1 year - Bureau of Prisons N = 0Under 18 years with commitment LE 1 year - Other Prisons N = 5 with 1 commitment each N = 1 with 2 commitments Under 18 years with commitment GT² 1 year - Bureau of Prisons N = 0Under 18 years with commitment GT 1 year - Other Prisons N = 4 with 1 commitment each N = 1 with 2 commitments - Bureau of Prisons Over 18 years with commitment LE 1 year N = 1 with 1 commitment Over 18 years with commitment LE 1 year - Other Prisons N = 4 with 1 commitment each N = 4 with 2 commitments each Over 18 years with commitment GT 1 year - Bureau of Prisons N = 1- Other Prisons Over 18 years with commitment GT 1 year N = 5 with 1 commitment each N = 1 with 2 commitments each

¹LE is less than or equal to one year. ²GT is greater than one year.

APPENDIX F Bureau of Prisons Form 6: Social Data

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	•	· · · · · ·		· ···•					
	DEPARTMENT OF UNSTICE		•	1-					
sintar 27	BUREAU OF PRISONS								
	SOCIAL DATA	<u></u>		·					
2. Name (Last, First, M	sdie) (10-34)	3. Da (35	te Preparea (mu., i-40)	····					
			03-18-71						
4. Institution Name and Location	5. Inst. Code (41-43)	6. Prepared By							
Fed Reformatory, El Reno, Ok	la 115	<u>Chain</u>	Code 10 Zin	Code (69-7					
7. Social Security No. (44-52) Legal 8. (ity (53-66)	State	(67-68)	07					
	Springfield M	innesota State	23 560	87 Code (26-3					
(73-80) Probable 11. Dup Columns 1-9 Release			(24-25) 503	00					
050 Destination	Jes Moines	owa	15 505	(31)					
14. Military History	1-, Yes 2-No 3-1	Unknown		2					
15. Length of Military Service	Enter Actual Number of Months	;	•	(32-34) *					
16. Type of Military Discharge	1 - Honorable 3-1 2 - General 4-0	Medical Other than Honorable	5 — Not Discharged	(35) *					
17. Selective Service Violator on Present Offense	1 - Yes 2 - No			⁽³⁶⁾ 2					
13. Type of Selective Service Violator	1 - Jehovah's Witness32 - Traditional Religious4	— Other Religious — Ideological	5 - All Other .	(37) · *					
19. Marital Status	1 — Single 3 — Widow(2 — Married 4 — Divorce	er) 5 — Separa d 6 — Comm	ted on Law	(38) 1					
20. Citizenship	1 – USA 2 – Canada	3 - Mexico	4 — Other	⁽³⁹⁾ 1					
21. Age at First Arrest	•			(40-41) 18					
22. Total Number of Arrests			•	(42-43) 03					
23. Age at First Commitment of One Year or Less	•		•	(44-45) *					
24. Age at First Commitment of More Than One Ya	r	•		(46-47) *					
25. Total Number of Commitments for which 6 Mor	ths or More Were Served (Exc	ude present sentence)		(42-49) *					
NUMBER OF PRIOR COMMITMENTS									
1 Year or Less More than 1	rcar 1 Year	or Less	More than 1	Year					
(50-51) (52-53) (54-55)	(56-57) (58-59)) . (60-61)	(62-53)	(6-3-					
<u>26. * 27. * 28. * 2</u>	. * 30. *	31. *	32. * 3	3. *					
34. Longest Time Free Since First Commitment (Mo	nths) ·			(00-05)					
35. Longest Single Time Served on Any Commitmen	t (Months)	·····		(69-71)					
36. Co-Defendents	1-Yes 2-No	-		⁽⁷²⁾ 2					
37. Name and Location of Co-Defendents .			•	(72-20) 031					
	•	•		C BLA					
		•	hannan ar an an an an an an an						
38. Religious Preference:	112		`						
BP 6 (11-59)	• • •	Asterisk Denotes Not Aj	pplicabla Field.						

APPENDIX G

Bureau of Prisons Form 7: Educational Data

•								•				•	[*]	•	
• •	.		· .	<u> </u>	U.	S. DEPA		r of Ju Prison	JSTI VS	CE ·				•	3
-Relavi	intre .		•	\mathcal{U}	E	DUC	ATIO	JAL	DI	ATA U		•			
1. Register N	lo. (1·9)	2.	Name (Las	t, Firs	t, Midd	ile) (10-3 :	14)	3. Ins FI	tituti 2. F	ion Name &	Local	lion ahoma		4. Insi	1. Code (35-37, 115
	`. 	!						L				•	·		
				,			SAT S	CORE	S	<u></u>				- <u></u>	• .
5. Date of te	st	•		•		'02-	17-71.	13. A	\rithr	netic reasoni	ing	•			(61-63) *
6. Name of t 1 — Primar 2 — Primar	est y 1 y 2	31 4-1	intermediate intermediate	1 2		(44)		14. A	rithr	netic concep	ots	•	•		(64-66) <u>118</u>
	. — Adv	anced					4	. 15 . A	rithr	netic applica	tion		•		(67-69) 119
7. Form: w. x, y or z (45) 16. Social Studies (70-72)								(70-72) 갖							
8. Battery m	edian					(46-48	, 119	17. S	cienc	:e ·		· • •	<u>.</u>		(73-75) *
9. Paragraph	meanin	g				(49-51)	120					•	(78-80) 070		Dup Columns 1,-9
10. Spelling (52-54) 122 18. Word study (10-12) *							(10-12) · 것								
11. Language	11. Language (55-57) 19. Word meaning (13-15) 115						(13-15) 115								
12. Arithmet	12. Arithmetic comprehension(56-60) 12620. Science social studies(16-12) *						(16-18) *								
					•	2	21. BETA	A SCO	RES	;					•
Test 1 (19-20)		Test 2 (21-22)	Test	3 (23	3-24)	fest 4	(25-26)		Test 5 (27-	28)	Test (ð (29-30)		Beta 1Q (31-33)
(A) 15	(B) :	15	(C)	24		(D)	13		(E) 13		(F)	<u></u>		(G) 121
22. Date of B	eta tes	t '				(34-39) 02-2	21:-71		· .						
		i				2	3. GATI	B SCO	RES	;		•			
(40-42)	(43-45	5)	(16-48)	0	(49-51)	(52-54)	,	(55	-57)	(58	-60}	(01-63)		(64-66)
G 129	V -		N 13	0	s -	LLU (67-72)		6 	٥	126	К	111	F 1		M 105
24. Date of G	24. Date of Gatb test 02-19-71 000 Columns (10-11) (10-11) (10-11)														
25. Highest so	chool g	rade com	npleted (C	GED =	12)]]	.2	26. A	ge at	completion	1				17
27. Number of college hours successfully completed Semester Hours (14-16 (17-19) 000 000 000															
28. Job at time of arrest: Dot Code No. Months co.							, Months en Jo								
	Laborer (20-22) (23-25)														
29. Longest p	29. Longest prior work experience Dot Code No. Months on Joil (A) 200 (B) 0005														
1000 1110	•	Lab	orer							•	·	(A) 58	9	(B)	001;
30. Pomarks.							-******							(7)	6-30) 072
	Gein	ontr	y lovel	ski	11; 2	26 wee	ks.							Lanan	and a surface of the
BP - 7 (11-69) Aste	risk Den	otes Not A	.pplica	ble Fie	:Id.	. 11		Orl	lginal te Data :	Contr	of Section	within 45 (days of	commitment
• •	×		·				. 11	7		•					
		•									-				

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APPENDIX H

Bureau of Prisons Form 8: Medical and Related Data

*	BUREAU OF PR	ISONS	•	₽ ●	j.
	C'MEDICAL & REL	ATED DA?			
1. Register No. (1-9) Z. Nat	me (Last, First, Middle) (10-34)	· ·	3. Dai	e Prepared (Mo,D	a,Yr) (35-40)
4. Institution Name & Location	15. Inst. (Ode (41-43)	6. Prepared by	00-12-11	
(FR 71 Reno, Ok	lahoma 1	15		•	
	MEDIC	AL DATA			
CURR	ENT DIAGNOSIS	3		TREATMENT	RECOMMENCED PLACE OF TREATMENT
7.		• · · · · · · · · · · · · · · · · · · ·	(44-48) o (A) *	(49) (B) *	(50 (C) *
8.		·	(51-55) (A)	· (56) (B) •	(57) (C)
9.	······································		(58-62),	(63)	(64)
		<u></u>	(65-69)	(70)	(71)
€ 10. {	•	<u></u>	(A)	(B)	(C)
5 	3		(10-14)	(15)	(16)
11.	. 3 1		(A)	(B)	(C) '
12.			(17-21)' (A)	(22) (B)	(23; (C)
	DENTA	AL DATA			
13. Decayed teeth (24-25)	14. Missing teeth (26-27) 02	15. Filled teeth 05	(28-29)	16. Total teeth 10	(30-31)
CURRI	ENT DIAGNOSIS	<u> </u>	ICDA CODE	TREATMENT PRIORITY	RECOMMENCED PLACE OF TREATMENT
17. Dental Caries			(32-35) (A) 521.0	(B) 3	(33) (C) 1
18. Peridontal Disea	ase		(39-43) (A) 523.0	(44) (B) 2	(45) (C) 1
19. Acquired Absence	e of Teeth	•	(46-50) (A) 525.0	(51) (B) 4 <u>.</u>	(32) (C) <u>1</u>
	PSYCHIATRIC & PS	YCHOLOGICA	L DATA		
CURRI	ENT DIAGNOSIS	•	ICDA CODE	TREATMENT	RECOMMENCED PLACE OF TREATMENT
20. Passive-aggress	ive personality disc	order	(53-57) (A) 301.8	(58) (B) <u>2</u>	(55) (C) <u>1</u>
21.		•	(60-64)	(65)	(55) (C)
22.			(67-71)	(72)	(73)
			(75-80) 081	Dup Columns 1-	
REATMENT PRIORITIES: 1- RECOMMENDED PLACE OF TREAT	Immediate 2 — Short term deferred IMENT: 1 — At current institution 4 — Other BOP Institution	(less than one year) 2 — Within local of 5 — Other federal	3 — Long term community 3 — institution 5	n deferred 4 – Springfield	- None
	23. MMPI PART N	UMBER SCORE	ES		
(10-11) (12-13) (14-15)	(16-17) (18-19) (20-21)	(22-23) (24-	-25) (26-27)	(28-29) (30-	-31) (32-32)
с 42 г. 62 к. 45	1. 58 2. 45 3. 55	4. 69 5.	58 6. 56	7. 50 8.	48 0. 63
24. Drug dependence 2 - For	n-user 3 — Recent user mer user 4 — User (Immediate par	5 — st)	User (not withdraw	n) .	2
25. Type of drug $\begin{pmatrix} 1 - Mar \\ 2 - Narc \end{pmatrix}$	rijuana 3 — Halicicinogens cotics 4 — Barbiturates	5 — Psycho-stimu 6 — Other	lants		1 (35)
-26	n-significant use 3 — filngo usa mar excessive usa 4 i tabiltual exce	essive use	5 Othor	· 2	(36) (73-41) (32)
6P8 (11-69) *Asterisk denotes n	iot applicable field. Griginal to Data Cor]	n•- + Section within 4 116	15 days of commitm	ont.	. <u></u>

APPENDIX I

Goldberg's Three MMPI Predictor Profile Index Means for all 109 Observation and Study Case Subjects



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APPENDIX J

Raw Data MMPI Profile Mean Score

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10234X2450 66 61 67 84 60 71 47 62 83 80 60 10314X1153 74 48 84 70 58 84 69 74 75 80 58	171 07 30 46 06 03 1 31 0 2 99 9	2.9
2041-251-56 58 72 57 56 65 90 59 59 60.63 60	71. 04. 08 .48 02. 18 .1 46 1.1 27. 1	2.9
0051AX1156 33 65 32 44 60 99 67 65 50 55 73 0051aY3150 60 46 54 70 49 94 63 65 75 51 58	71 10 08 51 06 06 1 24 1 2 99 9	2 9 2 9
20714x2150110 49 90 72 76 81 76 68 89119 73	71-10-01-53-02-12-9-03-0-1-03-1	2.9
r0711X3142 62 45 58 45 55 69 58 56 50 48 63	11 10 21 50 04 24 1 25 1 1 21 1	29
101225146 78 44 92 77 80 74 76 76 71 74 65	72 07 13 47 08 07 1 25 9 1 24 1	2.9
1210Y3156 48 64 49 46 49 74 73 53 54 57 55	72 07 13 47 08 19 1 36 1 2 99 9	2 9
-1719X11-6 48 48 59 60 62 97 73 76 62 61 60		2.9.
11 1 1 x 2 4 3 77 31 67 55 69 94 61 61 50 53 55	72 01 19 45 06 28 1 13 1 1 06 2	2 9
11^202020100 33 62 70 63 71 94 63 56 56 50 60 171144153 49 64 52 53 67 69 63 59 58 50 69	172 03 03 50 09 021. 04 1.2. 99 9 171 08 26 47 07 25 1 43 0 1 22 1	1.1.1. 2.9
1-2-11-2 88 51 44 66 55 71 73 57 58 78 83	72 02 09 50 10 03 1 60 9 1 22 1	2 9 .
014Y4153 53 62 52 47 69 77 69 53 62 59 70	71 06 30 48 02 01 1 14 0 2 99 9	2 9
13-271-3 73 47 65 77 45 71 42 59 52 55 50	72 02 14 48 03 07 1 31 0 2 99 9	2 9
1 x 3 1 4 3 5 5 46 47 70 47 71 45 47 56 50 65	71 06 08 47 07 15 1 36 0 2 99 9	2 9 ,
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50 60 62 47 46 56 14 53 53 56 61 68	72 02 18 43 06 24 1 18 1 1 16 1	2 9
60 62 77 53 71 71 80 59 40 71 70 50 72 54 A0 65 83 61 53 62 61 65	71 03 19 50 04 05 1 18 1 2 99 9 72 06 19 46 08 30 1 32 0 2 99 9	2 9
68 59 45 71 11 77 56 52 59 62	72 01 14 49 12 27 1 43 0 2 99 9	2 9
00 48 55 70 65 97 57 62 42 51 55 . 62 55 56 68 55 76 51 50 68 55 81	72 06 16 49 05 28 1 15 0 2 99 9	2 9
0 48 59 47 13 62 94 51 41 62 53 60	71 06 16 48 10 29 1 18 9 2 99 9	2 2
1/0 50 67 57 53 71 00 01 05 54 57 75 144 82 55 70 63 64 79 69 62 97 92 83	72 01 13 43 02 23 1 43 0 2 99 9	2 7
1150 70 49 70 58 65 74 37 38 60 59 60 3150 48 57 44 39 58 97 47 53 46 44 58	72 02 07 51 12 26 1 15 0 1 02 2	29 '
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