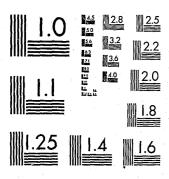
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Exporing the Dimensions

of

Judged Offense Seriousness

BY

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X

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This is one of a series of reports on the Improved Correctional Field Services Project Evaluation. The series consists of these parts:

- 1. Abstract
- 2. Executive Summary by Don M. Gottfredson, James O. Finckenauer, John J. Gibbs and Stephen D. Gottfredson.
- 3. The Improved Correctional Field Services
 Project: A Case Study by James O. Finckenauer
 and Don M. Gottfredson.
- 4. Screening for Risk: An Assessment of the ICFS Project Instruments by Faye S. Taxman, Don M. Gottfredson and James O. Finckenauer.
- 5. Risk, Supervision, and Recidivism: The First Six Months of Recorded Experience in the Improved Correctional Field Services Project by Don M. Gottfredson, James O. Finckenauer, and Faye S. Taxman.
 - Appendix A: ICFS Instructions for Coding.
 Appendix B: Characteristics of the Sample for the First Six Months of Experience in the ICFS Project.
- 6. Social Adjustment: A Preliminary Report of the Improved Correctional Field Services
 Project by James O. Finckenauer and Faye S. Taxman.
- 7. The Needs and Concerns of Probationers: A
 Thematic Analysis of Interviews by John J. Gibbs.
- 8. The Needs and Concerns of Probationers: An Analysis of Questionnaires by John J. Gibbs.
- 9. Additivity and Interactions in Offense Seriousness Scales by Stephen D. Gottfredson, Kathy S. Young and William S. Laufer.
- 10. Describing Probation Populations: Offense Seriousness by Stephen D. Gottfredson.
 - Appendix A: Offense Seriousness Scoring System.
- 11. Exploring the Dimensions of Judged Offense Seriousness by Stephen D. Gottfredson.
 - Appendix A: Offense Seriousness Study (survey form).
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Is one homicide to be equated with ten petty thefts? 100? 1000? We may sense that these are incommensurables and so <u>feel</u> that the question of comparing their magnitude is a nonsense question. Yet this feeling is only a prelude to recognition of the more general fact that we have no strict common denominator for social problems and so have no workable procedures for comparing the scale of different problems, even when the task is simplified by dealing with two kinds of criminal acts.

(Merton, 1961, pg. 703).

The problem of the commensurability of the apparently incommensurable is old, and has received a great deal of attention from philosophers, legal theorists, and social scientists. Consider, for example, the lex talionis
(an eye for an eye, a tooth for a tooth). The notion is clear: punishment should fit—be commensurate with—the crime (and, of course, the criminal).
But in application, the notion quickly becomes complex. As Kleinig (1973) notes, "A literal interpretation lands one in insuperable difficulties: what penalty would you inflict on a rapist, a blackmailer, a forger, a dope peddler, a multiple murderer, a smuggler, or a toothless fiend who has knocked somebody else's teeth out?"

Moving away from a literal interpretation resolves some obvious problems, but raises others. The Supreme Court has recently ruled that a sentence of life imprisonment is not incommensurate with a history of three property offenses occurring over a period of several years, and which resulted in a total amount of property loss of under \$300. At the same time, some murderers and rapists are returned to the streets after relatively short periods of con-

finement. Although this example is extreme, and my presentation ignores the complexities surrounding the issue, the point is clear: even with a common metric (time spent in prison) commensurability may be difficult to achieve. Thus, current sentencing controversies (cf. Dershowitz, 1976; Forst, 1979; Morris, 1974; Von Hirsch, 1976) are intimately involved with the commensurability issue.

Sentencing typically requires a notion of commensurability between crimes and sanctions. But as pointed out by Merton (1961, pg. 703), Wilkins (1963, pg. 337)², and others there is also the difficult problem of commensurability within crimes and sanctions. How many burglaries equal a robbery? Can we equate homicides and thefts?

Essentially, these can be considered problems of measurement. Problems of measurement abound in criminology, and the practical consequences of fundamental measurement issues can be enormous. For example, recent major reviews have suggested -- and quite strongly -- that rehabilitation or "treatment-oriented" efforts do not appear to work (e.g., Martinson, 1974; Lipton, Martinson & Wilks, 1975; National Research Council, 1979). It may well be the case, of course, that some rehabilitative efforts do work, but that our yardsticks are simply too crude to allow us this knowledge. Dimensionality

The starting point for any measurement study designed to address the "commensurability of the (apparently) incommensurable" is to find or determine a common metric -- what Blair (1956) calls the "principle of dimensional homogeneity." While there are a number of ways that one can seek to achieve a common metric (see Blair, 1956; Sellin & Wolfgang, 1964, pp. 336-338 for a discussion), the fundamental principle is that of homogeneity.

In <u>The Measurement of Delinquency</u>, Sellin and Wolfgang (1964) took the position that "judged seriousness of delinquency is the homogeneous dimension which can allow for quantitative measurement of this phenomenon (crime) and that there are ways of ascribing values to the magnitudes in this common medium of seriousness" (pg. 338).

Major attempts at scaling the judged seriousness of criminal or delinquent acts have all been unidimensional; no systematic investigation of the dimensionality of offense seriousness has yet been undertaken. While a major goal of science is the parsimonious description and explanation of complex events, the assumption of unidimensionality has been questioned profitably in many measurement realms: intelligence, personality, academic achievement, and creativity, to name but a few. Quite often it has been demonstrated that despite the parsimony and simplicity benefits of single-dimension methods, the frequently found power of multidimensional methods cannot be denied for their increase in conceptual utility, explanatory power, and predictive utility. One major purpose of this paper is to provide a framework in which to test the adequacy of a unidimensional approach to the measurement of offense seriousness, and if warranted, to explore multidimensional structures for judged seriousness.³

Issues of Consensus

As suggested by Rossi et al. (1974), "the seriousness of criminal acts represents a conceptual dimension of criminality that is indispensable in common, everyday discourse, in legal theory and practice, and in sociological work" (pg. 224). In effect, this asserts that (a) there exists for each of us a subjective ordering of acts or offenses in terms of some dimension of seriousness, and (b) there exists (or should exist) some fair degree of

consensus among the populace and among specific relevant groups concerning the placement or positioning of specific acts relative to that dimension. Thus, the extent of agreement among various persons and groups is critical to an understanding of the nature of judged seriousness and to the practical application of seriousness scales.

The problem of demonstrating consensus or agreement, however, is a difficult one. Summarizing the methods employed in several major studies involving the measurement of consensus, Rossi et al. (1974) find that "the methods of ascertaining agreement among subgroups and between samples range from visual inspection of data arrays to regression coefficients" (pg. 225). Rossi et al. essentially opt for the latter (treating the problem as one of reliability--i.e., substantial correlations among subgroups or samples is taken as reflective of consensus), while noting that "It is easier to assert that there should be consensus than it is to devise a suitable standard against which a given degree of consensus should be measured" (pg. 227).

There are two fundamental issues of consensus which must be addressed. The first is a "within-groups" question. That is, within relevant and identifiable groups (such as prosecutors, judges, parole board members, probation workers, police officers, or samples of the general public), do group members show agreement with respect to scale values assigned to offenses? The second is a "between-groups" question: across relevant groups, is agreement manifest with respect to the scale values assigned to offenses? The latter question is the only one which has received empirical attention.

The purpose of this paper is three-fold. First, we will examine a novel metric which allows an assessment of "within-groups" consensus relative to

the judged seriousness of criminal and delinquent acts. Second, we will explore the utility of a dimensional approach to the scaling of judged seriousness. Finally, we examine the "between-groups" consensus issue.

STUDY I: WITHIN-GROUPS CONSENSUS AND DIMENSIONALITY

Method

Offense descriptions. This investigation is part of a larger research project concerned with improving measures of criminal recidivism. Of specific concern to that larger study are offenses which may be relatively non-serious. Unfortunately, descriptions of such offenses have been under-represented in most scaling work (cf. Sellin & Wolfgang, 1964; Rossi et al., 1974).

To ensure representation of offenses at the lower end of a seriousness dimension, arresting officers' reports (which typically contain some detail of the "actual offense") were gathered from a medium-sized probation department in New York State. To ensure an adequate representation of the universe of offenses likely to be encountered in the larger project, two examples (randomly selected) of each misdemeanor offense type represented in the probation caseload in the calendar year 1977 were gathered.

Since many criminal events are composed of a number of specific acts, it is important that we identify and deal with these discrete acts, rather than with a global "offense episode" (Sellin & Wolfgang, 1964). Accordingly, each arresting officer's report was coded into these specific acts and brief (one or two sentence) summary descriptions of all such discrete acts were prepared. These were then combined with some items used by Sellin & Wolfgang (1964), Rossi et al. (1974) and others, resulting in a list of about 2500 statements.

This item pool was edited for redundancy (which was, of course, substantial), resulting in a list of 162 offense descriptions covering a wide range of apparent seriousness. Since this study is concerned only with consensus and with the underlying dimensionality of offense seriousness judgments, and since the combination of factors involved in criminal offense episodes is complex (Gottfredson, Young, & Laufer, 1980), care was taken at this point to ensure that as few aggravating, mitigating, or extra-legal circumstances as possible appeared in the offense descriptions (see Table 1 for Items).

These offense descriptions were then randomly ordered within a questionnaire booklet (Appendix A), and subjects were directed to give their judgment of
the relative seriousness of each offense description on a 1 to 15 category scale,
with 1 reflective of the "least serious" and 15 reflective of the "most
serious" offense. A category-scaling approach was used because of its simplicity
of presentation, its practical utility, and demonstrated success (cf. Rossi
et al., 1974; Sparks et al., 1977; Gottfredson et al., 1980). Further, several
studies have shown that scales developed using this, as compared with more
sophisticated techniques such as magnitude estimation, are monotonically
related (cf. Sellin & Wolfgang, 1964; Walker, 1978).
Subjects

Subjects were 1,154 undergraduate students enrolled in day or evening classes at five different educational institutions in two states and the District of Columbia. In order to ensure as heterogeneous a sample as possible within the constraints of our budget, these schools were chosen to reflect wide differences in academic selectivity, ages of the student populations, and ethnic balance. While the sample is undoubtedly not representative of the population at large, it is clearly more heterogeneous

than the typical sample of college students. Subjects were directed either to work through the questionnaire from front to back, or back to front, resulting (for all practical purposes) in two random orderings of items.

Of the 1154 subjects given the questionnaire, responses from 130 were discarded due to lack of completion, obvious manipulation, or lack of variability in response, resulting in a final subject pool of 1024 students.

RESULTS

The Question of Scale Value

A basic question addressed in any scaling study is that of the best estimate of the value of each stimulus (offense, in our case). Typically, the arithmetic mean is taken as the measure of choice because of its relative stability. However, characteristics of item distributions must be examined to ensure that this is indeed the appropriate measure to use.

Since inspection of individual response distributions suggested modest end effects (Torgerson, 1958), data were rescaled following the method of successive intervals (Torgerson, 1958; Diederich, Messick & Tucker, 1957) to minimize any displacement of item means. Results are given in Table 1, and are displayed graphically in Figure 1.

Comparisons with Other Scaling Studies

As mentioned earlier, we included in our pool of offense descriptions items which were used by Sellin and Wolfgang (1964) and/or Rossi et al. (1974), as well as some items which are presently being used in a large scaling study employing a representative national sample of the population (Figlio, 1979). While the number of items used from each study varies, some comparisons are possible.

Figure 2 represents the joint distribution of the scale values for 29 offenses based on our scaling procedure (after transformation following

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Table 1: Rank-order of 162 Offense Descriptions Based on Rescaled Means. (Successive Interval Rescaling).

| Rank | | Crime Description | Rescaled <u>Mean</u> | Standard <u>Deviation</u> | Std.Error of Mean | | Rank | Crime Description | Rescaled <u>Mean</u> | Standard <u>Deviation</u> | Std.Error of Mean | |
|---------|-----|--|-------------------------|------------------------------|----------------------|---|------|---|-------------------------|------------------------------|----------------------|--|
| 1 | | A person impulsively kills a stranger. | 2.593 | 1.517 | .120 | | 21 | A person fires a gun at someone. | 1.615 | 1.117 | .088 | |
| 2 | | A person shoots and kills someone who resists an armed robbery. | 2.576 | 1.760 | .139 | | 22 | A person practices medicine without a license. | 1.567 | 1.340 | .106 | |
| _ | | | 2.370 | 1.700 | . 133 | | 23 | A person hijacks an airplane. | 1.530 | 1.120 | 088 | |
| 3 | | A person plants a bomb in a building. | 2.478 | 1.220 | .096 | | 24 | A person forces another to engage in a homosexual act. | 1.529 | 1.408 | .111 | |
| .4 | | A person plans to kill someone for a fee. | 2.424 | 1.357 | .107 | | 25 | A parent of a young child neglects to care for it. | 1.509 | 1.141 | .090 | |
| 5 | | A person sets fires to an occupied building. | 2.338 | 1.150 | .091 | | 26 | A person sells large quantities of illegal drugs. | 1.498 | 1.549 | .122 | |
| 6 | | A person intentionally injures someone who, as a result, dies. | 2.273 | 1.190 | .094 | | 27 | A manufacturer knowingly endangers | | 100,00 | | |
| - | | | 2.215 | | | | | lives by polluting the water supply. | 1.375 | 1.200 | .095 | |
| 7 8 | | A person shouts someone with a gun. A person assassinates a public | | 1.179 | .093 | | 28 | Without using a weapon, the parent of a young child beats it. | 1.304 | 1.804 | .142 | |
| | | official. | 2.184 | 1.674 | .132 | | 29 | An employer orders an employee to | | | | |
| 9 . | | Without using a weapon, a juvenile beats an elderly person. | 2.023 | 1.190 | .094 | | 20 | commit a serious crime. | 1.250 | 1.047 | .083 | |
| 10 | | A person sexually assaults a woman. | 1.959 | 1.240 | .098 | | 30 | A person, armed with a weapon, robs a bank. | 1.240 | .961 | .076 | |
| 11 | | A person forces a woman to submit to sexual intercourse. | 1.928 | 1.278 | .101 | | 31 | A person, armed with a weapon, robs a store. | 1.197 | .852 | .067 | |
| 12 | | A person forces a woman to submit to sexual intercourse, then flees wit property belonging to her. | h 1.902 | 1.194 | .094 | | 32 | A police officer knowingly makes a false arrest. | 1.184 | 1.203 | .095 | |
| 13 | | A person kills someone during a | 1.899 | 1.090 | .086 | | 33 | Without using a weapon, a person beats his wife. | 1.103 | 1.292 | .102 | |
| | | serious argument. | | | | | 34 | A person, armed with a weapon, | | | 000 | |
| 14 | | A person stabs someone with a knife. | 1.803 | 1.061 | .084 | | | robs someone. | 1.077 | , 840, | .066 | |
| 15 | | A person kidnaps someone. | 1.780 | 1.037 | .082 | | 35 | A person attempts to prevent someone from attending a public school because | | | | |
| 16 | | A person sets fire to a building. | 1.737 | 1.050 | .083 | | | of that person's race. | 1.066 | 1.329 | .105 | |
| 17 | • . | A person tries to entice a minor into a car for sexual purposes. | 1.698 | 1.324 | .104 | | 36 | A government official intentionally obstructs the investigation of a criminal offense | 1.053 | 1.094 | .086 | |
| 18 | | A person kills someone during a barroom free-for-all. | 1.677 | 1.267 | .100 | | 37 | An employer refuses to hire a qualifier person because of that person's race. | d | 1.347 | .106 | |
| 19 | | A producer knowingly endangers lives by marketing contaminated products. | 1.654 | 1.140 | .090 | • | | | | | | |
| 20 • | | A person kills someone by recklessly driving an automobile. | 1.650 | 1.137 | .090 | | | | | | | |
| | | | | | | | | | | | | |

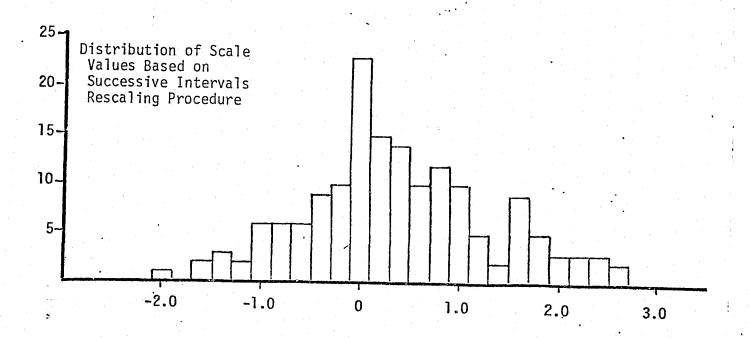
| ank | Crime Description | Rescaled | Standard | Std.Error | | | | Rescaled | Standard | Std.Erro |
|-----|--|-------------|------------------|-----------|---|------|---|----------|------------------|----------|
| 3 | | <u>Mean</u> | <u>Deviation</u> | of Mean | | Rank | Crime Description | Mean | <u>Deviation</u> | of Mean |
| | A public official takes public funds for personal use. | 1.018 | 1.044 | .082 | | 56 | A person, using force, robs someone. | .646 | .833 | .066 |
| | A person strikes someone with a blunt instrument. | 1.004 | .976 | .077 | | 57 | A person signs someone else's name to a check and cashes it. | .637 | 1.062 | |
| | A person sells herein. | 1.000 | 1.436 | .113 | | 58 | A person steals a car and abandons | .037 | 1.002 | .084 |
| | A person pays a witness to give false testimony in a criminal | • | | | | | it damaged. | .622 | .945 | .075 |
| | trial. | .975 | 1.089 | .086 | | 59 | A doctor cheats on claims made to a health insurance plan for patient | | | |
| | A real estate agent refuses to sell a house to a person because of that | | | | | | services. | .605 | 1.161 | .091 |
| | person's race. | .963 | 1.454 | .115 | | 60 | A person bribes a public official to obtain favors. | . 592 | 1.062 | .084 |
| | A public official accepts bribes in return for favors. | .882 | 1.194 | .094 | | 61 | A person, using force, robs a store. | . 586 | .806 | .064 |
| | A person manufactures large quantities of illegal drugs. | .864 | 1.296 | 102 | | 62 | A person willingly helps another commit a crime. | | | |
| | A person threatens someone's life. | .860 | 1.085 | .086 | | 63 | A person embezzles company money. | .562 | .888 | .070 |
| | A person pays someone to commit a crime. | .849 | .972 | .077 | | 64 | A person, using threats, robs someone. | .531 | .970 | .076 |
| | Without using a weapon, a person beats someone. | .845 | 1.226 | .097 | | 65 | A person knowingly passes counterfeit money. | .500 | 1.051 | .083 |
| | A person endangers the lives of others through negligent property | | | | | 66 | A person prints counterfeit money. | .474 | 1.107 | .087 |
| | maintenance. | .827 | 1.055 | .083 | | 67 | A person breaks into a private | | | .007 |
| | A person drives a car while drunk. | .790 | 1.284 | .101 | | | residence and with no one else present, steals something. | .467 | .897 | .071 |
| | A person commits treason. | .782 | 1.218 | .096 | • | 68 | A person, using threats, robs | | | , |
| | A person, involved in an automobile accident, leaves the scene. | .775 | 1.076 | .085 | | 60 | a store. | .461 | . 859 | .068 |
| 5 | A person blackmails someone. | .738 | 1.013 | .080 | | 69 | A person impersonates a police officer. | .441 | 1.181 | .093 |
| ; | A person commits incest. | .738 | 1.619 | .128 | | 70 | A person possesses heroin. | .437 | 1.365 | .108 |
| | A person smuggles large quantities of illegal drugs. | .724 | 1.275 | .100 | | 71 | A person intimidates a witness in a court case. | .429 | 1.077 | .079 |
| • | A person knowingly cashes stolen payroll checks. | .663 | 1.018 | .080 | • | 72 | $\boldsymbol{\Lambda}$ person breaks into and enters a private residence. | .402 | .925 | .073 |
| | | | | , 500 | | 73 | A person sells hallucinogenic drugs. | .380 | 1.403 | .111 |

| Rank | Crime Description | Rescaled <u>Mean</u> | Standard Deviation | Std. Error Of Mean | | • | | | |
|------|--|-------------------------|-----------------------|-----------------------|----------|---|-------------------------|-----------------------|-------------------|
| 74 | A person illegally sells barbiturates ("downers") or | | | 27 110011 | Rank | Crime Description | Rescaled <u>Mean</u> | Standard Deviation | Std.Ern of Mea |
| | amphetamines ("uppers"). | .377 | 1.274 | .100 | 92 | A person picks someone's pocket. | .126 | .932 | .074 |
| 75 : | A person trespasses on private property and steals something. | .371 | .877 | .069 | 93 | A person breaks into a building and with no one else present, steals something. | 100 | | |
| 76 | A person illegally receives monthly welfare payments. | .361 | 1.226 | .097 | 94 | A person illegally possesses | .120 | .882 | .070 |
| 77 | A person uses a forged prescription to obtain drugs. | | | | | amphetamines ("uppers"). | .085 | 1.354 | .107 |
| 78 | A person vandalizes private | .351 | 1.190 | .094 | 95 96 | A person uses hallucinogenic drugs | 081 | 1.451 | .114 |
| 79 | property. A person snatches someone's | .316 | .902 | .071 | | A person interferes with a police officer. | .067 | .962 | .076 |
| 80 | nandbag. | .301 | .912 | .072 | 97 | A person knowingly writes worthless checks. | .046 | 1.081 | |
| | A person conceals the identity of someone known to have committed a serious crime. | 202 | | | 98 | A person willingly hides someone who has committed a crime. | .044 | | .085 |
| 11 | A person uses heroin. | .300 | 1.060 | .084 | 99 | A person possesses hallucinogenic drugs. | | 1.056 | .083 |
| 2 | A person steals money from a store while the owner is not looking. | .256 | .906 | | 100 | A person steals something from a parked car. | .034 | 1.414 | .111 |
| 3 | A person lends money at illegal interest rates. | - | •300 | .071 | 101 | A person steals a car. | .023 | .879 | .069 |
| 4 | A person willingly commits perjury. | .216 | 1.133 | .089 | 102 | A person attempts to mob some | .022 | .898 | .071 |
| 5 | A person possesses an illegal weapon. | .207 | .965 | .076 | | but leaves when a police car approaches. | .012 | | |
| 5 | A person loots a store in a riot. | .205 | 1.119 | .088 | 103 | A person turns in a false fire | .012 | .940 | . 074 |
| | A person vandalizes public property. | .187 | 1.046 | .082 | 104 | alarm. | .003 | 1.210 | .095 |
| 3 | A person breaks into and enters a store. | . 100 | .901 | .071 | 101 | A person knowingly gives false information when advertising a product. | • | | |
| | A person threatens someone with bodily | .165 | .835 | .066 | 105 | A person illegally uses bambitumates | ~.002 | 1.133 | .089 |
| | | .136 | 1.102 | .087 | | ("downers") or amphetamines ("uppers"). | 004 | 1.368 | .108 |
| : | A person trespasses on public property and steals something. | .135 | .909 | .072 | 106 | A juvenile is beyond parental control | 021 | 1.249 | .098 |
| | | | | | 107 | A person shows pornographic movies | | | |
| | A person breaks into a store and with no one else present, steals something. | .133 | .887 | .070 | 108 | to a minor. | 031 | 1.421 | .112 |

| <u>Rank</u> | Crime Description | Rescaled <u>Mean</u> | Standard Deviation | Std.Error of Mean | | Rank | | scaled Mean | Standard Deviation | Std.Error of Mean |
|-------------|---|-------------------------|-----------------------|----------------------|---|------------|--|----------------|-----------------------|----------------------|
| 109 | A person attempts to break into a parked car, but runs away when a police car approaches. | - 040 | 1.005 | .079 | | 127 | A person engages in homosexual acts for money. | .290 | 1.696 | .134 |
| 110 | A juvenile takes a car for "joyriding". | 046 | 1.011 | .080 | | • | | .307 | 1.451 | .114 |
| 111 | A person gives illegal drugs to an acquaintance. | 055 | 1.361 | .107 | • | 129 | | .317 | 1.230 | .100 |
| 112 | Without breaking into or entering a building and with no one else present, a person steals something. | 060 | .952 | .075 | | 130 131 | A person possesses stolen | .350 | .944 | .074 |
| 113 | A person knowingly sells stolen goods. | 072 | .894 | .070 | | 132 | A person runs an illegal gambling operation. | .427 | 1.132 | .089 |
| 114 | A person steals something from a public building. | 073 | .927 | .073 | | 133 | A person refuses to pay alimony | .437 | 1.201 | .095 |
| 115 | A person exposes his genitals in public. | 081 | 1.396 | .110 | | 134 | A person knowingly buys stolen property. | .449 | 1.067 | .084 |
| 116 | A person breaks into and enters a building. | 086 | .851 | .067 | | 135 136 | | .461 .464 | 1.119 | .088 |
| 117 | A person attempts to break into a building, but runs away when a | | | .072 | | 137 | A juvenile repeatedly runs away | .547 | 1.271 | .100 |
| 11.8 | police car approaches. A person fixes prices on a | 090 | .907 | | | 138 | A person solicits for prostitution - | . 554 | 1.427 | .112 |
| 119 | consumer product. A person steals merchandise from | -,132 | 1.055 | .083 | | 139 | A person uses someone else's driver's license. | . 580 | 1.281 | .101 |
| | a store while the owner is not looking. | 148 | .886 | .070 | | 140 | A juvenile illegally possesses liquor. | . 590 | 1.143 | .090 |
| 120 | A person steals a car and abandons it undamaged. | 167 | 1.003 | .079 | | 141 | A person joins a prohibited demonstration. | . 592 | 1,069 | .084 |
| 121 | A person runs his hands over a woman's body, then runs away. | 193 | 1.336 | .105 | | 142 | A person operates a car with a suspended driver's license. | .635 | 1.135 | ,089 |
| 122 | A person, upon arriving home, kills a suspected burglar. | 195 | 1.497 | .118 | | 143 | A person operates a car without insurance coverage. | .698 | 1.297 | .102 |
| 123 | A person uses false identification to obtain goods from a store. | 197 | .992 | <u>.</u> 078 | | 144 | A person has no residence and no visible means of support. | 701 | 2.430 | .192 |
| 124 | A person joins a riot. | 204 | 1.091 | .086 | | 145 | A person possesses burglary tools. | 774 | 1.198 | .094 |
| 125 | A person smuggles goods to avoid paying import duties. | 258 | 1.113 | .088 | | 4 | | : | | |
| 126 | A person gives liquor to a minor. | 278 | 1.260 | .099 | | | | | | |

| Rank | | Crime Description | Rescaled <u>Mean</u> | Standard Deviation | Std.Error of Mean |
|------|---|---|-------------------------|-----------------------|----------------------|
| 146 | | A person sells marijuana. | 812 | 1.485 | .117 |
| 147 | | A person trespasses on private property. | 834 | 1.122 | .088 |
| 148 | | A person engages in sexual acts in return for money. | 864 | 1.441 | .114 |
| 149 | | A woman engages in sexual acts in return for money. | 899 | 1.446 | .114 |
| 150 | | A person buys liquor illegally. | 920 | 1.086 | .086 |
| 151 | | A person disturbs the neighborhoo with loud, noisy behavior. | d 945 | 1.067 | .084 |
| 152 | | $\boldsymbol{\Lambda}$ person intentionally shoves or pushes someone. | 947 | 1.147 | .090 |
| 153 | | A person participates in illegal gambling. | 994 | 1.170 | .092 |
| 154 | | A person commits adultery. | -1.016 | 1.750 | .138 |
| 155 | | A person refuses to pay parking fines. | -1.251 | 1.076 | .085 |
| 156 | | A juvenile breaks a curfew law. | -1.287 | 1.175 | .093 |
| 157 | | A person is drunk in public. | -1.299 | 1.128 | .089 |
| 158 | | A person possesses marijuana. | -1.338 | 1.543 | .122 |
| 159 | | $\boldsymbol{\Lambda}$ person is a customer in a house of prostitution. | -1.447 | 1.698 | .134 |
| 160 | | $\boldsymbol{\Lambda}$ person loiters in a public place, | -1.497 | 1.291 | .102 |
| 161 | | A person uses marijuana. | -1.562 | 1.660 | .131 |
| 162 | • | Two people willingly engage in a homosexual act. | -2.038 | 2.326 | .183 |

Figure 1



the method of successive intervals) (abscissa) and based on Sellin and Wolfgang's (1964) original work (ordinate). The correlation across all 29 offenses is modest at best (r = .57). Examinations of outliers, however, demonstrates that two phenomena account for much of the apparent disparity. Three offenses--involving the use, possession, or sale of marijuana--were judged as quite serious in Sellin and Wolfgang's original work, but were perceived as quite non-serious in the present study. Given that approximately 16 years have elapsed between these two studies, and given present interest in the legalization of marijuana, it would seem quite reasonable to ascribe these differences to changes in attitudes rather than to disparity due to scaling approaches. One additional item (having to do with truancy) was also judged quite differently in the two studies. Inspection revealed that a likely explanatory hypothesis lies in the differences in wordings between the two items. When these four items are excluded the correlation increases to .83, suggesting substantial relation between the two scales.

Figure 3 represents a plot of the joint distribution of items which were common to both our study and that of Rossi et al. (1974). While the same general method of scaling was used in both works, this comparison was of considerable interest since the Rossi et al. study employed a representative sample of the population from a large urban environment. Again, substantial correlation is observed (r = .84), but again some outliers are apparent. Examination demonstrates that all three apparent outliers involve the sale or use of drugs, with the most disparate having to do with the sale of marijuana. Again, a plausible hypothesis is that drug offenses have been

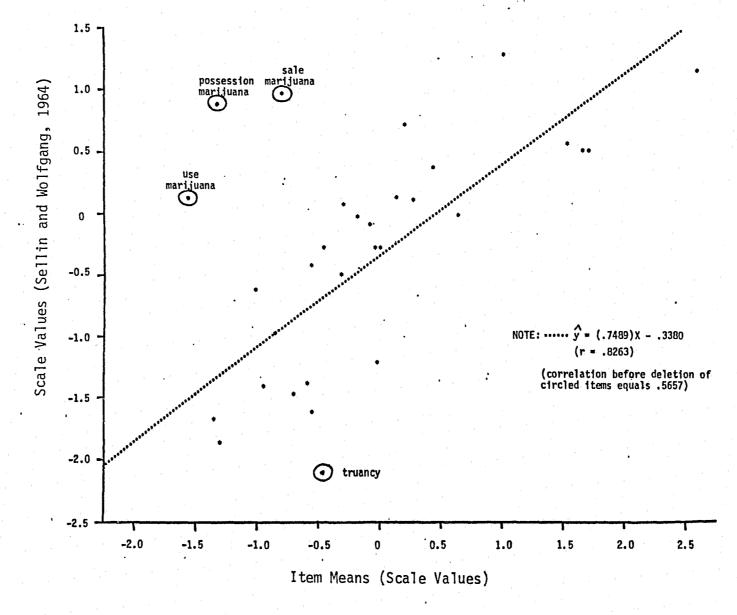


Figure 2

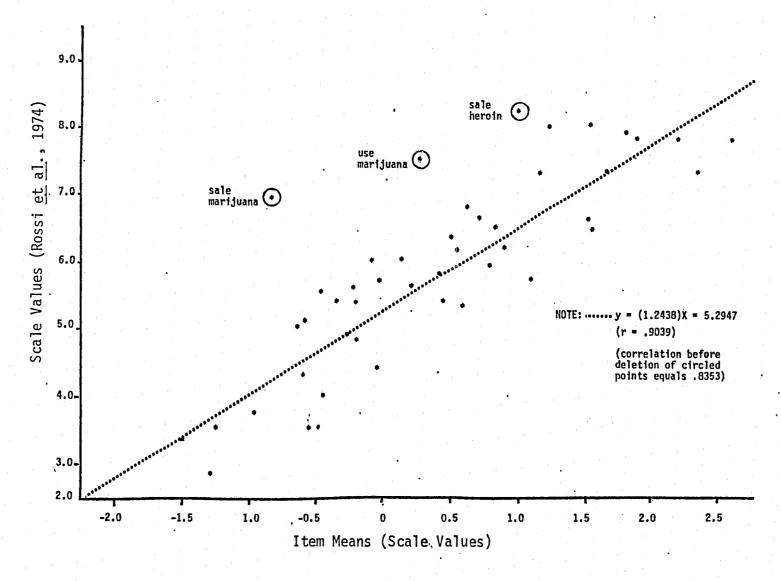


Figure 3

perceived differently over time (in this case, approximately 7 years). Controlling for these outliers, the correlation increases to .9.

Figure 4 represents the joint distribution of items in common with the current replication of Sellin & Wolfgang's scaling procedure based on a representative national sample (Figlio, 1979). The relation between the logarithm of the ratio scores observed in that study and the scale values assigned after the transformation following the method of successive inter-8 vals is .87.

It should be noted that the particular items in common with each study vary and that few items are common to all subsets. While all observed relations are quite high—and would appear to be more than respectable if considered as reliability coefficients—they are not perfect. That the relation is marginally better for the study which used a method closer to our own, suggests that some of the unexplained variability can perhaps be attributed to differences in methods. It is also likely the case, however, that some of the remaining variability can be attributed to differences in subject populations as well. Nonetheless, substantive conclusions are not likely to be affected simply by a choice of scaling procedures.

The Question of Consensus

As discussed earlier, there are two fundamental questions of consensus to be addressed in any scaling study--between-groups consensus (which has received considerable empirical test in previous studies) and within-group consensus. The latter essentially asks how well members of a relevant group (i.e., police, judges, members of the general population, etc.) ag ee with respect to the scale values of the offense descriptions. This is the issue to which we now turn.

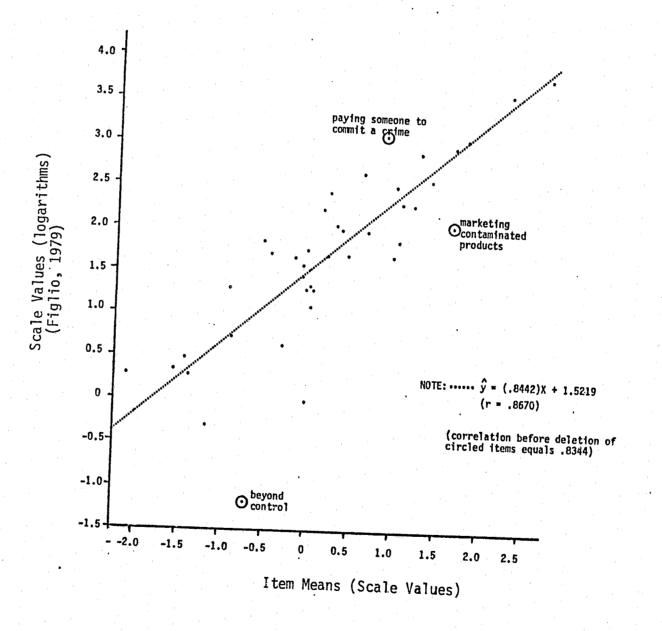


Figure 4

As part of an earlier series of studies on a conceptually related topic (Gottfredson, 1978), we devised a unique measure which allows an assessment of within-group consensus relative to scale properties, while allowing exploration of the potential value of a dimensional approach to the scaling problem. 10

The configural representation of a data matrix can vary considerably with the information contained in the input matrix coefficient (Torgerson, 1968). In general, the most commonly used matrices for factor-analytic data reduction methods are the product-moment correlation matrix or the variance-covariance matrix. While the correlation coefficient standardizes variables with respect to both the mean and the variance. 11 the covariance allows item variances to differ, standardizing only with respect to the item means. 12 For the present problem, however, item means are of considerable importance--indeed, they are everything. What is needed, then, is a coefficient that will (a) retain information contained in the item means, while (b) standardizing with respect to variances. The variance itself, however, is of course "standardized" with respect to item means (see footnote 11). The coefficient developed to handle our need standardizes with respect to vector length while retaining information contained in the item means. Finally, to minimize spurious or artificial inflation of the coefficient due to arbitrary (original) scale assignment, the grand mean of the (subjects X items) matrix is also extracted. The resulting coefficient is thus given by:

$$Cjk = \underbrace{\frac{N}{i = 1}}_{j = 1} (X_{1j} - \overline{X}..) (X_{1k} - \overline{X}..)$$

$$\sqrt{\frac{N}{2}}_{j = 1} (X_{1j} - \overline{X}..)^{2} \sqrt{\frac{N}{2}}_{j = 1} (X_{1k} - \overline{X}..)^{2}$$

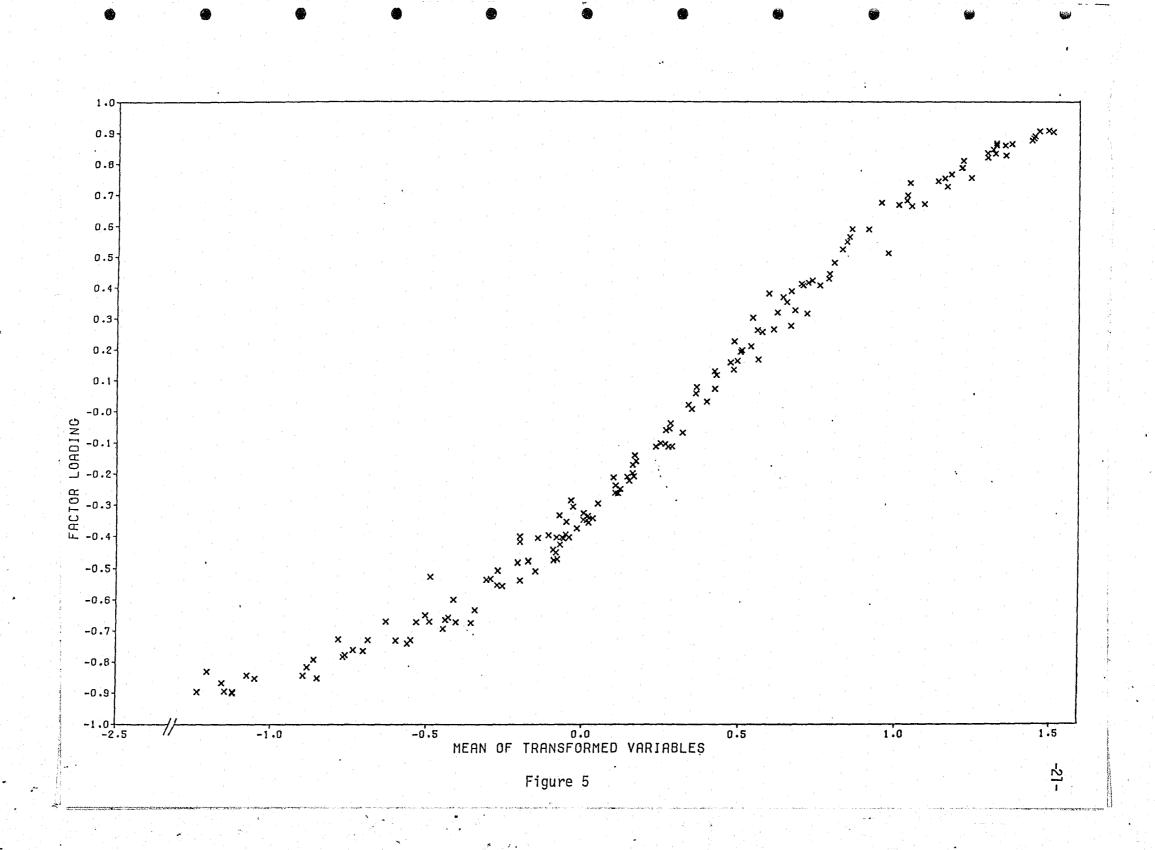
which results in a symmetric matrix of cross-products ranging from -1.00 to +1.00, with unity in the major diagonal.

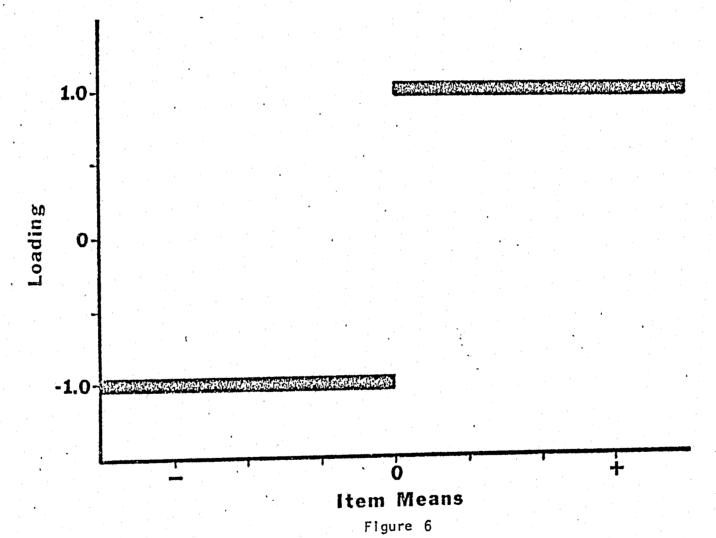
The interesting property of this coefficient is that the first principal component extracted from the n x n matrix of such coefficients should reflect agreement with respect to the item scale values. The interpretation of subsequent dimensions is problematic, unless (a) they are large, and (b) clear patterns emerge. If the first component or dimension does not adequately summarize the total variance of the n x n matrix of "standardized" cross-products, explorations of dimensionality become potentially interesting, and dimensional solutions can be sought in the usual fashion.

Results. Using all 1,024 subjects, the 162x162 matrix of standardized cross-products was prepared and a principal components analysis of the matrix was performed.

Only the first two eigenvalues are large enough to be of any interest (eigenvalues for the first three (for example) were 50.02, 33.74, and 6.68). The magnitude of the first component, which accounts for 31% of the total variance, suggests substantial (but not remarkable) agreement with respect to the "placement" of each of the 162 items on the scale. Figure 5 shows the relation between the item means and their loadings on the first (unrotated) component. The function is clearly monotonic, although not linear, with very little scatter evident. Figure 6 shows the theoretical relation which would obtain if there (a) were only a single dimension - i.e., one dimension would completely specify the domain of interest, (b) no error (of measurement), and (c) no irrelevant items (totally irrelevant items would fall at the zero point on the ordinate, and could range over the entire abscissa).

The second component (21% of the total variance) is displayed graphically in Figure 7. This component appears to represent the degree of an item's





Theoretical Relation between Item Means and Loadings on the First Principal Component (based on "standardized" cross-product) Assuming No Error, No Irrelevance, and a Single Dimension

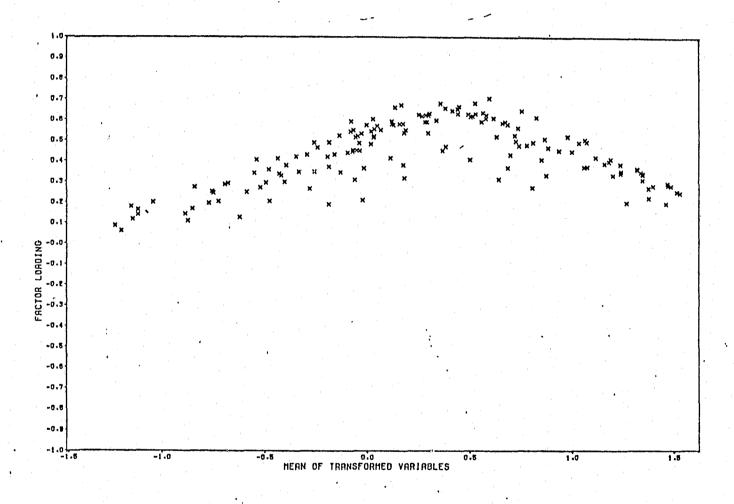


Figure 7

salience (or relevance) to the conceptual dimension underlying the first component. The relation between item means and loadings on the component is clearly curvilinear, and has the form of an inverted "U." High and low placing items load poorly, while items falling in the "mid-range" of the original scale load relatively well.

While the first principal component based on the analysis of "standardized" cross-products does account for a substantial proportion of the variance (31%), it cannot be considered to adequately summarize the total variation in the matrix (and hence, the items). Even if we include the second dimension (as perhaps we should), the proportion of variance for which we account is only about half of that available (52%). Explorations of underlying dimensionality are therefore of interest.

The Question of Dimensionality

As the object of these analyses is to represent as much of the remaining information contained in the n-variable matrix as possible with as few composites as possible, a principal components approach is again appropriate. This remaining variance can in effect be thought of as individual differences variance—that portion of the variance left over after "agreement" with respect to scale values has been taken out.

These second-order analyses were performed on a matrix of product-moment coefficients, which (as described above) discard information about item means.

Split-Sample Investigations

The replicability of factor structures is an important (but often ignored) issue. In general, it is usually observed that beyond the first few components—which typically are large relative to the remainder—structures fail to replicate. Since our sample of subjects is relatively

large, we were in a position to examine the replicability of our structures.

Accordingly, the subject sample was randomly halved, resulting in two inde15,16

pendent samples of sizes 505 and 519.

A principal components analysis of the n = 505 subsample resulted (after Varimax rotation) in a readily interpretable six component solution which accounted for 45% of the available variance. Components are well-defined, and few items load on more than one component. The six-component solution of the remaining subsample (n = 519) was also computed. While the ordering of dimensions was (trivially) different, it is clear from inspection alone that the structures are substantively identical. Appendix C gives details of these analyses.

In general, there are two empirical approaches to the question of the "fit" of factor (or other) matrices. One involves rotating matrices to maximal fit or similarity, and then assessing that similarity using a "congruence" coefficient. The other involves no further rotation, and compares specific dimensions, rather than the entire matrix. The latter (more conservative) approach was followed here. Table 2 gives the coefficients of factorial similarity (Harmon, 1967) observed. Four dimensions clearly replicate very well—all coefficients are above .95. The two smaller dimensions also replicate well, but somewhat less powerfully—coefficients are both larger than .86.

Clearly, then, our investigation of dimensionality has borne fruit.

At lease six clearly-defined and readily interpretable dimensions appear to underlie peoples' judgments of the seriousness of crime.

Coefficients of Factorial Similarity Between Corresponding Components

| | a Component | Coefficient |
|-----|--------------------------------------|-------------|
| I | (Victimless/Vice-Type Offenses) | .9723 |
| II | (Assaultive/Injury-Type Offenses) | .9516 |
| III | (Property Loss Offenses) | .9819 |
| IV | (Crimes of Social Order) | .9682 |
| V | (Serious Drug Offenses) | .8661 |
| VI | (Frauds) | .8869 |

Full-Sample Analyses

The analyses discussed above are conservative since the n/variable ratio is somewhat low. Accordingly, the full sample of 1024 subjects was also analyzed, since the resulting structure should be substantially more robust (having essentially doubled the n/variable ratio). Results of these analyses are displayed in Tables 3 and 4.

These results (of course) confirm those of the subsample analyses, and the interpretation of components does not change. The structure accounts for 44% of the total variance with six dimensions. Remaining discussion focuses on this solution.

The first component, which represents 11% of the variance after rotation, can be interpreted in a number of ways. Many of the offenses which load heavily on this component are "vice"-type crimes: prostitution, gambling, use and possession of marijuana, adultery, homosexual acts, exposures, etc. A second possible interpretation rests on the fact that many of these offenses would fall under the general rubric of "victimless crimes."

Whether victimless crimes or vice-type crimes, it is clear from an inspection of item means (the last column of figures in the table) that in general, people view crimes which loaded on this dimension as relatively non-serious.

The second component (7% of the variance after rotation) clearly involves physical assault, personal harm, and interpersonal confrontation. The third component (12% of the variance after rotation) equally clearly represents theft, property damage or loss, and property crimes in general.

The fourth dimension, which also accounts for a substantial portion of the variance after rotation (6%), seems to represent crimes against the social order. In general, these are either crimes which are committed by an agency in power (an employer, a real estate agent, a police officer, a manufacturer, a producer, a doctor, a public official), or are social crimes (i.e., against groups) (racism, the pollution of a water supply,

Table 3

Summary of Principal Components Solution

162 Items, N = 1024

UNROTATED SOLUTION

| | | | | | • | |
|-----------------------------------|------------|-------------------|----------------|-------|-------|-------|
| Component: | I | II | III | | v v | VI |
| Eignevalue | 43.97 | 10.47 | 5.69 | 4.82 | 3.47 | 3.33 |
| Cum % of Variance Explained | 37.14 | 33.60 | 37.11 | 40.09 | 42.23 | 44.29 |
| | | <u>VARIMAX RO</u> | TATED SOLUTION | | | |
| | | | | | | |
| Component: | I , | II | III | IV | V | VI |
| Eigenvalue | 17.45 | 10.45 | 19.39 | 10.12 | 7.08 | 7.26 |
| Cum % of Variance Explained | 10.77 | 17.22 | 29.19 | 35.44 | 39.81 | 44.29 |

TABLE 4

PRINCIPAL COMPONENTS SOLUTION - 162 OFFENSE DESCRIPTIONS

(N = 1024)

| | | | COMP | PONENT | | | | |
|-------|------|-------|------|--------------|------|-------|----------|---|
| I | 11 | 111 | IV | . v | VI, | h2 · | <u> </u> | OFFENSE DESCRIPTION |
| .789 | .096 | .134 | 008 | .062 | 031 | .655 | -0.7597 | A woman engages in sexual acts in return for money. |
| .752 | .087 | .156 | .084 | .090 | .039 | .614 | -0.4896 | A person solicits for prostitution. |
| .738 | .064 | .054 | 057 | .194 | 042 | .595 | -0.7343 | A person engages in sexual acts in return for money. |
| .715 | .017 | .160 | .015 | 046 | .036 | .541 | -1.0750 | A person is a customer in a house of prostitution. |
| .684 | .101 | .102 | .084 | .135 | .398 | .673 | -0.0395 | A person illegally uses barbiturates ("downers") or amphetamines ("uppers"). |
| .673 | 042 | .217 | .016 | .009 | .303 | .594 | -1.0502 | A person possesses marijuana. |
| .657 | 022 | .236 | .012 | .008 | .273 | . 563 | -1.1569 | A person uses marijuana. |
| .643 | .037 | .180 | .045 | 065 | .123 | .468 | -0.2679 | A person engages in homosexual acts in return for money. |
| .642 | .128 | .117 | -055 | .242 | .392 | .657 | 0.0363 | A person illegally possesses barbiturates ("downers") or amphetamines ("uppers"). |
| .640 | .002 | .292 | .203 | .169 | .096 | . 575 | -0.8493 | A person buys liquor illegally. |
| .638 | .096 | .146 | .142 | 079 | .497 | .711 | -0.0141 | A person possesses hallucinogenic drugs. |
| .612 | 017 | . 238 | .117 | .217 | .140 | .512 | -0.4045 | A person runs an illegal gambling operation. |
| .607 | 005 | .160 | .068 | .052 | .369 | .538 | -0.6865 | A person sells marijuana. |
| .606 | .073 | .015 | 030 | .245 | 008 | .434 | -0.2909 | A person runs a house of prostitution. |
| . 599 | ,065 | .121 | .161 | 002 | 077 | .409 | -0.7814 | A person commits adultery. |
| .596 | 054 | .128 | 032 | .374 | 026 | .516 | -0.8946 | A person participates in illegal gambling. |
| .576 | .095 | .086 | .109 | .253 | .343 | .542 | 0.0216 | A person uses hallucinogenic drugs. |
| .567 | .165 | .076 | 047 | .317 | .279 | . 534 | -0.0797 | A person gives illegal drugs to an acquaintance. |
| . 563 | .136 | 119 | .085 | .066 | .441 | . 555 | .167 | A person uses heroin. |
| .562 | 091 | .181 | 002 | ₩.137 | .040 | ,378 | -1.2041 | Two people willingly engage in a homosexual act. |
| .555 | .016 | .279 | .358 | .144 | .179 | . 567 | -0.5497 | A juvenile illegally possesses liquor. |
| . 554 | .077 | . 293 | .200 | .244 | .102 | .508 | -0.4468 | A person sells liquor illegally. |
| .533 | .036 | .187 | .416 | .099 | .275 | .579 | -0.2704 | A person gives liquor to a minor. |
| .507 | 055 | .388 | .222 | 100 | 010 | .470 | -1.1480 | A person is drunk in public. |
| .503 | .175 | .134 | .081 | .184 | .468 | . 560 | 0.3239 | A person possesses heroin. |
| .488 | 143 | .363 | .310 | .103 | .052 | .500 | -1.1229 | A juvenile breaks a curfew law. |
| .474 | 139 | .260 | .248 | .124 | 045 | .391 | -1.2362 | A person loiters in a public place. |
| | | | | | | | | |

| | | | COMP | ONENT | | | | |
|------|-------|------|-------------|-------|------|----------------|---------|---|
| I | 11 | III | . IV | . v | VI | h ² | X | OFFENSE DESCRIPTION |
| .467 | 031 | .391 | .182 | ,121 | .170 | .449 | -0.5600 | A person joins a prohibited demonstration. |
| .464 | .156 | .165 | .282 | ,113 | .045 | .361 | -0.1057 | A person exposes his genitals in public. |
| .462 | - 134 | .371 | .187 | .174 | .061 | .438 | -1.1226 | A person refuses to pay parking fines. |
| .417 | .050 | .110 | .330 | .347 | .103 | .428 | -0.0617 | A person sells liquor to minors. |
| .402 | .082 | .298 | .153 | .314 | .253 | .443 | 0.0221 | A person willingly hides someone who has committed a crime. |
| .365 | .066 | .312 | .039 | .346 | .103 | .366 | -0.4292 | A person knowingly buys stolen property. |
| .361 | .188 | .073 | .050 | .011 | 090 | .181 | -0.1973 | A person upon arriving home, kills a suspected burglar. |
| 011 | .642 | .227 | .059 | 117 | .081 | .488 | 1.3304 | A person stabs someone with a knife. |
| .091 | .598 | .152 | .236 | 027 | .056 | .488 | 1.3039 | A person forces a woman to submit to sexual intercourse. |
| 045 | . 594 | .096 | .173 | .067 | .137 | .418 | 1.4686 | A person intentionally injures someone who, as a result, dies. |
| 026 | .565 | .219 | .271 | 085 | .129 | .465 | 1.3210 | A person forces a woman to submit to sexual intercourse, then flees with property belonging to her. |
| .07 | . 562 | .101 | 087 | .075 | .010 | .346 | 1.3590 | A person kills someone during a serious argument. |
| .061 | .551 | .131 | .248 | .054 | .011 | .389 | 1.3281 | A person sexually assaults a woman. |
| .066 | .541 | .152 | .055 | 069 | .107 | .339 | 1.1863 | A person kills someone during a barroom free-for-all. |
| .091 | . 534 | ,232 | 060 | .130 | 177 | .399 | 0.6716 | Without using a weapon, a person beats someone. |
| .080 | .534 | .183 | .019 | 083 | .133 | .350 | 1.4538 | A person shoots someone with a gun. |
| .026 | .531 | .081 | ,153 | .089 | 079 | .327 | 1.3804 | Without using a weapon, a juvenile beats an elderly person. |
| 008 | .514 | .158 | .049 | .064 | ,211 | .340 | 1.4506 | A person plans to kill someone for a fee. |
| .082 | . 509 | .271 | .151 | .149 | 022 | .384 | 0.8680 | A person strikes someone with a blunt instrument. |
| .042 | .496 | .289 | .113 | .074 | .101 | .360 | 1.2207 | A person fires a gun at someone. |
| 091 | .494 | .251 | .118 | .083 | .272 | .410 | 1.3310 | A person kidnaps someone. |
| .070 | .490 | .211 | .240 | 080 | 030 | .354 | 0.8356 | Without using a weapon, a person beats his wife. |
| .003 | 468 | .234 | .157 | .129 | 223 | .365 | 1.3026 | A person sets fire to a building. |
| .066 | .462 | .102 | .197 | .145 | .025 | .288 | 1.2232 | A person kills someone by recklessly driving an automobile. |
| .100 | .450 | .089 | 075 | .038 | 065 | .232 | 0.7913 | Without using a weapon, the parent of a young child beats it. |
| 025 | .427 | 005 | 092 | .123 | 067 | .211 | 1.4460 | A person impulsively kills a stranger. |
| 067 | .419 | .075 | .153 | .182 | .106 | .253 | 1.4980 | A person sets fire to an occupied building. |
| .137 | .404 | .089 | .316 | .134 | .149 | .330 | 1.1738 | A person tries to entice a minor into a car for sexual purposes. |
| .042 | .404 | .177 | .199 | 025 | .117 | .251 | 1.0593 | A person forces another to engage in a homosexual act. |
| .320 | .374 | .217 | .089 | .160 | 130 | .339 | 0.1024 | A person threatens someone with bodily harm. |

COMPONENT

| | 11 | III | IV | ٧ | VI | h ² | X | OFFENSE DESCRIPTION |
|------|-------|-------|-------|------------------|------|----------------|---------|---|
| .189 | .366 | .334 | .073 | 003 | .090 | .295 | 0.7260 | A person threatens someone's life. |
| 056 | .361 | .108 | .104 | 136 | .028 | .175 | 1.3606 | A person shoots and kills someone who resists an armed robbery. |
| 030 | .353 | .065 | .034 | .242 | .191 | .227 | 1.5139 | A person plants a bomb in a building. |
| .121 | .172 | .778 | .202 | .010 | .057 | .693 | 0.0168 | A person steals something from a parked car. |
| .152 | .188 | .755 | .079 | .142 | .120 | .670 | 0.1225 | A person breaks into a store and with no one else present, steals something. |
| .197 | .125 | .741 | .159 | .077 | .181 | .667 | -0.0891 | A person breaks into and enters a building. |
| .162 | .167 | .728 | .172 | .075 | .160 | .645 | 0.1524 | A person breaks into and enters a store. |
| .214 | .160 | .725 | .084 | .064 | .057 | .612 | -0.1479 | A person steals merchandise from a store while the owner is not looking. |
| .156 | .177 | .723 | .116 | .070 | .070 | .602 | -0.0912 | A person attempts to break into a building, but runs away when a police car approaches. |
| .123 | .240 | .689 | .205 | .108 | .022 | .602 | 0.3423 | A person trespasses on private property and steals something. |
| .248 | .183 | .660 | .025 | .092 | 021 | .541 | -0.0682 | Without breaking into or entering a building and with no one else present, a person steals something. |
| .147 | .211 | .656 | .084 | .208 | .006 | .547 | 0.2381 | A person steals money from a store while the owner is not looking. |
| .135 | .171 | .646 | ,032 | ₂ 092 | .011 | . 474 | 0.0068 | A person steals a car. |
| .135 | .234 | .645 | .110 | .239 | 008 | .559 | 0.4334 | A person breaks into a private residence and with no one else present, steals something. |
| .174 | .256 | .639 | -,043 | .320 | 017 | .608 | 0.1079 | A person breaks into a building and with no one else present, steals something. |
| .112 | .227 | .635 | .172 | .074 | .058 | . 506 | 0.0075 | A person attempts to rob someone but leaves when a police car approaches. |
| .129 | .154 | .629 | .307 | 004 | .045 | .531 | 0.1078 | A person picks someone's pocket. |
| .109 | . 240 | .613 | .273 | ,049 | .099 | .532 | 0.3665 | A person breaks into and enters a private residence. |
| .085 | .283 | .604 | .213 | 093 | .182 | .539 | 0.4889 | A person, using threats, robs someone. |
| .139 | .158 | .600 | . 363 | 036 | .073 | .542 | 0.2711 | A person snatches someone's handbag. |
| .095 | .290 | . 583 | .157 | .045 | .220 | 508 | 0.5481 | A person, using force, robs a store. |
| .111 | .261 | .579 | .105 | .282 | 001 | .506 | 0.2858 | A person vandalizes private property. |
| .155 | .273 | .573 | .144 | .083 | .182 | .488 | 0.4263 | A person, using threats, robs a store. |
| .299 | .082 | .569 | .096 | .195 | .205 | .510 | -0.0774 | A person knowingly sells stolen goods. |
| .245 | .167 | .559 | 025 | .106 | .260 | .480 | 0.1622 | A person loots a store in a riot, |
| .033 | .364 | .554 | .220 | 013 | .177 | ,520 | 0.5998 | A person, using force, robs someone. |
| .381 | .101 | .539 | .083 | .144 | .119 | .487 | | A person possesses stolen property. |
| .210 | .220 | .520 | 010 | .250 | 031 | .427 | -0.1702 | A person steals a car and abandons it undamaged. |

TABLE 4 (contd.)

| | | | | COM | IPONENT | | | | |
|----|-------|------|------|------|------------|-------|----------------|-------------------------|--|
| | I | . 11 | III | IV | . v | VI | h ² | $\overline{\mathbf{x}}$ | OFFENSE DESCRIPTION |
| | .263 | .213 | .517 | .112 | .317 | -,116 | .508 | 0.1162 | A person trespasses on public property and steals something. |
| | .188 | .152 | .513 | .124 | .304 | 062 | .434 | -0.0495 | A person attempts to break into a parked car, but runs away when a police car approaches. |
| | .236 | .086 | .508 | .265 | .153 | .072 | .420 | -0.0575 | A juvenile takes a car for "joyriding". |
| | .186 | .236 | .492 | .186 | .321 | 081 | .476 | 0.1460 | A person vandalizes public property. |
| | .161 | .218 | .465 | .280 | .163 | .014 | .395 | 0.5630 | A person steals a car and abandons it damaged. |
| | .283 | .185 | .457 | 076 | .372 | 040 | .469 | -0.0818 | A person steals something from a public building. |
| | .075 | .391 | .441 | .204 | .076 | .209 | .444 | 0.9616 | A person, armed with a weapon, robs someone. |
| | .432 | 055 | .443 | .140 | .015 | .190 | .433 | -0.7023 | A person possesses burglary tools. |
| | .052 | .241 | .430 | .340 | .035 | .299 | .429 | 0.6447 | A person blackmails someone. |
| | .072 | .336 | .423 | .126 | .077 | .379 | .462 | 1.0457 | A person, armed with a weapon, robs a bank. |
| | .027 | .413 | .421 | .217 | .156 | .217 | .467 | 1.0552 | A person, armed with a weapon, robs a store. |
| | .259 | .231 | .419 | .137 | .364 | .185 | .482 | 0.5103 | A person willingly helps another commit a crime. |
| | .251 | .004 | .408 | .319 | 011 | 092 | .340 | -0.8603 | A person intentionally pushes or shoves someone. |
| | .384 | 002 | .397 | .169 | .178 | .270 | .438 | -0.2537 | A person smuggles goods to avoid paying import duties. |
| | .321 | .068 | .394 | .268 | .334 | ,079 | .452 | -0.1974 | A person uses false identification to obtain goods from a store. |
| | .169 | .176 | .392 | .340 | .292 | ,370 | .551 | 0.5785 | A person knowingly cashes stolen payroll checks. |
| | ,233 | .189 | .391 | .158 | .275 | .198 | .383 | 0.0533 | A person interferes with a police officer. |
| | .264 | .151 | .385 | .097 | ,107 | .248 | .323 | -0.2038 | A person joins a riot. |
| | .188 | .226 | .385 | .246 | .240 | .351 | .475 | 0.7375 | A person pays someone to conmit a crime. |
| | .376 | .037 | .383 | .213 | .183 | 019 | .369 | -0.7660 | A person trespasses on private property. |
| | .336 | .139 | .372 | .012 | .361 | 037 | .403 | -0.3420 | A person resists arrest. |
| | .153 | .109 | .368 | .165 | .306 | .177 | .323 | 0.2830 | A person illegally receives monthly welfare checks. |
| ٠, | .147 | .244 | .110 | .696 | .059 | 051 | . 584 | 0.7939 | A person attempts to prevent someone from attending a public school because of that person's race. |
| | .174 | .187 | .087 | .691 | .102 | 089 | ,568 | 0.7635 | An employer refuses to hire a qualified person because of that person's race. |
| | .171 | .140 | .052 | .681 | .084 | 117 | .536 | 0.6835 | A real estate agent refuses to sell a house to a person because of that person's race. |
| | 030 | .203 | .194 | .544 | .076 | .185 | .416 | 0.9207 | A police officer knowingly makes a false arrest. |
| | .143 | .261 | .214 | .505 | .027 | .129 | .407 | 0.7045 | A person endangers the lives of others through negligent property maintenance. |
| | ,100 | .037 | .267 | .501 | .127 | 050 | .352 | -0.0263 | A person knowingly gives false information when advertising a product. |
| | -,066 | ,231 | .136 | .495 | ,110 | .083 | .341 | 1.0437 | A manufacturer knowingly endangers lives by polluting the water supply. |
| | .403 | 014 | .149 | .495 | .094 | .010 | .439 | -0.5029 | A juvenile repeatedly runs away from home. |
| | | | | | | | | | |

| | | | COMP | ONEST | | | | |
|------|------|-------|-------|------------|-------|----------------|---------|--|
| 1 | 11 | 111 | IV | , V | IA | h ² | X | OFFENSE DESCRIPTION |
| .303 | .014 | .233 | .485 | .016 | .180 | .414 | -0.0477 | A juvenile is beyond parental control. |
| .093 | .338 | .063 | .483 | .036 | .132 | .378 | 1.1443 | A parent of a young child neglects to care for it. |
| 039 | .139 | . 298 | .479 | .217 | .204 | .428 | 0.8505 | A public official takes public funds for personal use. |
| .464 | 062 | .207 | .474 | .084 | .065 | .499 | -0.4389 | A juvenile is repeatedly truant. |
| .104 | .311 | .199 | .442 | .159 | .187 | .403 | 1.0171 | An employer orders an employee to commit a serious crime. |
| .073 | .060 | .313 | _441_ | .118 | .010 | .315 | -0.1400 | A person fixes prices on a consumer product. |
| 005 | .178 | .205 | .435 | .213 | . 250 | .371 | 0.7096 | A public official accepts bribes in return for favors. |
| .134 | .093 | .330 | .433 | .216 | .294 | .456 | 0.4987 | A doctor cheats on claims made to a health insurance plan for patient services. |
| .230 | .096 | 291 | .424 | .117 | . 225 | . 391 | 0.1739 | A person lends money at illegal interest rates. |
| .326 | .092 | .348 | .412 | .026 | .084 | .414 | -0.3042 | A person makes obscene phone calls. |
| .089 | .241 | .337 | .411 | . 207 | .136 | .410 | 0.6570 | A person, involved in an automobile accident, leaves the scene. |
| 104 | .378 | .110 | .406 | .103 | .222 | .390 | 1.2254 | A producer knowingly endangers lives by marketing contaminated products. |
| .119 | .149 | .361 | .402 | .210 | . 268 | .444 | 0.5134 | A person bribes a public official to obtain favors. |
| .205 | .193 | .237 | .378 | .030 | .175 | .310 | 0.6147 | A person drives a car while drunk. |
| .122 | .052 | .172 | ,138 | .578 | .141 | .420 | 0.3540 | A person impersonates a police officer. |
| 359 | 071 | . 193 | .127 | .544 | .032 | .485 | -0.5974 | A person operates a car with a suspended driver's license. |
| .352 | 085 | .118 | .214 | .539 | .060 | .485 | -0.5312 | A person uses someone else's driver's license. |
| .445 | -111 | .088 | .173 | .481 | .293 | .566 | 0.2785 | A person uses a forged prescription to obtain drugs. |
| .242 | .149 | .337 | .138 | .459 | .201 | .465 | 0.4282 | A person knowingly passes counterfeit money. |
| .215 | .197 | .249 | .250 | .440 | .096 | .412 | 0.5427 | A person signs someone else's name to a check and cashes it. |
| .183 | 045 | .109 | .099 | . 391 | .074 | .216 | -0.6291 | A person operates a car without insurance coverage. |
| .261 | .068 | .351 | .195 | .388 | .102 | .396 | 0.0190 | A person knowingly writes worthless checks. |
| 102 | .136 | .048 | .307 | .384 | .111 | .285 | 0.8605 | A government official intentionally obstructs the investigation of a criminal offense. |
| .087 | .238 | .318 | .347 | .371 | . 273 | .497 | 0.8099 | A person pays a witness to give false testimony in a criminal trial. |
| .044 | .200 | .228 | .315 | .355 | .027 | .320 | 0.3693 | A person intimidates a witness in a court case. |
| .380 | .120 | .091 | .141 | .145 | . 680 | .670 | 0.6692 | A person manufactures large quantities of illegal drugs. |
| .433 | .117 | .129 | .138 | .160 | .668 | .708 | 0.5651 | A person smuggles large quantities of illegal drugs. |
| .369 | .184 | .089 | , 149 | .075 | .626 | . 598 | 0.7206 | A person sells heroin. |
| | | | | | | | | |

TABLE 4 (contd.)

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| | • | | COM | PONENT | | | | |
|-------|------|-------|------|--------|--------|----------------|--------|--|
| I | 11 | . 111 | IV | V | 17 | h ² | ₹ . | OFFENSE DESCRIPTION |
| .488 | .166 | .084 | .134 | .104 | .619 | .684 | 0.2681 | A person sells hallucinogenic drugs. |
| .546 | .117 | .146 | .143 | .101 | .581 | .701 | 0.2892 | A person illegally sells barbiturates ("downers") or amphetamines ("uppers"). |
| .381 | .207 | .011 | 086 | .294 | .449 | .484 | 0.9836 | A person sells large quantities of illegal drugs. |
| . 246 | .053 | .362 | .192 | .331 | .386 | .490 | 0.4007 | A person prints counterfeit money. |
| .271 | .159 | .342 | .149 | .278 | .352 . | .439 | 0.2532 | A person conceals the identity of someone known to have committed a serious crime. |

NOTE: LOADINGS $\geq |.40|$ underlined.

the marketing of contaminated products, price-fixing, false advertising), or both. Interestingly, two offenses involving juveniles ("a juvenile repeatedly runs away from home, and "a juvenile is beyond parental control") load on this dimension. At first glance, they are anamolous, but their interpretation is clarified if one assumes that (in some sense, at least) subjects were in effect judging the actions of parents, rather than that of the juveniles. This interpretation is at least consistent with the overall pattern of this dimension.

The fifth and sixth dimensions, while relatively small (4% and 5%, respectively, of the variance after rotation) and defined by relatively few items, are nonetheless readily interpretable. Items loading on the fifth dimension (with two exceptions) all involve serious drug offenses: The sale or manufacture of heroin, hallucinogens, or barbiturates and amphetamines. Items loading in the sixth (and final) dimension by-andlarge involve fraud or deception.

Discussion: Study I

Torgerson (1958) has stressed the difference between classification and measurement. Basic to that distinction is the notion that we classify objects or events or things; while we measure attributes of things. Thus, for example, we cannot measure burglary, other than through the use of specified attributes. (We can, of course, classify burglaries. Any of a number of reasonable classification schemes, can be developed: commercial versus non-commercial, daytime versus nighttime burglaries, and so forth).

To use Torgerson's example, a stick is therefore not measurable--although its length, weight, diameter, hardness, etc. might well be. Likewise, crime is not measurable, other than through its attributes. The fundamental problem

is to find and utilize a common metric, a common attribute in the assessment of the crime. "Seriousness" would seem to represent, at first glance, such a metric. And yet this metric leaves us dissatisfied--and this dissatisfaction has been voiced by many.

The present study casts considerable doubt on the assumption that judged seriousness is in fact an homogeneous dimension (Sellin & Wolfgang, 1964). Consider again Torgerson's "stick" example. Suppose we have a large pile of sticks each of which varies along a number of dimensions: length, heaviness, roughness, diameter and so forth. If we ask our experimental subjects to judge each stick on a scale representing length, we would anticipate very considerable consistency (within-groups consensus) with respect to the scaling of the sticks. Likewise, subjects could easily array our sticks along a single dimension representing heaviness.

Suppose, however, we asked our experimental subjects to judge the "bigness" of the set of sticks. Again, we would expect to find a fair amount of agreement among our subjects with respect to the placement of the sticks relative to the "bigness" dimension, but considerable variability might also be expected. Furthermore, a substantial amount of this variability might be expected to be attributable to separate dimensions of "bigness"-such as length, width, roughness, and heaviness.

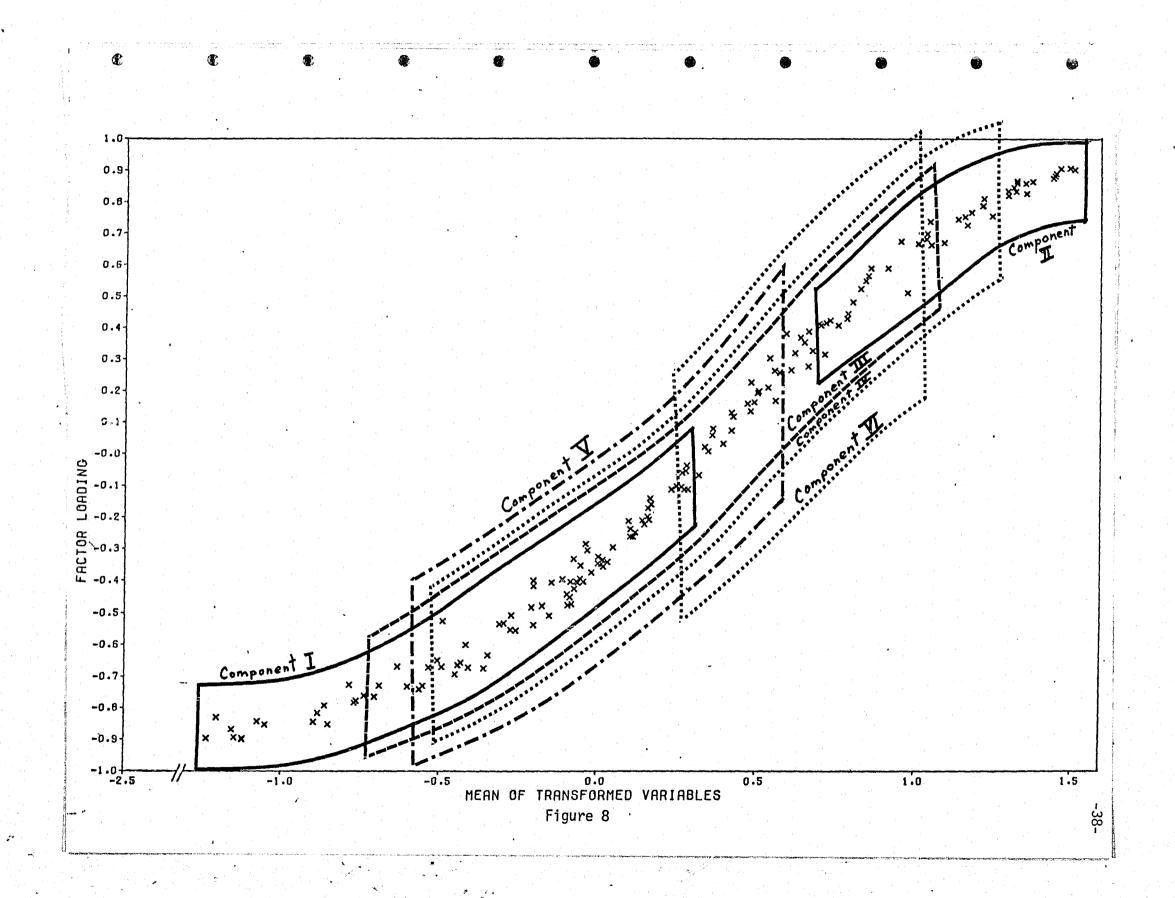
We might also expect, of course, subjects to report some discomfort in making a decision such as "which stick is bigger" when confronted with a short heavy stick and a long, light stick. Likewise, subjects experience considerable discomfort in comparing, for example, an assault and a theft.

What our studies have shown is that the metric or dimension of "seriousness" can in some ways be considered analogous to the dimension of "bigness."

Such dimensions are in some respect non-specific or heterogeneous, and we might expect to find that the combined use of a number of more specific dimensions will increase the specificity with which we can assess the events of interest (see Von Hirsch, 1973, pp. 79-83).

While we have discovered a clean and clear-cut, six-dimensional structure which apparently underlies people's judgments of offense seriousness, that structure quickly loses some of its conceptual utility if in fact the dimensions merely represent "ranges" along a single underlying dimension. That is, it is clearly of little interest simply to know (for example) that people judge "victimless," vice-type offenses as less serious than assaultive confrontational offenses, and that factor-analytic techniques can demonstrate this fact. In order for a dimensional structure to be theoretically and conceptually heuristic, we would like the distinction among factors or dimensions not simply to be one of relative magnitude. The question, then, is the extent to which these second-order dimensions overlap one another along the first-order dimension of overall judged seriousness.

Figure 8 provides a graphical illustration of this overlap. What we have done is simply to overlap the second-order dimensions on the original graphical representation of the first-order dimension (Figure 5). Thus, the ordinate represents the unrotated loading on the first component extracted from the analysis of the "standardized" cross-products (the "agreement" dimension), the abscissa represents the scale values of the offense descriptions, and the boxes represent the ranges of the item means for items loading on each of the second-order dimensions. Clearly, overlap is substantial.



Thus, the orthogonal dimensions of seriousness obtain within roughly the same ranges of judged seriousness, and the second-order dimensions are conceptually meaningful. What this illustration suggests is that two (or more) offenses may be judged as roughly (or completely) equivalent in terms of seriousness, but that they may be so judged for different reasons.

Conclusion

We have shown that substantial agreement within a large, heterogeneous sample of subjects can be demonstrated with respect to the judged seriousness of criminal and/or delinquent acts, but that the exploration of dimensional structures for judged offense seriousness is indeed appropriate. We have seen that approximately six dimensions appear to underlie our judgments of the seriousness of criminal and/or delinquent acts, and that these dimensions obtain within roughly the same ranges of apparent judged seriousness. Clearly, this has major implications for our understanding of the nature of offense seriousness.

I should note, however, that the fundamental problem of identifying a means of combining different dimensions into a single overall index remains. We now know why we are uncomfortable in equating any number of thefts with a death, but we have not resolved the incommensurability issue. Indeed, we have highlighted it. In earlier studies, it has been demonstrated that the assumption of additivity made in the Measurement of Delinquency is untenable (Gottfredson, Young, & Laufer, 1980; Pease, Ireson, & Thorpe, 1974; Wagner & Pease, 1978; Walker, 1978). When considering offenses such as rape or robbery which result in a death, subjects' judgments of seriousness simply do not covary with monetary loss. As expected, these offenses fall on different dimensions in the present study.

While offenses may not be additive they might still be agglomerative in some other sense. In the future, our efforts must be directed toward identifying a more reasonable way of agglomerating specific criminal acts into an overall measure of criminal activity.

STUDY II: BETWEEN-GROUPS CONSENSUS

As stressed in the introduction to this report, two issues of consensus must be addressed. The studies reported above addressed the "within-groups" question: we observed that considerable consensus could be achieved within a large and heterogeneous sample with respect to the judged seriousness of criminal and/or delinquent acts. While consensus or "agreement" on the overall relative seriousness of crimes was reasonable (approximately 50% of the variance in judgments can be assumed to reflect agreement on scale values), we also saw that the investigation of underlying dimensions was fruitful.

We now turn to our second "consensus" question: agreement across relevant groups concerning the seriousness of crimes. Since a dimensional approach can be expected to add to our understanding of judged seriousness, it is followed in the studies reported below.

Method

Our first step was to construct a set of six scales representing the six dimensions described in the earlier study. Scales were constructed by simply adding together scores for single items which fell on a given dimension, thus resulting in a "total score" for a dimension.

Scale Reliability

Thus far, we have assumed that items falling on the same component are somehow tipping a similar underlying dimension of judged seriousness. If we are to use these results meaningfully, however, it is necessary that we further

investigate this issue. For our scales to be conceptually useful, it is necessary that they be reliable, and that they in fact represent separable dimensions of seriousness.

Table 5 gives the internal consistency reliability coefficients observed for the full sample of 1024 students discussed above. Clearly, all scales have high reliability—homogeneity coefficients are all above .80.

Table 6 shows that scales are not <u>completely</u> orthogonal, which is to be expected, since all reflect, to some extent, the **concept** of seriousness. Still, in no instance can even half of the variance in one scale be accounted for given knowledge of another.

Subjects

Several groups of subjects voluntarily participated:

- a) Students. A ten percent (n = 112) random sample of students who participated in the earlier study was generated for use here.
- b) Police Officers. Seventy-four Maryland State Troopers from across the state participated.
- c) Correctional Officers. One hundred twenty guards from Maryland Correctional Institutions completed our forms.
- d) Parole & Probation Officers. A total of 87 officers from several Maryland jurisdictions participated.
- e) Judges/Lawyers. Twenty-three members of the Council of Juvenile Court Judges participated, as did 41 defense and prosecuting attorneys from Maryland. These groups were too small to analyze separately, and were combined in all analyses.

Finally,

f) Inmates. Seventy-four inmates confined in Maryland Correctional Institutions voluntarily completed the forms. Inmates were contacted at the Reception Diagnostic Classification Center, and hence can be considered representative of the State confinement population.

| SCALE | INTERNAL CONSISTENCY a | <u>N</u> b | NUMBER OF ITEMS |
|--------------------------------------|------------------------|------------|---------------------|
| 1) Victimless/Vice Dimension | .959 | 910 | 32 |
| 2) Bodily Harm Dimension | .888 | 934 | 22 |
| 3) Property Loss Dimension | .967 | 899 | 38 |
| 4) Tertiary Victimization Dimension | .915 | 922 | 21 |
| 5) Fraud Dimension | .809 | 996 | 8 |
| 6) Serious Drug Offense Dimension | .921 | 939 | 6 |

aCronbach's alpha

bN's vary due to incomplete response

Table 6

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Intercorrelations Among Scale Scores

| SCALE: | Victimless/ Vice | Bodily Harm | Property Loss | Tertiary Victimization | Fraud | Serious Drug Offenses |
|------------------------|---------------------|-----------------|-----------------|---------------------------|--------------------------|--------------------------|
| Victimless/Vice | • • • • | .263 (N=897) | .584 (N=873) | .526 (N=891) | .640 (N=89 3) | .700 (N=902) |
| Bodily Harm | | ***** | .592 (N=885) | .516 (N=906) | .305 (N=914) | .329 (N=919) |
| Property Loss | | | | .664 (N=878) | .564 (N=880) | .443 (N=888) |
| Tertiary Victimization | n | | | | .538 (N=904) | .454 (N=912) |
| Fraud | | | | | | .504 (N=923) |
| Serious Drug Offenses | | | | | | · |

Analysis

Each respondent in the samples described above was scored on each of six scales constructed from items loading on the six components of seriousness. Scale scores were entered as discriminating variables in a multiple discriminant function analysis (with sample membership as the variable to be distinguished) to determine whether members of the respective groups differ in their treatment of these scales. Analyses were performed without regard to prior knowledge of group size. Since all six scales are presumed to be meaningful, all six were used in the calculations of the functions.

Results

Thy hypothesis that sample members differ with respect to their treatment of the six scales was confirmed. The original value of Wilk's lambda, which assesses potential discriminability based on the scale scores, is .476 x^2 (30) 389.16; p < .001, which suggests considerable discrimination. The canonical correlation between the first discriminant function and the group membership variable is .590, and the function is of the form

 $\hat{y} = .625$ (Victimless/Vice Scale)

- .422 (Personal Harm Scale)

- .. 693 (Property Loss Scale)

+ .993 (Tertiary Victimization Scale)

- .173 (Fraud Scale)

- .480 (Major Drug Scale),

where $\hat{\hat{y}}$ equals predicted group membership.

After removing the effect of the first discriminant function, lambda increases to $.730 \left(x^2_{(20)} \right) = 164.74$; p < .001, which suggests significant remaining discriminability. The canonical correlation between the second linear

composite and the group membership variable is .41, and the composite is of the form

 $\hat{y} = -.377$ (Victimless/Vice Scale)

-.613 (Personal Harm Scale)

+.103 (Property Loss Scale)

-.410 (Tertiary Victimization Scale)

-.050 (Fraud Scale)

+.181 (Major Drug Offenses)

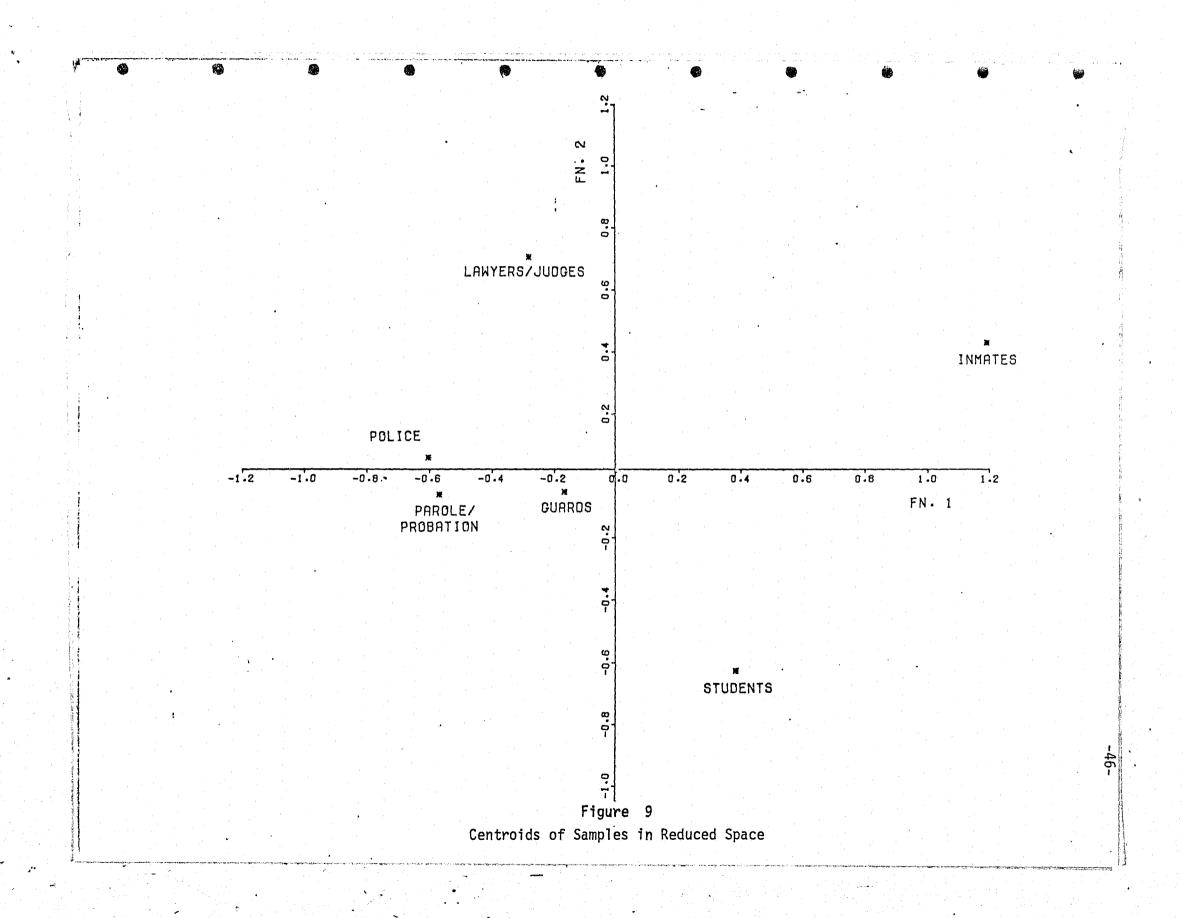
where y is as before.

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While a third discriminant function was also statistically significant (lamda = .880; χ^2 = 66.8; p < .001), the canonical correlation is small (.32). I therefore decided to restrict further discussion to the two-function solution.

Figure ⁹ shows the positions of the group centroids in the reduced space defined by the two functions. Using the functions in a "predictive" way, we correctly classified 58% of the students, 59.5% of the Inmates, and 50% of the Judges and Lawyers. The remaining three groups (Police Officers, Parole and Probation Officers, and Guards) were highly confusable but (and as suggested by Figure 9) only among themselves. That is, while guards were often classified as police officers (and vice versa), neither would likely be classified as an inmate, a student, or a member of the legal profession. Table 7 gives the means and standard deviations of each scale for each group. Clearly, large differences in the perceived seriousness of different offenses is manifest across groups. For example, inmates perceive property crimes, major drug offenses, and offenses involving personalizing as being much less serious than do other groups, while the student group perceives all of these as more serious than do the others.

Interestingly, the student sample appears to perceive all types of offenses



| • | • | | • | Table 7 | | | | 17 - |
|-----------------------------|--------------------|----------|--------|----------------------------------|---------|--------------------|--------------------|--------------|
| | | Students | Guards | Parole/ Probation Officers | Inmates | Police Officers | Judges/ Lawyers | <u>Total</u> |
| 0.3.3 | | N=112 | N=120 | N=87 | N=74 | N=74 | N=64 | N=531 |
| Scale 1 Victimless/ | Mean | -13.6 | -20.8 | -29.9 | -24.8 | -18.0 | -41.7 | -23.5 |
| Vice | Standard Deviation | 23.3 | 19.6 | 18.2 | 26.9 | 17.6 | 17.7 | 22.5 |
| Scale 2 Personal | Mean | 27.7 | 25.0 | 27.8 | 14.6 | 24.9 | 19.6 | 23.9 |
| Harm | Standard Deviation | 8.0 | 8.0 | 6.0 | 15.2 | 7.4 | 8.9 | 10.1 |
| Scale 3 Property Loss | Mean | 10.3 | 1.9 | 4.8 | -14.6 | 8.7 | - 9.1 | 1.5 |
| LU33 | Standard Deviation | 21.4 | 20.8 | 18.0 | 30.8 | 17.9 | 15.3 | 22.9 |
| Scale 4 Tertiary | Mean | 12.2 | 1.8 | 1.5 | 2.4 | - 1.5 | - 5.6 | 2.7 |
| Victim- ization | Standard Deviation | 12.1 | 13.3 | 12.1 | 14.8 | 10.4 | 11.3 | 13.6 |
| Scale 5 Fraud | Mean | 0.8 | 7 | - 1.3 | - 3.3 | - 0.4 | - 3.8 | - 1.1 |
| | Standard Deviation | 4.7 | 4.6 | 4.1 | 6.4 | 4.3 | 3.8 | 4.9 |
| Scale 6 Major Drug | Mean | 4.5 | 4.6 | 4.1 | 0.4 | 5.3 | 1.1 | 3. 6 |
| | Standard Deviation | 5.0 | 4.3 | 4.2 | 6.4 | 3.4 | 5.1 | 5.1 |

as being much more serious than to any of the other groups - perhaps "familiarity" with crime breeds contempt.

Conclusions: Study II

This study has demonstrated that a meaningful set of scales can be developed which reflect the dimensions underlying the concept of offense seriousness. The scales are highly reliable (internally consistent) and are modestly interrelated - a finding to be expected given the method of development employed and the fact that all reflect (to some extent) the concept of seriousness. Finally, we have seen that the ways in which specified groups of people perceive these dimensions differ. Offenders' perceptions of offences differ dramatically from those of other groups. Finally, it appears that there may be a "familiarity" effect with respect to judgments of the seriousness of crime: groups having involvement with the criminal justice system <u>all</u> judge offenses - of all sorts - as less serious than do persons <u>not</u> having criminal justice system involvement.

SUMMARY

This report has presented a series of studies designed to assess the ways in which we judge the seriousness of crimes. We have seen that substantial agreement within a large, heterogeneous sample of subjects can be demonstrated with respect to the judged seriousness of criminal and/or delinquent acts, but that the exploration of dimensional structures for judged offense seriousness is indeed appropriate. We have seen that approximately six dimensions underlie our judgements of the seriousness of criminal and/or delinquent acts, and that these dimensions are reliable and replicable. We have seen that several of these dimensions lie within the same ranges of apparent seriousness: suggesting that two or most offenses may be judged as of the same relative seriousness, but for different reasons. Finally, we have seen that different relevant groups of people

appear to use these dimensions in different ways. The practical consequences of these fundamental measurement issues can be enormous. For example, recent major reviews of the rehabilitation and/or treatment literature have suggested—and quite strongly—that rehabilitative or "treatment—oriented" efforts do not appear to work (see, for example, Martinson,1974; Lipton, Martinson, & Wilks, 1975; National Research Council, Panel on Research on Rehabilitative Techniques, 1979). It may well be the case, of course, that some rehabilitative efforts do indeed work, but that our yardsticks are simply too crude to allow us this know-ledge. These studies, therefore, are important not only because they shed light on important psychological and cognitive processes, but because it is precisely on these issues of fundamental measurement that advances in our knowledge of the system and its capabilities must ultimately rely.

Footnotes

¹Note that even this apparently simple "common metric" is problematic. For example, is it possible to equate time spent in county jails with time spent in state prisons? or time spent in maximum security with time spent in minimum security? Should we consider a sentence of two years given to a seventy-year old man to be equivalent to two years given to a twenty-year old man, even if both are sentenced to the same institution?

²Wilkins asks: "How many bicycle thefts and indecent exposures equal how many drunks or attempted suicides?" (Wilkins, 1963, p.337).

· ,)

The approach to be described is truly multidimensional, in that it allows for the simultaneous examination of several dimensions. However, "multi-dimensional scaling" is commonly used to describe the general class of techniques developed by Young and Householder (1938; 1941), Richardson (1938), Torgerson (1952), and others. It should be noted that the approach to be described is distinct from "multidimensional scaling" in that sense. It is, however, multidimensional. The "multidimensional scaling" of offense seriousness would of course be of considerable interest — however, the complexity of the stimuli and the requirements of the techniques are highly problematic.

"The problem with a correlational approach, of course, is that the product-moment correlation coefficient (r) is independent of both unit of origin and interval width. Hence, for example, two groups' judgments could be highly correlated even though the groups' judgments could differ with respect to (a) origin, (b) unit size, or (c) both. The use of regression coefficients (as was done by Rossi et al.) to assess differences among groups with respect to judged seriousness could ameliorate this problem since these coefficients represent differences inslope.

⁵Appendix B provides a full discussion of these analyses.

⁶The intercorrelations of scale values or the 162 offense descriptions based on the arithmetic mean, the median, the geometric mean, and on the results of the successive intervals scaling procedure all exceed .98. This suggests that end effects were relatively mild, and that substantive conclusions should not be affected based simply on the measure of central tendency employed.

In our study, the offense description read: A juvenile is repeatedly truant. In the Sellin and Wolfgang study, the description was given as "A juvenile plays hookey from school and thereby becomes an offender."

Again, three outliers have been omitted. In one case, our item read "A person knowingly endangers lives by marketing contaminated products" while the other study's item read "Knowing that a shipment of cooking oil is bad a store owner decides to sell it anyway." In the second instance, we had "A person pays someone to commit a crime" while the other study described the offense as "A person pays another person to commit a serious crime." In the final instance, we had "A juvenile is beyond parental control" as compared to "A person under 16 years of age is reported to police by his parents because they are unable to control him."

The procedure to be described was developed in collaboration with Warren S. Torgerson, and the coefficient used was developed by him. I am deeply indebted.

My use of the term "value" is an empirical one. I make no claim that the procedures discussed necessarily address the conceptual utility of the dimensional approach.

Since
$$r_{xy} = \frac{\stackrel{?}{\underset{i=1}{\times}} \gamma_{yy}}{\frac{\stackrel{?}{\underset{i=1}{\times}} \gamma_{yz}}{\frac{?}{\underset{i=1}{\times}} \gamma_{z}}} = \frac{\stackrel{?}{\underset{i=1}{\times}} (x_{i} - \overline{x}_{i})(y_{i} - \overline{y}_{i})}{\frac{?}{\underset{i=1}{\times}} \gamma_{z} - \overline{y}_{i}}$$

Note that this matrix is thus based on over 165,000 individual judgments, and considerable stability might be expected.

See Torgerson's (1968) discussion of salience (pp.88-93) and his figures 9.10, and 11.

Subjects were selected for inclusion in either sample using a probabilistically weighted random sample generator. As each subject is considered for inclusion independently of all others, subsamples are not of precisely the same size.

The analyses which follow are, of course, conservative since the n/variable ratio is somewhat low. This could reduce the stability of any resulting structures.

It could, of course, be the case that these dimensions are small in terms of the proportion of the overall variance for which they account precisely because there were relatively few items available to define them.

It should be noted that this conclusion is probably unwarranted. A more realistic conclusion would appear to be that, given the quality of the evaluative work undertaken, it is difficult to tell whether or not anything works.

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APPENDIX A



THE JOHNS HOPKINS UNIVERSITY

CENTER FOR METROPOLITAN PLANNING AND RESEARCH
BALTIMORE, MARYLAND 21218

OFFENSE SERIOUSNESS STUDY

The Criminal Justice Studies Program of the Center for Metropolitan Planning and Research is involved in a series of studies designed to understand the ways in which people view the seriousness of criminal behaviors. We would greatly appreciate your help with one of our studies.

This booklet describes a series of violations of the law. Each violation is different from all others. Some may seem to be very serious; others may seem to be much less serious. Some statements are quite specific; others are more general.

Your task is to show how serious you feel each violation is, not what the law says, or how you believe the courts might act. You do this by circling a number from 1 to 15 below each statement. If you feel the violation is in the least serious category circle 1:

Least Serious Seriousness Serious Serious Serious Serious Serious Not 12 13 14 15

If you feel it is of middle, or average seriousness, circle 8:

Least Serious Seriousness Seriousness Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

If you think it is the most serious category circle 15:

 Least Serious
 Average Seriousness
 Most Serious Serious

 1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 (15)

You may circle any number just so long as it shows how serious you think the offense is. Each of the 15 categories is an equal step on the scale of seriousness so that 4 is one step more serious than 3 and 10 is one step more serious than 9, and so forth.

Take your time. Every statement should have one and only one answer. Remember, this is not a test. We are only interested in how you feel about each offense. Please be sure that your name does not appear anywhere on the booklet.

Thank you for your time and consideration.

1. A person turns in a false fire alarm.

Least Serious Serious Seriousness Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

2. A person willingly commits perjury.

 Least Serious
 Average Seriousness
 Most Serious

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 14
 15

3. A person operates a car without insurance coverage.

Least Average Mos Serious Seriousness Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

4. A person shows pornographic movies to a minor.

5. A person assassinates a public official.

 Least Serious
 Average Seriousness
 Mos Seriousness
 Mos Seriousness

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6. A person runs a house of prostitution.

Least Serious Seriousness Serious Serious Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

A person disturbs the neighborhood with loud, noisy behavior.

Least Average Mos Serious Serious Serious Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

A government official intentionally obstructs the investigation of a criminal offense.

Least Serious Seriousness Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

9. A person has no residence and no visible means of support.

Least Average Serious

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

10. A person uses someone else's driver's license.

Least Average Most Serious Seriousness Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

11. A person plants a bomb in a building.

Least Serious Seriousness Serious Serious Seriousness Seriousness

12. A person participates in illegal gambling.

 Least Serious
 Average Seriousness
 Most Serious Serious

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 14
 15

13. A person operates a car with a suspended driver's license.

Least Average Most Serious Serious Serious Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

14. A person impersonates a police officer.

 Least Serious
 Average Seriousness
 Most Serious

 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

15. A person sells large quantities of illegal drugs.

 Least Serious
 Average Seriousness
 Most Serious

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16. A person engages in sexual acts in return for money.

Least Serious Seriousness Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

7. A person commits treason.

Least Average Serious Serious Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

18. A person impulsively kills a stranger.

 Least
 Average
 Mos

 Serious
 Seriousness
 Serious

 1
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19. A person possesses an illegal weapon.

 Least Serious
 Average Seriousness
 Most Serious Serious

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20. Without using a weapon, a juvenile beats an elderly person.

Least Average Most Serious Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

21. A person sells liquor to minors.

Least Average Mos Serious Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

A person uses a forged prescription to obtain drugs.

Average Mos Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

23. A person sets fires to an occupied building.

 Least Serious
 Average Seriousness
 Mos Serious Seriousness
 Mos Seriousness

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24. A person steals something from a public building

Average Most Serious

2 3 4 5 6 7 8 9 10 11 12 13 14 15

25. A person gives illegal drugs to an acquaintance.

Least Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

26. A person signs someone else's name to a check and cashes it.

Least Serious Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

27. Without using a weapon, a person beats someone.

Least Serious Seriousness Average Seriousness Serious Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

28. A person threatens someone with bodily harm

Least Serious Average Most Serious Serious Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

29. A person trespasses on public property and steals something.

Least Serious Seriousness Most Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

30. A person resists arrest.

Serious Seriousness Most Serious Serious Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

31. A person runs his hands over a woman's body, then runs away.

Least Serious Seriousness Average Seriousness Most Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

32. A person vandalizes public property.

Least Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

33. A person intimidates a witness in a court case.

Least Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

34. A person uses hallucinogenic drugs.

Least Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

35. A person commits incest.

Least Serious Average Seriousness 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

36. A person strikes someone with a blunt instrument.

Least Average Most Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

37. A person knowingly buys stolen property.

38. A person sexually assaults a woman.

Least Serious Serious Seriousness Serious Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

 A person attempts to break into a parked car, but runs away when a police car approaches.

Least Serious Average Seriousness 1 2 3 4 5 6 7 8 9 10 11 12 13 14

40. A person kills someone by recklessly driving an automobile.

Least Serious Seriousness Seriousness Serious Serious Seriousness Seriousness Seriousness 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

41. A person knowingly passes counterfeit money.

Least Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

42. A person tries to entice a minor into a car for sexual purposes.

Least Serious Serious

 A person illegally possesses barbiturates ("downers") or amphetamines ("uppers").

 Least Serious
 Average Seriousness
 Most Serious

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44. A person steals a car and abandons it underson

Least Serious Seriousness Seri

45. Without using a weapon, the parent of a young child beats it.

Least Serious Seriousness Mos Seriousness Seriousness

46. A person breaks into a building and with no one else present, steals something.

Least Average Serious Seriousness Serious Serious Seriousness Seriousness Seriousness Seriousness Seriousness Seriousness Serious Seri

47. A person varidalizes private property

Least Average Serious Serious

48. A person willingly helps another comput a prime

Least Serious Serious

49. A person forces another to engage in a homosexual act.

Least Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

50. A person kills someone during a serious argument.

Least Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

 A person breaks into a private residence and with no one else present, steals something.

Least Serious Average Seriousness Most Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

52. A person possesses heroin.

Least Serious Average Seriousness 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

53. A person trespasses on private property.

Least Serious Seriousness Most Seriousness Seriousness Seriousness Seriousness Seriousness 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

54. A person practices medicine without a license.

Least Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

55. A person knowingly writes worthless checks.

Least Serious Seriousness Seriousness Serious Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

56. A person commits adultery

Least Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

 A person knowingly gives false information when advertising a product.

Least Serious Seriousness Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

58. A real estate agent refuses to sell a house to a person because of that person's race.

Least Serious Serious Serious Serious Serious Serious Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

59. A person steals a car and abandons it damaged.

Least Serious Seriousness Seriousness Seriousness Seriousness Seriousness Seriousness Seriousness Seriousness Seriousness Serious Seri

60. A person illegally receives monthly welfare payments.

Least Serious Seriousness Seri

61. A woman engages in sexual acts in return for money.

Least Serious Seriousness Seri

62. An employer refuses to hire a qualified person because of that person's race.

Least Serious Seriousness Seriousness 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

63. An employer orders an employee to commit a serious crime

Serious Seriousness Average Seriousness Seriousness Seriousness Seriousness Seriousness Serio

64. A person, armed with a weapon, robs a store.

Least Serious Seriousness Serious Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

65. A juvenile repeatedly runs away from home

A manufacturer knowingly endangers lives by polluting the water supply.

Least Serious Average Seriousness Most Seriousness Ser

 A person illegally uses barbiturates ("downers") or amphetamines ("uppers").

Least Serious Seriousness Seriousness Serious Seriousness Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

68. A person, armed with a weapon, robs someone.

Least Serious Seriousness Most Serious Seriousness 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

69. A person forces a woman to submit to sexual intercourse.

Least Serious Seriousness Seriousness Seriousness Seriousness Seriousness Seriousness Seriousness Seriousness Serious Serious

 A person uses false identification to obtain goods from a store.

Average Serious Seriou

71. A person sells liquor illegally

Least Serious Seriousness Most Seriousness Seriousness Seriousness Seriousness Seriousness Serious Ser

72. A person solicits for prostitution

Least Average Serious
1 2 3 4 5 6 7 8 9 10 11 12 13 14

| 73. A person willingly hides someone who has committed a crime. Least | 85. A person, using threats, robs a store. |
|--|--|
| Serious Serious Serious Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 | Least Serious Seriousness Serious Seri |
| 74. A person interferes with a police officer. | 86. A producer knowingly endangers lives by marketing |
| Least Serious Seriousness Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 | Least Average Serious Serious Serious Serious Serious Most |
| 75. A person fires a gun at someone. | 0 0 0 0 11 12 13 14 15 |
| Least Average Most Serious Serious Serious Serious Serious | 87. A person pays a witness to give false testimony in a criminal trial. Least Average Most |
| 2 3 4 3 6 7 8 9 10 11 12 13 14 15 | Serious Seriousness Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 |
| 76. A person refuses to pay alimony. Least Average Most | 88. A person loiters in a public place. |
| Serious Seriousness Seriousness Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 | Least Average Most Serious Serious Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 |
| 77. A person hijacks an airplane. | 89. A public official accepts bribes in return for favors. |
| Least Serious Seriousness Most Serious Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 | Least Serious Seriousness Serious Seri |
| 8. A person runs an illegal gambling operation. | 90. A person plans to kill someone for a fee. |
| Least Average Most Serious Serious Serious | Least Serious Seriousness Most Serious Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 |
| 9. A juvenile is repeatedly truant. | 91. A person kidnaps someone. |
| Least Serious Seriousness Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 | Least Average Most Serious Serious Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 |
| . A person buys liquor illegally. | 92. A person sets fires to a building. |
| Average | Least Serious Seriousness Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 |
| A person attempts to prevent someone from attending a public school because of that person's race. | 93. A person threatens someone's life. |
| Least Serious Seriousness Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 | Least Serious Seriousness Serious Seri |
| A person shoots and kills someone who resists an armed robbery. | 94. Without breaking into or entering a building and with no one else present, a person steals something. |
| Average Serious Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 | Least Serious |
| A person uses heroin. | 95. A juvenile illegally possesses liquor. |
| Least Serious Average Seriousness Most Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 | Least Serious Seriousness Serious Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 |
| A person exposes his genitals in public. | 96. A person breaks into and enters a private residence. |
| Least Average Most Serious Serious Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 | Least Average Most Serious Serious Serious |

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109. A parent of a young child neglects to care for it.
                                                                                            110. A person joins a riot.
  98. A person forces a woman to submit to sexual intercourse,
  99. A person trespasses on private property and steals
 100. A person intentionally injures someone who, as a result,

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        Average
Seriousness
        Most
Serious

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    A person steals money from a store while the owner is not
looking.

                                                                                            113. A person possesses marijuana.
                                          riousness Serious
8 9 10 11 12 13 14 15
                                    Average Most Serious 7 8 9 10 11 12 13 14 15
 103. A person steals a car.
                                                                                            115. Without using a weapon, a person beats his wife.
                              Average Most Serious 6 7 8 9 10 11 12 13 14 15
104. A person possesses stolen property.
105. A juvenile takes a car for "joyriding".
                                                                                            117. A person breaks into a store and with no one else present,
steals something.
 106. A person intentionally shoves or pushes someone.
                                                                                             118. A person, involved in an automobile accident, leaves the
                                    Seriousness Serious 7 8 9 10 11 12 13 14 15
 107. A person sells marijuana
                                                                                            119. A person attempts to rob someone but leaves when a
police car approaches.
                                    120. A public official takes public funds for personal use.
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97. A person fixes prices on a consumer product.

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121. A person uses marijuana.
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 Least Serious
 Average Seriousness
 Most Serious Serious

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122. A person, using force, rohs someone.

 Least Serious
 Average Seriousness
 Mos Serious Serious

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123. A person attempts to break into a building, but runs away when a police car approaches.

 Least Serious
 Average Seriousness
 Most Serious

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124. A person steals something from a parked car.

Least Average Mos Serious Seriousness Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

125. A person kills someone during a barroom free-for-all.

Serious Seriousness Seriousness 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

126. A person stabs someone with a knife.

 Least Serious
 Average Seriousness
 Most Serious Serious

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127. A person is drunk in public.

 Least Serious
 Average Seriousness
 Most Serious

 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

128. A person steals merchandise from a store while the owner is not looking

 Least Serious
 Average Seriousness
 Mos Seriousness
 Mos Seriousness

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129. A juvenile is beyond parental control.

 Least Serious
 Average Seriousness
 Most Seriousness
 Most Seriousness

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130. A person snatches someone's handbag.

131. A person breaks into and enters a store.

Least Serious Seriousness Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

132. A person illegally sells barbiturates ("downers") or amphetamines ("uppers").

 Least Serious
 Average Seriousness
 Mo Seriousness
 Mo Seriousness

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133. A juvenile breaks a curfew law.

Least Serious Seriousness Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

134. A person manufactures large quantities of illegal drugs

 Least Serious
 Average Seriousness
 Most Serious Serious

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135. A person lends money at illegal interest rates

 Least Serious
 Average Seriousness
 Mos Serious Serious

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36. A person knowingly cashes stolen payroll checks.

Least Serious Seriousness Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

137. A person, armed with a weapon, robs a bank.

Least Average Most Serious Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

138. A person engages in homosexual acts for money.

 Least Serious
 Average Seriousness
 Most Serious Serious

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139. A person drives a car while drunk.

 Least Serious
 Average Serious
 Most Serious

 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

140. A person makes obscene phone calls.

 Least Serious
 Average Seriousness
 Most Serious

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141. A person smuggles large quantities of illegal drugs

 Least Serious
 Average Seriousness
 Most Serious

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142. A police officer knowingly makes a false arrest.

 Least Serious
 Average Seriousness
 Most Serious Serious

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143. A person picks someone's pocket.

 Least Serious
 Average Seriousness
 Most Serious Serious

 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

144. A doctor cheats on claims made to a health insurance plan

 Least Serious
 Average Seriousness
 Most Serious Serious

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145. A person breaks into and enters a building.

 Least Serious
 Average Seriousness
 Most Serious Serious

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146. A person pays someone to commit a crime.

Least Average Mos Serious Seriousness Seriousness Seriousness 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

147. A person possesses hallucinogenic drugs.

Least Serious Seriousness Serious Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

148. A person gives liquor to a minor.

 Least Serious
 Average Seriousness
 Most Serious Serious

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149. A person prints counterfeit money.

Least Serious Seriousness Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 1

150. A person loots a store in a riot.

Least Serious Seriousness Serious Seri

151. A person smuggles goods to avoid paying import duties.

Least Average Serious
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

152. A person sells heroin.

 Least Serious
 Average Seriousness
 Most Serious Seriousness

 1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15

153. A person shoots someone with a gun.

 Least Serious
 Average Seriousness
 Most Serious

 1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15

154. A person endangers the lives of others through negligent property maintenance.

155. A person bribes a public official to obtain favors.

156. A person joins a prohibited demonstration:

Least Serious Seriousness Seriousness Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

157. A person, using threats, robs someon

Least Average Most Serious Serious Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

158. A person blackmails someone.

Least Serious Serious Serious Serious Serious Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

159. Two people willingly engage in a homosexual act.

Least Average Mos Serious Serious Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

160. A person sells hallucinogenic drugs.

Least Serious Seriousness Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

161. A person possesses burglary tools.

Least Serious Seriousness Serious Serious Serious Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

162. A person is a customer in a house of prostitution.

Least Serious Seriousness Serious 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Appendix B: The Question of Scale Value

A fundamental question addressed in any scaling study is "what is our best estimate of the value of each stimulus?" (in this case, offense). Typically, of course, the arithmetic mean is taken as the measure of choice because of its relative stability. On the other hand, characteristics of the distribution itself should be examined to ensure that this is indeed the appropriate measure to use.

Inspection of the response distributions suggested relatively mild end effects (Torgerson, 1958), and further examination was felt warranted.

Tables 1 through 3 give the scale values for the 162 offense descriptions based on the arithmetic mean, the median, and the geometric mean respectively, and Figures 1 through 3 give the distributions of scale values based on each of these measures. Clearly, all orderings of items are essentially identical, suggesting that substantive conclusions are unlikely to be affected based on any of these three measures.

Nonetheless, since modest end effects were observed, data were rescaled following the method of successive intervals (Torgerson, 1958; Diederch, Messick & Tucker, 1957) to minimize any displacement of item means. Results

of the rescaling are given in Table 4, and are displayed graphically in Figures 4 and 5. The desired objective has been attained - that is, the scale has been "stretched" in its extremes (Figure 4) to approximate the presumably continuous underlying distribution of attitudes (Torgerson, 1968; Edwards, 1957), and the distribution of scale values is now approximately normal (Figure 5).

One problem with the successive intervals rescaling procedure, however, is that it does not <u>directly</u> allow us to assign each subject a score, since (under the assumption that the variate of interest is in fact continuously distributed) the lower real limit of the lowest response category, and the upper real limit of the uppermost response category are undefined (Edwards, 1957; Diederch, Messick & Tucker, 1957; Torgerson, 1958). In order to assign scores to individuals, therefore, some form of interpolation to the upper- and lower-most values is necessary.

Figure 6 displays the relation between the original scale values (on the 1-15 category judgment scale) and the 13 rescaled midpoints calculated from results of the successive intervals scaling procedure. Since the function is nearly linear (r=.998), we simply fit a regression line ($\hat{\gamma}$ =.273%-2.394) to

allow estimation of the two desired values.

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Since our further analyses will require individual scores (rather than simply a scale value for a variable), all data were then transformed using this method of approximation. Results are given in Table 5, and displayed graphically in Figure 7. While no dramatic change in the distribution is apparent over that based on the "Raw" Arithmetic Means (see Figure 1), some modest improvement is noted.

Table 6 gives a summary comparison of the rank-ordered scale values assigned to each stimulus based on the five measures of central tendency discussed. Since in general differences between successive ranks are not significant given the observed standard errors of the mean (Tables 4 and 5), it is apparent that no substantive differences between scale values emerge based simply on the different measures employed to estimate them. Indeed, from Tables 7 (which gives the intercorrelations of ranked scale values) and 8 (which gives the intercorrelations of the assigned values themselves) it is apparent that no method is likely to result in substantive differences in scale values. In general, this is due to the relative lack of severe endeffects.

CONTINUED 10F3

TABLE 1: Rank-order of 162 offense descriptions based on the arithmetic mean.

| Rank | Crime Description | Mean |
|------------|---|--------|
| 1 | A person plants a bomb in a building. | 14.260 |
| 2 | A person sets fire to an occupied building. | 14.199 |
| 3 | A person intentionally injures someone who, as a result, dies. | 14.086 |
| . 4 | A person plans to kill someone for a fee. | 14.036 |
| 5 | A person shoots someone with a gun. | 14.028 |
| 6 | A person impulsively kills a stranger. | 14.023 |
| 7 | Without using a weapon, a juvenile beats an elderly person. | 13.766 |
| 8 | A person shoots and kills someone who resists an armed robbery. | 13.708 |
| 9 | A person kills someone during a serious argument. | 13.698 |
| 10.5 | A person sexually assaults a woman. | 13.586 |
| 10.5 | A person stabs someone with a knife. | 13.586 |
| 12 | A person kidnaps someone. | 13.580 |
| 13 | A person forces a woman to submit to sexual intercourse, then flees with property belonging to her. | 13.563 |
| 14 | A person forces a woman to submit to sexual intercourse. | 13,491 |
| 15 | A person sets fires to a building. | 13,489 |
| 16 | A person assassinates a public official. | 13.392 |
| 17 | A producer knowingly endangers lives by marketing contaminated products. | 13.212 |
| 18 | A person kills someone by recklessly driving an automobile. | 13.207 |
| restanting | | |

| Rank | Crime Description | Mean |
|------|--|--------|
| 19 | A person fires a gun at someone. | 13.180 |
| 20 | A person kills someone during a barroom free-for-all. | 13.076 |
| 21 | A person tries to entice a minor into a car for sexual purposes. | 13.038 |
| 22 | A person hijacks an airplane. | 12.997 |
| 23 | A parent of a young child neglects to care for it. | 12.930 |
| 24 | A person forces another to engage in a homosexual act. | 12.612 |
| 25 | A person practices medicine without a license. | 12.767 |
| 26 | A person, armed with a weapon, robs a store. | 12.591 |
| 27 | A manufacturer knowingly endangers lives by polluting the water supply. | 12.565 |
| 28 | A person, armed with a weapon, robs a bank. | 12.564 |
| 29 | An employer orders an employee to commit a serious crime. | 12.475 |
| 30 | A person sells large quantities of illegal drugs. | 12.351 |
| 31 | A person, armed with a weapon, robs someone. | 12.273 |
| 32 | A police officer knowingly makes a false arrest. | 12.121 |
| 33 | A person strikes someone with a blunt instrument. | 11.937 |
| 34 | A government official intentionally obstructs the investigation of a criminal offense. | 11.925 |
| 35 | A public official takes public funds for personal use. | 11.891 |
| 36 | Without using a weapon, a person beats his wife. | 11.821 |
| 37 | A person pays a witness to give false testimony in a criminal trial. | 11.733 |
| 38 | A person attempts to prevent someone from attending a public school hecause of that person's race. | 11.675 |
| 39 | Without using a weanon, the parent of a young child beats it. | 11.639 |

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| Rank | Crime Description | Mean | | Rank | Crime Description | V |
|----------|--|----------|---|------|--|------------------|
| 40 | An employer refuses to hire a qualified person because of that person's race. | 11.561 | | 64 | A person embezzles company money. | Mean . 10.548 |
| 41 | A person pays someone to commit a crime. | 11.491 | | 65 | A person breaks into a private residence and with no one else present, steals something. | ; 9 |
| 42 | A person threatens someone's life. | 11.430 | | 66 | A person, using threats, robs a store. | 10.390 |
| 43 | A person sells heroin. | 11.394 | | 67 | A person knowingly passes counterfeit money. | 10.379 |
| 44 | A public official accepts bribes in return for favors. | 11.364 | | 68 | A person prints counterfeit money. | 10.373 |
| 45 | A person endangers the lives of others through negligent property maintenance. | 11.353 | | 69 | A person breaks into and enters a private residence. | 10.158 |
| 46 | A real estate agent refuses to sell a house to | | | 70 | A person intimidates a witness in a court case. | 10.154 |
| | a person because of that person's race. | 11.274 | | 71 | A person impersonates a police officer. | 10.092 |
| 47 48 | Without using a weapon, a person beats someone. A person manufactures large quantities of | 11.229 | | 72 | A person trespasses on private property and steals something. | 10.068 |
| | illegal drugs. | 11.203 | | 73 | A person possesses heroin. | 9.962 |
| 49 | A person, involved in an automobile accident, leaves the scene. | 11.184 | | 74 | A person vandalizes private property. | 9.872 |
| 50 | A person blackmails someone. | 11.146 | | 75 | A person illegally sells barbiturates ("downers") or amphetamines ("uppers"). | 9.849 |
| 51 | A person commits treason. | 11.068 | • | 76 | A person illegally receives monthly walfare | 3.043 |
| 52 | A person drives a car while drunk. | 11.014 | | | payments. | 9.829 |
| 53 | A person, using force, robs someone. | 10.999 | | 77 | A person uses a forged prescription to obtain drugs. | 9.812 |
| 54 | A person knowingly cashes stolen payroll checks. | 10.904 | | 78 | A person snatches someone's handbag. | 9.811 |
| 55 | A person steals a car and abandons it damaged. | 10.853 | | 79 | A person sells hallucinogenic drugs. | 9.763 |
| 56 | A person smuggles large quantities of illegal drugs. | 10.845 | • | 80 | A person conceals the identity of someone known to have committed a serious crime. | 9.739 |
| 57 | A person, using force, robs a store. | 10.819 | | 81 | A person steals money from a store while the owner is not looking. | 9.688 |
| 58 | A person signs someone else's name to a check and cashes it. | 8.496 | • | 82 | A person willingly commits perjury. | 9.448 |
| 59 | A person willingly helps another commit a crime. | 10.684 | 1 | 83 | A person lends money at illegal interest rates. | 9.434 |
| 60 | A person bribes a public official to obtain favor | | | 84 | A person possesses an illegal weapon. | 9.408 |
| 61 | A doctor cheats on claims made to a health | 5,,01000 | • | 85.5 | A person loots a store in a riot. | 9.399 |
| , , | insurance plan for patient services. | 10.617 | | 85.5 | A person breaks into and enters a store. | 9.399 |
| 62 | A person, using threats, robs someone. | 10.606 | | 87 | A person uses heroin. | 9.382 |
| 63 | A person commits incest. | 10.549 | | | | |

Table 1 (Cont'd)

| 88 89 | | Mean | • | | | <u>Mean</u> |
|----------|---|-------|---|-----|--|----------------|
| 00 | A person vandalizes public property. | 9.367 | | 110 | A person sells liquor to minors. | 8.579 |
| 09 | A person breaks into a store and with no one | | | 111 | A person knowingly sells stolen goods. | 8.548 |
| | else present, steals something. | 9.282 | | 112 | A person shows pornographic movies to a minor. | 8,535 |
| 90 | A person trespasses on public property and steals something. | 9.249 | | 113 | A person steals something from a public building. | 8,532 |
| 91 | A person breaks into a building and with no one else present, steals something. | 9.222 | | 114 | A person breaks into and enters a building. | 8.518 |
| 92 | A person picks someone's pocket. | 9.221 | | 115 | A person attempts to break into a building, but runs away when a police car approaches. | 8.497 |
| 93 | A person threatens someone with hodily harm. | 9.177 | | | | |
| 94 | A person interferes with a police officer. | 9.020 | | | | |
| 95 | A person illegally possesses barbiturates | | | 116 | A person gives illegal drugs to an acquaintance. | 8.496 |
| | ("downers") or amphetamines ("uppers"). | 8.924 | | 117 | A person exposes his genitals in public. | 8.396 |
| 96 | A person willingly hides someone who has committed a crime. | 8.895 | • | 118 | A person fixes prices on a consumer product. | 8.300 |
| 97 | A person steals something from a parked car. | 8.888 | | 119 | A person steals merchandise from a store while the owner is not looking. | 8.290 |
| 98 | A person knowingly writes worthless checks. | 8.880 | | 120 | A person steals a car and abandons it undamaged. | 8.192 |
| 9 . | A person uses hallucinogenic drugs. | 8.865 | | 121 | A person uses false identification to obtain | |
| 00 | A person steals a car. | 8.863 | | | goods from a store. | 8,093 |
| 01 | A person attempts to rob someone but leaves when a police car approaches. | 8.848 | | 122 | A person runs his hands over a woman's body, then runs away. | 8.065 |
| 02 | A person possesses hallucinogenic drugs. | 8.741 | | 123 | A person joins a riot. | 8.059 |
| 03 | A person knowingly gives false information when advertising a product. | 8.706 | | 124 | A person, upon arriving home, kills a suspected burglar. | 8.055 |
| 04 | A person turns in a false fire alarm. | 8.689 | | 125 | A person smuggles goods to avoid paying import duties. | 7.877 |
| 05 | A person illegally uses barbiturates ("downers") or amphetamines ("uppers"). | 8.642 | | 126 | A person gives liquor to a minor. | 7.791 |
| 06 | A person attempts to break into a parked car, | U.UTL | | 127 | A person engages in homosexual acts for money. | 7.787 |
| , | but runs away when a police car approaches. | 8,639 | | 128 | A person runs a house of prostitution. | 7.719 |
| 07 | A juvenile is beyond parental control. | 8,620 | | 129 | A person makes obscene phone calls. | 7.668 |
| 03 | A juvenile takes a car for "joyriding". | 8.596 | | 130 | A person resists arrest. | 7.562 |
| 09 | Without breaking into or entering a building | | | 131 | A person possesses stolen property. | |
| | and with no one else present, a person steals something. | 8.580 | | 132 | A person runs an illegal gambling operation. | 7.519 7.323 |

Table 1 (Cont'd)

| Rank | Crime Description | <u>Mean</u> |
|------|---|-------------|
| 133 | A person refuses to pay alimony. | 7.288 |
| 134 | A person knowingly buys stolen property. | 7.225 |
| 135 | A juvenile is repeatedly truant. | 7.194 |
| 136 | A person sells liquor illegally. | 7.175 |
| 137 | A person solicits for prostitution. | 6,983 |
| 138 | A person has no residence and no visible means of support. | 6.973 |
| 139 | A juvenile repeatedly runs away from home. | 6.943 |
| 140 | A person uses someone else's driver's license. | 6.837 |
| .141 | A juvenile illegally possesses liquor. | 6.769 |
| 142 | A person joins a prohibited demonstration. | 6.751 |
| 143 | A person operates a car with a suspended driver's license. | 6.603 |
| 144 | A person operates a car without insurance coverage. | 6.472 |
| 145 | A person sells marijuana. | 6.259 |
| 146 | A person possesses burglary tools. | 6.208 |
| 147 | A person engages in sexual acts in return for money. | 6.086 |
| 148 | A woman engages in sexual acts in return for money. | 5.994 |
| 149 | A person trespasses on private property. | 5.970 |
| 150 | A person commits adultery. | 5.903 |
| 151 | A person buys liquor illegally. | 5.676 |
| 152 | A person intentionally shoves or pushes someone. | 5.617 |
| 153 | A person disturbs the neighborhood with loud, noisy behavior. | 5.538 |
| 154 | A person participates in illegal gambling. | 5.508 |
| 155 | A person possesses marijuana. | 4.918 |
| 156 | . A person is a customer in a house of prostitution. | 4.824 |

| Rank | Crime Description | Mean |
|------|--|-------|
| 157 | A person refuses to pay parking fees. | 4.642 |
| 158 | A juvenile breaks a curfew law. | 4.640 |
| 159 | A person is drunk in public. | 4.549 |
| 160 | A person uses marijuana. | 4.523 |
| 161 | Two people willingly engage in a homosexual act. | 4.348 |
| 162 | A person loiters in a public place. | 4.221 |

TABLE 2: Rank-order of 162 offense descriptions based on the median.

| Ran | k Crime Description | <u>Median</u> |
|-----|---|---------------|
| 1 | A person plants a bomb in a building. | 14.797 |
| 2 | A person impulsively kills a stranger. | 14.792 |
| 3 | A person plans to kill someone for a fee. | 14.773 |
| 4 | A person sets fires to an occupied building. | 14.772 |
| 5 | A person shoots and kills someone who resists an armed robbery. | 14.739 |
| - 6 | A person intentionally injures someone who, as a result, dies. | 14.731 |
| . 7 | A person shoots someone with a gun. | 14.706 |
| . 8 | A person assassinates a public official. | 14,673 |
| 9 | A person sexually assaults a woman. | 14.619 |
| 10 | Without using a weapon, a juvenile beats an elderly person. | 14.618 |
| 11 | A person kills someone during a serious argument. | 14.612 |
| 12 | A person forces a woman to submit to sexual intercourse, then flees with property belonging to her. | 14.611 |
| 13 | A person forces a woman to submit to sexual intercourse | 14.566 |
| 14 | A person stabs someone with a knife. | 14.549 |
| 15 | A person kidnaps someone. | 14.505 |
| 16 | A person sets fires to a building. | 14.496 |
| 17 | A person tries to entice a minor into a car for sexual purposes. | 14.361 |
| 18 | A person kills someone during a barroom free-for-all. | 14.291 |
| | | |

| Rank | Crime Description | Median. | - |
|------|--|---------|---|
| 19 | A person kills someone by recklessly driving an automobile. | 14.264 | |
| 20 | A producer knowingly endangers lives by marketing contaminated products. | 14.243 | |
| 21 . | A person fires a gun at someone. | 14.016 | |
| 22 | A person practices medicine without a license. | 13.968 | |
| 23 | A person hijacks an airplane. | 13.870 | |
| 24 | A parent of a young child neglects to care for it. | 13.833 | |
| 25 | A person forces another to engage in a homosexual act. | 13.759 | |
| 26 | A person sells large quantities of illegal drugs. | 13.617 | |
| 27 | A manufacturer knowingly endangers lives by polluting the water supply. | 13.363 | |
| 28 | Without using a weapon, the parent of a young child beats it. | 13.315 | |
| 29 | A person, armed with a weapon, robs a bank. | 13.078 | |
| 30 | An employer orders an employee to commit a serious crime. | 13.045 | |
| 31 | A person, armed with a weapon, robs a store. | 12.963 | |
| 32 | A police officer knowingly makes a false arrest. | 12.961 | |
| 33 | Without using a weapon, a person beats his wife. | 12.677 | |
| 34 | A person, armed with a weapon, robs someone. | 12.601 | |
| 35 | A government official intentionally obstructs the investigation of a criminal offense. | 12.565 | |
| 36 | A person attempts to prevent someone from attending a public school because of that person's race. | 12.549 | |
| 37 | A person strikes someone with a blunt instrument. | 12.470 | |
| 38 | A person sells heroin. | 12.439 | |
| | | | |

| Rank | Crime Description . | <u>Median</u> | | | - |
|----------|--|---------------|-----------|--|--------|
| 39 | An employer refuses to hire a qualified person because of that person's race. | 12.380 | Rank | Crime Description | Median |
| : 40 · | | 12.300 | 61 | A person, using force, robs a store. | 11.082 |
| 40 | A public official takes public funds for personal use. | 12.357 | 62 | A person willingly helps another commit a crime. | 11.019 |
| 41 | A real estate agent refuses to sell a house to a person because of that person's race. | 12.278 | 63 | A person embezzles company money. | 10.982 |
| 42 | A person pays a witness to give false testimony in a criminal trial. | 12.226 | 64 | A person, using threats, robs someone. | 10.801 |
| 43 | A person manufactures large quantities of | | 65 | A person possesses heroin. | 10.744 |
| | illegal drugs. | 12.105 | 66 | A person breaks into a private residence and with no one else present, steals something. | 10.681 |
| 44 | A public official accepts bribes in return for favors. | 12.074 | 67 | A person prints counterfeit money. | 10.672 |
| 45 | A person threatens someone's life. | 12.038 | 68 | A person knowingly passes counterfeit money. | 10.604 |
| 46 | Without using a weapon, a person beats someone. | 11.966 | 69 | A person, using threats, robs a store. | 10.559 |
| 47 | | | 70 | A person intimidates a witness in a court case. | 10.491 |
| 47 48 | A person commits treason. A person drives a car while drunkrs through | 11.862 | 71 | A person illegally sells barbiturates ("downers") or amphetamines ("uppers"). | 10.435 |
| | negligent property maintenance | 11.861 | 72 | A person breaks into and enters a private | |
| . 49 | A person endangers the lives of others through negligent property maintenance. | 11.851 | | residence. | 10.419 |
| 50 | A person pays someone to commit a crime. | 11.842 | 73 | A person sells hallucinogenic drugs. | 10.375 |
| 51 | A person, involved in an automobile accident, | • | 74 | A person impersonates a police officer. | 10.307 |
| | leaves the scene. | 11.667 | 75 | A person illegally receives monthly welfare payments. | 10.250 |
| 52 | A person blackmails someone. | 11.625 | 76 | A person trespasses on private property and | |
| 53 | A person commits incest. | 11.618 | | steals something. | 10.129 |
| 54 | $\boldsymbol{\Lambda}$ person smuggles large quantities of illegal drugs. | 11.605 | 77 | A person uses a forged prescription to obtain drugs. | 10.096 |
| 55 | A person knowingly cashes stolen payroll checks. | 11.330 | 78 | A person uses heroin. | 10.063 |
| 56 | A person, using force, robs someone. | 11.263 | 79 | A person conceals the identity of someone known to have committed a serious crime. | 10.060 |
| 57 | A person steals a car and abandons it damaged. | 11.215 | 80 | | |
| 58 | A person signs someone else's name to a check | 0.400 | | A person vandalizes private property. | 10.050 |
| | and cashes it. | 8.409 | 81 | A person snatches someone's handbag. | 9.893 |
| 59 | A doctor cheats on claims made to a health insurance plan for patient services. | 11.139 | 82 | A person lends money at illegal interest rates. | 9.879 |
| 60 | A person bribes a public official to obtain favors. | 11,137 | 83 | A person steals money from a store while the owner is not looking. | 9.877 |
| | | | | | |

Table 2 (Cont'd)

| Rank | Crime Description | Median | Rank | Crime Description | Median . |
|------|---|--|------|---|----------|
| 84 | A person loots a store in a riot. | 9.837 | 107 | A person attempts to break into a parked | 0.200 |
| 85 | A person possesses an illegal weapon. | 9.732 | 100 | car, but runs away when a police car approaches. | 8.388 |
| 86 | A person breaks into and enters a store. | 9.534 | 108 | Without breaking into or entering a building and with no one else present, a person steals something. | 8.371 |
| 87 | A person breaks into a store and with no one else present steals something. | 9.531 | 109 | A person knowingly gives false information when advertising a product. | |
| 88 | A person illegally possesses barbiturates ("downers") or amphetamines ("uppers"). | 9.402 | 110 | A person breaks into and enters a building. | 8.349 |
| 89 | A person vandalizes public property. | 9.392 | 111 | A person knowingly sells stolen goods. | 8.323 |
| 90 | A person picks someone's pocket. | 9.236 | 112 | A juvenile takes a car for "joyriding". | 8.318 |
| 91 | A person threatens someone with bodily harm. | 9.079 | 113 | A person turns in a false fire alarm. | 8.296 |
| 92 | A person breaks into a building and with no one else present, steals something. | 9.071 | 114 | A person sells liquor to minors. | 8.268 |
| 93 | A person trespasses on public property and | | 115 | A person steals something from a public building. | 8.267 |
| | steals something. | 8.983 | 116 | A person shows pornographic movies to a minor. | 8.236 |
| 94 | A person willingly commits perjury. | 8.913 | 117 | A person exposes his genitals in public. | 8.233 |
| 95 | A person attempts to rob someone but leaves when a police car approaches. • | 8.870 | 118 | A person steals merchandise from a store while | 0.200 |
| 96 | A person interferes with a police officer. | 8.854 | 110 | the owner is not looking. | 8.209 |
| 97 | A person steals something from a parked car. | 8.656 | 119 | A person steals a car and abandons it undamaged. | |
| 98 | A person uses hallucinogenic drugs. | 8.576 | 120 | A person fixes prices on a consumer product. | 8,169 |
| 99 | A person possesses hallucinogenic drugs. | 8.554 | 121 | A person, upon arriving home, kills a suspected burglar. | 8.117 |
| 100 | A person willingly hides someone who has committed a crime. | 8.498 | 122 | A person joins a riot. | 8.104 |
| 101 | A person illegally uses barbiturates ("downers") or amphetamines ("uppers"). | 8.468 | 123 | A person uses false identification to obtain goods from a store. | 8.097 |
| 102 | A person knowingly writes worthless checks. | 8.461 | 124 | A person runs his hands over a woman's body, then runs away. | 8.049 |
| | | | 125 | A person smuggles goods to avoid paying import duties. | 7.975 |
| 103 | A person gives illegal drugs to an acquaintance. | 8.409 | 126 | A person engages in homosexual acts for money. | 7.940 |
| 104 | A person steals a car. | 8.395 | 127 | A person runs a house of prostitution. | 7.911 |
| 105 | A juvenile is beyond parental control. | 8.391 | 128 | A person resists arrest. | 7.869 |
| 106 | A person attempts to break into a building, but | | 129 | A person gives liquor to a minor. | 7.835 |
| | runs away when a police car approaches. | 8,389 | 130 | A person makes obscene phone calls. | 7.782 |
| | | the state of the s | | | |

Table 2 (Cont'd)

| Rank | Crime Description | Median |
|------|---|--------|
| 131 | A person possesses stolen property. | 7.761 |
| 132 | A person runs an illegal gambling operation. | 7.743 |
| 133 | A person knowingly buys stolen property. | 7.687 |
| 134 | A person refuses to pay alimony. | 7.659 |
| 135 | A juvenile is repeatedly truant. | 7.655 |
| 136 | A person sells liquor illegally. | 7.584 |
| 137 | A person uses someone else's driver's license. | 7.321 |
| 138 | A person solicits for prostitution. | 7.233 |
| 139 | A juvenile repeatedly runs away from home. | 7.198 |
| 140 | A person joins a prohibited demonstration. | 7.042 |
| 141 | A juvenile illegally possesses liquor. | 6.810 |
| 142 | A person operates a car with a suspended driver's license. | 6.733 |
| 143 | A person operates a car without insurance coverage. | 6.147 |
| 144 | A person has no residence and no visible means of support. | 6.000 |
| 145 | A person possesses burglary tools. | 5.992 |
| 146 | A person sells marjuana. | 5.875 |
| 147 | A person engages in sexual acts in return for money. | 5.654 |
| 148 | A person trespasses on private property. | 5.623 |
| 149 | A person buys liquor illegally. | 5.511 |
| 150 | A woman engages in sexual acts in return for money. | 5.366 |
| 151 | A person participates in illegal gambling. | 5.231 |
| 152 | A person intentionally shoves or pushes someone. | 5.141 |
| 153 | A person disturbs the neighborhood with loud, noisy behavior. | 4.981 |
| 154 | A person commits adultery. | 4.778 |

| Rank | Crime Description | Median |
|------|--|--------|
| 155 | A person refuses to pay parking fines. | 3.879 |
| 156 | A person is drunk in public. | 3.830 |
| 157 | A person possesses marijuana. | 3.700 |
| 158 | A juvenile breaks a curfew law. | 3.519 |
| 159 | A person is a customer in a house of prostitution. | 3.235 |
| 160 | A person loiters in a public place. | 2.983 |
| 161 | A person uses marijuana. | 2.921 |
| 162 | Two people willingly engage in a homosexual act. | 1.661 |

TABLE 3: Rank-order of 162 offense descriptions based on the geometric mean.

| | | | • | Rank | Crime Description | Geometric Nean |
|--------------|---|-------------------|----------|------|--|-------------------|
| | | | : | 20.5 | A person kills someone during a barroom free-for-all. | 12.642 |
| | | | | 20.5 | A person hijacks an airplane. | 12.642 |
| Rank | Crime Description | Geometric Mean | | 22 | A person tries to entice a minor into a car for sexual purposes. | 12.541 |
| ı | A person plants a bomb in a building | 14.112 | | 23 | A parent of a young child neglects to | 12.541 |
| , 2 | A person sets fires to an occupied building. | 14.069 | | | care for it. | 12.528 |
| , 3 , | A person intentionally injures someone who, as a result, dies. | 13.915 | | 24 | A person, armed with a weapon, robs a store. | 12.317 |
| 4 | A person shoots someone with a gun. | 13.832 | | 25 | A person, armed with a weapon, robs a bank. | 12.231 |
| 5 6 | A person plans to kill someone for a fee. A person impulsively kills a stranger. | 13.818 13.749 | | 26 | A person practices medicine without a license. | 12.207 |
| 7 | A person kills someone during a serious agrument. | 13.504 | | 27 | An employer orders an employee to commit a serious crime. | 12.061 |
| 8 | Without using a weapon, a juvenile beats an elderly person. | 13.491 | | 28 | A manufacturer knowingly endangers lives by polluting the water supply. | 12.037 |
| 9 | A person stabs someone with a knife. | 13.383 | | 29 | A person, armed with a weapon, robs someone. | 11.989 |
| 10 | A person kidnaps someone. | 13.356 | | 30 | A person forces another to engage in a homosexual act. | 11.870 |
| 11 | A person forces a woman to submit to sexual intercourse, then flees with property belonging to her. | 13.316 | | 31 | A police officer knowingly makes a false arrest. | 11.496 |
| 12 | A person sexually assaults a woman. | 13.290 | | 32 | A person strikes someone with a blunt instrument. | 11.485 |
| 13 | A person sets fires to a building. | 13.263 | | 33 | A person sells large quantities of illegal | |
| 14 | A person shoots and kills someone who resists an armed robbery. | 13.197 | | | drugs. | 11.450 |
| 15 | A person forces a woman to submit to sexual intercourse. | 13.158 | | 34.5 | A government official intentionally obstructs the investigation of a criminal offense. | 11.382 |
| 16 | A person kills someone by recklessly driving an automobile. | 12,884 | | 34.5 | A public official takes public funds for personal use. | 11,382 |
| 17 | A producer knowingly endangers lives by marketing contaminated products. | 12.871 | • | 36 | A person pays a witness to give false testimony in a criminal trial. | 11.134 |
| 18 | A person fires a gun at someone. | 12.833 | | 37.5 | Without using a weapon, a person beats his wife. | 11 001 |
| 19 | A person assassinates a public official. | 12.730 | | | 110 1110 | 11.001 |

| ank | Crime Description | Geometric Mean | Rank | Crime Description | <u>Mean</u> |
|----------|--|-------------------|-----------|--|-------------|
| | | | 58.5 | A person drives a car while drunk. | 10.074 |
| 7.5 9 | A person pays someone to commit a crime. A person attempts to prevent someone | 11.001 | 58.5 | A person signs someone else's name to a check and cashes it. | 10.074 |
| | from attending a public school because of that person's race. | 10.837 | 60.5 | A person bribes a public official to obtain favors. | 9.895 |
| 0.5 | A person endangers the lives of others through negligent property maintenance. | 10.762 | 60.5 | A person embezzles company money. | 9.895 |
| 0.5 | A person threatens someone's life. | 10.762 | 62 | A person, using threats, robs a store. | 9.885 |
| 2 | An employer refuses to hire a qualified person because of that person's race. | 10.644 | 63 | A person smuggles large quantities of illegal drugs. | 9.855 |
| 3 | A person, using force, robs someone. | 10.591 | 64 | A person breaks into a private residence and with no one elese present, steals | |
| 14 | A public official accepts bribes in return for favors. | 10.580 | 1 | something. | 9.806 |
| 5 | A person blackmails someone. | 10.528 | 65 | A doctor cheats on claims made to a health insurance plan for patient services. | 9.699 |
| 6 | A person, involved in an automobile accident, leaves the scene. | 10.517 | 66 | A person knowingly passes counterfeit money. | 9.602 |
| 7 | A person, using force, robs a store. | 10.423 | 67.5 | A person trespasses on private property | 3.002 |
| 8 . | Without using a weapon, a person beats someone. | 10.360 | | and steals something. | 9.507 |
| 9 | A person sells heroin. | 10.350 | 67.5 | A person breaks into and enters a private residence. | 9.507 |
| 0 | A person manufactures large quantities | 10, 200 | 69 | A person prints counterfeit money. | 9.356 |
| | of illegal drugs. | 10.280 | 70 | A person vandalizes private property. | 9.253 |
| 1.5 | A person knowingly cashes stolenpayroll checks. | 10.268 | 71 | A person intimidates a witness in a court case. | 9.244 |
| 1.5 | A person steals a car and abandons it damaged. | 10.268 | 72 | A person snatches someone's handbag. | 9.171 |
| 3 . | Without using a weapon, the parent of a | 10.227 | 73 | A person impersonates a police officer. | 9.079 |
| | young child beats it. | 10.227 | 74 | A person commits incest. | 9.034 |
| 4.5 | A real estate agent refuses to sell a house to a person because of that person's race. | 10.186 | 75 | A person steals money from a store while the owner is not looking. | 8.989 |
| 54.5 | $\boldsymbol{\Lambda}$ person willingly helps another commit a crime. | 10.186 | 76 | A person conceals the identity of someone known to have committed a serious crime. | 8.837 |
| 6 | A person commits treason. | 10.166 | 77 | A person breaks into and enters a store. | 8.793 |
| 7 | A person, using threats, robs someone. | 10.085 | 78 | A person uses a forged prescription to obtain drugs. | 0./33 |

| | | · · | Geometric | | Rank | Crime Description | Geometric Hean | • |
|-----------------------------|--------|---|-----------|-------------|------------|--|---|---|
| | Rank . | <u>Crime Description</u> | Mean | | | | 7 727 | |
| | 79 | A person willingly commits perjury. | 8.715 | | 101 | A person knowingly sells stolen goods. | 7.737 | |
| | 80 | A person vandalizes public property. | 8.688 | t | 102.5 | Without breaking into or entering a building and with no one else present, a person steals something. | 7.660 | |
| | 81 | A person illegally receives monthly welfare payments. | 8.645 | • • | 102.5 | A person steals something from a public | | |
| | 82 | A person illegally sells barbiturates ("downers") or amphetamines ("uppers"). | 8.611 | | 104 | <pre>building. A juvenile takes a car for "joyriding".</pre> | 7.660 7.629 | |
| | 83 | A person possesses heroin. | 8.602 | | 105 | A person attempts to break into a | | |
| • | 84.5 | A person breaks into a store and with no one else present, steals something. | 8.534 | | 100 | building, but runs away when a police car approaches. | 7.614 | |
| | 84.5 | A person trespasses on public property and steals something. | 8.534 | | 106 | A person attempts to break into a parked car, but runs away when a police car approaches. | 7.606 | : H ₁ |
| | 86 | A person breaks into a building and with no one else present, steals something. | 8.525 | | 107 | A person knowingly gives false information when advertising a product. | 7.576 | |
| | 87 | A person picks someone's pocket. | 8.432 | | 108 | A person turn in a false fire alarm. | 7.448 | |
| | 88 | A person loots a store in a riot. | 8.390 | | 109 | A person steals merchandise from a store while the owner is not looking. | 7.434 | |
| | 89 | A person sells hallucinogenic drugs. | 8.373 | | 110 | A person illegally possesses barbiturates ("downers") or amphetamines ("uppers") | 7.382 | |
| | 90 | A person lends money at illegal interest rates. | 8.348 | | 111 | A person sells liquor to minors. | 7.279 | |
| | 91 | A person possesses an illegal weapon. | 8.298 | | 112 | A juvenile is beyond parental control. | 7.236 | |
| | 92 | A person steals something from a parked car. | 8.150 | | . 113 | A person uses hallucinogenic drugs. | 7.207 | |
| | 93.5 | A person steals a car. | 8.125 | | 114 | A person fixes prices on a consumer product. | 7.171 | |
| | 93.5 | A person threatens someone with bodily harm. | 8.125 | | 115 | A person possesses hallucinogenic drugs. | 7.128 | |
| | 95 | A person interferes with a police officer. | 8.117 | | 116 | A person steals a car and abandons it undamaged. | 7.121 | Total Control |
| | 96 | A person attempts to rob someone but leaves when a police car approaches. | 7.941 | : : : | 117 | A person illegally uses barbiturates ("downers") or amphetamines ("uppers"). | 7.043 | |
| | 97 | A person willingly hides someone who has committed a crime. | 7.893 | | 118 | A person uses false identification to obtain goods from a store. | 7.038 | |
| Section (April 1997) | 98 | A person knowingly writes worthless checks. | 7.838 | | 119 | A person shows pornographic movies to a minor. | 6.931 | |
| Transcription of the second | 99 | A person uses heroin. | 7.783 | | 120 | A person gives illegal drugs to an acquaintance. | 6.848 | |
| | 100 | A person breaks into and enters a | 7.760 | | | The control of the co | r Select Salls haddler garden av Selvenbergarien ag n | at a copy to construction consent to system for the Constitution of the |

Table 3 (Cont'd)

| Rank | Crime Description | Geometric Mean |
|------|--|-------------------|
| 121 | A person joins a riot. | 6.801 |
| 122 | A person exposes his genitals in public. | 6.780 |
| 123 | A person possesses stolen property. | 6,600 |
| 124 | A person smuggles goods to avoid paying import duties. | 6.567 |
| 125 | A person resists arrest. | 6.534 |
| 126 | A person runs his hands over a woman's body, then runs away. | 6.456 |
| 127 | A person gives liquor to a minor. | 6.360 |
| 128 | A person makes obscene phone calls. | 6.246 |
| 129 | A person, upon arriving home, kills a suspected burglar. | 6.203 |
| 130 | A person knowingly buys stolen property. | 5.956 |
| 13] | A person runs a house of prostitution. | 5.883 |
| 132 | A person runs an illegal gambling operation. | 5.877 |
| 133 | A person sells liquor illegally. | 5.865 |
| 134 | A juvenile is repeatedly truant. | 5.824 |
| 135 | A person refuses to pay alimony. | 5.778 |
| 136 | A person engages in homosexual acts for money. | 5.714 |
| 137 | A juvenile illegally possesses liquor. | 5.430 |
| 138 | A person joins a prohibited demonstration. | 5.398 |
| 139 | A juvenile repeatedly runs away from home. | 5.382 |
| 140 | A person uses someone else's driver's license. | 5.265 |
| 141 | A person operates a car with a suspended driver's license. | 5.249 |
| 142 | A person solicits for prostitution. | 5.186 |
| 143 | A person operates a car without insurance coverage. | 4.914 |

| Rank | Crime Description | <u>Geometric</u> Mean |
|------|---|--------------------------|
| 144 | A person possesses burglary tools. | 4.693 |
| 145 | A person trespasses on private property. | 4.572 |
| 146 | A person sells marijuana. | 4.442 |
| 147 | A person has no residence and no visible means of support. | 4.437 |
| 148 | A person disturbs the neighborhood with loud, noisy behavior. | 4.336 |
| 149 | A person engages in sexual acts in return for money. | 4.315 |
| 150 | A person buys liquor illegally. | 4.310 |
| 151 | A person intentionally shoves or pushes someone. | 4.263 |
| 152 | A woman engages in sexual acts in return for money. | 4.216 |
| 153 | A person participates in illegal gambling. | 4.035 |
| 154 | A person commits adultery. | 3.900 |
| 155 | A person refuses to pay parking fines. | 3.425 |
| 156 | A juvenile breaks a curfew law. | 3.357 |
| 157 | A person is drunk in public. | 3.320 |
| 158 | A person possesses marijuana. | 3.241 |
| 1 59 | A person is a customer in a house of prostitution. | 3.102 |
| 160 | A person loiters in a public place. | 2.918 |
| 161 | A person uses marijuana. | 2.889 |
| 162 | Two people willingly engage in a homosexual act. | 2.540 |

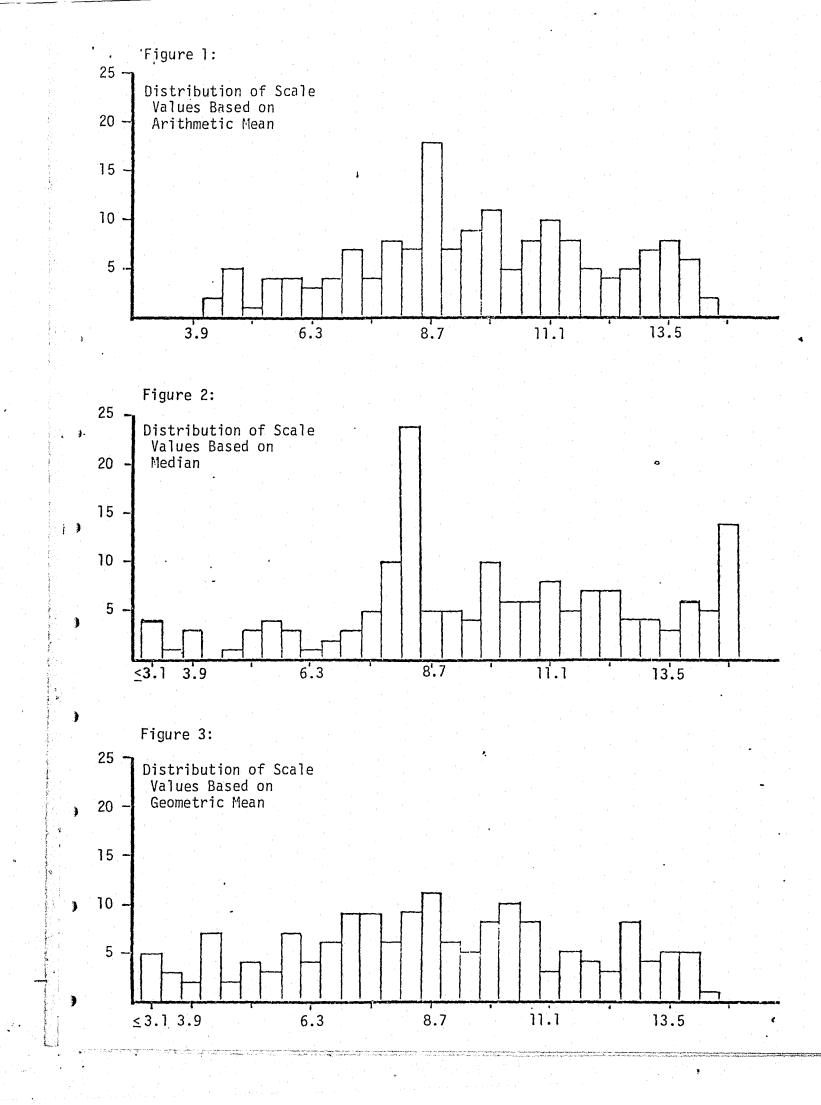


Table 4: Rank-order of 162 Offense Descriptions Based on Rescaled Means. (Successive Interval Rescaling).

| Rank | Crime Description | Rescaled Mean | Standard Deviation | Std.Error of Mean | Rank | Crime Description | Rescaled Mean | Standard Deviation | Std.Erroi |
|-------|---|------------------|-----------------------|----------------------|------|---|------------------|-----------------------|-----------|
| 1 | A person impulsively kills a stranger. | 2.593 | 1.517 | .120 | 21 | A person fires a gun at someone. | 1.615 | 1.117 | .088 |
| 2 | A person shoots and kills someone who resists an armed robbery. | 2.576 | 1.760 | .139 | 22 | A person practices medicine without a license. | 1.567 | 1.340 | .106 |
| 3 | A person plants a bomb in a | 41070 | 7.700 | . 103 | 23 | A person hijacks an airplane. | 1.530 | 1.120 | .008 |
| | building. | 2.478 | 1.220 | .096 | 24 | A person forces another to engage in a homosexual act. | 1.529 | 1.403 | .111 |
| | A person plans to kill someone for a fee. | 2.424 | 1.357 | .107 | 25 | A parent of a young child neglects to care for it. | 1 500 | | |
| · ' · | A person sets fires to an occupied building. | 2.338 | 1.150 | .091 | 26 | A person sells large quantities of | 1.509 | 1.141 | .090 |
| | A person intentionally injures | | | | | illegal drugs. | 1.498 | 1.549 | .122 |
| | A person shouts someone with a gun. | 2.273 | 1.190 | .094 | 27 | A manufacturer knowingly endangers lives by polluting the water supply. | 1.375 | 1.200 | .095 |
| | A person assassinates a public | 2.213 | 1.179 | .093 | 28 | Without using a weapon, the parent of a young child beats it. | 1.304 | 1.804 | .142 |
| | official. | 2.184 | 1.674 | .132 | 29 | An employer orders an employee to | 1.304 | 7.004 | •••• |
| | Without using a weapon, a juvenile heats an elderly person. | 2.023 | 1.190 | .094 | | conmit a serious crime. | 1.250 | 1.047 | .083 |
| 0 | A person sexually assaults a woman. | 1.959 | 1.240 | .098 | 30 | A person, armed with a weapon, robs a bank. | 1.240 | .961 | .075 |
| | A person forces a woman to submit to sexual intercourse. | 1.928 | 1.278 | .101 | 31 | A person, armed with a weapon, robs a store. | 1.197 | .852 | .067 |
| 2 : | A person forces a woman to submit to sexual intercourse, then flees with property belonging to her. | 1.902 | 1.194 | .094 | 32 | A police officer knowingly makes a false arrest. | 1.184 | 1.203 | .095 |
| 3 | A person kills someone during a serious argument. | 1.899 | 1.090 | .086 | 33 | Without using a weapon, a person beats his wife. | 1.103 | 1.292 | .102 |
| 1 | A person stabs someone with a knife. | 1.803 | 1.061 | .084 | 34 | A person, armed with a weapon, robs someone. | 1.077 | .840 | .066 |
| 5 | A person kidnaps someone. | 1.780 | 1.037 | .082 | 35 | A person attempts to prevent someone | | | |
| 5 | A person sets fire to a building. | 1.737 | 1.050 | .083 | • | from attending a public school because of that person's race. | 1.066 | 1.329 | .105 |
| 7 | A person tries to entice a minor into a car for sexual purposes. | 1.698 | 1.324 | .104 | 36 | A government official intentionally obstructs the investigation of a | : | | |
| В | Λ person kills someone during a barroom free-for-all. | 1.677 | 1.267 | .100 | 37 | An employer refuses to hire a qualified | | 1.094 | .086 |
| 9 | A producer knowingly endangers lives by marketing contaminated products. | 1.654 | 1.140 | .090 | | person because of that person's race. | 1.028 | 1.347 | .106 |
| 0. | A person kills someone by recklessly driving an automobile. | 1.650 | 1.137 | .090 | | | | | |
| | • • | | | | | | | | |

| Rank | Crime Description | Rescaled Mean | Standard Deviation | Std.Error of Mean | Rank | Crime Description | Rescaled Mean | Standard Deviation | Std.Error of Mean |
|------|--|------------------|-----------------------|----------------------|------|--|------------------|-----------------------|----------------------|
| 38 | A public official takes public funds for personal use. | 1.018 | 1.044 | .082 | 56 | A person, using force, robs someone. | .646 | .833 | .066 |
| 39 | A person strikes someone with a blunt instrument. | 1.004 | .976 | .077 | 57 | A person signs someone else's name to a check and cashes it. | .637 | 1.062 | .081 |
| 40 | - A person sells heroin. | 1.000 | 1.436 | .113 | 58 | A person steals a car and abandons it damaged. | .622 | .945 | .075 |
| 41 | A person pays a witness to give false testimony in a criminal trial. | .975 | 1.089 | .086 | 59 | A doctor cheats on claims made to a health insurance plan for patient services. | .605 | 1.161 | .075 |
| 42 | A real estate agent refuses to sell a house to a person because of that person's race. | | 1.454 | .115 | 60 | A person bribes a public official to obtain favors. | .592 | 1.062 | .084 |
| 43 | A public official accepts bribes in return for favors. | .882 | 1.194 | .094 | 61 | A person, using force, robs a store. | . 586 | .806 | .064 |
| 44 | A person manufactures large quantities of illegal drugs. | .864 | 1.296 | .102 | 62 | A person willingly helps another commit a crime. | .562 | .889. | .070 |
| 45 | A person threatens someone's life. | .860 | 1.085 | .086 | 63 | A person embezzles company money. | .531 | .970 | .076 |
| 46 | A person pays someone to commit a crime. | .849 | .972 | .077 | 64 | A person, using threats, robs someone. | .530 | .876 | .069 |
| 47 | Without using a weapon, a person beats someone. | .845 | 1.226 | .097 | 65 | A person knowingly passes counterfeit money. | .500 | 1.051 | .083 |
| 48 | A person endangers the lives of others through negligent property | | | | 66 | A person prints counterfeit money. | .474 | 1,107 | .087 |
| 49 | maintenance. A person drives a car while drunk. | .827 .790 | 1.055 | .083 | 67 | A person breaks into a private residence and with no one else present, steals something. | .467 | .697 | .071 |
| 50 | A person commits treason. | .782 | 1.218 | .096 | 68 | A person, using threats, robs | | | |
| 51 | A person, involved in an automobile accident, leaves the scene. | .775 | 1.076 | .085 | 60 | a store. | .461 | .859 | .068 |
| 52.5 | A person blackmails someone. | .738 | 1.013 | .080 | 69 | A person impersonates a police officer. | .441 | 1.181 | .093 |
| 52.5 | A person commits incest. | .738 | 1.619 | .128 | 70 | A person possesses heroin. | .437 | 1.365 | .108 |
| 54 | A purson snuggles large quantities of illegal drugs. | .724 | 1.275 | .100 | 71' | A person intimidates a witness in a court case. | .429 | 1.077 | .079 |
| 55 | A person knowingly cashes stolen | | | | 72 | A person breaks into and enters a private residence. | .402 | .925 | .073 |
| | payroll checks. | .663 | 1.018 | .080 | 73 | . A person sells hallucinogenic drugs. | .380 | 1.403 | .111 |

| <u>Ra</u> | nk Cı | rime Description | Rescaled <u>Mean</u> | Standard Deviation | Std. Error of Mean | • | Rank | Crime Description | Rescaled Mean | Standard Deviation | Std.Error of Mean |
|-----------|----------|---|-------------------------|-----------------------|-----------------------|---|----------|---|---------------|-----------------------|----------------------|
| 74 | b | person illegally sells arbiturates ("downers") or mphetamines ("uppers"). | 277 | 1 074 | 100 | | 92 | A person picks someone's pocket. | .126 | .932 | .074 |
| 75 | A | person trespasses on private | .377 | 1.274 | | | 93 | A person breaks into a building and with no one else present, steals something. | .120 | .862 | .070 |
| 76 | . A | roperty and steals something. person illegally receives | .371 | .877 | .069 | | 94 | A person illegally possesses barbiturates ("downers") or | | | |
| 77 | | onthly welfare payments. | .361 | 1.226 | .097 | | | amphetamines ("uppers"). | .085 | 1.354 | .107 |
| 77 | t t | person uses a forged prescription o obtain drugs. | .351 | 1.190 | .094 | | 95 96 | A person uses hallucinogenic drugs. A person interferes with a police | .081 | 1.451 | .114 |
| 78 | | person vandalizes private roperty. | .316 | .902 | .071 | | | officer. | .067 | .962 | .076 |
| . 79 | | person snatches someone's | .301 | .912 | .072 | | 97 | A person knowingly writes worthless checks. | .046 | 1.081 | .085 |
| 80 | À | person conceals the identity of one one known to have committed a | 1 | | | | 98 | A person willingly hides someone who has committed a crime. | .044 | 1.056 | .083 |
| | S | erious crime. | .300 | 1.060 | .084 | | 99 | A person possesses hallucinogenic drugs. | .034 | 1.414 | .111 |
| 81 | | person uses heroin. | . 263 | 1.486 | .117 | | 100 | A person steals something from a | | | |
| 82 | | person steals money from a store hile the owner is not looking. | .256 | .906 | ,071 | | 101 | parked car. A person steals a car. | .023 | .879 .898 | .069 |
| 83 | | person lends money at illegal nterest rates. | .216 | 1.133 | .089 | | 102 | A person attempts to rob someone | .022 | | |
| 84 | A | person willingly commits perjury. | .207 | .965 | .076 | | | but leaves when a police car approaches. | .012 | .910 | .074 |
| 85 | | person possesses an illegal weapon. | .205 | 1.119 | .088 | | 103 | A person turns in a false fire alarm. | .003 | 1.210 | .095 |
| 86 | | person loots a store in a riot. | .187 | 1.046 | .082 | | 104 | A person knowingly gives false | | | |
| 87 88 | | person vandalizes public property. person breaks into and enters a | .168 | .901 | .071 | | | information when advertising a product. | 002 | 1.133 | .080 |
| | S | tore. | .165 | .835 | .066 | | 105 | A person illegally uses barbiturates ("downers") or amphetamines | 004 | 1.368 | .108 |
| 89 | | person threatens someone with bodily arm. | .136 | 1.102 | .087 | | 106 | ("uppers"). A juyenile is beyond parental contro | 1 _ 021 | 1.249 | .098 |
| 90 | | person trespasses on public property nd steals something. | , .135 | .909 | .072 | | 107 | A person shows pernographic movies | 6 = 10¢1 | | |
| 91 | A | person breaks into a store and with | | | | | | to a minor. | 031 | 1.421 | .112 |
| 3 | n | o one else present, steals something. | .133 | .887 | .070 | | 108 | A person sells liquor to minors. | 038 | 1.184 | .093 |

Į.

| Rank | Crime Description | Rescaled <u>Mean</u> | Standard Deviation | Std.Error of Mean | | Rank | Crime Description | Rescaled Mean | Standard Deviation | Std.Error of Mean |
|------|---|-------------------------|-----------------------|----------------------|---|------|--|------------------|-----------------------|-------------------|
| 109 | A person attempts to break into a parked car, but runs away when a police car approaches. | 040 | 1,005 | .079 | • | 127 | A person engages in homosexual acts for money. | 290 | 1.696 | .134 |
| 110 | A juvenile takes a car for "joyriding". | 046 | 1.011 | .080 | | 128 | A person runs a house of prostitution. | -,307 | 1.451 | .114 |
| 111 | A person gives illegal drugs to an acquaintance. | 055 | 1.361 | .107 | | 129 | A person makes obscene phone calls. | ~.317 | 1.230 | .100 |
| 112 | Without breaking into or entering | • | | | | 130 | A person resists arrest. | 350 | .944 | .074 |
| | a huilding and with no one else present, a person steals something. | 060 | .952 | .075 | | 131 | A person possesses stolen property. | 361 | .889 | .070 |
| 113 | A person knowingly sells stolen goods. | 072 | .894 | .070 | | 132 | A person runs an illegal gambling operation. | 427 | 1.132 | .089 |
| 114 | A person steals something from a public building. | 073 | .927 | .073 | | 133 | A person refuses to pay alimony. | 437 | 1.201 | .095 |
| 115 | A person exposes his genitals in public. | 081 | 1.396 | .110 | | 134 | A person knowingly buys stolen property. | 449 | 1.067 | .084 |
| 116 | A person breaks into and enters | 001 | 1.030 | | | 135 | A juvenile is repeatedly truant. | 461 | 1.119 | .088 |
| 110 | a building. | 086 | .851 | .067 | | 136 | A person sells liquor illegally. | 464 | 1.085 | .086 |
| 117 | A person attempts to break into a building, but runs away when a | | .907 | .072 | | 137 | A juvenile repeatedly runs away from home. | 547 | 1.271 | .100 |
| | police car approaches. | - ,090 | .907 | .0/2 | | 138 | A person solicits for prostitution | 554 | 1.427 | .112 |
| 119 | A person fixes prices on a consumer product. | 132 | 1.055 | .083 | | 139 | A person uses someone else's driver's license. | 580 | 1.281 | .101 |
| 119 | A person steals merchandise from a store while the owner is not looking. | 148 | .886 | .070 | | 140 | A juvenile illegally possesses liquor. | 590 | 1.143 | .090 |
| 120 | A person steals a car and abandons it undamaged. | 167 | 1.003 | .079 | | 141 | A person joins a prohibited demonstration. | 592 | 1.069 | .084 |
| 121 | A person runs his hands over a woman's body, then runs away. | 193 | 1.336 | .105 | | 142 | A person operates a car with a suspended driver's license. | 635 | 1.135 | .089 |
| 122 | A person, upon arriving home, kills a suspected burglar. | 195 | 1.497 | .118 | | 143 | A person operates a car without insurance coverage. | 698 | 1,297 | .102 |
| 123 | A person uses false identification to obtain goods from a store. | 197 | .992 | .078 | | 144 | A person has no residence and no visible means of support. | 701 | 2.430 | .192 |
| 124 | A person joins a riot, | 204 | 1.091 | .086 | | 145 | A person possesses burglary tools. | 774 | 1.198 | .094 |
| 125 | A person smuggles goods to evoid paying import duties. | 258 | 1.113 | .088 | | • | | | | |
| ••• | | 070 | 1 000 | 000 | | | | | | |

A person gives liquor to a minor. -.278

| Rank | Crime Description | Rescaled Mean | Standard Deviation | Std.Error of Mean |
|------|---|------------------|-----------------------|----------------------|
| 146 | A person sells marijuana. | 812 | 1.485 | .117 |
| 147 | A person trespasses on private property. | 834 | 1.122 | .088 |
| 148 | A person engages in sexual acts in return for money. | 864 | 1.441 | .114 |
| 149 | A woman engages in sexual acts in return for money. | 899 | 1.446 | .114 |
| 150 | A person buys liquor illegally. | 920 | 1.086 | .086 |
| 151 | A person disturbs the neighborhood with loud, noisy behavior. | 945 | 1.067 | .084 |
| 152 | A person intentionally shoves or pushes someone. | 947 | 1.147 | .090 |
| 153 | A person participates in illegal gambling. | 994 | 1.170 | .092 |
| 154 | A person commits adultery. | -1.016 | 1.750 | .138 |
| 155 | A person refuses to pay parking fines. | -1.251 | 1.076 | .085 |
| 156 | A juvenile breaks a curfew law. | -1.287 | 1.175 | .093 |
| 157 | A person is drunk in public. | -1.299 | 1.128 | .089 |
| 158 | A person possesses marijuana. | -1.338 | 1.543 | .122 |
| 159 | A person is a customer in a house of prostitution. | -1.447 | 1.698 | .134 |
| 160 | A person loiters in a public place. | -1,497 | 1.291 | .102 |
| 161 | A person uses marijuana. | -1.562 | 1.660 | .131 |
| 162 | Two people willingly engage in a homosexual act. | -2.038 | 2.326 | . 183 |

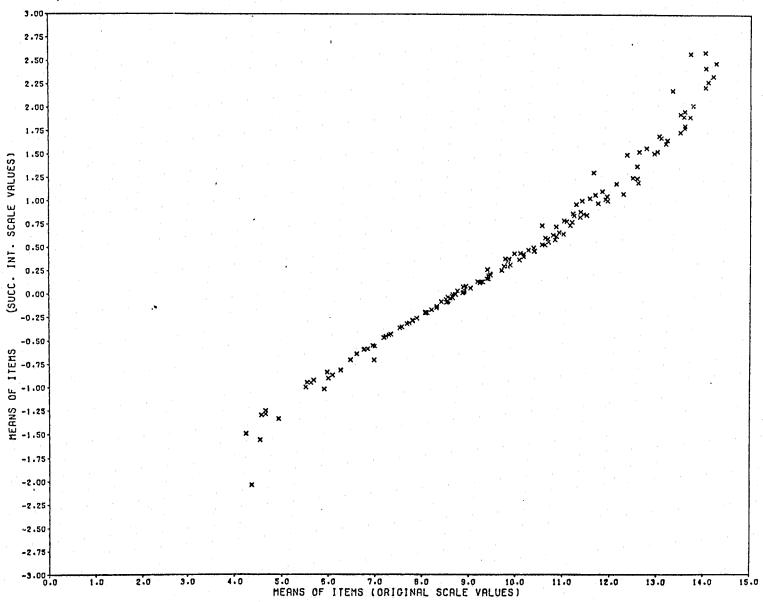
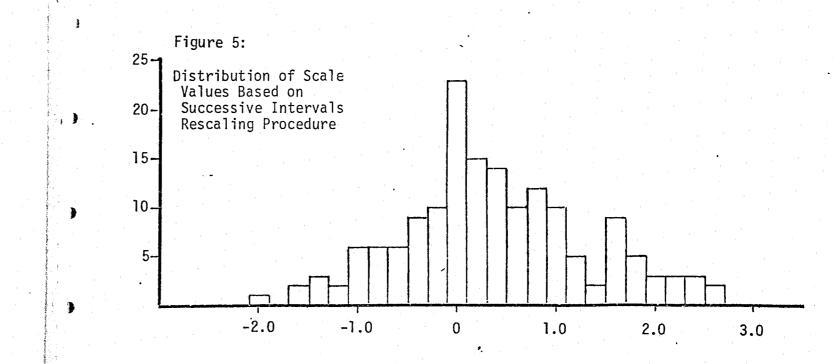
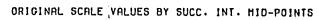


Figure 4: Joint distribution of item means (original scale values) and item means based on the successive intervals rescaling procedure.





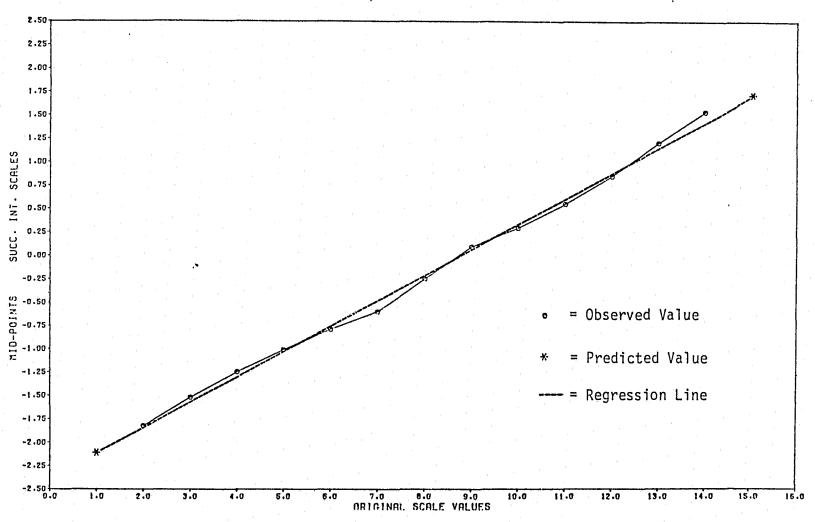


Figure 6: Regression of original score values to mid-points of the rescaled score values.

TABLE 5: Rank-order of 162 offense descriptions based on rescaled means. (Successive Intervals Approximation).

| Rank | Crime Description | Rescaled <u>Mean</u> | Standard Deviation | <u>Ştd.Error</u> <u>of Mean</u> | | Rank | Crime Description | Rescaled <u>Hean</u> | Standard Deviation | Std.Error of Mean |
|------|---|-------------------------|-----------------------|------------------------------------|-----|------|--|-------------------------|-----------------------|--|
| 1 | A person plants a bomb in a building. | 1.514 | .446 | .014 | | 20 | A person kills someone during a barroom free-for-all. | 1.186 | .746 | .024 |
| 2 , | A person sets fires to an occuped building. | 1.499 | .455 | .014 | | 21 | A person tries to entice a minor into a car for sexual purposes. | 1.174 | .770 | .024 |
| 3, | A person intentionally injures someone who, as a result, dies. | 1.469 | .490 | .015 | | 22 | A person hijacks an airplane. | 1.166 | .713 | .022 |
| 4 | A person shoots someone with a gun. | 1.454 | .504 | .016 | | 23 | A parent of a young child neglects to care for it. | 1.144 | .727 | .023 |
| 5 | A person plans to kill someone for a fee. | 1.451 | .545 | .017 | | 24 | A person forces another to engage in a homosexual act. | 1.059 | .871 | .027 |
| 6 . | A person impulsively kills a stranger. | 1.446 | .583 | .018 | | 25 | A person, armed with a weapon, robs a store. | 1.055 | .650 | .020 |
| 7 | Without using a weapon, a juvenile beats an elderly person. | 1.380 | .573 | .018 | • | 26 | A person, armed with a weapon, robs a bank. | 1.046 | .706 | .023 |
| 8 | A person shoots and kills someone who resists an armed robbery. | 1.361 | .720 | .023 | | 27 | A manufacturer knowingly endangers lives by polluting the water supply. | 1.044 | .807 | .025 |
| 9 | A person kills someone during a serious argument. | 1.359 | . 569 | .018 | | 28 | An employer orders an employee to | 1.017 | .755 | .024 |
| 10 | A person kidnaps someone. | 1.331 | .577 | .018 | | | commit a serious crime. | 1.017 | | |
| 11 | A person stabs someone with a knife. | 1.330 | .584 | .019 | | 29 | A person practices medicine without a license. | 1.100 | .822 | .026 |
| 12 | A person sexually assaults a woman. | 1.328 | .637 | .020 | | 30 | A person sells large quantities of illegal drugs. | .984 | .955 | .030 |
| 13 | A person forces a woman to submit to sexual intercourse, then flees with property belonging to her. | 1,321 | .630 | .020 | | 31 | A person, armed with a weapon, robs someone. | .962 | .681 | .021 |
| 14 | A person forces a woman to submit to sexual intercourse. | 1.304 | .669 | .021 | • | 32 | A police officer knowingly makes a false arrest. | .921 | .868 | .028 |
| 15 | A person sets fires to a building. | 1.303 | .603 | .019 | | 33 | A person strikes someone with a blunt instrument. | .868 | .782 | .024 |
| 16 | A person assassinates a public official. | 1.253 | .804 | .025 | , . | 34 | government official intentionally obstructs the investigation of a | | | COLUMN TO A COLUMN |
| 17 | A producer knowingly endangers lives by marketing contaminated products. | 1.225 | .680 | .021 | | | criminal offense. | .861 | .846 | .027 |
| 18 | A purson kills someone by recklessly driving an automobile. | 1.223 | 584 | .021 | | 35 | A public official takes public funds for personal use. | .851 | .824 | .026 |
| 19 | A person fires a gun at someone. | 1.221 | .676 | .021 | | 36 | Without using a weapon, a person beat his wife. | .836 | .937 | .030 |
| · . | | | | | | | | | | • |

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| Rank | Crime Description | Rescaled <u>Mean</u> | Standar Deviatio | 200.1 | Error Mean | Rank | Crime Description | Rescaled | Standard | Std.Error |
|----------|--|-------------------------|---------------------|--------|----------------|------|--|--------------|-----------|------------------|
| 27 | | | | | | | | Mean | Deviation | of Hean |
| 37 | A person pays a witness to give false testimony in a criminal trial. | .810 | .855 | .02 | , , | 56 | A person steals a car and abandons it damaged. | | | |
| 38 | A person attempts to prevent someone from attending a public school | | | .02 | ., | 57 | A person, using force, robs a store. | .564 | 839 | .026 |
| | because of that person's race. | .794 | .972 | .03 | 1 | 53 | A person signs sommone elects name | .548 | .751 | .024 |
| 39 | Without using a weapon, the parent of a young child beats it. | .791 | 1,120 | | | 59 | to a check and cashes it. | .543 | .921 | .029 |
| . 40 | An employer refuses to hire a qualified person because of that | •231 | 1.132 | .03 | 5 | | A person bribes a public official to obtain favors. | .513 | .926 | .030 |
| | person's race. | .763 | .990 | .031 | · · · · · · | 60 | A person willingly helps another commit a crime. | .510 | 010 | |
| 4,1 | A person pays someone to commit a crime. | .737 | .820 | .026 | | 61 | A doctor cheats on claims made to a health insurace plan for patient | .515 | .818 | .026 |
| 42 | A person threatens someone's life. | .726 | .881 | .028 | | | services. | .499 | .981 | .031 |
| 43 | A person sells heroin. | .721 | 1.041 | .034 | | 62 | A person, using threats, robs someone. | .489 | .803 | 026 |
| | A public official accepts bribes in return for favors. | .710 | .943 | .030 | | 63 | A person commits incest. | .487 | 1.183 | .026 |
| 45 | A person endangers the lives of others through negligent property | | | ₹ .030 | • | 64 | A person embezzles company money. | .478 | .872 | .028 |
| 46 | Maintenance. A real estate agent refuses to sell | 705 | .877 | .028 | | 65 | A person breaks into a private residence and with no one else present, steals something. | 422 | | ST SARE SARES ON |
| | a house to a person because of that person's race. | .684 | 1.063 | | | 66 | A person knowingly passes counterfeit | .433 | .832 | .026 |
| 47 | Without using a weapon, a person beats | | 1,005 | .033 | | 67 | A person, using threats, robs a store. | .428 | .933 | .069 |
| 48 | A persun manufactures large cuantitates | .672 | .970 | .030 | | 68 | A person prints counterfeit money. | .426 .401 | .805 | .025 |
| 40 | or riregal drugs. | .669 | 1.003 | .032 | | 69 | A person intimidates a witness in a | .401 | .972 | .031 |
| 49 | A person, involved in an automobile accident, leaves the scene. | .657 | .897 | 000 | | 70 | A person breaks into and enters a | .369 | .958 | .03 |
| 50 | A person blackmails someone. | .645 | .851 | .029 | | | private residence. | .367 | -856 | .027 |
| 51 | A person commits treason. | .628 | .981 | .031 | | 71 | A person impersonates a police officer. | .354 | 1.022 | |
| 52 53 | A person drives a car while drunk. | .615 | 1.016 | .033 | | 72 | A person trespasses on private | | F.V26 | .032 |
| 54 | A person, using force, robs someone. | .600 | .759 | .759 | | 73 | property and steals something. A person possesses heroin. | .342 | .829 | .026 |
| | A person knowingly cashes stolen payroll checks. | .579 | .883 | .028 | | 74 | A person illegally solls banks | | 1.123 | .035 |
| 55 | A person snuggles large quantities of illegal drugs. | . 665 | 1.022 | 033 | | | ("downers") or amphetamines ("uppers"). | .289 | 1.084 | .035 |

| | | | | | * . | | | | | • |
|----------|--|------------------|-----------------------|----------------------|-----|------|---|-------------------------|-----------------------|-----------|
| Rank | Crime Description | Rescaled Mean | Standard Deviation | Std.Error of Mean | • | Rank | . Crime Description | Rescaled <u>Mean</u> | Standard Deviation | Std.Error |
| 75 | A person vandalizes private property. | .286 | .854 | .027 | | 95 | A person illegally possesses | | | |
| 76 | A person illegally receives monthly welfare payments. | . 283 | 1.060 | .033 | | | barbiturates ("downers") or amphetamines ("uppers"). | .036 | 1.154 | .036 |
| 77 | A person uses a forged prescription to obtain drugs. | .279 | 1.042 | .033 | | 96.5 | A person uses hallucinogenic drugs. | .022 | 1.201 | .038 |
| 78 | A person snatches someone's handbag. | .271 | .863 | .028 | | 96.5 | A person willingly hides someone who has committed a crime. | .022 | .984 | .031 |
| 79 | A person sells hallucinogenic drugs. | .268 | 1.149 | .037 | | 98 | A person knowingly writes worthless | .019 | 1.000 | .031 |
| 08 | A person conceals the identity of someone known to have committed a serious crime. | .253 | .253 | .963 | | 99 | checks. A person steals something from a parked car. | .019 | .854 | .037 |
| 81 | A person steals money from a store while the owner is not looking. | .238 | .861 | .027 | | 100 | A person attempts to rob someone but leaves when a police car approaches. | | .902 | .029 |
| 82 | A person lends money at illegal interest rates. | .174 | 1.022 | .033 | | 101 | A person steals a car. | .007 | .868 | .027 |
| 83 | A person willingly commits perjury. | .171 | .914 | .02 | | 102 | A person possesses hallucinogenic drugs. | 014 | 1.187 | .038 |
| 84 | A person uses heroin. | .167 | 1.202 | .038 | | 103 | A person knowingly gives false | | | |
| . 85 | A person possesses an illegal weapon. | .164 | 1.013 | .032 | | | information when advertising a product. | 026 | 1.037 | .033 |
| 87 87 | A person loots a store in a riot. A person breaks into and enters | .162 | .969 | .031 | | 104 | A person turns in a false fire alarm. | 032 | 1.081 | .034 |
| 6/ | a store. | .152 | .811 | .026 | | 105 | A person illegally uses | | | |
| 38 | Λ person vandalizes public property. | .146 | .862 | .027 | | | barbiturates ("downers") or amphetamines ("uppers"). | 039 | 1.167 | .037 |
| 89 | A person breaks into a store and with no one else present steals smoothing. | .122 | .851 | .027 | | 106 | A juvenile is beyond parental control. | 048 | 1.106 | .035 |
| 90 | A person trespasses on public property and steals something. | .116 | .871 | .027 | | 107 | A person attempts to break into a parked car, but runs away when a police car approaches. | 049 | .950 | .030 |
| 91.5 | A person picks someone's pocket. | .108 | .886 | .028 | | 108 | A juvenile takes a car for | 050 | 067 | 010 |
| 91.5 | A person breaks into a building and with so one else present, steals something. | .108 | .850 | .027 | | 109 | "joyriding". A person sells liquor to minors. | 058 062 | .957 1.072 | .030 |
| 93 | A person threatens someone with bodily harm. | .102 | 1.010 | .032 | | 110 | Without breaking into or entering a building and with no one else present, a person steals something. | ~. 068 | .913 | .029 |
| 94 | A person interferes with a police officer. | .053 | .915 | .029 | | • | | • | | • |
| | | | | | | | | | | |

| lank | Crime Description | Rescaled Mean | Standard Deviation | Std.Error of Mean | | Rank | Crime Description | Rescaled <u>Mean</u> | Standard Deviation | Std.Frro of Mean |
|------|--|------------------|-----------------------|----------------------|---|------|--|-------------------------|-----------------------|---------------------|
| 11 | A person shows pornographic movies to a minor. | 069 | 1.199 | .037 | | 128 | A person runs a house of prostitution | 1291 | 1.212 | .038 |
| 112 | A person knowingly sells stolen | 077 | 067 | 020 | | 129 | A person makes obscene phone calls. | 304 | 1.102 | .035 |
| | goods. | 077 | .867 | .028 | | 130 | A person resists arrest. | 342 | .908 | .028 |
| 13 | A person gives illegal drugs to an acquaintance. | 080 | 1.168 | .037 | | 131 | A person possesses stolen property. | 356 | .866 | .027 |
| 14 | A person steals something from a public huilding. | 082 | .890 | .028 | | 132 | A person runs an illegal gambling operation. | 405 | 1.043 | .033 |
| 15 | A person breaks into and enters a building. | 089 | .833 | .027 | | 133 | A person refuses to pay alimony. | 412 | 1.079 | .034 |
| 16 | A person attempts to break into a building, but runs away when a police | | 202 | 000 | | 134 | A person knowingly buys stolen property. | 429 | .993 | .031 |
| | car approaches. | 091 | .882 | .028 | | 135 | A juvenile is repeatedly truant. | 439 | 1.026 | .032 |
| 17 | A person exposes his genitals in public. | 106 | 1.185 | .037 | | 136 | A person sells liquor illegally. | 447 | 1.001 | .031 |
| 18 | A person fixes prices on a consumer product. | 140 | .990 | .031 | | 137 | A person has no residence and no visible means of support. | 486 | 1.473 | .046 |
| 19 | A person steals merchandise from a store while the owner is not looking. | 148 | .864 | .028 | | 138 | A person solicits for prostitution. | 490 | 1.190 | .037 |
| 20 | A person steals a car and abandons it undamaged. | 170 | .951 | .030 | | 139 | A juvenile repeatedly runs away from home. | 503 | 1.107 | .035 |
| 21 | A person runs his hands over a | | 1.159 | .036 | | 140 | A person uses someone else's driver's license. | 531 | 1.112 | .035 |
| 22.5 | woman's body, then runs away. A person, upon arriving home, kills | 196 | | | | 141 | A juvenile illegally possesses liquor. | -,550 | 1.031 | .033 |
| 22.5 | a suspected burglar. A person uses false identification | 197 | 1.234 | .039 | | 142 | A person joins a prohibited demonstration. | 560 | .990 | .032 |
| | to obtain goods from a store. | 197 | .947 1.016 | .030 | • | 143 | A person operates a car with a | 507 | 1 010 | .032 |
| 24 | A person Joins a riot. | 204 | 1.010 | .032 | | | suspended driver's license. | 597 | 1.018 | .032 |
| 25 | A person smuggles goods to avoid paying import duties. | 254 | 1.031 | .033 | | 144 | A person operates a car without insurance coverage. | 629 | 1.105 | .035 |
| 26 | A person engages in homosexual acts for money. | 268 | 1.309 | .042 | | 145 | A person sells marijuana. | 686 | 1.185 | .037 |
| | | 270 | 1.118 | .036 | | 146 | A person possesses burglary tools. | 702 | 1.049 | .034 |
| 27 | A person gives liquor to a minor. | -, ∠/U | 1.110 | .030 | | 147 | A person engages in sexual acts in return for money. | 734 | 1.157 | .036 |

| | Rank | | Crime Description | Rescaled <u>Mean</u> | Standard Deviation | Std.Error of Mean |
|---|-------|---|---|-------------------------|-----------------------|----------------------|
| | 148 | · | A woman engages in sexual acts in return for money. | 760 | 1.154 | .036 |
| | 149 | | A person trespasses on private property. | 766 | .998 | .031 |
| | 150 | | A person commits adultery. | 781 | 1.259 | .040 |
| | 151 | | A person buys liquor illegally. | 849 | .961 | .030 |
| • | 152 | | A person intentionally shoves or pushes someone. | 860 | .986 | .031 |
| | 153 | | A person disturbs the neighborhood with loud, noisy behavior. | 881 | .929 | .029 |
| | 154 | | A person participates in illegal gambling. | 895 | .999 | .031 |
| | 155 | | A person possesses marijuana. | -1.050 | 1.113 | .035 |
| | 156 | | A person is a customer in a house of prostitution. | -1.075 | 1.151 | .037 |
| | 157.5 | | A juvenile breaks a curfew law. | -1.123 | .937 | .030 |
| | 157.5 | | A person refuses to pay parking fines. | -1.123 | .891 | .028 |
| | 159 | | A person is drunk in public. | -1.148 | .904 | .029 |
| | 160 | | A person uses marijuana. | -1.157 | 1.109 | .035 |
| | 161 | | Two people willingly engage in a homosexual act. | -1.204 | 1.234 | .040 |
| | 162 | | A person loiters in a public place. | -1.236 | .948 | . 230 |

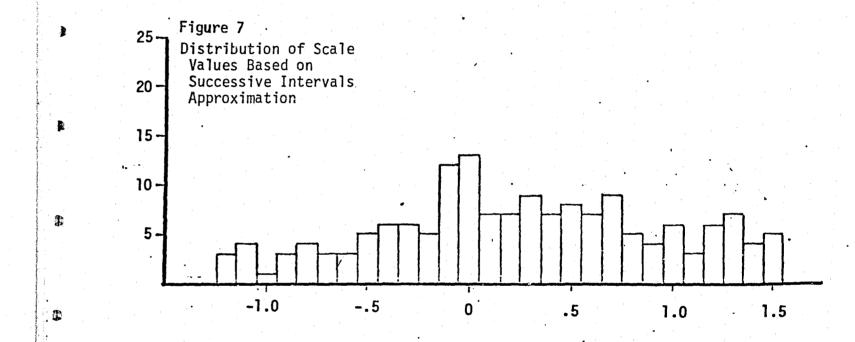


TABLE 6: Comparison of the rank-order of scale values based on five measures of central tendency.

Rank Based On:

Rank Based On:

| Crime Description | Arithmetic Mean | Median | Geometric Mean | Rescaled Mean 1 | Rescaled Mean 2 | Crime Description | Arithmetic <u>Mean</u> | Median | Geometric Mean | Rescaled Mean 1 | Rescaled Hean 2 |
|--|--------------------|--------------|-------------------|--------------------|--------------------|--|---------------------------|--------|-------------------|--------------------|--------------------|
| A person plants a bomb in a building. | 1 | , 1 . | . 1 | . 3 | 1 | A person tries to entice a minor into a | | | | | |
| A person sets fire to an occupied building. | 2 | 4 | 2 | 5 | 2 | car for sexual purposes. | . 21 | 17 | 22 | 17 | 21 |
| A person intentionally injures someone who, | | | _ | | | A person hijacks an airplane. | . 22 | 23 | 20.5 | 23 | 22 |
| as a result, dies. | 3 | 6 | 3 . | 6 | 3 | A parent of a young child neglects to care for it. | 23 | 24 | 23 | 25 | 23 |
| A person plans to kill someone for a fee. | 4 | 3 | . 5 . | 4 | 5 | A person forces another to engage in | | | | | • |
| A person shorts someone with a gun. | . 5 | 7 | 4 | 7 | .4 | a homosexual act. | 24 | 25 | . 30 | 24 | 24 |
| A person impulsively kills a stranger. | 6 | 2 | 6 | 1 . | 6 | A person practices medicine without a license. | 25 | 22 | 26 | 22 | 29 |
| Without using a wearon, a juvenile beats an elderly person. | 7 | 10 | 8 | 9 | 7 | A person, armed with a weapon, robs | 26 | 21 | 24 | 31 | 25 |
| A person shoots and kills someone who resists an armed robbery. | 8 | 5 | 14 | 2 . | 8 | a store. | 26 | 31 | 24 | 31 | 20 |
| | | | | | | A manufacturer knowingly endangers lives by polluting the water supply. | 27 | 27 | 28 | 27 | 27 |
| A person kills someone during a serious argument. | 9 | 111 | 7 | 13 | 9 | A person, armed with a weapon, robs a bank. | 28 | 29 | 25 | 30 | 26 |
| A person sexually assaults a woman. | 10.5 | 9 | 12 | 10 | 12 | | 20 | | . 23 | . 30 | |
| A person stabs someone with a knife. | 10.5 | 14 | . 9 | 14 | , 11. | An employer orders an employee to commit; a serious crime. | 29 | 30 | 27 | . 29 | 28 |
| A person kidnaps someone. | 12 | 15 | 10 | . 15 | 10 | A person sells large quantities of illegal drugs. | 30 | 26 | 33 | 26 | 30 |
| A person forces a woman to submit to sexual intercourse, then flees with | | | | | • | | 30 | 20 | | | 30 |
| property belonging to her. | 13 | 12 | 11 | 12 | 13 • | A person, armed with a weapon, robs someone. | 31 | 34 | 29 | 34 | 31 |
| A person forces a woman to submit to sexual intercourse. | 14 | 13 | 15 | ij | 14 | A police officer knowingly makes a false arrest. | 32 | 32 | 31 | 32 | 32 |
| A person sets fires to a building. | . 15 | 16 | 13 | . 16 | 15 | A person strikes someone with a blunt | | | | | |
| A person assassinates a public official. | 16 | 8 | 19 | 8 , | 16 | instrument. | 33 | 37 | 32 | 39 | 33 |
| A producer knowingly endangers lives by marketing contaminated products. | 17 | 20 | . 17 | 19 | 17 | A government official intentionally obstructs the investigation of a criminal offense. | . 34 | 35 | 34.5 | 36 | 34 |
| A person kills someone by recklessly driving an automobile. | 18 | 19 | 16 | 20, | 18 | A public official takes public funds for personal use. | 35 | 40 | 34.5 | 38 | 35 |
| A person fires a gun at someone. | 19 | 21 | 18 | 21 | 19 | Without using a weapon, a person beats his wife. | 36 | 33 | 37.5 | 33 | 36 |
| A person kills someone during a barroom free-for-all. | 20 | 18 | 20.5 | 18 | 20 | A person pays a witness to give false testimony in a criminal trial. | 37 | 42 | 37 | 41 | 37 |

Notes: ¹Based on Successive Intervals Procedure

Based on Successive Intervals Approximation.

Rank Based On:

60.5

52.5

| | | _ |
|------|-------|-----|
| Dank | Racod | On. |

| | | muin p | 4464 0111 | | | |
|--|------------------|---------------|-------------------|--------------------|--------------------|---|
| Crime Description | Arithmet Mean | <u>Hedian</u> | Geometric Mean | Rescaled Mean 1 | Rescaled Mean 2 | Crime Description |
| A person attempts to prevent someone from attending a public school because of that person's race. | 38 | 36 | 39 | 35 | 38 | A person smuggles large quantities of illegal drugs. |
| Without using a weapon, the parent of a young child beats it. | 39 | 28 | 53 | 28 | 39 | A person, using force, robs a store. A person signs someone else's name |
| An employer refuses to hire a qualified person because of that person's race. | 40 | 39 | 42 | 37 | 40 | to a check and cashes it. A person willingly helps another commit a crime. |
| A person pays someone to commit a crime. | 43, | 50 | 37.5 | 46 | 41 | A person bribes a public official to obtain favors. |
| A person threatens someone's life. | 42 | 45 | 40.5 | 45 | 42 | |
| A person sells heroin. | 43 | 38 | 49 | 40 | 43 | A doctor cheats on claims made to a health insurance plan for patient services. |
| A public official accepts bribes in return for favors. | 44 | 44 | 44 | 43 | .44 | A person, using threats, robs someone. |
| A person endangers the lives of others through negligent property maintenance. | 45 | 49 | 40.5 | 48 | 45 | A person commits incest. |
| A real estate agent refuses to sell a house to a person because of that person's race. | 46 | 41 | 54.5 | 42 | 46 | A person embezzies company money. A person breaks into a private residence and with no one else present, steals something. |
| Without using a weapon, a person beats someone. | 47 | 46 | 48 | 47 | 47 | A person, using threats, robs a store. |
| A person manufactures large quantities of illegal drugs. | 48 | 43 | 50 | 44 | 48 | A person knowingly passes counterfeit money. |
| A person, involved in an automobile accident, leaves the scene. | 49 | 51 | 46 | · 51 | 49 | A person prints counterfeit money. |
| A person blackmails someone. | 50 | 52 | 45 | 55,5 | 50 | A person breaks into and enters a private residence. |
| A person commits treason. | 51 | - 47 | 56 | 50 | 51 | A person intimidates a witness in a court case. |
| A person drives a car while drunk. | 52 | - 48 | 58.5 | 49 | 52 | |
| A person, using force, robs someone. | 53 | 56 | 43 | 56 | 53 | A person impersonates a police officer. |
| A person knowingly cashes stolen payrol checks. | 1 54 | 55 | 51.5 | 55 | 54 | A person trespasses on private property and steals something. |
| A person steals a car and abandons it damaged. | 55 | 57 | 51.5 | 58 | 56 | A person possesses heroin. A person vandalizes private property. |
| | | | • | | | |

| Dank | Based | Λ |
|-------|-------|-----|
| MILDY | Daseu | un: |

| | | Rank Ba | sed On: | | | | • | Rank Ba | sed On: | | |
|--|-------------------------|---------------|-------------------|--------------------|--------------------|---|-------------------|---------|-------------------|------------------|--------------------|
| Crime Description | ithmetic <u>Hean</u> | <u>Median</u> | Geometric Mean | Rescaled Mean 1 | Rescaled Mean 2 | Crime Description | rithmetic Mean | Median | Geometric Mean | Rescaled Mean | Rescaled Mean 2 |
| A person illegally sells barbiturates ("downers") or amphetamines ("uppers"). | 75 | 71 | 82 | 74 | 74 | A person willingly hides someone who has committed a crime. | 96 | 100 | 97 | 98 | 96.5 |
| A person illegally receives monthly welfare payments. | 76 | 75 | 81 | 76 | · 76 | A person steals something from a parked car. | 97 | 97 | 92 | 100 | 99 |
| A person uses a forged prescription to obtain drugs. | 77 | 77 | 78 | 77 | 77 | A person knowingly writes worthless checks. | 98 | 102 · | 98 | 97 | 98 |
| A person snatches someone's handbag. | 78 | 81 | 72 | 79 | 78 | A person uses hallucinogenic drugs, | 99 | 98 | 113 | 95 | 96.5 |
| A person sells hallucinogenic drugs. | 79 | 73 | 89 | 73 | 79 | A person steals a car. | 100 | 104 | 93.5 | 101 | 101 |
| A person conceals the identity of someone known to have committed a serious crime. | 80 | 79 | 76 | 80 | 80 | A person attempts to rob someone but leaves when a police car approaches. | 101 | 95 | 96 | 102 | 100 |
| A person steals money from a store | | | | | | A person possesses hallucinogenic drugs. | 102 | 99 | 115 | 99 | 102 |
| while the owner is not looking. | 81 | 83 | 75 | 82 | 81 | A person knowingly gives false information when advertising a product. | n 103 - | 109 | 107 | 104 | 103 |
| A person willingly commits perjury. | 82 | 94 | 79 | 84 | 83 | | | | 108 | | |
| A person lends money at illegal interest rates. | 83 | 82 | 90 | . 83 | 82 | A person turns in a false fire alarm. A person illegally uses barbiturates | 104 | 113 | 108 | 103 | 104 |
| A person possesses an illegal weapon. | 84 | 85 | 91 | 85 | 85 | ("downers") or amphetamines ("uppers"). | 105 | 101 | 117 | 105 | 105 |
| A person loots a store in a riot. | 85.5 | 84 | 88 | 86 | 86 | A person attempts to break into a parked | | | | | |
| A person breaks into and enters a store. | 85.5 | 86 | 77 | 88 | 6 7 | car, but runs away when a police car approaches. | 106 | 107 | 106 | 109 | 107 |
| A person uses heroin. | 87 | 78 | 99 | 81 | 84 | A juvenile is beyond parental control. | . 107 | 105 | 112 | 106 | 106 |
| A person vandalizes public property. | 88 | 89 | 80 | 87 | 88 | A juvenile takes a car for "joyriding." | 108 | 112 | 104 | 110 | 108 |
| A person breaks into a store and with no one else present, steals something. | 89 | 87 | 84.5 | 91 | 89 | Without breaking into or entering a building and with no one else present, a person steals something. | 109 | 108 | 102.5 | 112 | 110 |
| A person trespasses on public property | • | | | | | A person sells liquor to minors. | 110 | 114 | 111 | 108 | 109 |
| and steals something. | 90 | 93 | 84.5 | 90 | 90 , | A person knowingly sells stolen goods. | mi | 111 | 101 | 113 | 112 |
| A person breaks into a building and with no one else present, steals something. | 91 | 92 | 86 | 93 | 91.5. | A person shows pornographic movies to : | • | | | | |
| A person picks someone's pocket. | 92 | 90 | 87 | 92 | 91.5 | a minor. | 112. | . 116 | 119 | 107 | 111 |
| A person threatens someone with bodily harm. | 93 | 91 | 93.5 | 89 | 93 | A person steals something from a public building. | 113 | 115 | 102.5 | 114 | 114 |
| A person interferes with a police officer. | 94 | 96 | 95 | 96 | . 94 | A person breaks into and enters a building | g. 114 | 110 | 110 | 116 | 115 |
| A person illegally possesses barbiturates ("downers") or amphetamines ("uppers"). | 95 | 88 | 110 | 94 | 95 | A person attempts to break into a building but runs away when a police car approache | g. s. 115 | 106 | 105 | 149 | 116 |

| | | _ |
|------|-------|-----|
| Rank | Based | On: |

| | | Rank Ba | sed On: | | | | .! | Rank B | ased On: | | |
|--|--------------------|---------|-------------------|--------------------|--------------------|---|--------------------|--------|-----------|--------------------|--------------------|
| Crime Description | Arithmetic Mean | Median | Geometric Mean | Rescaled Mean 1 | Rescaled Mean 2 | Crime Description | Arithmetic Mean | Median | Geometric | Rescaled Mean 1 | Rescaled Mean 2 |
| A person gives illegal drugs to an acquaintance. | 116 | 102 | 120 | .111 | 113 | A person solicits for prostitution. | 137 | 138 | 142 | 137 | 138 |
| A person exposes his genitals in public | . 117 | 117 | 122 | 115 | 117 | A person has no residence and no visible means of support. | e 138 | 144 | 147 | 143 | 137 |
| A person fixes prices on a consumer product. | 118 | 120 | 114 | 117 | 718 | A juvenile repeatedly runs away from home. | 139 | 139 | 139 | 136 | 139 |
| A person steals merchandise from a store while the owner is not looking. | 119 | 118 | 109 | 118 | 119 | A person uses someone else's driver's license. | 140 | 137 | 140 | 138 | 140 |
| A person steals a car and abandons it undamaged. | 120 | 119 | 116 | 119 | 120 | A juvenile illegally possesses liquor. | 141 | 141 | 137 | 139 | 141 |
| A person uses false identification to | 1 | | - ; • | | . , | A person joins a prohibited demonstration | j on.142 | 140 | 138 | 140 | 142 |
| obtain goods from a store. | 121 | 123 | 118 | 122 | 122.5 | A person operates a car with a suspended driver's license. | 143 | 142 | 141 | 141 | |
| A person runs his hands over a woman's body, then runs away. | 122 | 124 | 126 | 120 | 121 | A person operates a car without | | | | 141 | 143 |
| A person joins a riot. | 123 | 122 | 121 | 123 | 124 | insurance coverage. | 144 | 143 | 143 | 142 | 144 |
| A person, upon arriving home, kills | | | • | | | A person sells marijuana. | 145 | 146 | 146 - | 145 | 145 |
| a suspected burglar. | 124 | 121 | 129 | 121 | 122:5 | A person possesses burglary tools. | 146 | 145 | 144 | 144 | 146 |
| A person smuggles goods to avoid paying import duties. | 125 | 125 | 124 | 124 | 125 | A person engages in sexual acts in return for money. | 147 | 147 | 149 | 147 | 147 |
| A person gives liquor to a minor. | 126 | 129 | 127 | 125 | 127 • | A woman engages in sexual acts in | | | | | |
| A person engages in homosexual acts | | | | | | return for money. | 148 | 150 | 152 | 148 | 148 |
| for money. | 127 | 126 | 136 | 126 | 126 | A person trespasses on private property. | 149 | 148 | 145 | 146 | 149 |
| A person runs a house of prostitution. | 128 | 127 | 131 | 127 | 128 | A person commits adultery. | 150 | 154 | 154 | 154 | 150 |
| A person makes obscene phone calls. | 129 | 130 | 128 | 128 | 129 | A person buys liquor illegally. | 151 | 149 | 150. | 150 | 151 |
| A person resists arrest. | 130 | 128 | 125 | 129 | 130 | A person intentionally shoves or pushes | | | | | |
| A person possesses stolen property. | 131 | 131 | 123 | 130 | 131 | someone. | 152 | 152 | 151 | 152 | 152 |
| A person runs an illegal gambling operation. | 132 | 132 | 132 | 131 | 132 | A person disturbs the neighborhood with loud, noisy behavior. | 153 | 153 | 148 | 151 | 153 |
| A person refuses to pay alimony. | 133 | 134 | 135 | 132 | 133 | A person participates in illegal gambling. | 154 | 161 | 100 | 100 | 364 |
| A person knowingly buys stolen property | | 133 | 130 | 133 | 134 | A person possesses marijuana, | 154 | 151 | 153 | 153 | 154 |
| A juvenile is repeatedly truant. | 135 | 135 | 134 | 134 | 135 | | 155 | 157 | 158 | 158 | 155 |
| | 136 | 136 | 133 | 135 | 136 | A person is a customer in a house of prostitution. | 156 | 159 | 159 | 159 | 156 |
| · Farancial alarma condens considerable . | + | | | | | | | • | | | - 1 |

Table 6 (Cont'd)

Rank Based On:

| Crime Description | Arithmeti Mean | <u>C</u> <u>Median</u> | Geometric Mean | Rescaled Mean T | Rescaled Mean 2 |
|--|-------------------|---------------------------|-------------------|--------------------|--------------------|
| A person refuses to pay parking fees. | 157 | 155 | 155 | 155 | 157.5 |
| A juvenile breaks a curfew law. | 158 | 158 | 156 '' | 156 | 157.5 |
| A person is drunk in public. | 1 59 | 156 | 157 | 157 | 159 |
| A person uses marijuana. | 160 | 161 | 161 | 161 | 160 |
| Two people willingly engage in a homosexual act. | 161 | 162 | 162 | 162 | 161 |
| A person loiters in a public place. | 162 | 160 | 160 | 160 | 162 |

Rank Based On:

| | | | | | 1 | |
|-------------------------------------|--------|--------------------|--------|-------------------|-----------------------------------|-------------------------------|
| Rank Based On: | · • | Arithmetic Mean | Median | Geometric Mean | Rescaled Mean (Succ.Intervals) | Rescaled Mean (approximation) |
| Arithmetic Mean | • | · · · | .997 | .994 | .996 | .999 |
| Median | | | | .989 | .987 | .997 |
| Geometric Mean | | | | - | .987 | .994 |
| Rescaled Mean (successive interval) | | | | | | .996 |
| Rescaled Mean (approximation) | | | | | | |

TABLE 7: Intercorrelations (Spearman's P) of rank-order scale values based on five measures of central tendency (N=162).

Rank Based On:

| | | • | | | · · · | |
|-------------------------------------|----------|--------------------|--------|-------------------|-----------------------------------|-------------------------------|
| Rank Based On: | | Arithmetic Mean | Median | Geometric Mean | Rescaled Mean (Succ.Intervals) | Rescaled Mean (approximation) |
| Arithmetic Mean | | • | .993 | .995 | .987 | .999 |
| Median | | | | .984 | .984 | 993 |
| Geometric Mean | | | | | .980 | .995 |
| Rescaled Mean (successive intervals |) | • | | | • | .988 |
| Rescaled Mean (approximation) | | | • | | | - |

TABLE 8: Intercorrelations of scale values based on five measures of central tendency (N=162).

Appendix C: Replication of Factor Structures

The replicability of factor structures is an important, but often ignored, issue. In general, it has usually been observed that structures fail to replicate beyond the first few components — which typically are large relative to the remainder. Since our sample of subjects is large, we were in a position to examine the replicability of our structures. Accordingly, the subject sample was randomly halved, resulting in two independent samples of sizes 505 and 519. (Since the samples were created using a probabilistically weighted random sample generator, samples are not of precisely the same size.)

Principal Components Solution. Analysis of the n = 505 subsample resulted in a readily interpretable six component solution. Table 1 gives the eigenvalues and proportions of variance explained for each component having an eigenvalue greater than 3, and Table 2 summarizes the structure after Varimax rotation. The components are well defined, and very few items load on more than one component.

The first component, which represents 12% of the variance after rotation, can be interpreted in a number of ways. Many of the offenses which load heavily on this component are "vice"-type crimes: prostitution, gambling, use and possession of marijuana, adultery, homosexual acts, exposures, etc. A second possible interpretation rests on the fact that many of these offenses would fall under the general rubric of "victimless crimes."

Whether victimless crimes or vice-type crimes, an inspection of item means (the last column of figures in the table) shows that in general, people view crimes which loaded on this dimension as relatively non-serious.

The second component (11% of the variance after rotation) involves physical assault, personal harm, and interpersonal confrontation.

The third component (7% of the variance after rotation) represents theft, property damage or loss, and property crimes in general.

The fourth dimension, which also accounts for a substantial portion of the variance after rotation (7%), seems to represent crimes against the social order. In general, these are either crimes which are committed by an agent in power (an employer, a real estate agent, a police officer, a manufacturer, a producer, a doctor, a public official), or are social crimes (i.e., against groups) (racism the pollution of a water supply, the marketing of contaminated products, price-fixing, false advertising), or both. Interestingly, two offenses involving juveniles ("a juvenile repeatedly runs away from home, and "a juvenile is beyond parental control") load on this dimension. At first glance, they are anamolous, but their interpretation is clarified if one assumes that (in some sense, at least) subjects were in effect judging the actions of parents, rather than that of the juveniles. This interpretation is at least consistent with the overall pattern of this dimension.

9

The fifth and sixth dimensions, while relatively small (3% and 4%, respectively, of the variance after rotation) and defined by relatively few items, are nonetheless readily interpretable. Items loading on the fifth-dimension-(with-two-exceptions) all involve serious drug offenses: the sale or manufacture of heroin, hallucinogens, or barbiturates and amphetamines. Items loading in the sixth (and final) dimension by-and-large involve fraud or deception.

Replication. A six-component solution of the remaining subsample (n = 515) was also computed. Table 3 gives the eigenvalues and proportions

of variance explained by each component before and after rotation, and Table 4 summarizes the rotated solution. While the ordering of dimensions is (trivially) different, it is clear from inspection alone that the structures are substantively the same.

In general, there are two empirical approaches to the quesiton of the "fit" of factor (or other) matrices. One involves the rotation of matrices to maximal fit or similarity, and then assessing that similarity using a "congruence" coefficient. The other involves no further rotation, and compares specific dimensions, rather than the entire matrix. The latter is a more conservative approach, and was followed here.

Table 5 gives the coefficients of factorial similarity (Harmon, 1967) observed. Four dimensions (the "vice" or "victimless" dimension, the property dimension the personal harm dimension, and the "crimes against the social order" dimension) clearly replicate very well--coefficients are all above .95. The two smaller dimensions (serious drug offenses and the "fraud" dimension) also replicate well, but somewhat less powerfully-coefficients are both larger that .86.

Thus, our investigation of dimensionality has borne fruit.

At least six clearly defined, readily interpretable, and <u>replicable</u>

dimensions appear to underlie people's judgments of the seriousness of crime.

Table 1
Summary of Principal Components Solution

162 Items, N = 505

| UNROTATED | SOLUTION |
|-----------|----------|
| | |

| Component: | , I | II | III | IV | V | ۷I |
|--------------------------------|-------|-------|--------------|----------------|----------|-------|
| Eigenvalue | 43.59 | 11.00 | 5.81 | 5.16 | 3.61 | 3.12 |
| Cum % Variance Explained | 26.91 | 33.70 | 37.29 | 40.48 | 42.71 | 44.64 |
| | | VARIM | AX ROTATED S | <u>OLUTION</u> | | |
| Component | , I | II | III | IV | V | VI |
| Eigenvalue | 19.98 | 18.15 | 11.76 | 11.05 | 5.41 | 5.94 |
| Cum % Variance Explained | 12.33 | 23.53 | 30.79 | 37.61 | 40.95 | 44.62 |

.

7

3

PRINCIPAL COMPONENTS SOLUTION - 162 OFFENSE DESCRIPTIONS

(N = 505)

| 11 | | | | COMP | ONENT | | | | |
|--|-------|------|-------|-------|-------|------|----------------|---------|---|
| 165 | 1 | 11 | 111 | 17 | ٧ | V1 | h ² | X | OFFENSE DESCRIPTIONS |
| 1.763 .088 .039 .065 .037 .136 .615 .0,7048 A person engages in sexual acts in return for money. | .817 | .119 | .152 | 031 | .041 | .038 | .709 | -0.7200 | A woman engages in sexual acts in return for money. |
| 1.763 .088 .039 .065 .037 .136 .615 .0.7048 A person engages in sexual acts in return for money. | .765 | 104 | .140 | .056 | .114 | .080 | .638 | -0.4385 | A person solicits for prostitution. |
| 152 | | .088 | .039 | 065 | .037 | .136 | .615 | -0.7048 | A person engages in sexual acts in return for money. |
| 1.653 005 1.60 .074 .206 121 .515 -0.2577 A person engages in homosexual acts for money. | .739 | .063 | ,174 | 013 | .095 | 080 | .595 | -1.0595 | A person is a customer in a house of prostitution. |
| 1.647 0.66 | .654 | .081 | .154 | .048 | .462 | .143 | .694 | -0.0217 | |
| | .653 | 005 | .160 | .074 | .206 | 121 | .515 | -0.2577 | A person engages in homosexual acts for money. |
| 132 .001 046 .047 .168 .448 -0.2572 A person runs a house of prostitution. | .647 | .060 | .152 | .135 | 013 | .059 | .467 | -0.7455 | A person commits adultery. |
| 1.624 006 .263 .147 .145 .274 .576 -0.8453 A person buys liquor filegally. | ,646 | 060 | .063 | 036 | .004 | .375 | .567 | -0.9204 | A person participates in illegal gambling. |
| .624 006 .263 .147 .145 .274 .576 -0.8453 A person buys liquor illegally. .624 099 .240 .012 .378 .113 .613 -1.0321 A person possesses marijuana. .615 .003 .193 .085 .147 .250 .507 -0.3872 A person runs an illegal gambling operation. .614 066 .256 .010 .344 .120 .580 -1.1025 A person uses marijuana. .605 .105 .136 .017 .425 .300 .667 0.0531 A person uses marijuana. .588 .107 .168 .139 .562 .053 .723 0.0013 A person illegally possesses barbiturates ("downers") or amphetamines ("uppers"). .588 .107 .168 .139 .562 .053 .723 0.0013 A person illegally possesses barbiturates ("downers") or amphetamines ("uppers"). .589 .112 .206 .058 .115 139 .408 -1.1604 Two people willin | .631 | .132 | .001 | 046 | .047 | .168 | .448 | -0.2572 | A person runs a house of prostitution. |
| .624 099 .240 .012 .378 .113 .613 -1.0321 A person possesses marijuana. .615 .003 .193 .085 .147 .250 .507 -0.3872 A person runs an illegal gambling operation. .614 066 .256 .010 .344 .120 .580 -1.1025 A person uses marijuana. .605 .105 .136 .017 .425 .300 .667 0.0531 A person illegally possesses barbiturates ("downers") or amphetamines ("uppers"). .588 .107 .168 .139 .562 .053 .723 0.0013 A person possesses hallucinogenic drugs. .563 -112 .206 .058 .115 139 .408 -1.1604 Two people willingly engage in a homosexua: act. .553 .130 .082 .083 .388 .258 .565 0.0587 A person uses hallucinogenic drugs. .551 .194 .117 086 .344 .319 .582 -0.1034 A person gives illegal drugs t | - | 006 | .263 | .147 | .145 | .274 | .576 | -0.8453 | A person buys liquor illegally. |
| .614066 .256 .010 .344 .120 .580 -1.1025 A person uses marijuana605 .105 .136 .017 .425 .300 .667 0.0531 A person illegally possesses barbiturates ("downers") or amphetamines ("uppers")588 .107 .168 .139 .562 .053 .723 0.0013 A person possesses hallucinogenic drugs563112 .206 .058 .115139 .408 -1.1604 Two people willingly engage in a homosexual act563 .130 .082 .083 .388 .258 .565 0.0587 A person uses hallucinogenic drugs551 .194 .117086 .344 .319 .582 -0.1034 A person gives illegal drugs to an acquaintance539009 .292 .292 .263 .187 .566 -0.5600 A juvenile illegally possesses liquor523 .175 .117 .045 .509 .036 .580 0.1957 A person uses heroin523 .052 .306 .139 .151 .304 .504 -0.4542 A person sells liquor illegally517042 .207 .039 .444 .129 .527 -0.6552 A person sells marijuana493101 .374 .219 .049029 .444 -1.1502 A person is drunk in public482 .004 .201 .409 .384 .128 .604 -0.2654 A person gives liquor to a minor482067 .207 .453 .100 .101 .504 -0.4266 A juvenile is repeatedly truant476168 .347 .279 .130 .204 .511 -1.1179 A juvenile breaks a curfew law475 .199 .206 .225 .105 .094 .378 -0.0266 A person exposes his genitals in public. | | 099 | .240 | .012 | .378 | .113 | .613 | -1.0321 | A person possesses marijuana. |
| .605 .105 .136 .017 .425 .300 .667 0.0531 A person illegally possesses barbiturates ("downers") or amphetamines ("uppers"). .588 .107 .168 .139 .562 .053 .723 0.0013 A person possesses hallucinogenic drugs. .563 .112 .206 .058 .115139 .408 -1.1604 Two people willingly engage in a homosexus; act. .563 .130 .082 .083 .388 .258 .565 0.0587 A person uses hallucinogenic drugs. .551 .194 .117080 .344 .319 .582 -0.1034 A person gives illegal drugs to an acquaintance. .539009 .292 .292 .263 .187 .566 -0.5600 A juvenile illegally possesses liquor. .523 .175 .117 .045 .509 .036 .580 0.1957 A person uses heroin. .523 .052 .306 .139 .151 .304 .504 -0.4542 A person sells liquor illegally. .517042 .207 .039 .444 .129 .527 -0.6552 A person sells marijuana. .493101 .374 .219 .049029 .444 -1.1502 A person is drunk in public. .482 .004 .201 .409 .384 .128 .604 -0.2654 A person gives liquor to a minor. .483067 .207 .453 .100 .101 .504 -0.4266 A juvenile is repeatedly truant. .476168 .347 .279 .130 .204 .511 -1.1179 A juvenile breaks a curfew law. .475 .199 .206 .225 .105 .094 .378 -0.0266 A person exposes his genitals in public. | .615 | .003 | .193 | .085 | .147 | .250 | .507 | -0.3872 | A person runs an illegal gambling operation. |
| ### ### #### ######################### | 614 | 066 | .256 | .010 | .344 | .120 | .580 | -1.1025 | A person uses marijuana. |
| 1.563 112 .206 .058 .115 139 .408 -1.1604 Two people willingly engage in a homosexus? act. 1.563 .130 .082 .083 .388 .258 .565 0.0587 A person uses hallucinogenic drugs. 1.551 .194 .117 086 .344 .319 .582 -0.1034 A person gives illegal drugs to an acquaintance. 1.539 009 .292 .292 .263 .187 .566 -0.5600 A juvenile illegally possesses liquor. 1.523 .175 .117 .045 .509 .036 .580 0.1957 A person uses heroin. 1.523 .052 .306 .139 .151 .304 .504 -0.4542 A person sells liquor illegally. 1.517 042 .207 .039 .444 .129 .527 -0.6552 A person sells marijuana. 1.493 101 .374 .219 .049 029 .444 -1.1502 A person is drunk in public. 1.482 .004 .201 .409 .384 .128 .604 -0.2654 A person gives liquor to a minor. 1.482 067 .207 .453 .100 .101 .504 -0.4286 A juvenile is repeatedly truant. 1.476 168 .347 .279 .130 .204 .511 -1.1179 A juvenile breaks a curfew law. 1.475 .199 .206 .225 .105 .094 .378 -0.0266 A person exposes his genitals in public. 1.482 .483 .484 .285 .484 .285 .484 .285 .484 .285 .285 .485 .285 .485 .285 | | .105 | .136 | .017 | .425 | .300 | .667 | 0.0531 | A person illegally possesses barbiturates ("downers") or amphetamines ("uppers"). |
| .553 .130 .082 .083 .388 .258 .565 0.0587 A person uses hallucinogenic drugs. .551 .194 .117086 .344 .319 .582 -0.1034 A person gives illegal drugs to an acquaintance. .539009 .292 .292 .263 .187 .566 -0.5600 A juvenile illegally possesses liquor. .523 .175 .117 .045 .509 .036 .580 0.1957 A person uses heroin. .523 .052 .306 .139 .151 .304 .504 -0.4542 A person sells liquor illegally. .517042 .207 .039 .444 .129 .527 -0.6552 A person sells marijuana. .493101 .374 .219 .049029 .444 -1.1502 A person is drunk in public. .482 .004 .201 .409 .384 .128 .604 -0.2654 A person gives liquor to a minor. .482067 .207 .453 .100 .101 .504 -0.4286 A juvenile is repeatedly truant. .476168 .347 .279 .130 .204 .511 -1.1179 A juvenile breaks a curfew law. .475 .199 .206 .225 .105 .094 .378 -0.0266 A person exposes his genitals in public. | .588 | .107 | .168 | .139 | .562 | .053 | .723 | 0.0013 | A person possesses hallucinogenic drugs. |
| .563 .130 .082 .083 .388 .258 .565 0.0587 A person uses hallucinogenic drugs. .551 .194 .117086 .344 .319 .582 -0.1034 A person gives illegal drugs to an acquaintance. .539009 .292 .292 .263 .187 .566 -0.5600 A juvenile illegally possesses liquor. .523 .175 .117 .045 .509 .036 .580 0.1957 A person uses heroin. .523 .052 .306 .139 .151 .304 .504 -0.4542 A person sells liquor illegally. .517042 .207 .039 .444 .129 .527 -0.6552 A person sells marijuana. .493101 .374 .219 .049029 .444 -1.1502 A person is drunk in public. .482 .004 .201 .409 .384 .128 .604 -0.2654 A person gives liquor to a minor. .482067 .207 .453 .100 .101 .504 -0.4286 A juvenile is repeatedly truant. .476168 .347 .279 .130 .204 .511 -1.1179 A juvenile breaks a curfew law. .475 .199 .206 .225 .105 .094 .378 -0.0266 A person exposes his genitals in public. | . 563 | 112 | .206 | .058 | .115 | 139 | .408 | -1.1604 | Two people willingly engage in a homosexual act. |
| .551 .194 .117086 .344 .319 .582 -0.1034 A person gives illegal drugs to an acquaintance539009 .292 .292 .263 .187 .566 -0.5600 A juvenile illegally possesses liquor523 .175 .117 .045 .509 .036 .580 0.1957 A person uses heroin523 .052 .306 .139 .151 .304 .504 -0.4542 A person sells liquor illegally517042 .207 .039 .444 .129 .527 -0.6552 A person sells marijuana493101 .374 .219 .049029 .444 -1.1502 A person is drunk in public482 .004 .201 .409 .384 .128 .604 -0.2654 A person gives liquor to a minor482067 .207 .453 .100 .101 .504 -0.4286 A juvenile is repeatedly truant476168 .347 .279 .130 .204 .511 -1.1179 A juvenile breaks a curfew law475 .199 .206 .225 .105 .094 .378 -0.0266 A person exposes his genitals in public. | | .130 | .082 | .083 | .388 | .258 | .565 | 0.0587 | A person uses hallucinogenic drugs. |
| .539009 .292 .292 .263 .187 .566 -0.5600 A juvenile illegally possesses liquor523 .175 .117 .045 .509 .036 .580 0.1957 A person uses heroin523 .052 .306 .139 .151 .304 .504 -0.4542 A person sells liquor illegally517042 .207 .039 .444 .129 .527 -0.6552 A person sells marijuana493101 .374 .219 .049029 .444 -1.1502 A person is drunk in public482 .004 .201 .409 .384 .128 .604 -0.2654 A person gives liquor to a minor482067 .207 .453 .100 .101 .504 -0.4286 A juvenile is repeatedly truant476168 .347 .279 .130 .204 .511 -1.1179 A juvenile breaks a curfew law475 .199 .206 .225 .105 .094 .378 -0.0266 A person exposes his genitals in public. | | .194 | .117 | 080 | .344 | .319 | .582 | -0.1034 | A person gives illegal drugs to an acquaintance. |
| .523 .175 .117 .045 .509 .036 .580 0.1957 A person uses heroin523 .052 .306 .139 .151 .304 .504 -0.4542 A person sells liquor illegally517042 .207 .039 .444 .129 .527 -0.6552 A person sells marijuana493101 .374 .219 .049029 .444 -1.1502 A person is drunk in public482 .004 .201 .409 .384 .128 .604 -0.2654 A person gives liquor to a minor482067 .207 .453 .100 .101 .504 -0.4286 A juvenile is repeatedly truant476168 .347 .279 .130 .204 .511 -1.1179 A juvenile breaks a curfew law475 .199 .206 .225 .105 .094 .378 -0.0266 A person exposes his genitals in public. | | 009 | .292 | .292 | .263 | .187 | .566 | -0.5600 | A juvenile illegally possesses liquor. |
| .523 .052 .306 .139 .151 .304 .504 -0.4542 A person sells liquor illegally517042 .207 .039 .444 .129 .527 -0.6552 A person sells marijuana493101 .374 .219 .049029 .444 -1.1502 A person is drunk in public482 .004 .201 .409 .384 .128 .604 -0.2654 A person gives liquor to a minor482067 .207 .453 .100 .101 .504 -0.4286 A juvenile is repeatedly truant476168 .347 .279 .130 .204 .511 -1.1179 A juvenile breaks a curfew law475 .199 .206 .225 .105 .094 .378 -0.0266 A person exposes his genitals in public. | | .175 | 1.117 | .045 | .509 | .036 | .580 | 0.1957 | A person uses heroin. |
| .517042 .207 .039 .444 .129 .527 -0.6552 A person sells marijuana. .493101 .374 .219 .049029 .444 -1.1502 A person is drunk in public. .482 .004 .201 .409 .384 .128 .604 -0.2654 A person gives liquor to a minor. .482067 .207 .453 .100 .101 .504 -0.4286 A juvenile is repeatedly truant. .476168 .347 .279 .130 .204 .511 -1.1179 A juvenile breaks a curfew law. .475 .199 .206 .225 .105 .094 .378 -0.0266 A person exposes his genitals in public. | | .052 | .306 | . 139 | .151 | .304 | .504 | -0.4542 | A person sells liquor illegally. |
| 493101 .374 .219 .049029 .444 -1.1502 A person is drunk in public. .482 .004 .201 .409 .384 .128 .604 -0.2654 A person gives liquor to a minor. .482067 .207 .453 .100 .101 .504 -0.4286 A juvenile is repeatedly truant. .476168 .347 .279 .130 .204 .511 -1.1179 A juvenile breaks a curfew law. .475 .199 .206 .225 .105 .094 .378 -0.0266 A person exposes his genitals in public. | | 042 | .207 | .039 | .444 | .129 | .527 | -0.6552 | A person sells marijuana. |
| .482 .004 .201 .409 .384 .128 .604 -0.2654 A person gives liquor to a minor. .482067 .207 .453 .100 .101 .504 -0.4286 A juvenile is repeatedly truant. .476168 .347 .279 .130 .204 .511 -1.1179 A juvenile breaks a curfew law. .475 .199 .206 .225 .105 .094 .378 -0.0266 A person exposes his genitals in public. | | 101 | .374 | .219 | .049 | 029 | .444 | -1.1502 | A person is drunk in public. |
| .482067 .207 .453 .100 .101 .504 -0.4286 A juvenile is repeatedly truant. .476168 .347 .279 .130 .204 .511 -1.1179 A juvenile breaks a curfew law. .475 .199 .206 .225 .105 .094 .378 -0.0266 A person exposes his genitals in public. | | .004 | ,201 | 409 | .384 | .128 | .604 | -0.2654 | A person gives liquor to a minor. |
| .476168 .347 .279 .130 .204 .511 -1.1179 A juvenile breaks a curfew law. .475 .199 .206 .225 .105 .094 .378 -0.0266 A person exposes his genitals in public. | | | .207 | .453 | .100 | .101 | .504 | -0.4286 | A juvenile is repeatedly truant. |
| .475 .199 .206 .225 .105 .094 .378 -0.0266 A person exposes his genitals in public. | | 168 | .347 | .279 | .130 | .204 | .511 | -1.1179 | A juvenile breaks a curfew law. |
| A same A success to making fings | | .199 | .206 | .225 | .105 | .094 | .378 | -0.0266 | A person exposes his genitals in public. |
| | .468 | 164 | . 382 | .152 | .114 | .247 | .488 | -1.1166 | A person refuses to pay parking fines. |

| | | | COM | PONENT | | | | |
|------|-------|-------|-------|--------|-------|-------|---------|---|
| 1 | 11 | 111 | 17 | ۷ . | . ·VI | h2 | X | OFFENSE DESCRIPTIONS |
| .459 | 179 | .275 | .224 | .049 | .158 | .396 | -1.2162 | A person loiters in a public place. |
| 450 | .015 | .415 | .213 | .224 | .142 | .491 | -0.5424 | A person joins a prohibited demonstration. |
| .431 | 006 | .353 | .190 | .000 | .161 | .372 | -0.7450 | A person trespasses on private property. |
| .410 | 040 | .004 | .319 | 050 | .158 | . 299 | -0.4663 | A person has no residence and no visible means of support. |
| .392 | .293 | 023 | .264 | .168 | .077 | .344 | 0.4970 | A person commits incest. |
| .392 | .079 | . 284 | .170 | .305 | .355 | .488 | 0.0684 | A person willingly hides someone who has committed a serious crime |
| .371 | .066 | .337 | .172 | .325 | .188 | .426 | -0.2720 | A person smuggles goods to avoid paying import duties. |
| .365 | .088 | .063 | .292 | .184 | . 390 | .417 | -0.0236 | A person sells liquor to minors. |
| .352 | .186 | .046 | .040 | 112 | .117 | .189 | -0.1866 | A person, upon arriving home, kills a suspected burglar. |
| 005 | .585 | .092 | .195 | .161 | .088 | .423 | 1.4691 | A person intentionally injures someone who, as a result, dies. |
| 053 | .584 | . 249 | .089 | .121 | 120 | .443 | 1.3351 | A person stabs someone with a knife. |
| .170 | .561 | .155 | .206 | .080 | .007 | .417 | 1.3232 | A person forces a woman to submit to sexual intercourse. |
| .099 | . 524 | .004 | 051 | 018 | . 183 | . 321 | 1.3526 | A person kills someone during a serious argument. |
| .029 | .524 | .137 | .133 | .137 | 033 | .332 | 1.1933 | A person kills someone during a barroom free-for-all. |
| 013 | .522 | .127 | .0/3 | .236 | .095 | .359 | 1.4583 | A person plans to kill someone for a fee. |
| .131 | .519 | .196 | . 206 | 004 | 010 | . 367 | 1.3298 | A person sexually assaults a woman. |
| .080 | .502 | .219 | .003 | .164 | 116 | .346 | 1.4607 | A person shoots someone with a gun. |
| .027 | .491 | .115 | .207 | 027 | 023 | .300 | 1.3826 | Without using a weapon, a juvenile beats an elderly person. |
| 028 | .481 | .227 | .276 | .175 | 111 | .402 | 1.3344 | A person forces a woman to submit to sexual intercourse, then flees with property belonging to her. |
| .067 | .470 | .285 | 095 | 143 | .195 | .375 | 0.6450 | Without using a weapon, a person beats someone. |
| .112 | .466 | .170 | 108 | 053 | 047 | .275 | 0.7690 | Without using a weapon, the parent of a young child beats it. |
| .101 | .460 | .284 | .209 | .028 | 054 | .349 | 0.8502 | Without using a weapon, a person beats his wife. |
| .069 | .454 | . 320 | .175 | 030 | .067 | .350 | 0.8585 | A person strikes someone with a blunt instrument. |
| .012 | .454 | .050 | 073 | 102 | .101 | .235 | 1.4585 | A person impulsively kills a stranger. |
| 006 | .446 | .228 | .197 | .240 | .163 | . 374 | 1.3058 | A person sets fire to a building. |
| .033 | .441 | .146 | .173 | .095 | .186 | . 290 | 1.2293 | A person kills someone by recklessly driving an automobile. |

| | | | | COM | PONENT | | | | |
|------|------|-------------|-------------|-------|--------------|-------|----------------|---------|---|
| | 1 | 11 | 111 | 17 | , v , | VI. | h ² | X | OFFENSE DESCRIPTIONS |
| 0 | 013 | .439 | .293 | .065 | .197 | .119 | .336 | 1.2270 | A person interferes with a police officer. |
| 0 |)77 | .437 | .025 | .198 | .079 | .144 | .264 | 1.4912 | A person sets fire to an occupied building. |
| 1 | 62 | <u>.434</u> | .310 | .146 | .265 | .178 | .434 | 1.3150 | A person kidnaps someone. |
| .1 | 143 | .408 | .134 | .359 | .176 | .103 | .376 | 1.1791 | A person tries to entice a minor into a car for sexual purposes. |
| 0 | 71 | .388 | .097 | .149 | .073 | 070 | .197 | 1.4101 | A person shoots and kills someone who resists an armed robbery. |
| .1 | 29 | . 162 . | .777 | .228 | .072 | .005 | .704 | 0.0552 | A person steals something from a parked car. |
| 1 | 147 | . 206 | .749 | .043 | .165 | .160 | .680 | 0.1502 | A person breaks into a store and with no one else present, steals something. |
| , .1 | 175 | .098 | .748 | .176 | . 206 | .056 | .676 | -0.0414 | A person breaks into and enters a building. |
| .1 | 51 | . 187 | .732 | .079 | .116 | .067 | .618 | -0.0758 | A person attempts to break into a building, but runs away when a police car approaches. |
| 1 | 68 | .160 | <u>.719</u> | .126 | .221 | .063 | .639 | 0.1644 | A person breaks into and enters a store. |
| .2 | 238 | . 209 | .693 | .068 | .096 | .116 | .608 | -0.1257 | A person steals merchandise from a store while the owner is not looking. |
| .1 | 43 | .180 | .674 | .225 | .033 | .089 | .566 | 0.3669 | A person trespasses on private property and steals something. |
| .0 | 97 . | .224 | .668 | .156 | .122 | .067 | . 549 | 0.0266 | A person attempts to rob someone but leaves when a police car approaches |
| 0 | 180 | .105 | .640 | .056 | .053 | .122 | .448 | 0.0055 | A person steals a car. |
| • .1 | 33 | .108 | .640 | . 328 | .063 | 047 | .553 | 0.1281 | A person picks someone's pocket. |
| .2 | 64 . | .149 | .638 | 027 | 017 | . 124 | .515 | -0.0786 | Without breaking into or entering a building and with no one else present, a person steals something. |
| .13 | 34 . | 084 | .623 | .329 | .109 | 039 | .536 | 0.2917 | A person snatches someone's handbag. |
| .0 | 67 | 222 | .619 | . 225 | .231 | 099 | .551 | 0.5200 | A person, using threats, robs someone. |
| . 10 | 61 . | 194 | .618 | .097 | .008 | .277 | .532 | 0.2464 | A person steals money from a store while the owner is not looking. |
| .19 | 58 . | 273 | .614 | .098 | 022 | . 208 | . 529 | 0.4799 | A person breaks into a private residence and with no one else present, steals something. |
| .10 | 09 . | 170 | .608 | .292 | .145 | 032 | .517 | 0.3742 | A person breaks into and enters a private residence. |
| . 20 | 08 . | 293 | .606 | 060 | 051 | .328 | .609 | 0.0955 | A person breaks into a building and with no one else present, steals something. |
| .14 | 19 . | 217 | .585 | .114 | 032 | .223 | .476 | 0.3206 | A person vandalizes private property. |
| .02 | 23 . | 252 | .578 | .219 | . 250 | 034 | .510 | 0.6094 | A person, using force, robs someone. |
| .05 | 50 . | 167 | . 575 | .178 | .301 | .077 | .489 | 0.5593 | A person, using force, robs a store. |
| | | | | | | | | | |

| | | | COM | PONENT | | | | |
|-------|-------|-------|--------|--------|-------|----------------|---------|--|
| . 1 . | . 11 | 111 | 14 | ¥ | VI | h ² | X | OFFENSE DESCRIPTIONS |
| .281 | . 243 | . 543 | .064 | 143 | .303 | . 549 | 0.0958 | A person trespasses on public property and steals something. |
| .197 | .144 | .543 | .159 | 024 | .263 | .449 | -0.0119 | A person attempts to break into a parked car, but runs away when a police car approaches. |
| . 225 | .219 | . 540 | 022 | .002 | .138 | .410 | -0.1504 | A person steals a car and abandons it undamaged. |
| .154 | .222 | .536 | .126 | .256 | .130 | .459 | 0.4665 | A person, using threats, robs a store. |
| .194 | .154 | .533 | 043 | . 293 | .119 | .447 | 0.1795 | A person loots a store in a riot. |
| .230 | .030 | .520 | .102 | .240 | .311 | .489 | -0.0794 | A person knowingly sells stolen goods. |
| .345 | .094 | . 499 | .125 | .163 | .220 | .467 | -0.3357 | A person possesses stolen property. |
| .214 | .197 | .495 | .172 | 092 | .302 | .458 | 0.1669 | A person vandalizes public property. |
| .211 | 008 | .483 | .306 | .155 | .152 | .419 | -0.0386 | A juvenile takes a car for "joyriding." |
| .205 | .206 | .475 | 274 | .066 | .137 | .408 | 0.5873 | A person steals a car and abandons it damaged. |
| 018 | .199 | .455 | .293 | .302 | .075 | .429 | 0.6913 | A person blackmails someone. |
| .100 | ,331 | .447 | .201 | .261 | .042 | .429 | 0.9885, | A person, armed with a weapon, robs someone. |
| .268 | .186 | .436 | 096 | 051 | .389 | .459 | -0.1019 | A person steals something from a public building. |
| .199 | .156 | .430 | .155 | .254 | .262 | .406 | 0.0512 | A person interferes with a police officer. |
| .032 | .241 | .425 | .154 | .414 | .080 | .442 | 1.0535 | A person, armed with a weapon, robs a bank. |
| .372 | 035 | .423 | .124 | .275 | .015 | .410 | -0.6697 | A person possesses burglary tools. |
| .216 | 169 | .410 | .351 | 011 | .110 | .378 | -0.8441 | A person intentionally shoves or pushes someone. |
| .380 | .099 | .407 | ~ :013 | 036 | .348 | .443 | -0.3444 | A person resists arrest. |
| .272 | .184 | .386 | .136 | .162 | .382 | .447 | 0.5347 | A person willingly helps another commit a crime. |
| .009 | .377 | .386 | .210 | .270 | .131 | .426 | 1.0610 | A person, armed with a weapon, robs a store. |
| .211 | .125 | .386 | .135 | .312 | .139 | .344 | -0.1809 | A person joins a riot. |
| .128 | .223 | .381 | . 209 | .378 | .245 | .458 | 0.7797 | A person pays someone to commit a crime. |
| .203 | .111 | .357 | .165 | .206 | . 234 | .305 | 0.3169 | A person illegally receives monthly welfare checks. |
| .189 | .282 | .114 | .689 | -,034 | .022 | .604 | 0.8145 | A person attempts to prevent someone from attending a public school because of that person's race. |
| .233 | .252 | .116 | .673 | 109 | .042 | . 598 | 0.7926 | An employer refuses to hire a qualified person because of that person's race. |
| . 222 | . 228 | .073 | .627 | 170 | .047 | .531 | 0.6997 | A real estate agent refuses to sell a house to a person because of that person's race. |

| | • | | | | | | ٠. | |
|-------|-------|-------|------|-------|------|----------------|----------|--|
| | | | COMP | ONENT | | | | |
| 1 | . 11 | ш | IA | γ. | VÌ | h ² | <u>x</u> | OFFENSE DESCRIPTIONS + |
| 071 | .174 | . 200 | .554 | .232 | .052 | .438 | 0.9522 | A police officer knowingly makes a false arrest. |
| -,114 | .194 | . 134 | 528 | .084 | .153 | .378 | 1.0642 | A manufacturer knowingly endangers lives by polluting the water supply. |
| .149 | .248 | .242 | .514 | .151 | 034 | .431 | 0.6662 | A person endangers the lives of others through negligent property maintenance. |
| .085 | .332 | .110 | .494 | .170 | .039 | .404 | 1.1471 | A parent of a young child neglects to care for it. |
| .404 | 051 | .155 | .481 | .058 | .136 | 443 | -0.4510 | A juvenile repeatedly runs away from home. |
| . 183 | .078 | .238 | .470 | .207 | .124 | .376 | 0.2275 | A person lends money at illegal interest rates. |
| 027 | .188 | .277 | .460 | .223 | .209 | .417 | 0.8836 | A public official takes public funds for personal use. |
| .124 | .035 | .285 | .447 | 111 | .149 | .332 | -0.0205 | A person' knowingly gives false information when advertising a product. |
| .103 | .131 | .351 | .443 | .306 | .202 | .482 | 0.5158 | A doctor cheats on claims made to a health insurance plan for patient services. |
| .082 | .320 | .212 | .438 | .167 | .165 | .401 | 1.0541 | An employer orders an employee to commit a serious crime. |
| .320 | .056 | .367 | .425 | .139 | .018 | .440 | -0.3038 | A person wekes obscene phone calls. |
| 164 | .348 | .087 | .424 | .253 | .096 | .408 | 1,2458 | A producer knowingly endangers lives by marketing contaminated products. |
| 046 | .222 | .238 | .424 | .226 | .218 | .387 | 0.7344 | A public official accepts bribes in return for favors. |
| .055 | .031 | .313 | .418 | 022 | .201 | .317 | -0.1431 | A person fixes prices on a consumer product. |
| .316 | 055 | .246 | .418 | .303 | .058 | .434 | -0.0703 | A juvenile is beyond parental control. |
| .100 | .226 | .356 | .407 | .265 | .179 | .455 | 0.528 | 9 A person bribes a public official to obtain favors. |
| .089 | .255 | .350 | .369 | .203 | .217 | .420 | 0.654 | 5 A person, involved in an automobile accident, leaves the scene. |
| . 329 | .127 | .089 | .081 | .707 | .171 | .667 | 0.638 | A person manufactures large quantities of illegal drugs. |
| .374 | .175 | .145 | .110 | .705 | .147 | .722 | 0.566 | 5 A person smuggles large quantities of illegal drugs. |
| .294 | .195 | .118 | .146 | .674 | .049 | .616 | 0.683 | 5 A person sells heroin. |
| .426 | . 232 | .128 | .120 | .658 | .076 | .705 | 0.264 | A person sells hallucinogenic drugs. |
| .477 | .098 | .189 | .094 | .655 | .121 | .725 | 0.299 | O A person illegally sells barbiturates ("downers") or amphetamines ("uppers"). |
| .483 | . 201 | .110 | .058 | .512 | .126 | 568 | 0.365 | O A person possesses heroin. |
| .359 | .207 | .024 | 074 | .493 | .343 | .538 | 0.960 | 6 A person sells large quantities of illegal drugs. |
| .184 | .125 | 312 | .240 | .421 | .327 | .489 | 0.472 | 3 A person prints counterfeit money. |
| .226 | .161 | .314 | .160 | .405 | .304 | .458 | 0.277 | A person conceals the identity of someone known to have committed a serious crime. |
| 074 | . 286 | .304 | .210 | .384 | .216 | .418 | .1.619 | 3 A person hijacks an airplane. |
| . 114 | .189 | .355 | .335 | . 384 | .299 | .F24 | 0.615 | 7 A person knowingly mashes stolen payroll checks. |
| .125 | .026 | . 103 | .150 | .208 | .609 | .454 | 0.387 | 1 A person impersonates a police officer. |
| .357 | 085 | .147 | .065 | .082 | .568 | .490 | -0.574 | 4 A person operates a car with a suspended driver's license. |
| | | | | | | | | |

| | | | COMP | ONENT | | | | • |
|-------|-------|------|------|------------|-------|----------------|----------|--|
| I | 11 | 111 | ĮV | . V | VI | h ² | <u> </u> | OFFENSE DESCRIPTIONS |
| .246 | .163 | .317 | .084 | .224 | .471 | .466 | 0.4632 | A person knowingly passes counteriet money. |
| .089 | .092 | .110 | .108 | .115 | .461 | .266 | 0.1772 | A person willingly commits perjury. |
| .246 | .230 | .269 | .211 | .114 | .436 | .433 | 0.5398 | A person signs someone else's name to a check and cashes it. |
| .291 | .077 | .329 | .153 | .092 | .435 | .420 | 0.0218 | A person knowingly writes worthless checks. |
| .189 | 083 | .127 | .086 | .142 | .424 | .267 | -0.6277 | A person operates a car without insurance coverage. |
| 108 | .129 | 012 | .365 | .069 | .411 | .335 | 0.8893 | A government official intentionally obstructs the investigation of a criminal offense. |
| .070 | . 275 | .333 | .331 | .262 | .390 | .522 | 0.8380 | A person pays a witness to give false testimony in a criminal trial. |
| .342 | .045 | .349 | .248 | .091 | .370 | .448 | -0.1671 | A person uses false identification to obtain goods from a store. |
| .057 | .145 | .247 | .327 | .002 | .356 | .318 | 0.3373 | A person intimidates a witness in a court case. |
| | | | | | | | | |
| .021 | .048 | .180 | .172 | .054 | .261 | .136 | -0.0631 | A person turns in a false alarm. |
| .301 | .106 | 022 | .279 | .154 | .212 | .246 | -0.0722 | A person shows pornographic movies to a minor. |
| .016 | . 297 | .049 | 195 | .111 | .106 | .153 | 1.2752 | A person assassinates a public official. |
| .249 | 108 | .260 | .261 | 008 | .267 | .281 | -0.8563 | A person disturbs the neighborhood with loud, noisy behavior. |
| .000 | .320 | 027 | .096 | . 209 | . 173 | .186 | 1.4960 | A person plants a bomb in a building. |
| .083 | .103 | .178 | 033 | .334 | .252 | ,225 | 0.6141 | A person commits treason. |
| .233 | .189 | .224 | 053 | .095 | .336 | .235 | 0.1418 | A person possesses an illegal weapon. |
| .299 | .277 | .255 | .064 | 071 | .204 | .282 | 0.0930 | A person threatens someone with bodily harm. |
| . 343 | .280 | .289 | .211 | 183 | .054 | .360 | -0.1346 | A person runs his hands over a woman's body, then runs away. |
| .052 | .311 | .196 | .209 | .158 | 081 | .213 | 1.0690 | A person forces another to engage in a homosexual act. |
| .122 | .274 | .047 | .294 | .284 | .240 | .317 | 1.1234 | A person practices medicine without a license. |
| .342 | .077 | .243 | .291 | 034 | .218 | .315 | -0.3871 | A person refuses to pay alimony. |
| .141 | .300 | .339 | .046 | .116 | .071 | .246 | 0.7081 | A person threatens someone's life. |
| .245 | .222 | .280 | .219 | .264 | .316 | .406 | 0.5183 | A person embezzles company money. |
| .154 | .140 | .292 | .324 | .297 | .112 | .334 | 0.6030 | A person drives a car while drunk. |
| .356 | 088 | .081 | .224 | .105 | .543 | .498 | -0.5258 | A person uses someone else's driver's license. |
| .365 | .113 | .067 | .130 | .355 | .516 | . 559 | 0.3112 | A person uses a forged prescription to obtain drugs. |
| .327 | .067 | .323 | 016 | .107 | .478 | .456 | -0.4333 | A person knowingly buys stolen property. |

Note: Loadings >.40 underlined.

Table 3 Summary of Principal Components Solution

| UNROTATED | SOLUTION |
|-------------|-----------|
| OTTIO TATED | 200011011 |

162 Items, N = 519

| Component: | I | II | III | IV | v | ۷I |
|-----------------------------------|-------|-------|--------------|----------|----------|-------|
| Eigenvalue | 44.51 | 10.27 | 5.88 | 5.65 | 3.80 | 3.73 |
| Cum % of Variance Explained | 27.48 | 33.82 | 37.45 | 40.32 | 42.67 | 44.97 |
| | | | | | | |
| | | | | | | |
| | | VARIM | AX ROTATED S | SOLUTION | | |
| | | | | | | |
| Component | I | II | III | IV | ٧ | VI |
| Eigenvalue | 16.81 | 9.52 | 19.38 | 9.71 | 9.52 | 7.90 |
| Cum % of Variance Explained | 10.38 | 16.26 | 28.22 | 34.21 | 40.09 | 44.97 |
| | | | | | | |

PRINCIPAL COMPONENTS SOLUTION - 162 OFFENSE DESCRIPTIONS

(N = 519)

| | | | COMP | ONENT | | | | |
|-------------|-------|-------|-------|-------|------|-------|---------|---|
| I | 11 | 111 | 17 | γ - 1 | ٧ı | b , | · 🕱 | OFFENSE DESCRIPTIONS |
| .782 | .126 | .179 | .171 | .028 | 021 | .689 | -0.0231 | A person steals something from a parked car. |
| .773 | .150 | .164 | .116 | .075 | .082 | .673 | 0.0937 | A person breaks into a store and with no one else present, steals something. |
| .759 | .197 | .123 | .105 | 010 | 045 | .644 | -0.1706 | A person steals merchandise from a store while the owner is not looking. |
| .740 | .149 | .172 | .222 | .085 | .059 | .660 | 0.1401 | A person breaks into and enters a store. |
| _732_ | .240 | .155 | .156 | .120 | .047 | .659 | -0.1391 | A person breaks into and enters a building. |
| .715 | .108 | .283 | .189 | .031 | .084 | .647 | 0.3169 | A person trespasses on private property and steals something. |
| .714 | .156 | .173 | .148 | .002 | .058 | .590 | -0.1071 | A person attempts to break into a building, but runs away when a police car approaches. |
| .703 | .127 | .219 | .083 | .032 | .092 | .575 | 0.2294 | A person steals money from a store while the owner is not looking. |
| .701 | .105 | .190 | .128 | .083 | .204 | .604 | 0.3857 | A person breaks into a private residence and with no one else present, steals something. |
| .699 | .136 | .215 | 017 | .097 | .248 | .625 | 0.1207 | A person breaks into a building and with no one else present, steals something. |
| .692 | .219 | .213 | .073 | 023 | .063 | . 582 | -0.0573 | Without breaking into or entering a building and with no one else present, a person steals something. |
| .661 | .170 | . 199 | .013 | 004 | .062 | .510 | 0.0082 | A person steals a car. |
| .625 | .121 | .300 | .261 | .041 | .090 | .573 | 0.3586 | A person breaks into and enters a private residence. |
| -614 | .144 | .207 | .276 | 014 | .024 | .517 | 0.0865 | A person picks someone's pocket. |
| .610 | .369 | .138 | .099 | 130 | .071 | .558 | -0.0753 | A person knowingly sells stolen goods. |
| .597 | .071 | .285 | .102 | .127 | .277 | .546 | 0.2498 | A person vandalizes private property. |
| .589 | .149 | .330 | .156 | .068 | .061 | 511 | 0.3846 | A person, using threats, robs a store. |
| .588 | .126 | .243 | .181 | 069 | .105 | .469 | -0.0123 | A person attempts to rob someone but leaves when a police car approaches. |
| .585 | 400 | .085 | .050 | .071 | .070 | .521 | -0.3760 | A person possesses stolen property. |
| .579 | .313 | .195 | -,003 | .181 | .073 | .509 | 0.1439 | A person loots a store in a riot. |
| <u>,570</u> | .140 | .403 | .131 | .092 | .043 | .534 | 0.5366 | A person, using force, robs a store. |
| .568 | .144 | .226 | .386 | 011 | 026 | .544 | 0.2496 | A person snatches someone's handbag. |
| 568 | .,114 | .354 | .187 | .063 | 061 | .504 | 0.4560 | A person, using threats, robs someone. |
| ,535 | .245 | .148 | .229 | .000 | .154 | .444 | -0.0770 | A juvenile takes a car for "joyriding." |
| .524 | .177 | .197 | .011 | .010 | .333 | .456 | -0.1904 | A person steals a car and abandons it undamaged. |
| ,519 | .224 | .174 | .166 | 028 | .322 | .481 | 0.1372 | A person trespasses on public property and steals something. |

Table 4 (Cont'd)

| | | | COM | PONENT | | _ | | |
|------|-------|----------------|-------|--------------|-------|----------|---------|---|
| 1 | 11 | , III : | IV | , v , | AI . | . 2 h | X | OFFENSE DESCRIPTIONS |
| .513 | .042 | .466 | .213 | .068 | .033 | .533 | 0.5899 | A person, using force, robs someone. |
| .503 | .154 | . 263 | .213 | 006 | .292 | .476 | 0.1245 | A person vandalizes public property. |
| .503 | .278 | .175 | 041 | .020 | .344 | .482 | -0.0611 | A person steals something from a public building. |
| -497 | .162 | .147 | .091 | 053 | .333 | .416 | -0.0881 | A person attempts to break into a parked car, but runs away when a police car approaches. |
| .475 | .095 | .207 | .284 | .036 | .149 | .382 | 0.5395 | A person steals a car and abandons it undamaged. |
| .467 | .251 | .261 | .153 | .296 | .283 | .540 | 0.4850 | A person willingly helps another commit a crime. |
| .459 | .401 | 056 | .184 | .191 | . 127 | .461 | -0.2344 | A person smuggles goods to avoid paying import duties. |
| 454 | . 286 | .078 | .303 | .121 | .248 | .462 | -0.2287 | A person uses false identification to obtain goods from a store. |
| -442 | . 230 | .161 | .356 | .397 | .221 | .607 | 0.5396 | A person knowingly cashes stolen payroll checks. |
| .423 | .324 | 013 | . 167 | .353 | .267 | .508 | 0.3249 | A person prints counterfeit money. |
| -418 | .322 | .074 | .252 | 013 | .159 | .373 | -0.7877 | A person trespasses on private property. |
| -417 | .223 | . 168 | .188 | .317 | .149 | .409 | 0.4361 | A person embezzles company morrey. |
| .402 | .091 | .097 | .180 | .229 | .305 | .357 | 0.2480 | A person illegally receives monthly welfare payments. |
| .387 | .267 | .249 | .290 | .278 | .212 | .489 | 0.6927 | A person pays someone to commit a crime. |
| .387 | . 223 | .056 | .256 | .178 | .288 | .383 | 0.0160 | A person knowingly writes worthless checks. |
| .381 | . 163 | .308 | .322 | . 209 | 039 | .416 | 0.5952 | A person blackmails someone. |
| .373 | .328 | .184 | .071 | .134 | .048 | .306 | -0.2272 | A person joins a riot. |
| .371 | .316 | .158 | .142 | .296 | .237 | .427 | 0.2285 | A person conceals the identity of someone known to have committed a serious crime. |
| .369 | .272 | .173 | .278 | 242 | 012 | .376 | -0.6770 | A person intentionally shoves or pushes someone. |
| .170 | .728 | .024 | .010 | .130 | 053 | .579 | -1.0690 | A person possesses marijuana. |
| .134 | .721 | .041 | .002 | 096 | .156 | .573 | -0.8007 | A woman engages in sexual acts in return for money. |
| .095 | .713 | .044 | .092 | .178 | 010 | .560 | -0.7184 | A person sells marijuana. |
| .126 | .710 | .086 | .150 | . 393 | .070 | .710 | -0.0302 | A person possesses hallucinogenic drugs. |
| .056 | .710 | .107 | . 121 | . 340 | .112 | .661 | -0.0576 | A person illegally uses barbiturates ("downers") or amphetamines ("uppers"). |
| .192 | .709 | .035 | .001 | .095 | 068 | .555 | -1.2127 | A person uses marijuana. |
| .182 | _707 | .049 | .107 | 040 | .158 | . 573 | -0.5423 | A person solicits for prostitution. |
| .101 | .689 | .157 | .099 | .350 | .143 | .662 | 0.0192 | A person illegally possesses barbiturates ("downers") or amphetamines ("uppers"). |

| | | | COM | PONENT | | | | |
|-------|-------------|-------|-------|---------------|-------|--------|---------|---|
| 1 : | , 11 | Ш | Į | y | YY | h h | X | OFFENSE DESCRIPTIONS * |
| .154 | .674 | 034 | .025 | 054 | .043 | .484 | -1.0915 | A person is a customer in a house of prostitution. |
| .090 | .672 | .013 | 056 | 092 | .322 | .575 | -0.7642 | A person engages in sexual acts in return for money. |
| .315 | .651 | .016 | . 267 | .005 | .062 | .598 | -0.8534 | A person buys liquor filegally. |
| .107 | <u>.631</u> | .133 | .202 | -471 - | .024 | .689 | 0.2791 | A person illegally sells barbiturates ("downers") or amphetamines ("uppers"). |
| .191 | .622 | .065 | .005 | .011 | .056 | .431 | -0.2839 | A person engages in homosexual acts in return for money. |
| .128 | _621 | .098 | .131 | .342 | .044 | .547 | 0.1365 | A person uses heroin. |
| .289 | 612 | 032 | .165 | .125 | .161 | . 528 | -0.4224 | A person runs an illegal gambling operation. |
| .097 | .594 | .061 | .146 | .294 | .216 | .520 | -0.0163 | A person uses hallucinogenic drugs. |
| .057 | 587 | .101 | .156 | <u>-541</u> | .044 | .676 | 0.2723 | A person sells hallucinogenic drugs. |
| .175 | .574 | .046 | 435 | .127 | .048 | .570 | -0.2758 | A person gives liquor to a minor. |
| .047 | _569_ | .132 | ~.004 | .218 | .312 | .488 | -0.0552 | A person gives illegal drugs to an acquaintance. |
| .270 | .566 | .039 | 428 | .057 | .070 | .586 | -0.5391 | A juvenile illegally possesses liquor. |
| .283 | ,566 | .096 | .271 | .050 | .185 | .520 | -0.4393 | A person sells liquor illegally. |
| .049 | _554_ | 000 | 016 | 032 | . 365 | .444 | -0.3258 | A person runs a house of prostitution. |
| .141 | .552 | 077 | 087 | 084 | 060 | .349 | -1.2507 | Two people willingly engage in a homosexual act. |
| .164 | .544 | .154 | .121 | <u>,434</u> | .168 | .578 | 0.2818 | A person possesses heroin. |
| .205 | -533 | 054 | 013 | 018 | .376 | .470 | -0.8682 | A person participates in illegal gambling. |
| .390 | .518 | 012 | .213 | 146 | 135 | .505 | -1.1458 | A person is drunk in public. |
| .122 | 516 | .333 | .236 | . 250 | 400 | .572 | 0.2449 | A person uses a forged prescription to obtain drugs. |
| .092 | .508 | .049 | .171 | 150 | 003 | .321 | -0.8184 | A person commits adultery. |
| .426 | .501 | 062 | .158 | .041 | .012 | .463 | -0.7369 | A person possesses burglary tools. |
| .365 | .484 | 118 | .348 | 084 | .015 | .510 | -1.1282 | A juvenile breaks a curfew law. |
| .368 | .482 | 087 | .156 | .078 | .094 | .415 | -0.5786 | A person joins a prohibited demonstration. |
| .171 | .453 | .011 | .385 | .014 | .257 | .449 | -0.1008 | A person sells liquor to minors. |
| .238 | .450 | 123 | .276 | 162 | .145 | .398 | -1.2570 | A person loiters in a public place. |
| .127 | .444 | .124 | .330 | 062 | .151 | .364 | -0.1878 | A person exposes his genitals in public. |
| .348 | .443 | 098 | . 232 | 039 | .108 | .394 | -1.1288 | A person refuses to pay parking fines. |
| .002 | .418 | . 221 | 088 | .375 | .196 | .410 | 1.0073 | A person sells large quantities of illegal drugs. |
| .314 | .401 | .087 | .136 | . 203 | . 283 | .406 | -0.0260 | A person willingly hides someone who has committed a crime. |
| . 294 | .392 | .083 | .104 | .082 | .213 | .311 | -0.4251 | A person knowingly buys stolen property. |

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CONTINUED 20F3

Table 4 (Cont'd)

| | | | COM | PONENT | | | . • . | |
|------|------|-------------|-------|------------|-------|--------|---------|---|
| 1 | II | 111 | IA | , v | . AŢ | h h | X | OFFENSE DESCRIPTIONS |
| .106 | .351 | .177 | .058 | 081 | 053 | .178 | -0.2083 | A person, upon arriving home, kills a suspected burglar. |
| .201 | .022 | 678 | .021 | .013 | 060 · | .505 | 1.3256 | A person stabs someone with a knife. |
| .217 | 010 | .637 | .266 | .057 | 114 | .539 | 1.3072 | A person forces a woman to submit to sexual intercourse, then flees with property belonging to her. |
| .161 | .015 | .625 | .255 | .035 | 100 | .493 | 1.2840 | A person forces a woman to submit to sexual intercourse. |
| .201 | .056 | .595 | 111 | .055 | 048 | .416 | 1.3655 | A person kills someone during a serious argument. |
| .102 | 089 | <u>.596</u> | .169 | .121 | .013 | .417 | 1.4681 | A person intentionally injures someone who, as a result, dies. |
| .182 | .078 | .577 | 033 | 211 | .139 | . 437 | 0.6990 | Without using a weapon, a person beats someone. |
| .093 | .002 | .575 | .278 | .054 | .064 | .423 | 1.3264 | A person sexually assaults a woman. |
| .150 | .069 | .562 | .022 | .090 | 012 | .352 | 1.4460 | A person shoots someone with a gun. |
| .225 | .107 | .556 | .133 | 028 | .250 | .452 | 0.8778 | A person strikes someone with a blunt instrument. |
| .195 | 001 | . 553 | .100 | .256 | 077 | .426 | 1.3476 | A person kidnaps someone. |
| .270 | .068 | .548 | .161 | 041 | .089 | .413 | 1.2141 | A person fires a gun at someone. |
| .059 | 001 | . 546 | .099 | 104 | .254 | . 387 | 1.3782 | Without using a weapon, a juvenile beats someone. |
| .167 | .095 | . 544 | 018 | .050 | 076 | .342 | 1.1791 | A person kills someone during a barroom free-for-all. |
| .183 | .006 | .519 | .033 | .1,58 | .017 | .329 | 1.4427 | A person plans to kills someone for a fee. |
| .143 | .019 | . 509 | .256 | 115 | 089 | .367 | 0.8205 | Without using a weapon, a person beats his wife. |
| .243 | .025 | .495 | .118 | .201 | .056 | .362 | 1.2993 | A person sets fires to a building. |
| .160 | .046 | .487 | .187 | .065 | 004 | .304 | 1.0493 | A person forces another to engage in a homosexual act. |
| .068 | .065 | .470 | .214 | 061 | .135 | .297 | 1.2170 | A person kills someone by recklessly driving an automobile. |
| 446 | .049 | .462 | .217 | .167 | .169 | .519 | 1.0491 | A person, armed with a weapon, robs a store. |
| .171 | .316 | .458 | .101 | 227 | .202 | .441 | 0.1120 | A person threatens someone with bodily harm. |
| 431 | .051 | .450 | .202 | .159 | .098 | .466 | 0.9340 | A person, armed with a weapon, robs someone. |
| .313 | .238 | ,446 | .090 | 003 | 026 | .362 | 0.7445 | A person threatens someone's life. |
| .408 | .134 | .443 | .094 | .311 | .052 | .489 | 1.0375 | A person, armed with a weapon, robs a bank. |
| .027 | .069 | 415 | 046 | 030 | .138 | .200 | 0.8143 | Without using a weapon, the parent of a young child beats it. |
| .187 | 048 | .400 | 004 | .217 | .235 | . 299 | 1.5323 | A person plants a bomb in a building. |
| .150 | 033 | .399 | .129 | .168 | ,129 | .245 | 1.5069 | A person sets fire to an occupied building. |
| .054 | .151 | .395 | . 283 | .107 | .108 | .285 | 1.1683 | A person tries to entice a minor into a car for sexual purposes. |
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Table 4 (Cont'd)

| | | | COMP | ONENT | | ٠, | | |
|-------|------|-------|-------------|-------|------|--------|---------|--|
| I | ii | 111 | IY | ¥ | ΑI | h h | X | OFFENSE DESCRIPTIONS |
| 025 | 087 | .369 | 117 | .060 | .140 | .181 | 1.4330 | A person impulsively kills a stranger. |
| .300 | .015 | .352 | 004 | .261 | .072 | . 287 | 1.1618 | A person hijacks an airplane. |
| .060 | .117 | .054 | .718 | 027 | .102 | .547 | 0.6669 | A real estate refuses to sell a house to a person because of that person's race. |
| .087 | .106 | .120 | .694 | 024 | .140 | . 535 | 0.7335 | An employer refuses to hire a qualified person because of that person's race. |
| .121 | .094 | . 200 | .694 | 058 | .091 | .556 | 0.7726 | A person attempts to prevent someone from attending a public school because of that person's race. |
| .221 | .256 | .063 | .555 | .034 | 032 | .428 | -0.0244 | A juvenile is beyond parental control. |
| .264 | .066 | .027 | .545 | .065 | .094 | .386 | -0.0324 | A person knowingly gives false information when advertising a product. |
| .172. | .019 | .245 | .530 | .088 | .109 | .394 | 0.8876 | A police officer knowingly makes a false arrest. |
| .141 | .379 | .010 | .507 | 052 | .083 | .431 | -0.5563 | A juvenile repeatedly runs away from home. |
| .328 | 050 | .110 | . 503 | . 192 | 163 | .439 | 0.8163 | A public official takes public funds for personal use. |
| .210 | .438 | 061 | .501 | .019 | .064 | .495 | -0.4494 | A juvenile is repeatedly truant. |
| .202 | .145 | .267 | <u>.497</u> | .106 | .056 | .395 | 0.7449 | A person endangers the lives of others through negligent property maintenance. |
| .131 | 020 | .263 | .472 | .088 | .053 | .320 | 1.0225 | A manufacturer knowingly endangers lives by polluting the water supply. |
| .024 | .101 | .345 | .466 | .071 | 001 | .352 | 1.1415 | A parent of a young child neglects to care for it. |
| .303 | .113 | .118 | .461 | 013 | .008 | .331 | -0.1368 | A person fixes prices on a consumer product. |
| .189 | .049 | .135 | 455 | .292 | .145 | .369 | 0:6839 | A public official accepts bribes in return for favors. |
| .330 | .076 | .236 | .455 | .032 | .184 | .412 | 0.6596 | A person, involved in an automobile accident, leaves the scene. |
| .321 | .173 | .056 | .438 | .290 | .163 | .438 | 0.4808 | A doctor cheats on claims made to a health insurance plan for patient services. |
| . 185 | .144 | .321 | .434 | .208 | .131 | .407 | 0.9791 | An employer orders an employee to commit a serious crime. |
| .165 | .238 | .249 | .418 | 033 | 007 | .321 | 0.6269 | A person drives a car while drunk. |
| .371 | .165 | .095 | <u>,409</u> | .251 | .179 | .436 | 0.4659 | A person bribes a public official to obtain favors. |
| .140 | 049 | .394 | .395 | .210 | .081 | .384 | 1.2043 | A producer knowingly endangers lives by marketing contaminated products. |
| .320 | .336 | .137 | .392 | 034 | .053 | .392 | -0.3046 | A person makes obscene phone calls. |
| .340 | .311 | .124 | .391 | .220 | .055 | .432 | 0.1181 | A person lends money at illegal interest rates. |
| .319 | .104 | .205 | .368 | .321 | .302 | ,484 | 0.7806 | A person pays a witness to give false testimony in a criminal trial. |
| .062 | .253 | 060 | .353 | 067 | .261 | .269 | -0.5059 | A person has no residence and no visible means of support. |

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|-------|-------|---------------|-------|--------|-------|--------|------------|--|
| | | | COM | PONENT | | | | |
| I | 11 | III | . IV | ٧ | ٧I | 2 h | , X | OFFENSE DESCRIPTIONS |
| .095 | .473 | .135 | .225 | .611 | .004 | .689 | 0.7013 | A person manufactures large quantities of illegal drugs. |
| .112 | . 535 | .082 | .190 | .575 | .076 | .678 | 0.5637 | A person smuggles large quantities of illegal drugs. |
| .062 | .489 | .188 | .166 | .512 | .033 | .570 | 0.7598 | A person sells heroin. |
| .167 | .329 | 085 | . 221 | .054 | .531 | .476 | -0.5367 | A person uses sameone else's driver's license. |
| . 247 | .331 | ~. 057 | .206 | .013 | . 530 | .497 | -6.6211 | A person operates a car with a suspended driver's license. |
| . 241 | .105 | .090 | .152 | .107 | .503 | .365 | 0.3198 | A person impersonates a police officer. |
| . 254 | .158 | .159 | .299 | ,144 | .413 | .396 | 0.5956 | A person signs someone else's name to a check and cashes it. |
| .374 | .222 | .137 | .197 | .251 | 405 | .474 | 0.3923 | A person knowingly passes counterfeit money. |
| .084 | .151 | 014 | .118 | 001 | .404 | . 207 | -0.6306 | A person operates a car without insurance coverage. |
| .346 | .276 | .167 | .052 | .024 | .373 | .367 | -0.3395 | A person resists arrest. |
| .189 | .293 | 020 | .222 | 215 | .355 | .343 | -0.9074 | A person disturbs the neighborhood with loud, noisy behavior. |
| .173 | .044 | .068 | .109 | .148 | .350 | . 193 | 0.1640 | A person willingly commits perjury. |
| | | | | | | | | |
| .037 | .051 | .030 | .258 | .104 | .244 | 140 | 0.0000 | |
| 051 | .340 | .115 | .301 | .021 | | .142 | 0.0003 | A person turns in a false fire alarm, |
| .130 | 022 | .272 | | | .336 | .335 | -0.0659 | A person shows pornographic movies to a minor. |
| .105 | | | 323 | .160 | .087 | .228 | 1.2300 | A person assassinates a public official. |
| .105 | 064 | .181 | .261 | .153 | . 296 | .227 | 0.8308 | A government official intentionally obstructs the investigation of a criminal offense. |
| .102 | 012 | .091 | 068 | . 244 | .170 | .116 | 0.6418 | A person commits treason, |
| .247 | . 276 | .217 | 082 | 022 | . 261 | .260 | 0.1876 | A person possesses an illegal weapon. |
| . 237 | . 234 | .306 | .297 | 203 | .214 | .380 | -0.2595 | A person runs his hands over a woman's body, then runs away. |
| .216 | .032 | .257 | .316 | .095 | .318 | .324 | 0.3610 | A person intimidates a witness in a court case. |
| 083 | . 269 | .195 | .273 | .186 | .180 | . 259 | 0.4772 | A person commits incest. |
| .058 | .148 | .314 | .336 | .161 | .161 | .289 | 1.0759 | A person practices medicine without a license. |
| . 340 | .258 | . 234 | .161 | .111 | . 334 | .387 | 0.0555 | A person interferes with a police officer. |
| .215 | . 329 | .011 | .337 | .031 | .069 | .274 | -0.4380 | A person refuses to pay allmony. |
| .113 | 042 | .339 | .060 | 059 | 209 | .180 | 1.3092 | A person shoots and kills someone who resists an armed robbery. |
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Note: Loadings \geq .40 underlined

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