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U.S. Department of Justice Office of Juvenile Justice and Delinquency Prevention National Institute for Juvenile Justice and Delinquency Prevention

Analysis of National Crime Victimization Survey Data To Study Serious Delinquent Behavior

Monograph Five

Juvenile Criminal Behavior and Its Relation to Neighborhood Characteristics



Monographs in this series include:

Juvenile Criminal Behavior in the United States: Its Trends and Patterns

Juvenile Criminal Behavior: An Analysis of Rates and Victim Characteristics

Juvenile Criminal Behavior in Urban, Suburban, and Rural Areas

Juvenile Criminal Behavior and Its Relation to Economic Conditions

Juvenile Criminal Behavior and Its Relation to Neighborhood Characteristics

U.S. Department of Justice

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July 1981

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Analysis of National Crime Victimization Survey Data To Study Serious Delinquent Behavior

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List of Tables ... Executive Summary I. Introduction.... The Research Fra Description of Neighborhood Cha Methodological II. Rates of Personal Neighborhood Eco Neighborhood Une Neighborhood Rad Neighborhood Rea Neighborhood Str Summary..... III. Rates of Offending Neighborhood Ecc Neighborhood Une Neighborhood Rad Neighborhood Res Neighborhood Str Summary..... IV. Characteristics of Weapon Use.... Seriousness Sco Summary..... v. Concluding Reman

Table of Contents

••••••••	• • • • • • • • • • • •	v
• • • • • • • • • • • • • • • • • • • •		1
· · · · · · · · · · · · · · · · · · ·		6
amework		10
the Data		
aracteristics Data		
Concerns	••••	16
Victimization	• • • • • • • • • • •	22
onomic Status	• • • • • • • • • •	23
employment	• • • • • • • • • • •	30
cial Composition		33
sidential Mobility	• • • • • • • • • • • • •	38
ructural Density	• • • • • • • • • • •	41
•••••••••••••••••••••••••••••••••••••••	•••••	46
g		48
onomic Status	• • • • • • • • • • •	51
employment	•••••	57
cial Composition	• • • • • • • • • • •	59
sidential Mobility	• • • • • • • • • • • •	62
ructural Density	• • • • • • • • • • •	65
••••••		68
f the Victimization Event	• • • • • • • • • • •	69
• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • •	71
res	• • • • • • • • • • • •	77
• • • • • • • • • • • • • • • • • • • •	•••••	81
rks	• • • • • • • • • • • • •	82

Page

1

	Page	
Notes		
Appendix A:	NCS Household Interview Schedule	
Appendix B:	Neighborhood Characteristics102	
Appendix C:	Offender Age in National Crime Survey Data103	
Appendix D:	Rates of Victimization and Offending Based Solely on "At or Near Home" Incidents117	
Appendix E:	Type of Crime Definitions128	
References		

Table 1 Estimated (per 100,0 and age of status, NC Estimated Table 2 (per 100,0 of victim, neighborho aggregate. Estimated (per 100,0 and age of ment, NCS Table 3 Table 4 Estimated (per 100,0 and age of compositio Table 5 Estimated (per 100,0 sex and ag national d Table 6 Estimated (per 100,0 and age of density, N Estimated Table 7 (per 100,0 of victim, density, N Estimated 100,000 po Table 8 by age of status, NC Table 9 Estimated (per 100,0 group), by of crime, a data, 1973-Table 10 Estimated (per 100,00 group), by unemployme

÷.,

14

R.

3

برحشية أيما

8

iv

ş

List of Tables

v

Page

annual rates of victimization in personal crimes 000 persons in each population subgroup), by race 7 victim, type of crime and neighborhood economic 25 national data, 1973-1978 aggregate	4
annual rates of victimization in personal crimes 000 persons in each population subgroup), by age extent of urbanization, type of crime, and bod economic status, NCS national data, 1973-1978	7
annual rates of victimization in personal crimes 000 persons in each population subgroup), by race 2 victim, type of crime, and neighborhood unemploy- national data, 1973-1978 aggregate	1
2000 persons in each population subgroup), by race victim, type of crime, and neighborhood racial on,NCS national data, 1973-1978 aggregate	5
annual rates of victimization in total personal crimes 000 persons in each population subgroup), by race, ge of victim, and neighborhood residential mobility, NCS lata, 1973-1978 aggregate	9
annual rates of victimization in personal crimes 000 persons in each population subgroup), by sex 2 victim, type of crime, and neighborhood structural NCS national data, 1973-1978 aggregate	2
annual rates of victimization in total personal crimes 000 persons in each population subgroup), by age , extent of urbanization, and neighborhood structural NCS national data, 1973-1978 aggregate	4
annual rates of offending in personal crimes (per otential offenders in each population subgroup), offender, type of crime, and neighborhood economic CS national data, 1973-1978 aggregate5	2
annual rates of offending in personal crimes 000 potential offenders in each population sub- 7 age of offender, extent of urbanization, type and neighborhood economic status, NCS national 8-1978 aggregate	4
annual rates of offending in personal crimes 000 potential offenders in each population sub- 7 age of offender, type of crime and neighborhood ent, NCS national data, 1973-1978 aggregate	8

Table 11	Estimated annual rates of offending in personal crimes (per 100,000 potential offenders in each population subgroup), by age of offender, type of crime, and neighborhood racial composition, NCS national data, 1973-1978 aggregate	50
Table 12	Estimated annual rates of offending in personal crimes (per 100,000 potential offenders in each population subgroup), by race and age of offender, type of crime, and neighborhood residential mobility, NCS national data, 1973-1978 aggregate	63
Table 13	Estimated annual rates of offending in personal crimes (per 100,000 potential offenders in each population subgroup), by race and age of offender, type of crime, and neighborhood structural density, NCS national data, 1973-1978 aggregate	66
Table 14	Percent of weapon use in personal victimization, by age of offender, type of crime, and neighborhood racial composition, NCS national data, 1973-1978 aggregate	73
Table 15	Percent of weapon use in personal victimization, by age of offender, type of crime, and neighborhood economic status, NCS national data, 1973-1978 aggregate	75
Table 16	Percent of weapon use in personal victimization, by age of offender, type of crime, and neighborhood residential mobility, NCS national data, 1973-1978 aggregate	76
Table 17	Percent of type of weapon used in total personal victimization, by age of offender, and neighborhood racial composition, NCS national data, 1973-1978 aggregate	78
Table 18	Percent distribution of the seriousness of total personal victimization, by age of offender and neighborhood racial composition, NCS national data, 1973-1978 aggregate	80

Page

In this report 1973 to 1978 National Crime Survey victimization data are used in conjunction with neighborhood characteristics data from the Bureau of the Census to address three major questions regarding personal crimes inflicted upon and committed by juveniles (12 to 17 year olds), 18 to 20 year olds, and adults (21 and over). The personal crimes of rape, robbery, assault and personal larceny (purse snatch and pocket picking) are examined. The first question focuses on the patterns of personal victimization across dimensions of selected neighborhood characteristics. For example, how do rates of victimization differ across categories of neighborhood economic status? Are rates of juvenile victimization higher in low economic status neighborhoods than in high economic status neighborhoods? The second question addressed is whether neighborhood characteristics are differentially related to rates of offending. For example, are juvenile rates of offending higher in neighborhoods characterized by high residential mobility than low residential mobility, as suggested by past research utilizing official data? Rates of offending can shed light on this question in that they standardize the number of offenses attributable to a particular group in a neighborhood by the number of persons (potential offenders) in that group residing in the neighborhood - something that is not done in the analysis of rates of victimization. The final question pertains to the relationship between characteristics of the victimization event and the neighborhood context in which they occur. For example, is gun use more prevalent in low economic status neighborhoods? Our analysis of variation in rates of personal victimization across neighborhood characteristic dimensions showed that: (1) Neighborhood economic status has a negative relationship with victimization rates in urban areas.

vi

Executive Summary

The relationship was found to be stronger for adult victimization than juvenile victimization and for theft (robbery and personal larceny) rather than violent (rape and assault) victimization. In contrast, rural juveniles have higher rates of victimization in high economic status neighborhoods than in low economic status neighborhoods.

- (2) The relationship between neighborhood unemployment and victimization was moderate and positive for juvenile and adult victimization, but weak and inconsistent for 18 to 20 year old victimization. The relationship was stronger for theft than violent victimization, especially among blacks. Extent of urbanization differences were also revealed with victimization rates in urban areas being more strongly related to neighborhood unemployment than victimization rates in rural areas.
- (3) White victimization rates were found to be positively related to the percentage of blacks in neighborhoods. This relationship was found to be stronger for theft victimization than violent victimization. In contrast, black victimization rates were higher in predominately white neighborhoods or predominately black neighborhoods than in the intermediate percent black category.
- (4) Neighborhood residential mobility was found to have a strong positive relationship with victimization rates for all the population subgroups examined (age, race, and sex-specific). In most instances, rates of victimi-

zation in neighborhoods characterized by high residential mobility were twice as large as comparable rates in neighborhoods marked by low residential mobility. (5) Rates of personal victimization for all population subgroups examined (i.e., age, race and sex-specific) were higher in neighborhoods characterized by high structural density than low structural density. The relationship was stronger for adult victimization than juvenile victimization. Neighborhood structural density was also more strongly related to theft victimization than violent victimization and to rural victimization than urban victimization. As to the second question regarding whether neighborhood characteristics are differentially related to rates of offending, we found that (1) Rates of theft offending were considerably higher in low economic status urban neighborhoods than in either medium or high economic status urban neighborhoods for juvenile, youthful and adult offenders. A similar but weaker pattern was evident for the violent offending of urban adults. Juvenile and adult offending were found to have a moderate negative relationship with neighborhood economic status in suburban areas but a weak and inconsistent relationship in rural areas. (2) Both theft and violent offending rates had a positive relationship with neighborhood unemployment for all offender age groups. This relationship was strongest for theft crimes, especially those committed by adult offenders.

-3-

-2-

(3) A strong positive relationship was found between theft offending and the percent black in a neighborhood for juvenile, youthful, and adult offenders. Violent offending showed a weaker yet still overall positive relationship with percent black for all offender age groups.

-4-

- (4) White juvenile offending in both theft and violent crimes was positively related to neighborhood residential mobility. Black juvenile offending, in contrast, showed a positive relationship only for violent crimes. For adults, neighborhood residential mobility was positively related to both black and white offending in theft and violent crimes.
- (5) An overall strong positive relationship was found between rates of offending and neighborhood structural density, with the relationship being stronger for theft crimes than violent crimes. This pattern was evident for the offending behavior of all race and age specific population subgroups except for the violent offending of black 18 to 20 year olds.

An examination of whether certain characteristics of the victimization event such as weapon use and seriousness of the victimization event are related to neighborhood characteristics revealed that:

(1) The use of weapons in robbery offending, particularly gun use, was more prevalent in neighborhoods with a higher percentage of blacks than in neighborhoods with a lower percentage of blacks. In addition, victimizations committed by youthful and adult offenders in high percent black neighborhoods were of a more serious nature than those in all-white neighborhoods.

(2) In low economic status neighborhoods, juveniles and youthful offenders, but not adult offenders, were more likely to use weapons than their counterparts in high economic status neighborhoods.

-5-

(3) Neighborhood residential mobility, structural density and unemployment were unrelated to both extent of weapon use and the seriousness of the victimization event.

I. Introduction

In the third monograph of this series (Laub and Hindelang, 1981) national victimization surveys were utilized to examine the similarities and differences in juvenile criminal behavior across urban, suburban, and rural areas. The analysis indicated that the involvement of juveniles in serious criminal offending (rape, robbery, assault, and personal larceny) varied considerably by extent of urbanization. For example, it was shown that juvenile rates of offending were generally higher in urban than in suburban areas, which in turn were higher than in rural areas.

-6-

The focus of this monograph shifts from the urban-rural dimension to an examination of the relationship between neighborhood characteristics and patterns of juvenile victimization and offending. As a government report issued by the National Institute for Juvenile Justice and Delinquency Prevention on the assessment of serious juvenile crime has recently argued:

> Generally, the often discussed urban, suburban, rural, and city size rankings of crime are, and should be giving way to discussions of enclaves, neighborhoods, and contexts which increasingly appear to be the critical spatial 'correlates' of serious juvenile crime. Policy and control priorities must now break down the urban and suburban areas into segments and subareas of crime. Crime control and prevention efforts would learn much from the exercise, although it is apparent that it is this topic about which least information is available (Smith and Alexander, 1980:26-27).

The opportunity to address these important research and public policy issues is made possible through the availability of National Crime Survey (NCS) data. In this report NCS data in conjunction with neighborhood characteristics data from the Bureau of the Census are brought to bear on an understanding of the neighborhood contexts of criminal victimization.

Prior Ecological Research

Shaw and McKay (1931, 1942) were among the first American sociological researchers to explore systematically the ecological variations of delinquency rates within a major city. Operating within the theoretical confines of the human ecological framework of Park and Burgess (1916, 1925), Shaw and McKay demonstrated empirically that the highest rates in Chicago were located in deteriorated zones in transition next to the central city business and industrial district. These high crime areas were specifically characterized by low economic status, heterogeneity, and high rates of residential mobility. Later researchers have for the most part supported the findings of Shaw and McKay. For example, Lander (1954), Bordua (1958), Schmid (1960), and Chilton (1964) found that crime rates were negatively associated with the economic status of areas. In particular, Gordon (1967) reanalyzed the data sets employed by Lander, Bordua and Chilton and concluded that a socioeconomic (SES) factor strongly emerges as an ecological correlate of official delinquency. Research has also supported the notion that crime is more prevalent in areas characterized by racial heterogeneity and residential mobility (see e.g., Lander, 1954; Willie and Gershonivitz, 1964). In addition to the ecological dimensions emphasized by Shaw and McKay, empirical relationships have been demonstrated between local crime rates and such factors as density, area unemployment, and family structure (see, e.g., Chilton, 1964; Beasley and Antunes, 1974; Danziger, 1976). Despite the quantity and continuity of research spawned by Shaw and McKay, there has been a certain reluctance by criminologists to accept the validity of ecological correlates of crime. One reason for this is the fact that almost all ecological studies to date have utilized official police and court statistics. Besides general criticisms of official data (see, e.g., Black, 1970; Skogan, 1977; and Savitz, 1978) there are deficiencies in

-7-

police data particularly relevant to an ecological analysis. For example, it has been argued that less powerful groups are disproportionately selected for official processing from among those engaging in criminal behavior (e.g., Quinney, 1970; Chambliss and Seidman, 1971). If so, neighborhood or precinct differences in police deployment patterns could affect the arrest data between neighborhoods of varying demographic characteristics. Chambliss and Seidman make such an argument with respect to class differences in criminal behavior:

-8-

Typically the police limit their search for potential crimes to lower-class sections of the city . . Crime will be prevalent where we look for it, not because of the inherent criminality of the areas surveyed, but merely because so many of the things that people do in their daily lives are against the law that any area inundated with policemen will show a correspondingly high rate (1971:330,31).

From this viewpoint, ecological correlations found in traditional studies between economic status and crime are a consequence of the selective patrol of lower socio-economic neighborhoods rather than of actual differences in the behavior of varying populations. Therefore, it is crucial to bring to bear on the ecology of crime question a data source that does not reflect criminal justice system biases that might exist.¹

Another limitation of extant ecological research relying on official data is a dearth of information regarding the <u>elements</u> of crime incidents. Dunn (1974:85) has argued that crime incident characteristics add important information to the analysis of the distribution of crimes in relation to environmental attributes. For instance, research has shown that the areal distribution of crimes can in part be explained as a function of the offense itself (e.g., Schmid, 1960, Scarr, 1972; and Dunn, 1974). Dunn, for example, demonstrated that the patterning of burglary across ecological areas changed when different characteristics of the offense were considered (i.e., residential, day vs. night, items stolen). Moreover, recent analysis of National Crime Survey victimization data (McDermott and Hindelang, 1981) has shown that the elements of victimization within similar legal crime categories (e.g., weapon use and injury in robbery) vary considerably among different demographic subgroups of the population. The question may then be raised whether the elements of victimization also vary across neighborhood characteristic dimensions. The weight of the evidence seems to suggest, then, that there is a need for ecological research to take into account differences in the elements of the victimization experience such as weapon use and injury in order to more fully understand the neighborhood contexts of criminal victimization.

Perhaps the most potent force impeding the development of ecological research over the years has been the "ecological fallacy" (Robinson, 1950), in which the relations among individuals are inferred from information pertaining to aggregate data. The criticisms levied at ecological research arising from the ecological fallacy have tended to separate the study of individual level variables from the study of environmental level variables. By suggesting that inferences between levels were inappropriate, attention has focused on analysis at each level independent of the other. This distinction, however, is neither necessary nor desirable, for it diverts attention from an analysis of relationships between individual and ecological levels. As Scheuch (1969) has argued, the most fertile uses of ecological data are those in which it is possible to combine <u>both</u> aggregate and individual data. Indeed, as Kornhauser (1978) has commented after a recent review of delinquency research:

> It is disheartening to find, therefore, that the influence of community contexts has been assumed rather than established. Few studies have been designed simultaneously to examine the effects of both contextual and individual variables. (1978:83)

-9-

Thus, to date we have little information on how aggregate neighborhood characteristics influence serious criminal behavior independent of the personal characteristics (e.g., age, race, and sex) of victims and offenders. The Research Framework

Recently, the Law Enforcement Assistance Administration, in cooperation with the Bureau of the Census, has generated data about relatively serious crimes that are independent of the selection mechanisms of the criminal justice system. In this monograph these National Cr. - Survey (NCS) data for the years 1973-1978 are analyzed in conjunction with neighborhood characteristics data provided by the Bureau of the Census to explore the relationship between serious juvenile crime and the demographic/residential environment of the victim. The focus of the monograph is on juvenile victimization and the involvement of juveniles in serious offending (rape, robbery, aggravated and simple assault, and personal larceny) in relation to neighborhood characteristics. While an extensive review of the literature has indicated that a variety of social structural and physical characteristics of local areas are associated with area crime rates, the present analysis will focus on neighborhood economic status, unemployment, racial composition, residential mobility and structural density.²

The first question to be addressed in Section II will be the extent to which rates of personal victimization vary concomitantly with neighborhood characteristics. Rates of victimization will be analyzed for various subgroups of the population, as defined by the age, race, and sex of victim. Thus, this section will examine the relationship between neighborhood characteristics and rates of victimization controlling for individual demographic characteristics of the victim known to be associated with the likelihood of victimization. For example, are rates of victimization higher in low economic status neighborhoods

Description of the Data

-10-

than in high economic status neighborhoods as suggested by Shaw and McKay, taking into account individual characteristics such as age, race, and sex of victim? Section III of this monograph will focus on rates of offending for juveniles (12 to 17), youthful offenders (18 to 20), and adults (21 and over) in relation to neighborhood characteristics. The general question to be addressed is whether structural characteristics of neighborhoods are differentially related to the offending behavior of population subgroups. For example, are juvenile rates of offending higher in neighborhoods characterized by heterogeneity and mobility, as suggested by past ecological research utilizing official data (e.g., Shaw and McKay, 1942)? Rates of offending can shed light on this question in that they standardize the number of offenses attributable to a particular group in a neighborhood by the number of persons (potential offenders) in that subgroup residing in the neighborhood -- something that is not done in the analysis of rates of victimization.

Section IV of this report will examine the relationship between characteristics of the victimization event and the neighborhood contexts in which they occur. The major focus will be on the extent to which weapon use by juvenile, youthful, and adult offenders varies according to selected neighborhood characteristics. For example, is gun use more prevalent in low economic status neighborhoods? We will also examine whether the seriousness of the victimization event (i.e., injury and loss) varies across neighborhood characteristic dimensions. Before turning to the analysis, however, a brief description of the NCS data and its limitations regarding a neighborhood characteristics study is necessary.

The data to be analyzed in this report are from the NCS national sample, collected by the United States Bureau of the Census, in cooperation with the Law Enforcement Assistance Administration. In the national survey, probability

-11-

samples of both housing units and businesses were selected on the basis of a stratified, multistage, cluster design.³ The data used in this monograph cover the period from 1973-1978.

The total sample size interviewed annually for the national surveys is approximately 60,000 households containing about 136,000 individuals. The total interviewed sample is composed of six independently selected subsamples of about 10,000 households with 22,000 individuals. Each subsample is interviewed in successive months about victimizations suffered in the preceding six months; each subsample is interviewed twice per year. For example, in January 22,000 individuals (in 10,000 households) are interviewed. In the following month -- and in each of the next four succeeding months -an independent probability sample of the same size is interviewed. In July, the housing units and business units originally interviewed in January are revisited and interviews are repeated; likewise, the original February sample units are revisited in August, the March units in September, etc. Each time they are interviewed in the national survey, respondents are asked about victimizations they may have suffered during the 6 months preceding the month of interview.

Thus, the national survey is conducted using a panel design; the panel consists of addresses. Interviewers return to the same housing unit every 6 months. If the family contacted during the last interview cycle has moved, the new occupants are interviewed. If the unit no longer exists or is condemned, it is dropped from the sample, but new units are added to the sample periodically. This is accomplished by a continuing sample of new housing construction permits. No attempt is made to trace families that have moved.⁴ Generally speaking, housing units in the panel are visited a maximum of seven times, after which they are rotated out of the panel

and replaced by a new, independent probability sample; maximum time in the sample for any housing unit, then is 3 years. The data to be reported represent estimates of crimes occurring in the United States, based on weighted sample data.⁵ It is possible to make these estimates because a probability sample of respondents was surveyed. The interview completion rate in the national sample is about 95 percent or more of those selected to be interviewed in any given period, and hence population estimates are relatively unbiased by non-response.

This report is concerned with the personal crimes of rape, robbery, assault, and personal larceny. Although the survey also collects data on the commercial crimes of burglary and robbery these crimes will not be included here because there is no neighborhood characteristic information available for businesses. Our analysis requires reports from victims regarding what transpired during the event -- particularly regarding offender characteristics such as the perceived age of the offender -- and hence only those crimes generally involving contact between victims and offenders will yield this information. The details about what happened during the victimization event are gathered by means of personal interviews with the victims themselves.⁶

Depending on whether there was one or more than one offender reported by the victim to have been involved in the incident, victims are asked one of two series of questions relating to offender characteristics (see NCS household interview schedule in Appendix A). If a lone offender victimized the respondent, that offender's characteristics are simply recorded. If more than one offender was involved, it is possible to have offenders of different ages, sexes, and races. Because offender characteristics will be used repeatedly

-12-

-13-

throughout the monograph, Appendix C explains in detail research on the ability of victims to perceive accurately characteristics of the offender. In general, the tables and figures to be shown in the monograph in which both lone and multiple-offender incidents are included will use the age of the oldest multiple offender. Preliminary analysis shows that more often than not multiple offenders fall into the same age group; for this reason, whether the youngest or the oldest multiple offender is used has little impact on the results (see Appendix C).

On the basis of the details of precisely what transpired -- whether force or threat of force was used by the offender, whether some theft was attempted or completed, whether serious injury was sustained, etc. -- crimes are classified according to definitions used in the Uniform Crime Reports (FBI, 1978). The elements constituting these definitions are shown in Appendix E for each of the major types of crime examined here.

Neighborhood Characteristic Data

Within the NCS data there are a set of variables described as neighborhood characteristics. These data were developed by the Bureau of the Census from a 15 percent sample of the 1970 Census (Shenk and McInerney, 1978). Fifty five variables containing information regarding the demographic, social and economic characteristics of neighborhoods of sampled households within the National Crime Survey are available. The Bureau of the Census has presented these variables in ratio form, with a range from .00 to .99. For example, one variable is the ratio of families with less than \$5,000 family income to total families in the neighborhood. A value of .50 for this variable would indicate that 50 percent of the families in the surveyed neighborhood have family incomes of less than \$5,000.

follows:

utilized by the Census Bureau resulted in neighborhoods being relatively compact, contiguous, and homogeneous areas approximately the size of a census tract (U.S. Bureau of the Census, undated). These neighborhood characteristics were matched on a household bases for the data years 1973 to 1978. Each household record in the sample thus contains neighborhood characteristic information about the area in which the household was sampled. Because neighborhood characteristics were derived from the 1970 census, all housing units constructed since then (about 9 percent of the sample) do not have neighborhood characteristic data. The NCS neighborhood characteristics data allow the researcher the opportunity to categorize housing units on the criterion of similarity of ratio values for a particular neighborhood characteristic. Accordingly, the data set used in this report for analyzing the relationship between crime and neighborhood characteristics is formed by combining households with similar ratio values.⁸ For example, a NCS household located in a Los Angeles neighborhood homogeneous on race (e.g., 0 percent black) will be aggregated together with a household, say, in a New York neighborhood homogeneous on race (i.e., also 0 percent black). The resulting variable (percent black) will represent neighborhoods all over the country aggregated together into categories representing an ordered classification of racial composition.

-14-

The definition of neighborhand developed by the Census Bureau is as

To preserve confidentiality, neighborhoods are not census tracts, minor civil divisions or other units for which census data are published. Rather, neighborhoods are usually contiguous, computer aggregated enumeration districts (ED's) or block groups with a population minimum of 4,000 (Shenk and McInerney, 1978:22).7

-15-

A study of these neighborhoods has indicated that the aggregation procedure

Thus, neighborhoods as defined above are conceptualized as areas marked by their similarity according to neighborhood characteristic dimensions, rather than as clearly identifiable geographic entities.

-16-

Methodological Concerns

The NCS-neighborhood characteristics data provide the researcher with an abundance of information that allows an innovative analysis capable of overcoming many of the shortcomings of previous research. However, the NCS data as a source of information on the ecology of crime has its own shortcomings as well. McInerney (1978) has studied the feasibility of using neighborhood characteristics in conjunction with the NCS data and had raised several questions on the methodological adequacy of a neighborhood analysis (see also Shenk and McInerney, 1979).

The first and potentially most damaging limitation of the NCS data that McInerney points out is the fact that neighborhood characteristics are matched with the location of the victim's household, not the place where crimes might have occurred. Since the aim of this report is to examine the relationship between neighborhood characteristics and criminal victimization it is important to ascertain the extent to which the location of the victimization event and the offender's residence coincide with the victim's neighborhood. In order to shed light on this issue, a brief literature review is warranted.

While McInerney (1978:6) has argued that NCS personal crimes can occur almost anywhere, much ecological research has in fact shown that crime represents a highly localized phenomenon. As Sutherland and Cressey state in their text Criminology:

> Generally, the places at which crimes are committed are close to the residences of the criminals. This is especially characteristic of crimes against the person, for the offender and the victim are usually of the same race, and same economic class, and also the <u>same</u> <u>neighborhood</u>. (1974:181, emphasis added)

1965; and Curtis, 1974).

Sutherland and Cressey are not alone in their evaluation of this aspect of crime. Baldwin and Bottoms, conducting original research, concluded that "Criminality, in general, and juvenile delinquency in particular, is often very much of a local nature" (1976:98). Many studies have supported Baldwin and Bottom's finding that juveniles travel less than adults to commit crimes (Chappell, 1965; Suttles, 1968; Turner, 1969). For example, Suttles (1968) found that 65 percent of all offenses committed by juveniles occurred within a 1/2 square mile area of their homes. Turner (1969) found that 75 percent of all juvenile offenses occurred within one mile of the delinquent's home. Even for adults, when offenders do travel for any type of crime, they usually travel short distances (Normandeau, 1968; Amir, 1971; Capone and Nichols, 1976; Frisbie et al., 1977; Phillips, 1980). For instance, White (1932) found that the mean distance travelled for assault was less than one mile. Eralason (1946) discovered that 87 percent of all sex offenders committed their offenses within their own neighborhoods.

Moreover, there is reason to believe that the residence of the victim, the residence of the offender, and the victimization event all take place in the same local geographical area (Amir, 1971; MacDonald, 1971; Reiss, 1967; Mulvihill et al., 1969; Normandeau, 1968, Chappell and Singer, 1973; Dunn, 1974; Pope, 1975). In particular, Amir (1971:91) notes in his Philadelphia rape study that in "82 percent of known cases, offender and victim live in the same neighborhood or vicinity, while in 68 percent a neighborhood triangle occurred, that is, offenders lived in the vicinity of the victims and offense." Taken together, the available evidence indicates that a sizeable proportion of all crime, especially juvenile crime, is "ecologically bound" - that is, crimes occur near the residences of <u>both</u> the victim and offender (see also Crook, 1934; Radzinowicz, 1957; Pokorny, 1965; and Curtis, 1974).

-17-

Although the above literature review supports the notion that the majority of crime is "ecologically bound." it is not possible with the NCS data to determine empirically the exact location of all personal victimizations. By analyzing the percent distribution of personal victimizations by place of occurrence (item 112 on the NCS questionnaire), McInerney demonstrates that only about one-fifth of all personal crimes of violence occurred "at home" (in own dwelling) or "near home" (e.g., garage, yard, etc.) in 1973. Consequently, he argues that 80 percent of all personal crimes of violence for that year are not amenable to analysis because the neighborhood in which the crimes occurred is not known. However, the body of literature cited above suggests that a significant proportion of this 80 percent constitutes intra-neighborhood victimizations. Indeed, the NCS place of occurrence category "on street, in park, field, playground, schoolyard, etc.," representing about 45 percent of all personal crimes, almost certainly includes many victimizations that took place in the victim's neighborhood. Hence, it does not appear justified to infer, as does McInerney, that "only 'at home'or 'near home' personal incidents occurred within the respondents' own neighborhood" (1978:6, emphasis added). The "at or near home" place of occurrence category is in effect measuring only those victimizations that took place on the victim's property (i.e., yard, garage, house). The problem, then, is that the NCS instrument does not separate victimizations occurring in the victim's neighborhood but not on the victim's property from those victimizations occurring elsewhere.10

Although the NCS data do not allow for an exact appraisal of the percentage of the total personal victimizations that took place in the victim's neighborhood, they nevertheless allow the researcher the opportunity to compare and contrast total personal victimizations with that subset of victimizations which explicitly

occurred in the victim's neighborhood (i.e., at home). If most victimizations take place within or very near the victim's neighborhood, and neighborhood characteristics are in fact associated with the likelihood of victimization independent of the personal characteristics of individuals, then we should expect a strong parallel between "at or near home" victimization rates and total personal victimization rates. Accordingly, in a preliminary data analysis crime-specific rates of victimization based on all personal victimizations were compared with crime-specific rates of victimization based solely on "at or near home" incidents. The results showed that to a large degree the two sets of rates exhibited very consistent patterns across neighborhood characteristic dimensions, thus suggesting that the relationships found between neighborhood characteristics and total personal victimization rates are not spurious due to possible misclassification.¹¹ In addition, even for those victimizations that took place outside the neighborhood boundaries defined by the Census Bureau, it seems reasonable to assume on the basis of the literature cited above that a large percentage occurred in adjacent neighborhoods. Given the highly segregated nature of American society, it is likely that the majority of neighborhoods adjacent to one's own neighborhood are very similar with respect to the neighborhood characteristics studied in this report (e.g., economic status, structural density, and racial composition). Therefore, an analysis of the relationship between neighborhood characteristics and total personal victimizations seems justified.

In sum, the procedure to be followed throughout the monograph will be to present and discuss rates of victimization and offending based on all personal victimizations. In turn, these rates will be compared with rates based solely on "at or near home" victimizations. In the few cases where discrepancies arise, they will be noted and explanations offered as to

-18-

-19-

their origin. Furthermore, for illustrative purposes, Appendix D presents rates of victimization and offending based exclusively on "at or near home" incidents for each neighborhood characteristic, controlling for the age of victim and age of offender, the individual-level variables of greatest concern in this report.

One final methodological concern to be addressed in this section 12 is the appropriateness of matching NCS data from 1973 to 1978 to neighborhood characteristics derived from the 1970 census. One might argue that neighborhoods have changed dramatically since 1970, thus calling into question the reliability of neighborhood characteristic identifiers when used with mid-1970's crime data. While this is a valid concern, it is important to remember that the neighborhood characteristic variables have been trichotomized (see note 8) to include as broad a range as possible. For example, one of the economic status variables is the percent of families with less than \$5,000 family income. This variable has been recoded into an ordered classification of neighborhoods high (0-10 percent), medium (11-26 percent), and low (27-99 percent) in economic status. Given this rather broad classification scheme, 13 it is not necessary to assume that all neighborhoods remained exactly the same from 1970 to 1978 in terms of the characteristics studied. The percentage of families making less than \$5,000 could increase or decrease over time and yet still fall within the range of the constructed categories. Moreover, what is of importance is not the absolute level of income but rather the relative rank ordering of neighborhoods in terms of economic status. In other words, given changes in absolute levels of income, it is still reasonable to assume that the rank ordering of most neighborhoods in 1970 is the same as in the years 1973-1978. Even if incomes rose steadily throughout

the 1970's, a low economic status neighborhood in 1970 would in all likelihood still be a low economic status neighborhood in 1975, relative to medium and high economic status neighborhoods. In this instance, what is important is the relationship between relative economic status and criminal victimization, not the relationship between some absolute level of income (which is subject to constant change) and victimization. in an effort to further explore whether the analysis should be confined to the early years of available NCS data (1973-1974) or be extended to the later years (up to 1978), rates of victimization were generated for selected neighborhood characteristics for three time periods: 1973-1974; 1973-1976; and 1977-1978. Patterns of victimization in relation to neighborhood characteristics were then compared for each time period. In brief, rates of victimization exhibited similar patterns across neighborhood characteristic dimensions from 1973-1978, thus suggesting that the form of the relationship between neighborhood characteristics and victimization did not appreciably change over time. Furthermore, additional analysis revealed that when crime-specific rates of victimization for 1973-1974 were regressed on comparable rates for 1975-1976 and 1977-1978, the resulting correlations were extremely high (.995 and .986, respectively). These results indicate that extending analysis to all the years in which NCS data is available (1973-1978) is justified.¹⁴ In conclusion, while certain methodological issues (i.e., place of occurrence) may still remain somewhat problematic, it is felt that the benefits to be gained from a neighborhood characteristics analysis far outweigh the costs. Therefore, our attention now shifts to an examination of the relationship between neighborhood characteristics and juvenile criminal victimization and offending. The next section focuses on patterns

-21-

of juvenile victimization across selected neighborhood characteristic dimensions. The following sections will center on the neighborhood contexts of juvenile offending and the elements of the victimization event.

Rates of Personal Victimization II.

> To date, ecological studies of crime and delinquency have not provided information on how rates of personal victimization vary across neighborhood characteristic dimensions. While past research utilizing victimization survey data has shown that urban residents are more likely to be victims of crime than rural residents (Gibbs, 1979, and Laub, 1980), an important question in the ecological realm still remains unaddressed: "Are rates of personal victimization related to the socio-demographic characteristics of the neighborhood in which one resides?" Since it is already known that certain groups of people have higher rates of victimization than other groups; for example, younger persons than older persons, males than females, and blacks than whites (Hindelang, 1976); the above question is most meaningfully addressed by ascertaining whether neighborhood characteristics are related to personal victimization independent of the personal attributes of victims. This will be accomplished by presenting rates of personal victimization across neighborhood characteristic dimensions holding constant major individuallevel correlates of victimization such as age, race, and sex.

The rates of victimization reported in this section are computed from the 1973-1978 national samples of the NCS. These data are used to estimate both the population base 12 years of age and older (persons under 12 are not eligible to be interviewed) and the number of victimizations that occurred annually in the United States. The rates reported here are the estimated annual rates computed from six years of data (1973population subgroup of interest. Neighborhood Economic Status

Table 1 displays race, age and crime-specific rates of personal victimization across neighborhoods with varying economic status.¹⁶ Focusing first on rates of total personal victimization, one notices that neighborhood economic status has a slight negative relationship with theft victimization and no appreciable relationship with violent victimization. For example, neighborhoods characterized by low economic status (those wherein 27 or more percent of all families have less than \$5,000 family income) have a rate of theft victimization of 1,081 which is approximately 35 percent higher than the rate of 799 found in relatively high economic status neighborhoods (those wherein no more than 10 percent of all families have less than

-22-

1978). The rate of victimization is computed by dividing the number of victimizations by the number of persons in the population of interest. For example, to obtain a rate of total personal victimization for whites aged 21 or over living in low economic status areas, one takes the number of victimizations inflicted upon members of that population subgroup and divides that by the total number of whites aged 21 or over living in low economic status areas. This number is then multiplied by 100,000 to obtain a rate of victimization per 100,000 persons. All of the rates of victimization presented herein are rates per 100,000 persons in the

As noted in the introduction, past ecological research has consistently found a strong negative relationship between official crime and delinquency rates and the economic status of local areas (see e.g., Gordon, 1967). The question then arises as to whether personal victimization rates are also higher in neighborhoods characterized by low economic status. The percent of total families in a neighborhood with less than \$5,000 family income will be used to indicate neighborhood economic status.¹⁵

-23-

Table 1 Estimated annual rates of victimization in personal crimes (per 100,000 persons in each population subgroup), by race and age of victim, type of crime^a and neighborhood economic status, NCS national data, 1973-1978 aggregate

		Economic Status	
Race and age	(Perc	ent of total families w	ith
of victim and		than \$5,000 family inco	me)
type of crime	Low	Medium	High
	(27-99)	(11-26)	(0-10)
White: 12 to 17 Theft Violent	(4,178,351) ^b 892 3,871	(8,453,059) 1,312 4,898	(6,046,138) 1,186 4,731
18 to 20	(2,195,549)	(4,506,641)	(2,610,919)
Theft	1,356	1,460	1,507
Violent	5,695	6,654	6,216
21 or older	(24,914,964)	(50,470,804)	(30,686,492)
Theft	751	758	617
Violent	1,854	2,000	1,694
White total	(31,288,864)	(63,430,504)	(39,343,549)
Theft	811	881	762
Violent	2,389	2,714	2,454
Black: 12 to 17 Theft Violent	(1,783,878) 1,844 3,804	(1,195,867) 2,608 5,511	(258,714) 2,346 5,961
18 to 20	(803,736)	(528,635)	(109,151)
Theft	2,018	2,586	3,603
Violent	4,934	5,082	5,977
21 or older	(6,791,712)	(4,603,598)	(1,100,668)
Theft	2,023	2,016	1,503
Violent	2,131	2,356	2,336
Black total	(9,379,326)	(6,328,100)	(1,468,533)
Theft	1,986	2,171	1,805
Violent	2,685	3,177	3,241
Total:	(40,668,190)	(69,758,604)	(40,812,082)
Theft	1,081	998	799
Violent	2,457	2,756	2,482

^aTheft crimes include robbery and personal larceny. Violent crimes include rape, aggravated assault, and simple assault.

^bSix year average estimated number of persons in the population.

\$5,000 family income). In contrast, rates of violent victimization do not vary in a consistent manner with neighborhood economic status. When one focuses on race and age-specific rates of victimization it can be seen that for both black and white juveniles (12 to 17 years old), rates of theft victimization are highest in medium economic status neighborhoods (i.e., 11 to 26 percent of all families with less than \$5,000 family income). Black juvenile rates of violent victimization surprisingly show a monotonic increase as neighborhood economic status increases. This unexpected positive relationship holds for the violent and theft victimization of black 18 to 20 year olds and the theft victimization of white 18 to 20 year olds. For white adults (persons 21 years old or older), rates of theft victimization are highest in medium economic status neighborhoods.

The relatively weak and inconsistent relationship between neighborhood economic status and personal victimization noted above stands in contrast to the strong negative relationship consistently found between area economic status and crime rates in ecological studies utilizing official data. Possible explanations for this may lie in the nature of the differing data bases. For example, NCS data are generated independently of the criminal justice system whereas official data, by definition, are not. Perhaps the argument that ecological correlations found between area characteristics and crime are largely accounted for by selective enforcement of the law is valid (e.g., Chambliss and Seidman, 1971). Another possible explanation may be that because most prior ecological studies of crime have been city based and the present study utilizes a national data base, findings of the two are not comparable. That is, it might not be appropriate to compare urban based findings with findings derived from aggregating neighborhoods across the nation that are found in both urban and rural areas. If the nature of

-24-

-25-

the relationship between neighborhood economic status and victimization is different in urban areas than rural areas, then aggregating the data from both types of areas may mask the true relationship.

The NCS data set contains a variable which measures extent of urbanization according to definitions put forth by the Office of Management and Budget (Statistical Policy Division, 1975). These definitions classify areas into three types; 1) central cities within Standard Metropolitan Statistical Areas (SMSA's), 2) the balance of SMSA's (areas within SMSA's but outside central cities) and 3) non-metropolitan areas not situated in SMSA's. In the present analysis SMSA central cities will be designated as urban areas, the balance of SMSA's as suburban areas and areas outside SMSA's as rural areas (see also Laub and Hindelang, 1981).^{1/} An examination of the relationship between neighborhood economic status and personal victimization while holding constant extent of urbanization may help to shed light on the degree of consistency between findings of past ecological research and the present study.

Table 2 presents age and crime-specific rates of personal victimization across levels of neighborhood economic status, within urban, suburban and rural areas. Examining first total rates of personal victimization, one immediately notes the strong negative relationship exhibited between urban rates of personal victimization and neighborhood economic status and the weak, somewhat positive relationship between rural rates of victimization and neighborhood economic status. For instance, the rate of theft victimization for urban neighborhoods characterized by low economic status (2,665) is 57 percent higher than the rate for medium economic status neighborhoods (1,701), and almost 150 percent higher than the rate in high economic status neighborhoods (1,088). Differences between urban rates of violent victimization across neighborhood economic status are smaller but exhibit the same pattern.

Age of victim. extent of urbanizat and type of crime

12 to 17: SMSA Central Citi Theft Violent

> Balance of SMSA Theft Violent

Areas Outside of S Theft Violent

18 to 20: SMSA Central Citie Theft Violent

Balance of SMSA Theft Violent

Areas Outside of S Theft Violent

21 or older: SMSA Central Cities Theft Violent

> Balance of SMSA Theft Violent

Areas Outside of SN Theft Violent

Total: SMSA Central Cities Theft Violent

Balance of SMSA Theft Violent

Areas Outside of SM Theft Violent

^aTheft crimes include robbery and personal larceny. Violent crimes include rape, aggravated assault, and simple assault.

-26-

Table 2 Estimated annual rates of victimization in personal crimes (per 100,000 persons in each population subgroup), by age of victim, extent of urbanization, type of crime,^a and neighborhood economic status, NCS national data, 1973-1978 aggregate

		Economic Status	· · · · · · · · · · · · · · · · · · ·
ion,		(Percent of total famili	es with
	· · · · ·	less than \$5,000 family	income)
	Low	Medium	High
	(27-99)	(11-26)	(0-10)
es	(1 68/ 208)	b (2.00(.0(1))	·
	2.650	(2,884,244)	(1,401,189)
	5,899	2,001	1,806
	, - ; - ; - ;	0,478	5,862
	(663, 613)	(3 579 145)	(1 5/2 010)
	1,099	1,336	(4,J43,U19)
	5,279	5,316	1,125
		, , , , , , , , , , , , , , , , , , , 	4,000
SMSA	(3,657,983)	(3, 331, 543)	(446,208)
	505	602	452
	2,678	3,271	3,567
a c	(097 077)		
	(907,977)	(1,650,441)	(672,731)
	6 862	2,192	1,896
	0,002	/,222	6,740
	(399,611)	(1 607 250)	· · · · · · · · · · · · · · · · · · ·
	1,225	(1,097,338)	(1,914,155)
	6,529	1,5/3 6 3/0	1,567
	- , ,	0,549	6,062
MSA	(1,641,751)	(1,768,111)	(172 000)
	733	1.040	(1/2,999) 00%
	4,449	5,744	5 386
			5,500
-			
S	(8,929,505)	(19,352,276)	(8,707,118)
	2,634	1,526	911
	3,185	2,483	1,856
	(3 855 725)	(10	
	(3,033,733)	(18,994,902)	(21,432,305)
	2 200	710	569
	2,290	2,082	1,651
ISA	(19, 231, 335)	(17 501 192)	(0.000.000)
	296	(17,501,182)	(2,089,002)
1. A. A. A.	1.268	1 483	419
		1,405	1,683
1	(11,601,690)	(23, 886, 961)	(10.781.038)
	2,665	1,701	1.088
	3,890	3,292	2,681
	(4,918,959)	(24,271,405)	(27,889,479)
	1,023	862	728
	3,037	2,857	2,423
SA	(24 531 060)	(22,600,000)	(a = ia
	356	(22,000,836)	(2,708,209)
	1,574	410	455
	-,-,7	2,079	2,229

^bSix year average estimated number of persons in the population.

-27-

In contrast, rates of both theft and violent victimization in rural neighborhoods increase as the economic status of neighborhoods increases (28 and 42 percent, respectively).

Table 2 also indicates that there are age differences in the strength of the relationship between neighborhood economic status and personal victimization within categories of the urban-rural dimension. For example, rates of theft victimization for juveniles living in urban areas decrease from 2,650 to 1,806 as neighborhood economic status increases, the total decrease being about 32 percent. In contrast, rates of theft victimization for adults living in urban areas decrease 65 percent (2,634 to 911) as neighborhood economic status increases. Focusing on rural rates of personal victimization, neighborhood economic status is observed to be inconsistently related to the violent and theft victimization of both juveniles and 18 to 20 year olds. For adults, a weak positive relationship is exhibited between neighborhood economic status and both theft and violent rates of personal victimization. Generally, adult rates of both theft and violent victimization are more strongly related to neighborhood economic status than the rates of victimization for either juveniles or 18 to 20 year olds, regardless of extent of urbanization.¹⁸

In an effort to determine whether these results are due, in part, to the misclassification problem discussed earlier in this report, rates of victimization based solely on "at or near home" incidents were analyzed (see Appendix D, Table D1).¹⁹ To a large degree, these rates suggest that the findings derived from rates of victimization based on all incidents are not spurious due to misclassification. In urban and suburban areas, rates of victimization based on all incidents follow the same general pattern as rates based solely on "at or near home" incidents. For every age group in urban areas, "at or near home" rates of victimization decrease as neighborhood

economic status increases. Similar to suburban rates of victimization based on all incidents, "at or near home" suburban rates for juveniles and 18 to 20 year olds vary inconsistently with neighborhood economic status and decrease steadily for adults as economic status increases. For rural juveniles, total rates of personal victimization based on all victimizations increase steadily with neighborhood economic status as do rates based solely on "at or near home" incidents. However, there is some discrepancy evidenced in that the adult "at or near home" victimization rate in rural areas is highest in the medium economic status neighborhood, whereas adult rates shown in Table 2 for both theft and violent victimizations in rural areas is highest in the high economic status category. Therefore, conclusions regarding the relationship between adult personal victimization and economic status in rural areas must be tentative. However, given the strong parallels that are found, it is safe to conclude that in urban areas, low economic status neighborhoods exhibit higher rates of personal victimization than high economic status neighborhoods. This relationship is stronger for the victimization of urban adults than either urban juveniles or urba. 18 to 20 year olds. In contrast, rural juveniles living in low economic status neighborhoods have lower rates of personal victimization than rural juveniles living in higher economic status neighborhoods. In sum, the inconsistent patterns found in Table 1 among rates of personal victimization and neighborhood economic status were, in large part, eliminated by controlling for extent of urbanization. To the extent that victimization rates are a valid indicator of levels of crime, the above findings are consistent with past urban based ecological research (e.g., Shaw and McKay, 1942). That is, low economic status neighborhoods in urban areas have higher crime levels than high economic

-28-

-29-

status urban neighborhoods. The finding that juvenile personal victimization is positively related to neighborhood economic status in rural areas and that there are discrepancies between adult "at or near home" and total rates of personal victimization in rural areas indicates that further examination of the neighborhood contexts of rural victimization is warranted. Overall, these victimization survey data do suggest, in contrast to the assertion that traditional ecological correlates of crime (e.g., economic status) are largely the result of selective law enforcement, that there are indeed differences in criminal activity across ecological areas.²⁰

-30-

Neighborhood Unemployment

A great deal of contemporary research in the criminological area involves studying the relationship between unemployment and crime (Orsagh, 1980; Danser and Laub, 1981). While area unemployment is not conceptually as strong an indicator of economic status as the percentage of total families in a neighborhood with less than \$5,000 family income, researchers and theorists (Fleischer, 1963; Gibbs, 1966; Danziger, 1976) have argued that unemployment is an important variable that measures the economic opportunities present in local communities. Therefore, in an attempt to further investigate the relationship between neighborhood economic status and personal victimization, Table 3 presents race, age, and crime-specific rates of victimization across categories of neighborhood unemployment.

The marginal totals in Table 3 clearly indicate that rates of both theft and violent victimization are substantially higher in neighborhoods characterized by relatively high unemployment rates than neighborhoods having lower unemployment rates. The relationship between neighborhood unemployment is somewhat stronger for theft victimization than for violent Table 3 Estimated annual rates of victimization in personal crimes (per 100,000 persons in each population subgroup), by race and age of victim, type of crime,^a and neighborhood unemployment, NCS national data, 1973-1978 aggregate

type of crime White: 12 to 17 Theft Violent 18 to 20 Theft Violent 21 or older Theft Violent

Race and age

of victim and

White total Theft Violent

Black: 12 to 17 Theft Violent

18 to 20

Theft Violent 21 or older Theft Violent

Black total Theft Violent

Total: Theft Violent

^aTheft crimes include robbery and personal larceny. Violent crimes include rape, aggravated assault, and simple assault.

		and a second	-
	Unemployment		
(Percent of t old	otal civilian labor fo and over which is unem	rce 16 years	
Low (0-2)	Medium (3-5)	High (6-99)	
	(0 5)	(0-99)	-
(4,346,845) ^b	(9,754,915)	(4,575,786)	
1,009	1,133	1,434	
4,096	4,460	5,453	
(2,035,039)	(4,916,346)	(2,361,722)	
1,483	1,259	1,815	
6,050	5,945	7,277	
(24,022,120)	(56,378,391)	(25,671,749)	
574	688	909	
1,546	1,803	2,352	
(30,404,004)	(71,049,652)	(32,609,257)	
695	788	1,047	
2,202	2,606	3,138	
(315,494)	(1,392,933)	(1,530,031)	
1,302	2,031	2,467	
3,664	4,279	5,101	
(145,586)	(654,293)	(641,644)	
1,957	2,271	2,512	
7,019	4,644	5,056	
(1,342,432)	(5,606,219)	(5,547,327)	
1,249	1,740	2,388	
1,746	2,129	2,461	
(1,803,512)	(7,653,445)	(7,719,002)	
1,312	1,836	2,412	
2,498	2,732	3,197	
32,207,516)	(78,703,097)	.(40,328,259)	
729	890	1,308	
2,218	2,618	3,149	

bSix year average estimated number of persons in the population.

victimization. For example, rates of theft victimization increase a total of 80 percent as neighborhood unemployment increases (from 729 to 890 to 1,308) whereas comparable rates of violent victimization increase approximately 40 percent (from 2,218 to 2,618 to 3,149).

-32-

Focusing next on race and age-specific rates of victimization it is evident that for juveniles and adults of each racial group, victimization rates increase monotonically as neighborhood unemployment levels increase. The stronger relationship of neighborhood unemployment to theft victimization than violent victimization is more pronounced for blacks than whites. For black juveniles and adults, theft victimization rates in high unemployment areas are almost double the rates of low unemployment areas, whereas comparable rates for violent victimization are only about 40 percent greater in high versus low unemployment areas. For whites, the percentage differences are less substantial. For example white juvenile rates of theft victimization increase from 1,009 to 1,133 to 1,434, a total increase of 42 percent as neighborhood unemployment increases. whereas their comparable rates of violent victimization increase slightly less (33 percent) from 4,096 to 4,460 to 5,453 as neighborhood unemployment increases. In contrast to these consistent increases, there is relatively little pattern among rates of victimization for 18 to 20 year olds. Only for the theft victimization of blacks 18 to 20 years is there a monotonic, albeit small increase in rates as neighborhood unemployment increases.²¹

Since the nature of the relationship between neighborhood economic status and victimization was seen to vary somewhat between urban and rural areas, it is conceivable that this is true for neighborhood unemployment at well. Accordingly, the relationship between neighborhood

unemployment and personal victimization was examined controlling for extent of urbanization. It was found that although general patterns remained for every age group, neighborhood unemployment was more strongly related to the victimization of residents in urban rather than rural areas. For instance, the urban juvenile rate of total victimization was found to be 40 percent greater in high unemployment areas than in low unemployment areas (10,041 versus 7,199); whereas comparable rural juvenile rates of total victimization were found to be only 15 percent higher (3,876 versus 3,358, data not shown in tabular form).

The "at or near home" rates of victimization presented in Table D2 indicate that the above findings are not spurious due to misclassification. Further analysis controlling for race of victim and extent of urbanization separately lead to the same conclusion (data not shown in tabular form). In every instance except for black 18 to 20 year olds, ²² "at or near home" rates of victimization parallel closely rates of victimization based on all incidents. It thus seems safe to conclude that, generally, neighborhood unemployment has a moderate positive relationship with personal rates of victimization. This finding is consistent with past ecological research which has found a positive relationship between unemployment and official crime rates (e.g., Danziger, 1976; Kvalseth, 1977). Neighborhood Racial Composition The major ecological studies conducted in the United States have con-

sistently introduced a measure of racial composition into analysis. In the present study, racial composition is measured by the percentage of the neighborhood population which is black. Generally, intra-urban studies have found percent black to have a strong positive relationship with crimes rates based

-33-

on official data (e.g., Schmid, 1960; Schuessler, 1962; Beasley and Antunes, 1974).

-34-

Table 4 displays race, age and crime-specific rates of victimization across neighborhoods with varying racial composition. Focusing first on the marginal totals, it is immediately apparent that for both theft and violent victimizations, rates of personal victimization generally increase as the percent black within a neighborhood increases, with the relationship being stronger for theft victimization. For example, rates of theft victimization increase steadily from 634 to 931 to 1,275 to 2,948, as percent black increases, the increase totalling over 350 percent. In contrast, rates of violent victimization increase from 2,289 to 2,766 before decreasing slightly to 2,679 and then, once again, increase to 3,944 as percent black increases (total increase being approximately 70 percent). Thus, the racial composition of a neighborhood is clearly more strongly related to theft victimization than violent victimization. In this regard, it is also interesting to note that the ratio between rates of theft victimization and violent victimization in predominately black neighborhoods (.75) is much greater than the comparable ratio in all white neighborhoods (.28). This finding indicates that theft victimizations constitute a greater proportion of total victimizations reported to NCS interviewers in predominately black neighborhoods than in all white neighborhoods.

Turning to race and age-specific rates of personal victimization, it is observed that black rates of victimization vary with differences in the racial composition of a neighborhood in quite a different manner than white rates of victimization. Since whites comprise almost 90 percent of the

and	neighborhood racia	1 composition, NCS	national data, 19	73-1978 aggregat
Race and age		Racial Compos	ition	
of victim and		(Domocrat D	1 a a 1 a)	
type of crime	0	1-5	6-59	60-100
White:	the end event	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
12 to 17	$(10, 206, 562)^{\circ}$	(5,232,172)	(3,065,796)	(123,016)
Theft	980	1,219	2,482	8,179
Violent	4,104	4,611	5,127	26,184
18 to 20	(4,636,303)	(2,997,177)	(1,604,909)	(74,719)
Theft	1,172	1,690	1,468	8,523
Violent	5,887	6,634	6,180	21,817
21 or older	(55,683,051)	(30,384,978)	(19,034,201)	(970,029)
Theft	527	772	992	4,385
Violent	1,657	2,009	2,038	7,317
White total	(70,525,916)	(38,614,327)	(23,704,906)	(1,167,764)
Theft	634	903	1,216	5,049
Violent	2,289	2,720	2,717	10,232
Black:				
12 to 1/		(247,840)	(1,560,344)	(1,430,274)
Theft	-	1,401	1,504	2,978
Violent		5,787	3,744	5,308
18 to 20		(132,279)	(662,344)	(646,899)
Theft	-	3,338	1,461	2,991
Violent		6,630	4,699	4,791
21 or older		(1,066,089)	(5,633,031)	(5,796,858)
Theft	-	1,575	1,444	2,514
Violent		3,277	1,993	2,248
Black total		(1,446,208)	(7,855,719)	(7,874,031)
Theft	-	1,706	1,457	2,637
Violent		4,013	2,568	3,012
Total:	(70,525,916)	(40,060,535)	(31,560,625)	(9,041,795)
Theft	634	931	1,275	2,948
Violent	2,289	2,766	2,679	3,944
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	·		

aggravated assault, and simple assault.

^bSix year average estimated number of persons in the population.

-35--

total population, it is clear that their rates of personal victimization should closely parallel the total rates of personal victimization. Consequently, white rates of both theft and violent victimization generally increase as the percent black in a neighborhood increases. If analysis of white victimization rates is restricted to a comparison between all-white neighborhoods and neighborhoods that are 1 to 5 and 6 to 59 percent black, rates of victimization generally increase moderately (especially for violent victimization) as percent black increases for all three white age groups. In contrast, the magnitude of the rate increases between the 6 to 59 and 60 to 100 percent black categories for each age group is much larger. Taken together, the total percent increases are quite large. For example, white juvenile rates of theft victimization increase from 980 to 1,219 to 2,482 to 8,179 (a total increase of over 700 percent) as percent black increases. This total increase must be viewed with caution, however, owing to the fact that the estimated rate of white victimization presented in the 60 to 100 percent black category may be statistically unreliable due to the relatively small population base on which it is computed. Collapsing the two highest percent black categories into one category (6 to 100 percent) results in a much smaller total increase for white rates of victimization as percent black increases (e.g., 175 percent for white juveniles). Nevertheless, white rates of personal victimization, especially theft victimization, are generally strongly related to the racial composition of neighborhoods.

In contrast, except for black juvenile rates of theft victimization, rates of victimization for blacks of all ages are higher in predominately white (1 to 5 percent black) neighborhoods or neighborhoods with a majority of blacks (60 to 100 percent black) than in neighborhoods with 6 to 59 percent of the population being black.²³ For example, as percent black in a neighborhood increases, rates of black juvenile violent victimization decrease from 5,787 to 3,744 before increasing to 5,308. Once again, due to relatively small population bases, the reader should be cautious in interpreting the estimated rates of victimization presented for black juveniles and 18 to 20 year olds in the 1 to 5 percent black category. A noteworthy finding revealed in Table 4 is that white rates of victimization are higher than black rates of victimization for juveniles and 18 to 20 year olds living in neighborhoods that are 6 to 59 percent black. For example, the white juvenile rate of theft victimization is 2,482 while the black juvenile rate of victimization is 1,504. These data suggest that racial differences in victimization are in large part dependent on the neighborhood context. An examination of the relationship between neighborhood racial composition and personal victimization controlling for extent of urbanization revealed that the general patterns noted above maintained within categories of the urban-rural dimension (data not shown in tabular form). In contrast to the neighborhood economic status measures, neighborhood racial composition was not found to be more strongly related to resconal victimization in urban rather than rural areas. Furthermore, "at or near home" rates of personal victimization across neighborhoods with varying racial composition (see Table D3) closely parallel the rates based on all victimizations. ²⁴ In general, "at or near home" rates increase as percent black in a neighborhood increases, with the relationship being stronger for theft victimization than violent victimization. It thus seems reasonable to conclude that the relationship between percent black and personal victimization is not spurious due to misclassification.

-36-

-37-

Neighborhood Residential Mobility

Ecological studies have indicated that communities characterized by high residential mobility have higher crime levels than those communities which have more stable, less mobile populations (see, e.g., Longmoor and Young 1936; Shaw and McKay, 1942; Clinard, 1964). Within Shaw and McKay's (1942) theoretical framework, community mobility was considered an important cause of delinquency. Mobility was hypothesized to lead to community instability and weak social controls which in turn accounted for delinquency. Shaw and McKay showed that official delinquency rates in Chicago were correlated with the percentage decrease or increase in population, rates being highest in areas with declining population. If community mobility is indeed positively related to delinquent behavior, then rates of personal victimization should also be highest in those areas characterized by high residential mobility.

-38-

Although the indicator of community mobility used here is different (percent of persons 5 years old or older living in the same house as 5 years ago) than the one employed by Shaw and McKay, the age, race and sex-specific rates of total personal victimization presented in Table 5 support Shaw and McKay's finding that community mobility is positively related to crime. For every population subgroup, neighborhood residential mobility exhibits a strong monotonic positive relationship with victimization rates. That is, persons living in neighborhoods characterized by high residential mobility (a low percentage of persons living in the same house as 5 years ago) have higher rates of victimization than persons living in neighborhoods with low residential mobility. For example, white male juvenile rates of victimization increase steadily from 5,590 to 7,465 to 9,990 as residential mobility increases, a total increase of almost 79

Race, sex

and age of victim

White male: 12 to 17 18 to 20 21 or older White male total

Black male: 12 to 17

18 to 20

21 or older

Black male total

White female: 12 to 17

18 to 20

21 or older

White female total

Black female: 12 to 17

18 to 20

21 or older

Black female total

Total:

	Residential Mobility		
(Percent of	total persons 5 years o	ld and over	
livin	<u>g in same house as 5</u> yea	rs ago.)	
Low	Medium	High	
(63-99)	(47-62)	(0-46)	
5,590 (2,491,128) ^a	7,465 (4 795 114)	9,990	-
7,667	9,182	13,685	
(1,035,108)	(2,110,801)	(1,445,917)	
2,389	3,102	4,895	
(12,667,969)	(24,956,599)	(12,689,723)	
3,218	4,161	6,369	
(16,194,205)	(31,862,514)	(16,383,268)	
6,909	8,724	10,915	
(361,572)	(791,471)	(457,313)	
5,292	8,628	10,931	
(142,288)	(300,804)	(224,381)	
4,198	5,242	6,055	
(1,202,014)	(2,719,659)	(1,622,373)	
4,863	6,231	7,494	
(1,705,874)	(3,811,934)	(2,304,066)	
3,155	3,822	5,080	
(2,351,821)	(4,635,720)	(2,156,135)	
3,632	5,116	6,806	
(1,043,435)	(2,192,963)	(1,484,883)	
1,405	1,738	2,687	
(14,055,269)	(27,903,527)	(13,799,173)	
1,744	2,229	3,333	
(17,450,525)	(34,732,210)	(17,440,191)	
3,372	4,093	6,560	
(389,893)	(769,079)	(469,130)	
5,017	5,035	9,014	
(169,237)	(355,681)	(249,130)	
2,770	3,218	4,124	
(1,547,792)	(3,411,735)	(1,992,406)	
3,061	3,508	4,995	
(2,106,922)	(4,536,495)	(2,710,666)	
2,591	3,322	4,965	
(37,457,526)	(74,943,153)	(38,838,191)	

Table 5 Estimated annual rates of victimization in total personal crimes (per 100,000 persons in each population subgroup), by race, sex and age of victim, and neighborhood residential mobility, NCS national data, 1973-1978 aggregate

^aSix year average estimated number of persons in the population.

-39-

percent. In fact, for most of the population subgroups, rates of victimization are almost twice as high in neighborhoods characterized by high residential mobility than they are in areas marked by less residential mobility. Even for black male adults and black female adults, those groups whose victimization is least related to neighborhood mobility, areas marked by greater mobility exhibit rates of victimization which are almost 1.5 times greater than areas characterized by a less mobile population. For example, black male adult rates increase from 4,198 to 6,055 as neighborhood mobility increases, a total increase of 44 percent. Thus, neighborhood mobility is related to victimization in a manner largely independent of the race, sex and age of neighborhood residents. In addition, the positive relationship between mobility and victimization is not altered when extent of urbanization is introduced as a control variable (data not shown in tabular form).

A crime specific analysis has revealed that neighborhood mobility has an equally strong relationship with theft victimization as for violent victimization for all the population subgroups in question (data not presented in tabular form). The crime-specific "at or near home" rates of personal victimization presented in Table D4 support not only the general finding that neighborhood mobility is positively related to victimization but also that there are no significant type of crime differences in this relationship.²⁵ For example, the marginal totals in Table D4 show that both theft and violent victimization rates are about twice as high in areas characterized by high mobility than areas marked by low residential mobility (207 versus 99 and 818 versus 373, respectively). It thus seems apparent that the strong relationship evidenced between neighborhood mobility and victimization is not spurious due to victim migration. Furthermore, this relationship is equally strong for theft and violent victimizations, and for all the population subgroups examined.

Structural Density

An increasing number of criminologists have argued that the ecological studies of crime spawned by Shaw and McKay have concentrated on the relationship between the social environment and crime to the neglect of the relationship between the physical environment and crime (Jeffrey, 1977). In response to such criticisms of traditional ecological research, a growing number of studies have focused on the relationship between crime and characteristics of the physical environment (e.g., land use patterns, building designs - see Newman, 1972). In the present study, we will examine the relationship between the structural density of a neighborhood, defined by the percentage of total units within a neighborhood which are in structures of 5 or more units, and rates of personal victimization. Although this indicator can be interpreted as a general measure of the physical environment (see e.g., Choldin and Roncek, 1976), it is likely that structural density is strongly related to population density (i.e., high structurally dense neighborhoods also have a high population density). If so, then the findings from this study can be compared to studies examining the relationship between population density and crime. These studies generally find a positive association between the two variables (e.g., Schmitt, 1957; Bloom, 1966: Schmid and Schmid, 1972; Beasley and Antunes, 1974). The marginal totals in Table 6 indicate that neighborhood structural density has a strong positive relationship with both theft and violent rates of victimization, the strength of the relationship being somewhat weaker for violent victimization. As neighborhood structural density increases from low (0 percent of units in structures of 5 or more units)

-40-

-41-

Table 6 Estimated annual rates of victimization in personal crimes (per 100,000 persons in each population subgroup), by sex and age of victim, type of crime, and neighborhood structural density, NCS national data, 1973-1978 aggregate

Of Victum and type of crime (Percent of total units in structures of 5 or more units) how Medium High High (0) (1-11) (12-99) Male: (0) (1-11) (12-99) Male: (2,535,377) ^b (5,911,240) (2,839,495) Theft 1,226 1,689 3,369 Violent 4,436 5,754 6,863 18 to 20 (995,928) (2,667,980) (1,676,827) Theft 1,440 1,701 2,884 Violent 5,569 7,881 9,608 21 or older (10,923,985) (28,777,534) (16,906,316) Theft 540 723 1,755 Violent 1,788 2,402 3,336 Male total (14,455,290) (37,356,754) (21,422,638) Theft 722 944 2,054 Violent 2,559 3,313 4,464 18 to 20 (931,616) (2,725,971) (1,906,810) Theft 345 1,052 1,672<	Sex and age		Structural Densi	ty		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	type of crime	(Percent of total units in structures of 5 or more units)				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Lype of clime	Low	Medium	High		
Male: 12 to 17 Theft $(2,535,377)^b$ $(5,911,240)$ $(2,839,495)$ Theft $1,226$ $1,689$ $3,369$ Violent $4,436$ $5,754$ $6,663$ 18 to 20 $(995,928)$ $(2,667,980)$ $(1,676,827)$ Theft $1,440$ $1,701$ $2,884$ Violent $5,569$ $7,881$ $9,608$ 21 or older $(10,923,985)$ $(28,777,534)$ $(16,906,316)$ Theft $5,569$ $7,23$ $1,755$ Violent $1,788$ $2,402$ $3,356$ Male total $(14,455,290)$ $(37,356,754)$ $(21,422,638)$ Theft 722 944 $2,054$ Violent $2,512$ $3,318$ $4,303$ Female: 12 to 17 $(2,396,206)$ $(5,755,340)$ $(2,753,431)$ Theft 376 534 924 Violent $2,559$ $3,313$ $4,464$ 18 to 20 $(931,616)$ $(2,725,971)$ $(1,906,810)$ Theft 345 $1,052$ $1,672$ Violent $3,320$ $3,952$ $5,278$ 21 or older $(11,742,502)$ $(31,980,012)$ $(19,763,010)$ Theft 348 456 $1,389$ Violent 899 $1,176$ $1,3861$ Female total $(15,070,324)$ $(40,461,323)$ $(24,423,251)$ Theft 352 507 $1,358$ Violent $1,313$ $1,764$ $2,417$ Total: $(29,526,614)$ $(77,818,077)$ $(45,863,889)$ Theft		(0)	(1-11)	(12-99)		
Male: (2,535,377) ^b (5,911,240) (2,839,495) 17heft 1,226 1,689 3,369 Violent 4,436 5,754 6,863 18 to 20 (995,928) (2,667,980) (1,676,827) Theft 1,440 1,701 2,884 Violent 5,569 7,881 9,608 21 or older (10,923,985) (28,777,534) (16,906,316) Theft 540 723 1,755 Violent 1,788 2,402 3,336 Male total (14,455,290) (37,356,754) (21,422,638) Theft 722 944 2,054 Violent 2,512 3,318 4,303 Female: (2,396,206) (5,755,340) (2,753,431) Theft 376 534 924 Violent 2,359 3,313 4,464 18 to 20 (931,616) (2,725,971) (1,906,810) Theft 3,320 3,952 5,778 21 or older (11,742,502) (31,980,012) (19,763,010) Theft						
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Theft5337171,683Violent1,8992,5103,298	Total:	(29,526,614)	(77,818,077)	(45,845,889)		
Violent 1,899 2,510 3,298	Theft	533	717	1,683		
	Violent	1,899	2,510	3,298		

Theft crimes include robbery and personal larceny. Violent crimes include rape, aggravated assault, and simple assault.

^bSix year average estimated number of persons in the population.

to high (12 percent or more of units in structures of 5 or more units). rates of theft victimization more than triple (533 to 717 to 1,683) while rates of violent victimization less than double (1,899 to 2,510 to 3,298). Examination of the relationship by sex and age of victim reveal comparable or even greater relative differences in rate increases between theft and violent victimization for every population subgroup except 18 to 20 year old males. For this population subgroup, neighborhood structural density is only slightly more related to theft victimization than violent victimization (rate increases being 100 percent versus 75 percent, respectively). Nevertheless, it is apparent that for every population subgroup represented in this table, rates of victimization increase monotonically and substantially as neighborhood structural density increases. Introducing race of victim into this analysis does little to change these patterns. For every race, age and sex specific population subgroup, once again, rates of victimization are about twice as high in high structurally dense neighborhoods than less structurally dense neighborhoods (data not presented in tabular form). If structural density is strongly related to population density, then it is possible that structural density is simply a proxy measure of a major known correlate of victimization -- extent of urbanization (e.g., Gibbs, 1979). It should be noted that the two major criteria for defining areas as urban are population size and density (see Laub, 1980). To examine the above possibility, the relationship between neighborhood structural density

and personal victimization was analyzed controlling for extent of urbanization.

The data presented in Table 7 indicate that rates of victimization vary in the same direction as neighborhood structural density in urban, suburban, and rural areas. However, the relationship between neighborhood structural

-42-

-43-

Table 7 Estimated annual rates of victimization in total personal crimes (per 100,000 persons in each population subgroup), by age of victim, extent of urbanization, and neighborhood structural density, NCS national data, 1973-1978 aggregate

Age of victim and extent of	S	tructural Density	
urbanization	(Percent of total	of 5 or more units)	
	Low	Medium	High
	(0)	(1-11)	(12-99)
12 to 17.			
SMSA Central Cities	7,793	8,410	8,919
	(584,219) ^a	(2,505,628)	(2,879,793)
Balance of SMSA	5,279	6,036	7,037
	(1,960,368)	(4,612,210)	(2,213,198)
Areas Outside of SMSA	2,717	3,787	5,258
	(2,386,996)	(4,548,802)	(499,935)
18 to 20.			
SMSA Central Cities	8,284	8,285	10,283
	(238,961)	(1,255,977)	(1,816,211)
Balance of SMSA	5,879	7,786	8,865
	(747,267)	(2,019,114)	(1,244,744)
Areas Outside of SMSA	4,273	6,171	8,593
	(941,317)	(2,118,861)	(522,684)
21 or older:	2,848	3,431	4,843
SMSA Central Cities	(2,761,378)	(14,168,536)	(20,058,986)
Balance of SMSA	2,044	2,344	3,243
	(8,250,793)	(22,664,688)	(13,367,460)
Areas Outside of SMSA	1,318	1,687	3,126
	(11,654,315)	(23,924,323)	(3,242,881)
Total:	4,016	4,466	5,716
SMSA Central Cities	(3,584,558)	(17,930,141)	(24,754,990)
Balance of SMSA	2,884	3,300	4,157
	(10,958,428)	(29,296,012)	(16,825,402)
Areas Outside of SMSA	1,726	2,309	4,045
	(14,982,628)	(30,591,986)	(4,265,500)

^aSix year average estimated number of persons in the population.

density and victimization is stronger in rural areas than urban areas. For example, juveniles living in urban areas have rates that only increase a total of 14 percent as structural density increases (7,793 to 8,410 to 8,919) whereas comparable rates for juveniles living in rural areas increase over 90 percent (2,717 to 3,787 to 5,258). These relative differences in rate increases across urban and rural areas generally maintain for the other age groups. It is also interesting to note that the relationship between neighborhood structural density and personal victimization, regardless of extent of urbanization, is generally weakest for juveniles and strongest for adults. For instance, as noted above, urban juvenile rates of victimization increase only 14 percent as neighborhood structural density increases. In contrast, rates for urban adults increase 70 percent from 2,848 to 3,431 to 4,843 as structural density increases.

The above discussion indicates that neighborhood structural density is more than a mere proxy variable for extent of urbanization. Quite to the contrary, it allows the researcher to specify the relationship between extent of urbanization and personal victimization. Earlier studies have found that urban rates of victimization are generally higher than suburban rates which are in turn higher than rural rates (Gibbs, 1979; Laub and Hindelang, 1981). The present study has shed additional light on this relationship by suggesting that at least for adults, personal victimization is related to the interaction of urbanization and neighborhood structural density. For example, Table 7 shows that rural adults living in relatively high structurally dense areas have slightly higher rates of victimization than urban adults living in low structurally dense neighborhoods (3,126 versus 2,848). Thus for adults, it is not solely the larger type of area

-44-

-45-

residence (i.e., urban versus rural) but also the more local type of area residence (i.e., low structural density versus high structural density) which is reflected in rates of personal victimization. In contrast, juvenile rates of victimization are always lower in rural than suburban areas, which are in turn lower than urban rates, regardless of the structural density of the neighborhood.

-46-

Examination of rates of victimization based on "at or near home" incidents, once again, revealed that the relationship found between a neighborhood characteristic (in this instance, structural density) and victimization is not spurious due to the misclassification of victimization events. For every age group and type of crime, "at or near home" rates closely parallel rates based on all victimization incidents (see Table D5). Thus, we can conclude that neighborhood structural density is, indeed, strongly related to personal victimization, with the substantial positive relation being stronger for theft victimization than violent victimization and among rural residents than urban residents. To the extent that structural density is related to population density, these results generally support studies finding a positive relationship between density and crime (Schmitt, 1957; Bloom, 1966; Beasley and Antunes, 1974).

Summary

In this section of the report we have examined the relationship between selected neighborhood characteristics and rates of victimization as indicated by reports to NCS interviewers, controlling for individual demographic characteristics of the victim known to be associated with the likelihood of victimization (e.g., age, race, and sex). Some of the major findings of this analysis include:

Neighborhood economic status. Controlling for extent of urbanization, analysis revealed that in urban areas, neighborhood economic status has a moderate negative relationship with victimization. That is, as neighborhood economic status increases, rates of personal victimization decrease. The relationship was found to be stronger for adult victimization than juvenile victimization and for theft rather than violent victimization. In contrast, rural juveniles have higher rates of victimization in high economic status neighborhoods than low economic status neighborhoods. Generally, for rural adults the relationship was weak and inconsistent. Neighborhood unemployment. The relationship between neighborhood

unemployment and victimization was found to be moderate and positive for juvenile and adult victimization, but weak and inconsistent for 18 to 20 year old victimization. The relationship was stronger for theft than violent victimization, especially among blacks. Extent of urbanization differences were also revealed with urban victimization being more strongly related to neighborhood unemployment than rural victimization.

Neighborhood residential mobility. This characteristic was found to have a relatively strong positive relationship with the victimization of all the population subgroups examined (age, race, and sex-specific). In most instances, rates of victimization in neighborhoods characterized by high residential mobility were twice as large as comparable rates in neighborhoods marked by low residential mobility.

Neighborhood racial composition. White rates of victimization were found to be positively related to the percent black in neighborhoods. This relationship was found to be stronger for theft victimizations than violent victimizations. In contrast, black rates of victimization were higher in predominately white neighborhoods or predominately black neighborhoods than in the intermediate percent black cagetory.

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-47-

<u>Neighborhood structural density</u>. The relationship between neighborhood structural density and victimization was found to be strong and positive for all population subgroups, but comparatively stronger with adult victimization than juvenile victimization. Neighborhood structural density was found to be more strongly related with theft victimization than violent victimization and rural victimization than urban victimization.

III. Rates of Offending

To this point in the analysis our examination of neighborhood characteristics has relied exclusively on rates of victimization. It should be emphasized at this point that prior ecological research utilizing official data has focused on the relationship between ecological variables and crime and delinquency rates derived from offender based arrest data. Accordingly, we now shift the focus of attention from the victim to the offender. That is, rates of <u>offending</u> for age and race-specific population subgroups will be analyzed across neighborhood characteristic dimensions. The major question to be addressed is whether selected neighborhood characteristics are related to the involvement of juveniles in serious criminal offending.

The rates of offending reported in this section are designed to parallel arrest data by taking into account the total number of offenders in each age and race subgroup theoretically at risk of being arrested for the offense reported to survey interviewers. This is accomplished by summing the total number of offenders in each age and race subgroup for each victimization event. For example, if one victim reports having been victimized by one black adult and two white juveniles and another victim reports having been victimized by one white juvenile and one black adult, the race and age subtotals for these victimizations would be two black adults and three white juveniles. This subtotalling process continues across all incidents reported to survey interviewers and results in a total number of offenders for each race and age subgroup. These subgroup totals serve as the numerators for the rates of offending reported in this section; the denominators are estimates of the number of persons in the general neighborhood population (i.e., potential offenders) in each race and age subgroup. Rates of offending are reported per 100,000 potential offenders and they convey the extent to which persons with particular demographic characteristics are disproportionately involved as offenders in personal victimizations (Hindelang and McDermott, 1981:40).²⁶

Before turning to the analysis, it is necessary to address certain limitations of the NCS data when used to study rates of offending in relation to neighborhood characteristics. In the above section total rates of victimization were compared to rates of victimization computed from the subset of victimizations which occurred "at or near home." In this manner the possible influence of victim migration on patterns of victimization was empirically assessed. However, when the focus shifts to rates of offending an additional concern arises, namely, the residence of the offender. In the NCS data set there is no mechanism by which to determine where the offender lives. Even if a victimization occurred in the victim's neighborhood, the offender may have migrated there from his/her own residential neighborhood. As Schmid (1960) and Boggs (1965) have shown, high offender residence and high offense occurrence areas do not necessarily coincide. Certain structural characteristics of neighborhoods (e.g., high income) may differentially attract offenders from distant areas for certain crimes (e.g., burglary). Because rates of offending standardize for the number of potential offenders in the victim's neighborhood, substantial offender migration will distort patterns of offending when considered in

-48-

-49-

relation to neighborhood characteristics.

In an effort to minimize whatever effects may result from offender migration, the primary focus of this section will be the relationship between neighborhood characteristics and age-specific rates of offending. Besides the fact that age is the major offender characteristic of interest in this monograph, prior ecological research has shown that juveniles travel less than adults to commit crimes, especially for personal crimes (Chappell, 1965; Suttles, 1968; Turner, 1969; Baldwin and Bottoms, 1976; Phillips, 1980). Turner (1969), for example, found that 75 percent of all juvenile offenses occurred within one mile of the delinquent's home. In one of the most recent studies available on this topic, Phillips (1980:175) found that the mean distance travelled by juveniles for assault was relatively short--0.7 of a mile. Hence, it appears that juvenile offending rates are inherently less subject to error introduced by offender mobility than offending rates computed for other demographic subgroups, particularly since little is known about the mobility patterns of race and sex-specific subgroups (see Phillips, 1980).

-50-

Furthermore, by limiting the focus to an age-specific analysis, the result is to increase the population bases upon which the rates are calculated. That is, when the offending data are examined by age, race, and sex of offender across neighborhood characteristic dimensions, the bases upon which the rates are calculated are significantly reduced in number. This is especially true for race-specific rates of offending for two compounding reasons. First, blacks represent only about 12 percent of the U.S. population. Second, the distribution of blacks across the economic status and percent black variables is highly skewed. For example, Neighborhood Economic Status

only 8 percent of all blacks live in high economic status neighborhoods. When this already small black population base is further disaggregated by age and sex, the absolute number of remaining cases is extremely reduced

(e.g., less than 200 unweighted cases in some categories). Thus, even a small amount of offender migration, in conjunction with a small population base, may produce unreliable rates. Contrariwise, when the data are analyzed only by age, the population bases in most instances are sufficiently large that it would take a considerable amount of offender mobility (i.e., more than the literature suggests) to alter the general patterns of offending. Therefore, in an attempt to reduce the possible effects of offender migration bias, the following analysis concentrates on the relationship between agespecific rates of offending and neighborhood characteristics.

Table 8 presents age and crime-specific rates of offending across categories of neighborhood economic status. The marginal totals show that the rate of theft offending is highest in lower economic status neighborhoods, the rate of 1,619 being approximately 60 percent higher than the rate of 1,010 in higher economic status areas. Violent offending shows a weaker relationship, with the highest rate of 4,318 exhibited in the middle economic status category. While the total theft offending pattern is consistent with past research utilizing delinquency data, it is apparent that this relationship is accounted for largely by the offending behavior of adults. For example, the adult theft offending rate of 1,070 in low economic status areas is twice the corresponding rate of 523 found in high economic status areas, with medium economic status areas falling in the middle (787). The juvenile offending patterns, however, do not fall

-51-

Table 8 Estimated annual rates of offending in personal crimes (per 100,000 potential offenders in each population subgroup), by age of offender,^a type of crime,^b and neighborhood economic status, NCS national data, 1973-1978 aggregate^C

~52-

Ass of offender		Economic Status		
and type of	(Perce less t	(Percent of total families with less than \$5,000 family income)		
	Low (27-99)	Medium (11-26)	High (0-10)	
12 to 17:	(6,005,803) ^d	(9,794,931)	(6,390,416)	
Theft Violent	2,723 5,563	3,090 7,510	2,055 6,590	
18 to 20:	(3,029,340)	(5,115,910)	(2,759,885)	
Theft Violent	5,229 7,772	4,097 10,759	4,263 11,966	
21 or older:	(32,016,575)	(55,848,360)	(32,228,426)	
Theft Violent	1,070 2,460	787 2,501	523 2,086	
Total: ^e	(41,051,718)	(70,759,201)	(41,378,727)	
Theft Violent	1,619 3,306	1,345 4,318	1,010 3,442	

^aIncludes perceived age of lone and perceived age of oldest multiple offender.

^bTheft crimes include robbery and personal larceny. Violent crimes include rape, aggravated assault, and simple assault.

^CExcluded are incidents (about 6 percent of the total) in which the victim did not know whether there was one or more than one offender.

 $^{\mathrm{d}}\mathrm{Six}$ year average estimated number of persons in the population.

^eExcluded are incidents (about 4 percent of the total) in which the victim did not know the age of offender.

into line with expectations derived from past ecological research focusing on offenses of juveniles in official records (e.g., Shaw and McKay, 1942). The victimization survey data shown in Table 8 indicate that for both theft and violent crimes, juvenile offending is highest in the medium economic status category, and not in the lowest. In the analysis of victimization rates, extent of urbanization was shown to be an important variable in specifying the relationship between economic status and personal victimization. Consequently, Table 9 displays age and crime-specific rates of offending across categories of neighborhood economic status, controlling for extent of urbanization. Focusing on total rates of theft offending, one notes that the rate in low economic status urban neighborhoods (4,187) is 3 times higher than the theft rate of offending in high economic status urban neighborhoods (1,397). In contrast, the relationship between economic status and theft offending in rural areas is negligible (443 versus 462). Moreover, these general patterns hold for all offender age groups. For juvenile (12 to 17), youthful (18 to 20), and adult (21 and over) offenders, rates of theft offending in urban areas show a strong, monotonic decrease as neighborhood economic status increases. For example, the rate of juvenile theft offending of 7,318 in low economic status urban areas is more than twice the rate of 3,305 in high economic status urban areas. Adult theft offending is 4 times higher in low economic status than in high economic status urban neighborhoods. Violent offending rates, on the other hand, are rather weakly and inconsistently related to economic status for all age groups in urban areas. In contrast, both the violent and the theft rates of offending for suburban juveniles and adults are negatively related to neighborhood economic status.

-53-

Table 9 Estimated annual rates of offending in personal crimes (per 100,000 potential offenders in each population subgroup), by age of offender, a extent of urbanization, type of crime, b and neighborhood economic status, NCS national data, 1973-1978 aggregate^C

-54-

· · · · · · · · · · · · · · · · · · ·	Economic Status			
Age of offender,	(Percent of total families with			
extent of urbanization	Low	High		
and type of crime	(27-99)	(11-26)	(0-10)	
12 to 17:	b ca car acard	(2 884 244)	(1,401,189)	
SMSA Central Cities	(1,684,208)	(2,804,244)	3,305	
Theft	7,318	11 042	9,219	
Violent	10,060	11,042	· • • • • •	
	(663,613)	(3,579,145)	(4,543,019)	
Balance of SMSA	3,171	2,553	1,836	
Thert	8 996	7.744	6,064	
Violent	0,000			
Among Outside of SMSA	(3,657,983)	(3,331,543)	(446,208)	
Areas outside of billion	526	784	353	
Inell	2,870	4,202	3,701	
VIOLENC				
18 to 20:			((70 701)	
SMSA Central Cities	(987,977)	(1,650,441)	(6/2,/31)	
Thoft	11,714	8,129	6,533	
Violent	10,574	14,030	14,157	
VIOLENC			(1 01/ 155)	
Balance of SMSA	(399,611)	(1,697,358)	(1,914,155)	
That	2,964	3,312	3,728	
Violont	7,989	11,436	11,404	
ATOTALL			(170,000)	
Areas Outside of SMSA	(1,641,751)	(1,768,111)	(1/2,999)	
Theft	1,877	1,086	1,362	
Welcht	6,034	7,058	9,652	
VIOLENC	· · · · ·			
21 or older:		(10 152 276)	(8.707.118)	
SMSA Central Cities	(8,929,505)	(19,552,270)	693	
Theft	2,764	1,2/3	2 263	
Violent	4,029	2,923	2,205	
	·	(10,00(,002)	(21 432 305)	
Balance of SMSA	(3,855,735)	(10,994,902)	465	
Theft	961	704	2 043	
Violent	2,923	2,576	2,010	
	(10,001,025)	(17 501 182)	(2,089,002)	
Areas Outside of SMSA	(19,231,335)	340	411	
Theft	305	1 950	1,780	
Violent	1,639	1,250		
P				
Total:	(11 601 690)	(23,886,961)	(10,781,038)	
SMSA Central Citles	4 187	2,368	1,397	
Theft	5 /62	4,671	3,909	
Violent	5,402			
	(4.918.959)	(24,271,405)	(27,889,479)	
Balance of SMSA	1 400	1,159	912	
Thett	4 154	3,959	3,340	
Violent	4,1J4	- /	1	
	(24 531,069)	(22,600,836)	(2,708,209)	
Areas Uutside of SmbA	443	464	462	
Thert	2.117	2,682	2,599	
Violent		•		

^aIncludes perceived age of lone and perceived age of oldest multiple offender.

^bTheft crimes include robbery and personal larceny. Violent crimes include rape, aggravated assault, and simple assault.

cExcluded are incidents (about 6 percent of the total) in which the victim did not know whether there was one or more than one offender.

d Six year average estimated number of persons in the population.

^eExcluded are incidents (about 4 percent of the total) in which the victim did not know the age of offender.

The interaction effect arising from a dual consideration of neighborhood economic status and extent of urbanization is further evidenced when one considers in more detail the theft offending behavior of juveniles. In high economic status urban neighborhoods the juvenile theft offending rate of 3,305 is 9 times higher than the theft rate of 353 in high economic status rural neighborhoods. In contrast, the juvenile theft offending rate of 7,318 in urban low economic status neighborhoods is 14 times higher than the corresponding rate of 526 in low economic status rural neighborhoods. A similar but even stronger pattern is evident for adult theft offending. It appears, then, that the relationship between urbanization and criminal offending is to a large extent dependent on the local neighborhood context. In a similar vein, the relationship between neighborhood economic status and offending is more properly understood when considered in the wider context of the urban-rural dimension.

The relationship between economic status and age-specific offending rates controlling for extent of urbanization was further analyzed for those personal crimes occurring "at or near home" (see Table D6). As in Table 9, juvenile "at or near home" theft offending rates decrease monotonically as neighborhood economic status increases within urban areas. For example, the theft offending rate of 925 in low economic status, urban neighborhoods is approximately 4 times higher than the corresponding rate of 214 in high economic status, urban neighborhoods. The violent "at or near home" offending rate for juveniles in urban areas is highest in the medium economic status category, as was the case for total violent victimizations in Table 9. Overall, the parallel between the "at or near home" patterns and the total patterns is quite strong, especially for the major offender subgroup of interest -- juveniles. That is, the juvenile offending rate for theft crimes

-55-

is highest in low economic status urban neighborhoods for both sets of rates. Thus, to the extent that juvenile offenders commit crimes near their residences the findings in Table 9 regarding juveniles are not spurious due to victim migration.

In sum, when the relationship between neighborhood economic status and offending is considered without reference to the wider context of extent of urbanization, juvenile offending is weakly related to economic status, while adult offending shows a slight decrease as economic status increases. When the data are examined by extent of urbanization, both "at or near home" and total juvenile theft offending are negatively related to neighborhood economic status in urban areas. Violent offending, on the other hand, is highest in the middle economic status category for juvenile offenders in urban areas. For theft offending, then, these victimization survey data are in substantial agreement with prior ecological research utilizing official data that found a negative relationship between delinquency and economic status in urban areas (e.g., Shaw and McKay, 1942; Schmid, 1960; Chilton, 1964). The data also indicate that adult offending for both theft and violent crimes is highest in low economic status urban neighborhoods. Similarly, juvenile and adult offending were also found to have a negative relationship with neighborhood economic status in suburban areas. Thus, these victimization survey data do not support the claim that urban and metropolitan based ecological correlations between economic status and official crime rates are simply the result of differential police patrol of lower socio-economic status urban neighborhoods (e.g., Chambliss and Seidman, 1971). Quite to the contrary, rates of juvenile and adult victimization, juvenile theft offending, and adult offending (both theft and violent) are higher in lower economic status urban areas, both for total personal victimizations and for those personal victimizations that occurred at or near the victim's home. Neighborhood Unemployment Table 10 displays age and crime-specific rates of offending across categories of neighborhood unemployment. The marginal totals show that rates of offending in both theft and violent crimes are higher in the highest neighborhood unemployment category than in the medium or low categories. This pattern holds for all offender age groups. For example, the juvenile offending rate in theft crimes of 3,768 in high unemployment neighborhoods is approximately twice as great as the corresponding rate of 1,951 in low unemployment neighborhoods. Violent offending by juveniles is somewhat more weakly related to unemployment, with the rate in the high unemployment category (7,904) being approximately 35 percent higher than the violent rate of 5,886 in low unemployment neighborhoods. This crime-type difference is evidenced for all offender age groups, especially adults. For instance, the adult increase in rates of theft offending as neighborhood unemployment increases is 150 percent, whereas the corresponding violent offending increase is approximately 50 percent. In brief, neighborhood unemployment exhibits a rather strong positive relationship with the offending rates of juveniles, 18 to 20 year olds, and adults, particularly for theft crimes.

Table D7 in Appendix D also reveals that the patterns noted above remain when only "at or near home" victimizations are considered. For example, the juvenile offending rate in "at or near home" theft crimes in high unemployment neighborhoods is 75 percent higher than the "at or

-56-

-57-

Table 10 Estimated annual rates of offending in personal crimes (per 100,000 potential offenders in each population subgroup), by age of offender, type of crime,^b and neighborhood unemployment, NCS national data, 1973-1978 aggregate^C

		Unemployment		
Age of offender and type of crime	(Percent of total civilian labor force 16 years old and over which is unemployed)			
	Low (0-2)	Medium (3-5)	High (6-99)	
12 to 17:	(4,714,880) ^d	(11,278,233)	(6,198,035)	
Theft Violent	1,951 5,886	2,411 6,415	3,768 7,904	
18 to 20:	(2,205,904)	(5,646,587)	(3,052,642)	
Theft Violent	3,541 9,727	4,172 9,938	5,632 11,152	
21 or older:	(25,689,586)	(62,669,027)	(31,734,746)	
Theft Violent	487 1,926	699 2,263	1,221 2,972	
Total: ^e	(32,610,370)	(79,593,847)	(40,985,423)	
Theft Violent	905 3,026	1,188 3,396	1,935 4,327	

^aIncludes perceived age of lone and perceived age of oldest multiple offender.

^bTheft crimes include robbery and personal larceny. Violent crimes include rape, aggravated assault, and simple assault.

^cExcluded are incidents (about 6 percent of the total) in which the victim did not know whether there was one or more than one offender.

^dSix year average estimated number of persons in the population.

eExcluded are incidents (about 4 percent of the total) in which the victim did not know the age of offender.

near home" theft rate in low unemployment neighborhoods. The overall positive relationship between offending and neighborhood unemployment is maintained for all offender age groups in "at or near home" incidents. In addition, neighborhood unemployment is positively related to agespecific offending rates (particularly theft) regardless of extent of urbanization. Unlike percent of families with less than \$5,000 family income, unemployment is positively related to theft offending for juveniles even in rural areas (data not shown in tabular form). Thus, introducing extent of urbanization as a control variable does not alter the general relationships noted in Table 10. In sum, the overall positive relationship found between neighborhood unemployment and NCS age-specific offending rates is congruent with prior cross-sectional research utilizing official data that has shown unemployment to be positively related to crime and delinquency (e.g., Kvalseth, 1977). Neighborhood Racial Composition Table 11 presents age-specific rates of offending in theft and violent crime across categories of neighborhood racial composition (percent black). For all offender age groups and the marginal totals, one notes a rather

strong, consistent increase in rates of theft offending as percent black increases. For instance, the juvenile offending rate in theft crimes in high percent black (60 to 100) neighborhoods of 8,462 is over 5 times higher than the corresponding rate of 1,607 in all white neighborhoods. The strength of the positive relationship between percent black and juvenile theft offending is magnified by the size of the rate in the high percent black category. It should be noted, however, that this category has a relatively small population base (7 percent of the total),

-58-

-59-

Table 11 Estimated annual rates of offending in personal crimes (per 100,000 potential offenders in each population subgroup), by age of offender,^a type of crime,^b and neighborhood racial composition, NCS national data, 1973-1978 aggregate^c

	Racial Composition				
and type of crime		(Percent Black)			
	0	1-5	6-59	60-100	
12 to 17:	(10,322,582) ^d	(5,584,290)	(4,726,664)	(1,557,611)	
Theft Violent	1,607 5,687	2,700 7,298	3,152 7,146	8,462 10,186	
18 to 20:	(4,690,707)	(3,192,046)	(2,296,715)	(725,665)	
Theft Violent	3,220 10,075	3,544 10,362	5,485 9,186	13,153 14,030	
21 or older:	(56,233,437)	(32,065,536)	(24,989,415)	(6,804,970)	
Theft Violent	466 2,065	699 2,563	1,090 2,473	2,813 3,752	
Total: ^e	(71,246,726)	(40,841,872)	(32,012,794)	(9,088,246)	
Theft Violent	812 3,117	1,194 3,819	1,709 3,644	4,606 5,675	

^aIncludes perceived age of lone and perceived age of oldest multiple offender.

^bTheft crimes include robbery and personal larceny. Violent crimes include rape, aggravated assault, and simple assault.

^CExcluded are incidents (about 6 percent of the total) in which the victim did not know whether there was one or more than one offender.

 d Six year average estimated number of persons in the population.

^eExcluded are incidents (about 4 percent of the total) in which the victim did not know the age of offender.

-60-

and hence the magnitude of the rate increase from the 6 to 59 to the 60 to 100 percent black category should be viewed with caution. When the columns are collapsed to create a 6 to 100 percent black category the juvenile theft rate is 4,468, as compared to 8,462 in the original 60-100 percent black category. Although considerably reduced in magnitude, the rate is nevertheless over 2.5 times higher than the juvenile theft rate of 1,607 in all-white neighborhoods. Violent offending, on the other hand, shows a weaker yet still overall positive relationship with percent black for all age groups. Even though there is virtually no difference between the 1 to 5 and 6 to 59 percent black categories for juvenile, youthful, and adult offenders in violent crimes, age-specific rates of violent offending in the 60 to 100 (or 6 to 100) percent black category are still higher than the respective rates in 0 percent black neighborhoods.

In addition, the patterns discussed above generally remain the same when only "at or near home" victimizations are analyzed, especially for theft victimizations (see Table D8). It can be seen that the theft offending rates for all offender age groups in "at or near home" incidents are positively related to percent black. This positive relationship between "at or near home" theft offending and percent black is further realized when the columns are collapsed to form the category 6 to 100 percent black. In this case the theft rates in the highest percent black category are at least twice as high as the theft rates in 0 percent black neighborhoods, for all age groups. As in Table 11, the violent "at or near home" rates show a weaker but nonetheless positive relationship with percent black for juvenile,

In sum, percent black shows a relatively strong positive relationship with both total and "at or near home" offending rates for each offender age group, with the relationship being stronger for theft crimes. Moreover,

-61-

this positive relationship is manifested in urban, suburban, and rural areas (data not shown in tabular form). It should be emphasized here, however, that racial composition is a characteristic of aggregates and not of individuals. Thus, although percent black may be positively related to crime rates, it does not necessarily follow that black individuals are responsible for this relationship. Lander (1954) for example, found that the percentage of blacks in Baltimore census tracts was positively related to overall delinquency rates. However, black delinquency rates were actually higher in areas of maximum racial heterogeneity (percent black = 50) rather than in either low or very high percent black areas. Another study utilizing official data sources (Quinney, 1964) found that non-white juvenile delinquency rates were highest in census tracts with the lowest proportion of non-whites. Unfortunately, since the population bases for blacks living in low percent black neighborhoods is by definition small, coupled with the fact the blacks represent only 12 percent of the population, the data here do not permit a reliable analysis of black offending rates across the categories of percent black. As mentioned earlier, even a small amount of offender migration in conjunction with small population bases may produce unreliable rates. Neighborhood Residential Mobility

Shaw and McKay (1942) demonstrated that official delinquency rates were positively correlated with the residential mobility of Chicago census tracts. Do victimization survey data support this finding using the percent of total persons 5 years and over living in the same house as 5 years aso as a measure of mobility? Table 12 displays race, age, and crime-specific rates of offending across neighborhood residential mobility dimensions. It should

Race and age of offender and type of crime

White:

12 to 17 Theft Violent

18 to 20 Theft Violent

21 or older Theft Violent

White total:e Theft Violent

Black:

12 to 17 Theft Violent

18 to 20 Theft Violent

21 or older Theft Violent

Black total: Theft Violent

Total:^e Theft Violent

aggravated assault, and simple assault.

offenders of "mixed" races.

not know the age of offender.

-62-

Table 12 Estimated annual rates of offending in personal crimes (per 100,000 potential offenders in each population subgroup), by race and age of offender,^a type of crime,^b and neighborhood residential mobility, NCS national data, 1973-1978 aggregatec

	Residential Mobili	tv
(Percent of	total persons 5 ye	ars old and
Low	in same house as 5 Medium	years ago)
(63-99)	(47-62)	(0-46)
(4,842,949) ^d	(9,430,834)	(4,403,764)
773	872	1,206
3,664	4,434	5,498
(2,078,543)	(4,303,764)	(2,930,800)
1,818	1,503	1,292
6,879	6,952	8,023
(26,723,238)	(52,860,126)	(26,488,896)
214	232	494
1,230	1,699	2,582
(33,644,730)	(66,594,724)	(33,823,460)
394	453	656
1,931	2,430	3,434
(751,465)	(1,560,550)	(926,443)
12,078	10,555	11,827
11,555	15,906	18,317
(311,525)	(656,486)	(473,511)
24,321	19,013	21,171
20,519	21,320	22,082
(2,749,805)	(6,131,395)	(3,614,778)
3,135	3,48 <u>1</u>	5,273
3,880	4,757	7,351
(3,812,795)	(8,348,431)	(5,014,732)
6,634	6,031	7,890
6,756	8,150	9,266
(37,457,525)	(74,943,155)	(38,838,192)
1,030	1,072	1,601
2,423	3,065	4,186

^aIncludes perceived age of lone and perceived age of oldest multiple offender.

^bTheft crimes include robbery and personal larceny. Violent crimes include rape,

 $^{
m c}$ Excluded are incidents (about 8 percent of the total) in which the victim did not know whether there was one or more than one offender and incidents involving

 d_{Six} year average estimated number of persons in the population.

 $e_{Excluded}$ are incidents (about 4 percent of the total) in which the victim did

-63-
be noted here that because percent black and mobility are weakly related (gamma = -.13, See Appendix B), the distribution of blacks across mobility categories is not highly skewed as it was for economic status, unemployment and percent black. The data here are thus more amenable to an analysis of offender characteristics by race and age.

The marginal totals in Table 12 indicate that total rates of theft and violent offending are related to residential mobility in a moderate, positive direction, with the strength of the relationship being stronger for violent offending. For example, the violent offending rate of 4,186 in neighborhoods characterized by a higher rate of residential mobility is approximately 70 percent higher than the violent offending rate of 2,423 in low residential mobility neighborhoods. Theft offending shows a monotonic but slightly weaker increase as mobility increases. When the data are disaggregated by age and race of offender, one notes that white juveniles exhibit higher theft and violent offending rates in the high residential mobility category. Black juveniles show a relatively large increase in violent rates of offending (58 percent) as residential mobility increases but virtually no relationship for theft rates of offending. Both black and white adults, on the other hand, exhibit monotonic increases in both theft and violent offending as the residential mobility of neighborhoods increases. For example, the white adult offending rate of 494 for theft crimes in high mobility neighborhoods is more than twice as large as the corresponding theft rate of 214 in neighborhoods with lower residential mobility. Both black and white 18 to 20 year old offenders exhibit weak and inconsistent relationships with mobility for theft and violent crimes. (However, the population bases for black 18 to 20 year olds are quite small, and therefore the percentage changes must be viewed with caution.)

In addition, the above analysis was performed utilizing only those incidents reported by victims' to have occurred "at or near home" (see Table D9). The "at or near home" patterns parallel the total offending patterns described above. For example, the juvenile offending rate in theft crimes in high residential mobility neighborhoods is over 2 times greater than the corresponding theft rate in neighborhoods characterized by low residential mobility (349 versus 166). Further "at or near home" analysis reveals that this pattern holds for both black and white juveniles (data not shown in tabular form). In sum, to the extent that juvenile offenders commit crimes near their homes, these victimization survey data indicate that juvenile offending for both whites and blacks is positively related to neighborhood residential mobility. Although employing a different measure of mobility, the above results are supportive of Shaw and McKay's (1942) finding that official delinquency rates are positively related to community population turnover.

Structural Density Table 13 persents race and age-specific rates of offending by type of crime across dimensions of neighborhood structural density.²⁷ Prior ecological research has generally found area density to be positively related to official crime and delinquency rates (e.g., Schmitt, 1957; Bloom, 1966; Beasley and Antunes, 1974). To the extent that neighborhood population density and structural density are positively related, it appears from Table 13 that victimization data provide no exception to this general finding. Focusing first on the marginal totals, one notes the overall strong positive relationship between rates of offending and structural density, particularly for rates of theft offending, which increase over 200 percent from the low to high category (635 to 2,106). Moreover, it can be seen

-64-

-65-

-66-

Table 13 Estimated annual rates of offending in personal crimes (per 100,000 potential offenders in each population subgroup), by race and age of offender,^a type of crime,^b and neighborhood structural density, NCS national data, 1973-1978 aggregate^C

Race and age of		Structural Density	
type of crime	(<u>Percent of total</u> Low (0)	units in structures o Medium (1-11)	f 5 or more units) High (12-99)
White:			
12 to 17	(4,282,050) ^d	(10,210,641)	(4,184,856)
[*] Theft Violent	558 3,007	839 4,695	1,508 5,488
18 to 20	(1,682,817)	(4,734,650)	(2,895,641)
Theft Violent	946 5,334	1,306 7,214	2,161 8,496
21 or older	(20,546,778)	(55,155,596)	(30,369,886)
Theft Violent	244 1,340	269 1,727	486 2,250
White total: ^e	(26,511,645)	(70,100,887)	(37,450,383)
Theft Violent	339 1,862	423 2,535	729 3,094
Black:			
12 to 17	(607,844)	(1,344,305)	(1,286,309)
Theft Violent	4,752 9,683	9,092 15,397	16,632 18,572
18 to 20	(229,143)	(602,747)	(609,632)
Theft Violent	10,597 20,776	18,434 23,061	27,138 19,983
21 or older	(1,964,168)	(5,084,088)	(5,447,722)
Theft Violent	2,167 3,634	3,083 5,254	5,341 5,978
Black total: ^e	(2,801,155)	(7,031,140)	(7,343,663)
Theft Violent	3,419 6,352	5,550 8,723	9,126 9,344
Total: ^e	(29,312,800)	(77,132,027)	(44,794,046)
Theft Violent	635 2,293	890 3,098	2,106 4,119

^aIncludes perceived age of lone and perceived age of oldest multiple offender.

^b Theft crimes include robbery and personal larceny. Violent crimes include rape, aggravated assault, and simple assault.

^CExcluded are incidents (about 8 percent of the total) in which the victim did not know whether there was one or more than one offender and incidents involving offenders of "mixed" races.

^dSix year average estimated number of persons in the population.

^eExcluded are incidents (about 4 percent of the total) in which the victim did not know the age of offender.

that for every race and age subgroup of the population except blacks aged 18-20, rates of offending for both theft and violent crimes increase monotonically as neighborhood structural density increases. In addition, for every race and age subgroup, rates of theft offending are more strongly related to structural density than violent offending rates. For example, black juvenile theft offending rates are 3.5 times higher in high structurally dense neighborhoods than in low density areas, whereas the corresponding violent rate is 2 times higher. White juveniles show the same pattern, as the theft offending rate of 1,508 in high density areas is 170 percent greater than the theft rate of 558 in the low density category, compared to an 80 percent difference (5,488 versus 3,007) for violent crimes. Only the black 18 to 20 year old offending rates for violent crimes seem not to be related consistently with structural density, as the rate of 19,983 in the high category is virtually no different than the rate of 20,776 in the low density category. Also, the "at or near home" rates of offending presented in Table D10 exhibit very similar patterns with structural density as the patterns noted above. The only difference seems to be the strength of the relationship. In "at or near home" theft victimizations, the rate of juvenile offending in high density areas is over 4 times greater than in low density neighborhoods. On the whole, however, the patterns of offending for total and "at or near home" victimizations are very similar. Again, to the extent that juveniles offend in their own neighborhood, it can be concluded that neighborhood structural density is strongly related to theft offending, with the rates of theft offending for each race and age subgroup in higher density neighborhoods being 2 to 3 times higher than corresponding rates in low density neighborhoods. Although the increases are not as strong,

-67-

violent offending is still positively related to structural density for every race and age group except blacks 18-20. Moreover, these general patterns are maintained when the data are examined by extent of urbanization. Within urban, suburban, and rural areas, rates of offending increase as structural density increases, thus further indicating that density is not a simple proxy measure of urbanization (data not shown in tabular form). Hence, controlling for the individual-level variables of race and age of offender, and for the ecological-level variable extent of urbanization, these victimization data support earlier ecological research which found a positive relationship between official crime and delinquency rates and density (e.g., Schmitt, 1957; Bloom, 1966; Schmid and Schmid, 1972; Beasley and Antunes, 1974).

-68-

Summary

In this section of the report we have examined the relationship between neighborhood characteristics and rates of offending. The major question addressed was whether selected neighborhood characteristics are related to the involvement of juveniles in serious criminal offending. Some of the major findings of this analysis include:

Neighborhood Economic Status. Controlling for extent of urbanization, the analysis revealed that rates of theft offending are considerably higher in low economic status urban neighborhoods than in either medium or high economic status urban neighborhoods for juvenile, youthful, and adult offenders. Neighborhood economic status was also found to have a moderate negative relationship with the violent offending of urban adults. Juvenile and adult offending were found to have a moderate negative relationship with neighborhood economic status in suburban areas but a weak and inconsistent

crimes, especially for adult offenders. IV.

relationship in rural areas.

Neighborhood Unemployment. Both theft and violent offending have a positive relationship with neighborhood unemployment for all offender age groups. This relationship is stronger for theft crimes than for violent

Neighborhood Racial Composition. A strong positive relationship was found between theft offending and percent black for juvenile, youthful,

and adult offenders. Violent offending shows a weaker yet still overall positive relationship with percent black for all offender age groups. Neighborhood Residential Mobility. White juvenile offending in both theft and violent crimes is positively related to neighborhood residential mobility. Black juveniles, in contrast, show a positive relationship only for violent crimes. For adults, neighborhood residential mobility is positively related to both black and white offending in theft and violent crimes.

Neighborhood Structural Density. An overall strong positive relationship was found between rates of offending and neighborhood structural density, with the relationship being stronger for theft crimes than violent crimes. This pattern was evident for the offending of all race and age subgroups except for the violent offending of black 18 to 20 year olds.

Characteristics of the Victimization Event

In the previous sections of this report rates of victimization and offending were analyzed for particular age, race, and sex subgroups across various neighborhood characteristic dimensions. In this section a somewhat different approach is taken in that we will examine whether elements of the victimization experience that generally contribute to the seriousness of the offense -- weapon use, injury, and loss -- vary by neighborhood characteristics. As Dunn (1974:85) has contended, crime incident characteristics add an

-69-

important dimension to an analysis of the distribution of crimes in relation to environmental attributes. Due to the fact that most ecological research has relied on information collected by police agencies, little is known about how crime incident characteristics vary across different neighborhood characteristic dimensions.

Empirical data on the form and content of victimizations can have important theoretical and policy implications. Within the criminological literature there is theoretical speculation that neighborhoods and crime patterns are related. For example, in their well-known book Delinquency and Opportunity, Cloward and Ohlin contend that "the content of the delinquent subculture is a more or less direct response to the local milieu in which it emerges" (1960:166). Clearly, it is of major theoretical and practical importance whether certain neighborhoods display distinct victimization patterns regarding use of weapons and extent of injury. If, for example, the percent of weapon use varies by neighborhood characteristics, then specialized crime prevention strategies can be adapted within these particular types of neighborhoods.

In the same fashion that the problem of misclassification of victimization events arose in the preceding analysis of rates of victimization and offending, possible misclassification may be present here as well and subsequently distort the findings at hand. Generally speaking, in the rates of victimization and offending sections the analysis of "at or near home" victimizations showed that the patterns among rates of victimization and offending based on all personal victimizations paralleled rates based solely on "at or near home" victimizations. A similar analysis of "at or near home" victimizations is performed in this section; however, because of the method of data presentation (percent distributions), the number of cases necessary for reliable analysis decreases

considerably as the number of variables examined increases. Thus, the "at or near home" analysis is possible only for certain subgroups (i.e., primarily adult offenders). Overall, on the basis of the analysis in the preceding sections, it seems likely that the total patterns are in fact indicative of the "at or near home" patterns. Weapon use

This section of the report analyzes the use of weapons by juvenile, youthful and adult offenders across neighborhood characteristic dimensions. Previous research by McDermott and Hindelang (1981) found that "there was a systematic increase in the use of weapons as the offender age group increased" (1981:2). Specifically, guns were rarely used by juveniles in comparison with adults. In addition, as would be expected, the use of weapons was not independent of crime type. By definition, personal larceny and simple assault cannot involve the use of a weapon. Also by definition rape and robbery entail the actual use of force or threat of force and it is likely that weapons are utilized in these offenses to lend credence to such threats (see Appendix E and McDermott and Hindelang, 1981:23). Given the relationship among offender's age, type of crime, and weapon use, it is essential to examine the use of weapons across neighborhood characteristics by age of offender and by crime-specific categories. The question arises as to whether offenders in certain neighborhoods will be more likely to use weapons in the commission of their offenses than offenders in other neighborhoods. For example, is structural density or the percent of black residents in an area related to the likelihood of weapon use? In the NCS interview, each victim was asked "Did the person(s) have a weapon such as a gun or knife, or something he was using as a weapon, such as

a bottle or wrench?" Thus, data are available on both the extent of weapon use and the type of weapons used in robbery and aggravated assault.

-70-

-71-

The data in Table 14 display the percent of weapon use by age of offender 28 and type of crime across categories of neighborhood racial composition. As percent black increases it can be seen that the proportion of robbery offenders using weapons increases as well. This relationship is relatively strong for juvenile and adult offenders. For instance, in areas with a majority of black residents (60-100 percent black) 70 percent of the robbery victimizations by adult offenders involve use of a weapon compared with 57 percent in all white neighborhoods (0 percent black). For juvenile offenders 36 percent of the robbery victimizations in high percent black neighborhoods involved weapon use, compared to only 26 percent for robberies committed by juveniles in homogeneous white areas. On the other hand, the data for aggravated assault reveal little variation in the proportion of weapon use across the racial composition variable for all three offender age groups. Overall, the data for robbery show that weapon use indeed varies strongly by age of offender and also that robbery victimizations in areas with a large black population are more likely to involve the use of weapons than in areas with an all white population (i.e., 0 percent black).

In addition, the data were examined for the subset of victimizations that occurred "at or near home." The overall patterns displayed in Table 14 maintained for adult offenders. More specifically, the percent of weapon use was greater in high percent black neighborhoods as compared to low percent black neighborhoods. For example, in "at or near home" victimizations, 47 percent of the adult offenders used weapons in all white areas (i.e., 0 percent black) compared with 62 percent weapon use by adult offenders in areas with a majority of black residents (data not shown in tabular form). The strong parallel in patterns of adult weapon use between total personal victimizations and "at or near home" victimizations in relation to neighborhood racial composition thus lends greater credibility to the results shown in Table 14.

1978 aggregate^b Age of offender and type of crime Under 18: Robbery (4 Aggravated Assault (6 18 to 20: Robbery (3 Aggravated Assault (5 21 or older: Robbery (94 Aggravated Assault (1 Total: Robbery (1. Aggravated Assault (3.

^aIncludes perceived age of lone and perceived age of oldest multiple offender.

^bExcluded are incidents (about 6 percent of the total) in which the victim did not know whether there was one or more than one offender.

^CPercent of weapon use.

	Racial C	omposition	
0	1-5	6-59	60-100
· · · · · · · · · · · · · · · · · · ·			
26 ^c	31	35	36
426,851) ^d	(364,273)	(327,995)	(279,691)
93	96	95	97
505,328)	(408,196)	(335,020)	(176,814)
46	53	43	55
874,558)	(284,876)	(302,625)	(224,767)
93	95	95	91
35,924)	(397,712)	(302,271)	(139,217)
57	54	62	70
44,074)	(761,908)	(796,424)	(537,552)
93	95	96	96
,940,549)	(1,408,222)	(1,357,152)	(651,171)
47	48	52	58
,745,483)	(1,411,057)	(1,427,044)	(1,042,010)
93	95	96	95
,081,801)	(2,214,130)	(1,994,443)	(967,202)

Table 14 Percent of weapon use in personal victimization, by age of offender,^a type of crime, and neighborhood racial composition, NCS national data, 1973-

^dNumber in parentheses shows estimated total number of victimizations (those with weapon use plus those without weapon use) on which percent shown is based.

Table 15 displays the percent of weapon use in robbery and aggravated assault by age of offender and neighborhood economic status. These data indicate that as neighborhood economic status increases the percent of weapon use in robbery victimizations decreases, particularly for juvenile and youthful offenders. For example, juvenile robbery offenders utilized weapons 36 percent of the time in low economic status neighborhoods compared to only 24 percent of the time in high economic status neighborhoods. Adult weapon use in robbery is weakly related to neighborhood economic status, with adult offenders in low economic status areas using weapons only 4 percent more often than their counterparts in high economic status neighborhoods. In addition, the above patterns for adult offenders remained the same when "at or near home" victimizations were examined. Overall, the data in Table 15 show that weapon use in robbery decreases as neighborhood economic status increases for juvenile and youthful offenders, whereas weapon use in aggravated assault is unrelated to neighborhood economic status for all offender age groups. Also, as expected on the basis of prior research (McDermott and Hindelang, 1981), adult offenders use weapons to a greater extent than juvenile offenders in each type of neighborhood.

-74-

Table 16 presents the percent of weapon use in robbery and aggravated assault by age of offender and neighborhood residential mobility. Perhaps surprisingly, given the rather strong positive relationship between mobility and criminal victimization and offending reported above and in prior ecological research (e.g., Shaw and McKay, 1942), variation in neighborhood residential mobility shows virtually no relationship to the percent of weapon use within the crime categories of robbery and aggravated assault for all three offender age groups. In addition, the data show no variation across low, medium and high categories of neighborhood structural density and unemployment in the

Table 15 Percent of weapon use in personal victimization, by age of offender, a type of crime, and neighborhood economic status, NCS national data, 1973-1978 aggregate^b

Age of offender and type of crime

Under 18:

Robbery

Aggravated Assault

18 to 20:

Robbery

Aggravated Assault

21 or older: Robbery

Aggravated Assault

Total:

Robbery

Aggravated Assault

^bExcluded are incidents (about 6 percent of the total) in which the victim did not know whether there was one or more than one offender.

^CPercent of weapon use.

	Ec	conomic Statu	IS	- -
	(Percent	of total fam	ilies with	
-	less than	\$5,000 fami	ly income)	
		Medium		High
(27-99)	······	(11-26)		(0-10)
36 d		33		24
(349,099)		(683,568)		(366,142)
96		95		94
(391,329)		(/21,/21)		(412,308)
:				
52		49		44
(348,273)		(547,729)		(290,824)
95		95		94
(320,755)		(670,904)		(383,466)
63		58		59
(999,880)		(1,440,141)		(599,937)
96		94		94
(1,739,001)		(2,520,770)		(1,090,718)
55 (1.697 252)		50 (2 671 438)		45
((2,071,400)	1	(1,230,903)
96 (2,451,685)		94 (3,919 401)		94 (1 886 402)
(_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(3,54),704)		(1,000,472)

^aIncludes perceived age of lone and perceived age of oldest multiple offender.

dNumber in parentheses shows estimated total number of victimizations (those with weapon use plus those without weapon use) on which percent shown is based.

Table 16 Percent of weapon use in personal victimization, by age of offender,^a type of crime, and neighborhood residential mobility, NCS national data, 1973-1978 aggregateb

	R	esidential Mobility							
Age of offender	(Percent of to	(Percent of total persons 5 years old and over							
and type of crime	living in s	living in same house as 5 years ago)							
	Low	Medium	High						
	(63-99)	(47-62)	(0-46)						
Under 18:		× .							
Robbery	34 ^c	30	31						
	(316,750) ^d	(611,896)	(470,163)						
Aggravated Assault	96	93	96						
	(264,088)	(770,706)	(490,564)						
18 to 20:									
Robbery	49	47	50						
	(249,880)	(499,114)	(437,832)						
Aggravated Assault	94	94	94						
	(284,609)	(614,005)	(476,510)						
21 or older:									
Robbery	60	58	61						
	(501,389)	(1,312,417)	(1,226,152)						
Aggravated Assault	93	94	95						
	(884,551)	(2,471,849)	(2,000,695)						
Total:									
Robbery	50	49	52						
	(1,068,019)	(2,423,427)	(2,134,147)						
Aggravated Assault	94	94	95						
	(1,433,248)	(3,856,560)	(2,967,769)						

^aIncludes perceived age of lone and perceived age of oldest multiple offender.

^bExcluded are incidents (about 6 percent of the total) in which the victim did not know whether there was one or more than one offender.

^cPercent of weapon use.

 $^{\mathrm{d}}\mathrm{Number}$ in parentheses shows estimated total number of victimizations (those with weapon use plus those without weapon use) on which percent shown is based.

proportion of personal crimes in which a weapon was used. This holds true for all three offender age groups. (Data not shown in tabular form). Therefore, three of the ecological variables analyzed in this monograph -neighborhood residential mobility, neighborhood structural density, and neighborhood unemployment -- show little relationship to the propensity of weapon use in robberies and aggravated assaults.²⁹ In addition to the extent of weapon use, the type of weapon used -- gun, knife, other -- can be assessed with the NCS data. Table 17 presents the percent of type of weapon used by various offender age groups across dimensions of neighborhood racial composition. For juvenile offenders, the proportion of gun, knife, and other weapon use in total personal victimizations does not vary substantially across areas. For youthful and adult offenders, however, as percent blacks increases the proportion of gun use increases as well. For example, adult offenders in high percent black neighborhoods (60-100) used guns in 26 percent of total personal victimizations involving weapon use, compared with only 14 percent in 0 percent black neighborhoods. The use of knives and other weapons does not vary consistently with neighborhood racial composition, the one exception being that adults show a slight tendency to use knives to a greater extent in areas that have a majority of black residents (60-100 percent) compared with areas that have all white residents (O percent black).³⁰ These patterns shown in Table 17 concerning gun use may be a function of crime type differences. Since guns are quite often used as the tools of the trade in robbery victimizations (Normandeau, 1969:198,199) and theft victimizations are more often committed in areas with a large black population, the relationship between gun use and percent black is not surprising. Seriousness Scores

-76-

It is also of interest to determine whether consequences of the victimization event which contribute to the seriousness of the victimization

-77-

		Racial Con	nposition	
Aco of offender		(Percen	t Black)	
and type of weap	on0	1-5	6-59	60-100
Under 18:				
Gun	4 ^c	3	4	8
	(2,694,874) ^d	(1,900,129)	(1,558,275)	(843,716)
Knife	9	10	10	9
	(2,694,874)	(1,900,129)	(1,558,275)	(843,716)
Other	12	12	12	15
	(2,694,874)	(1,900,129)	(1,558,275)	(843,716)
18 to 20:				
Gun	8	8	11	17
	(2,037,024)	(1,512,545)	(1,092,624)	(549,624)
Knife	11	13	14	15
	(2,037,024)	(1,512,545)	(1,092,624)	(549,624)
Other	15	14	15	15
	(2,037,024)	(1,512,545)	(1,092,624)	(549,624)
21 or older:				
Gun	14	13	19	26
	(6,768,147)	(4,860,047)	(4,037,597)	(1,960,355)
Knife	9	11	13	16
	(6,768,147)	(4,860,047)	(4,037,597)	(1,960,355)
Other	13	13	14	11
	(6,768,147)	(4,860,047)	(4,037,597)	(1,960,355)
Total:				
Gun	10	10	14	20
	(11,500,045)	(8,272,721)	(6,688,496)	(3,353,695)
Knife	9	11	12	14
	(11,500,045)	(8,272,721)	(6,688,496)	(3,353,695)
Other	13	13	14	13
	(11,500,045)	(8,272,721)	(6,688,496)	(3,353,695)

Table 17 Percent of type of weapon used in total personal victimization, by age of offender ^a and neighborhood racial composition, NCS national data, 1973-1978 aggregate^b

-78-

^aIncludes perceived age of lone and perceived age of oldest multiple offender.

^bExcluded are incidents (about 6 percent of the total) in which the victim did not know whether there was one or more than one offender.

^cPercent with particular type of weapon used.

d_{Number} in parentheses shows estimated total number of victimizations (those

(i.e., injury and loss) also vary across neighborhood characteristic dimensions. In order to address this issue a system of seriousness weighting devised by Sellin and Wolfgang (1964) and adapted to the scoring of NCS victimizations will be utilized. The Sellin-Wolfgang seriousness scores are designed primarily to take into account the extent of victim injury and amount of monetary/property loss suffered by the victim within similar crime type categories (i.e., injury and loss in robbery incidents).³¹ The data in Table 18 display seriousness levels in total personal victimizations across categories of neighborhood racial composition, controlling for age of offender. Generally, for juvenile offenders the seriousness levels are fairly stable across the racial composition dimension. One notes the small proportion of victimizations of a high seriousness nature committed by juvenile offenders in neighborhoods of varying racial composition. This finding supports earlier research by McDermott and Hindelang (1981) that suggests juveniles usually commit less serious offenses than adult offenders in terms of injury, weapon use, and loss. However, the data do show slight variation in seriousness levels across areas with varying proportions of black residents for youthful and adult offenders. For example, as the proportion of the black population in an area increases the proportion of cases in the upper seriousness level increases from 11 to 23 percent for adult offenders. The corresponding increase for youthful offenders is 9 percent.

The data were also examined for the relationship between age of offender, seriousness levels, and the neighborhood characteristics of residential mobility, economic status, unemployment and structural density. For these neighborhood characteristics no substantial variation is revealed across neighborhoods in terms of seriousness of the victimization event. This pattern holds generally for juvenile, youthful, and adult offenders. As would be expected, age of offender is related to seriousness level in that as age increases, the proportion of victimization in the higher seriousness levels increases as well. However, once offender age is

-79-

Table 18 Percent distribution of the seriousness of total personal victimization, by age of offender^a and neighborhood racial composition, NCS national data, 1973-1978 aggregate^b

Age of	Racial Composition							
offender and	(Percent Black)							
seriousness lever	0	1-5	6-59	60-100				
Under 18:								
0 - 1 (1ow)	37 ^c	35	37	33				
2 - 3	36	36	34	33				
4 - 5	23	25	24	26				
6 -30 (high)	4	5	6	8				
Estimated number	100	100	100	100				
of victimizations:	(2,694,874)	(1,900,129)	(1,558,275)	(843,716)				
18 to 20:								
$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	27	27	23	15				
	36	34	35	32				
	28	28	30	35				
	9	10	12	18				
Estimated number of victimizations:	100	100	100	100				
	(2,037,024)	(1,512,545)	(1,092,624)	(549,624)				
21 or older:								
$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	22	22	18	13				
	38	37	32	29				
	29	30	34	34				
	11	11	16	23				
Estimated number of victimizations:	100	100	100	100				
	(6,768,147)	(4,860,047)	(4,037,597)	(1,960,335)				

^aIncludes perceived age of lone and perceived age of oldest multiple offender.

^bExcluded are incidents (about 6 percent of the total) in which the victim did not know whether there was one or more than one offender.

^CColumn percent.

-80-

controlled, little variation in seriousness levels is displayed across categories of these neighborhood characteristics. (Data not shown in tabular form). Only racial composition is related to the seriousness of the victimization experienced by area residents.

Summary

those in all white neighborhoods.

In this section of the report, we have examined whether certain characteristics of the victimization event - weapon use and seriousness are related to selected neighborhood characteristics. Some of the major findings of this analysis include the following.

Neighborhood racial composition is related to the nature and extent of weapon use, and to a lesser degree the seriousness of the victimization event. The analysis showed that weapon use in robbery offending, especially gun use, is more prevalent in neighborhoods with a higher percentage of blacks. This pattern held for juvenile, youthful and adult offenders. In addition, victimizations committed by youthful and adult offenders in high percent black neighborhoods were shown to be of a more serious nature than those in all white neighborhoods.

Neighborhood economic status was shown to be related to the likelihood of weapon use by juvenile and youthful offenders but not to the weapon use of adult offenders. Specifically, in low economic states neighborhoods, juvenile and youthful offenders are more likely to use weapons then their counterparts in high economic status neighborhoods.

The neighborhood characteristics of residential mobility, structural density, and unemployment were shown to be unrelated to both extent of weapon use and the seriousness of the victimization event. 4

-81-

V. Concluding Remarks

Despite the quantity of ecological studies conducted in the United States in this century, it has been recently argued that there is relatively little valid information available on the neighborhood contexts of serious juvenile criminal behavior (e.g., Smith and Alexander, 1980). The reasons for this statement are varied but most revolve around the fact that the overwhelming majority of ecological studies have been based on official police and court statistics. Because official data by definition rely on the selection mechanisms of the criminal justice system, it has been argued that such factors as differential police patrols and differential reporting of crimes to the police have resulted in misleading correlations between crime rates and community characteristics (e.g., Chambliss and Seidman, 1971). As Baldwin (1979) has commented after a recent assessment of the state of the art in ecological research. "new sources of information about levels of crime . . . raise the serious possibility that our understanding of the nature of delinquency areas may be no more than rudimentary" (1979:58). To date, then, theorists and policy analysts alike have had a limited information base on which to draw inferences and make policy decisions regarding the ecological distribution of criminal activity.

The present study has utilized victimization survey data which are independent of the selection mechanisms of the criminal justice system to study the relationship between neighborhood characteristics and crime and delinquency. Because in victimization surveys, data are gathered directly from the victims, it cannot be the case that differences in victimization and offending rates across neighborhood characteristic dimensions are accounted for by such factors as more intensive police patrols in lower socio-economic status communities. Therefore, victimization data provide

a means of assessing the extent to which relationships found between areal characteristics and officially-based crime and delinquency rates remain when the potential biasing factors that may be introduced by the criminal justice system itself are circumvented. The present analysis has revealed that there are, in fact, distinct patterned variations in rates of victimization and rates of offending across neighborhood characteristic dimensions. Disproportionately high rates of victimization and offending were generally found in neighborhoods characterized by high residential mobility, high structural density, high unemployment and a high percentage of blacks. In addition, neighborhood economic status was found to be negatively related to rates of victimization and offending in urban areas. These victimization survey results are in substantial agreement with prior ecological research utilizing official data which have found positive ecological correlations between crime rates and unemployment (Danziger, 1976; Kvalseth, 1977), residential mobility (Shaw and McKay, 1942; Chilton, 1964) percent black (Schmidt, 1960; Beasley and Antunes, 1974), and density (Schmitt, 1956; Bloom, 1966). The present findings regarding the relationship between neighborhood economic status and victimization and offending rates are also compatible with urban-based studies relying on official data which have demonstrated a negative relationship between areal economic status and crime (Bordua, 1958; Chilton, 1964; Gordon, 1967). Thus, for the neighborhood characteristics examined, it can be concluded that there are indeed differences in criminal behavior across ecological areas which cannot be explained by the selection mechanisms of the criminal justice system. In contrast to rates of victimization and offending, the extent of weapon use and seriousness of the victimization event were not found to be related to the majority of neighborhood characteristics examined. Any

-82-

-83-

public or media conception that the consequences of the criminal event are inherently more serious in certain types of areas is generally not supported by victimization survey data. That is, although there may be more criminal activity in particular neighborhoods, once a victimization does occur there is little "ecological effect" regarding the outcome suffered by the victim.

This report has also indicated that the strength of the relationship between selected neighborhood characteristics and crime varies considerably by population subgroups (i.e., age, race, sex), type of crime, and the wider social context in which neighborhoods are located (i.e., urban versus rural). For example, it was found that most neighborhood characteristics were more strongly related to theft crimes than violent crimes and to adult offending than juvenile offending. Extent of urbanization differences were also revealed in that neighborhood economic status was shown to be more strongly related to victimization in urban areas than rural areas, whereas the relationship between structural density and victimization was stronger in rural areas than urban areas. It is evident, then, that the nature of the relationship between areal characteristics and crime is quite complex, thereby preventing simple generalizations regarding the influence of neighborhood characteristics on criminal behavior to all population subgroups, types of crimes, and social contexts. Only through detailed specification can the linkages between neighborhood characteristics and crime be better understood and effective community crime prevention and control strategies be developed.

From the standpoint of criminological research and theory, the data presented in this report should serve as a stimulus for additional exploration of the neighborhood contexts of crime and delinquency. Since the general aim of this monograph has been to provide an exploratory descriptive analysis,

those offenders who do travel.

-84-

no attempt has been made to determine the independent effect of each neighborhood characteristic on victimization. The inter-correlations among selected neighborhood characteristics (see Appendix B) render ambiguous any claims as to the most important neighborhood characteristic operating to produce high levels of crime. Rather than focusing on one particular neighborhood characteristic, the reader might better interpret the present findings in terms of the general social conditions which are common to the selected neighborhood characteristics. For example, low economic status, high residential mobility, and racial heterogeneity have been interpreted as joint indicators of a community social disorganization and instability factor (Shaw and McKay, 1942; Kornhauser, 1978). The construction of neighborhood typologies through more complex multivariate analysis may help to shed light on the joint effects that neighborhood characteristics have on criminal behavior through their interaction with each other.

Another area of research that may be fruitfully explored is the nature and extent of criminal mobility by age, race, and sex-specific offender subgroups. As noted above rates of offending must be viewed within the realm of current knowledge of offender mobility since the residence of the offender cannot be determined with the NCS data. While the research that has been done in this area indicates that most offenders, particularly juveniles, do not travel far to commit offenses, further research is needed to examine what characteristics of neighborhoods are related to the migration patterns of

In terms of theory, the general import of this study has been to support theoretical efforts which emphasize the community context as a primary factor in the origin and nurturing of crime and delinquency. While a great deal of criminological theory on the etiology of crime is oriented

-85-

toward explaining individual-level correlates of crime, these victimization data, within their limitations, suggest that economic status, mobility, racial composition, and density are important ecological correlates of crime in their own right. Hence, a promising area of future theoretical development appears to lie in the linkage of individual with ecological correlates of crime in an effort to provide a fuller understanding of the micro and macro processes underlying criminal behavior.

¹In recent years some researchers (e.g., Johnstone, 1978) have attempted to use the self-report method to examine ecological patterns of delinquency. Even though self-report data are independent of the criminal justice system they have their own problems with respect to the ecology of delinquency. First, since self-report studies typically focus on individual correlates of delinguency, information is usually not collected (orif so, analyzed) concerning the ecological characteristics of the offender's neighborhood. Second, the self-report method has to date not tapped in sufficient numbers serious crimes such as rape, robbery and assault, thus limiting the scope of a self-report ecological study.

 2 See Appendix B for an exact definition of the neighborhood characteristic variables used in this analysis.

⁴This procedure does not completely ignore mobile families. Although no attempt is made to trace families that move away from an address in the sample, a similar mobile family may move into that address and will be included in the survey.

⁵See Garofalo and Hindelang (1977) for more details.

⁶In a small proportion of cases (victims 12 and 13 years of age and victims who for some physical or mental reason are unable to respond for themselves) interviews are completed by proxy with another household member.

⁷According to Shenk and McInerney, "enumeration districts are administrative divisions set up by the Census Bureau to take the census in areas where doorto-door enumeration was used, averaging 1,000 population, which are the equivalent to ED's in the city mail delivery areas of the 145 SMSA's where the census was taken by mail in 1970" (Shenk and McInerney, 1978:22, Note 9).

 8 The cutting points of the neighborhood characteristic variables have been chosen on the basis of a number of concerns. As Gordon (1967) has shown, measures tapping the "tails of a distribution" maximize ecological correlations when the tail of the distribution is hypothesized (known) to be relevant to the occurrence of the dependent variable (e.g., low SES and crime). This concern is balanced in the present analysis by the requirement that each category of the independent variable contain enough cases allowing for

-86-

Notes

-87-

 3 See Garofalo and Hindelang (1977) and U.S. Bureau of the Census (undated) for additional detail about design and collection.



statistically reliable estimates of rates of victimization and offending. The above concerns have been accommodated by trichotomizing each neighborhood characteristic into categories of low, medium and high with approximately 25 percent of the cases being in the low and high categories and 50 percent falling in the medium category. In the instance of the percent black variable, its natural distribution was so skewed (43 percent of the cases being in the 0 percent black category) that the range had to be categorized into four parts for meaningful analysis to take place.

 9 While the above definition departs from the traditional conception of neighborhood, it ponetheless offers the researcher significant analytic opportunities which previous ecological studies have been lacking. For example, most ecological studies of crime and delinquency have focused on the variations in crime rates in particular cities. While having the advantage of being able to point to a particular locale and stating that this area has relatively high crime rates, these studies have been spatially bound - they describe patterns unique to each city and are therefore not generalizable to other communities. The present study, in contrast, focuses on crime patterns not unique to any one geographical area. By aggregating all neighborhoods in the nation that are similar according to their value on a social structural characteristic, the findings reported in this monograph have a national basis and therefore are more generalizable then the findings of most prior ecological studies. In brief, the focus of this monograph is the overall relationship between the objective social structural characteristics of neighborhoods and criminal victimization, not how criminal victimization varies across identifiable geographic locations.

 10 The problematic nature of interpreting the NCS place of occurrence variable is indicated by the revision of responses available to interviewees regarding the question, "Where did this incident take place?" Starting in 1979, respondents were allowed more specific choices that would facilitate interpretation of exactly where the victimization occurred. Unfortunately, NCS data with the revised choices are not available for the years 1973-1978.

11 This is not to suggest that the misclassification issue is equivalent for rates of victimization and rates of offending. For rates of offending there is the additional concern of the residence of offender. That is, even though we can analyze the subset of victimizations that explicitly took place in the victim's neighborhood, the NCS data do not allow an empirical determination of the residence of offender. This problem will be discussed in detail in Section III.

12 McInerney also addresses a methodological problem stemming from the neighborhood characteristic identifiers that has been easily resolved. He notes (1978:15) that due to a computer programming mistake, 17 of the 55 neighborhood characteristics contain a rounding error, with ratios exceeding .995 being identified as a .00 ratio. This mistake would result, for example, in a neighborhood with a ratio of .996 for

percent black (all black) being assigned a ratio of .00 (all non-black). Fortunately, only two of the neighborhood characteristics to be examined in the monograph contain the rounding error. In an analysis of the frequency distribution of a 1/6 sample of the total cases, the Bureau of the Census (Garland, 1976:3) shows that only 62 persons in a total of 16,120 persons (.4 percent) fall in the .99 category of Percent of Units in Structures of 5+ Units (structural density), one of the two characteristics of interest containing the rounding error. Since the frequency distribution shows a monotonic decline in the number of persons in a category as the percentages increase, it is safe to assume that the number of persons falling in the 100 percent category would be only about .1 percent of the total.

The problem of the coding error for the second variable, Percent black, has been resolved by a secondary analysis of the appropriate household variable on the NCS data file, inferring which cases have been miscoded, and then properly recoding them. By examining the race of head of household variable in the NCS data set, it was discovered that a small percent of the heads of households in the .00 percent black neighborhood category were black. Assuming that these anomalies were due to miscoding (no blacks should be in all white neighborhoods), these cases were recoded into the 100 percent category (all black). It thus seems quite reasonable to conclude that the coding error problem has been resolved for all neighborhood characteristics of interest.

into the analysis.

 14 Extending analysis through 1978 also raises the problem of increasing the number of missing values. It is recalled that housing units in the NCS sample built since 1970 are not matched with neighborhood characteristic identifiers. Preliminary analysis revealed that the increase in missing values over time (due to newly constructed housing units being added to the NCS sample) is not very great, ranging from about 7 percent of the total for 1973-1974 to 11 percent of the total for 1977-1978 (the average being 9.3 percent). Therefore, the error that may be introduced by this

¹³The relatively broad range of most of the neighborhood characteristic variables also bears on another methodological issue raised by McInerney. He notes (1978:11) that because the recall period for the NCS national sample is 6 months, at any given enumeration there are a certain number of new residents since the last interview. Thus, McInerney reasons that a substantial share of incidents experienced by new residents occurred in another locale. While certain NCS replacement-household respondents may have been victimized in prior residential neighborhoods, it is not unreasonable to assume that the characteristics (e.g., racial composition) of their previous neighborhood fall within the same range as their current neighborhood (e.g., both 6-59 percent black). Indeed, sociological research has shown that Americans' residential mobility opportunities are limited (see e.g., Boyce, 1971). For the most part, when people move from one neighborhood to another, the neighborhoods are not vastly discrepant. People move into neighborhoods only marginally "better" or "worse". Given that the categories constructed for the neighborhood characteristics are rather broad (i.e., four out of five are trichotomized). it is unlikely that replacement households introduce significant error

issue seems minimal. Since the focus of this report is the relationship between neighborhood characteristics and victimization all incidents which occurred to residents of households for which neighborhood characteristic identifiers are not available have been excluded from the analysis.

¹⁵Gordon (1967) has empirically demonstrated that the size of an ecological correlation between area economic status and crime is in part due to the indicator chosen for analysis. He argues that non-median based measures result in larger ecological correlations with crime than median based measures (e.g., median income). This is because non-median based measures tap into the range of economic status in which crime and delinquency is hypothesized to be concentrated, namely the lowest levels of economic status, while median based measures do not. Therefore, a non-median based measure (percent of total families in a neighborhood with less than \$5,000 family income) will be utilized in the present analysis.

¹⁶Respondents interviewed in the NCS sample are classified into three racial categories - white, black, and other. In the 1973 to 1978 period, according to Bureau of the Census and NCS counting rules, Spanish-Americans were classified as whites. Because so few of the respondents are classified as other (about 2 percent, representing mainly Orientals and American Indians) these data are excluded from analysis.

¹⁷Elsewhere this classification and criticism of it as a measure of the urban-rural dimension has been discussed in detail (see Laub, 1980). As that author concluded, problems with this classification are present but should not preclude it being used in an informative manner.

¹⁸The patterns exhibited in Table 2 maintain for both black and white adults. For juveniles and 18 to 20 year olds, black rates of victimization followed no general or consistent pattern. This is probably attributable to the small population bases on which rates are computed when the data are broken out by age, race and extent of urbanization. In addition, because it is known that family income of victim is an individual-level correlate of victimization (Hindelang, 1976:120) analysis was conducted controlling for family income of victim. Generally it was found that the relation between neighborhood economic status and victimization was independent of family income of victim. That is, patterns in victimization rates across neighborhood economic status levels were similar for victims of all income levels. A separate analysis of sex and age-specific rates, controlling for extent of urbanization revealed that introducing sex of victim did not alter the general relationships found.

¹⁹Because extent of urbanization was found to specify the relationship in question, the "at or near home" rates are presented by extent of urbanization. Due to the small number of victimizations (as opposed to offenders) involved in "at or near home" incidents, analysis is not crime or race specific.

²⁰Our analysis has also supported Gordon's contention that non-median based measures result in higher ecological correlations than median based measures (1967). Preliminary analysis employing neighborhood median income showed that, generally, relationships between it and personal victimization were similar to relationships between our chosen indicator of economic status (percent of total families in a neighborhood with less than \$5,000 income) and personal victimization but consistently of a smaller order.

²¹Once again, analysis controlling for family income of victim revealed that the patterns maintained between neighborhood unemployment and victimization. That is, regardless of family income of victim, rates of personal victimization were found to be higher in higher unemployment areas than low unemployment areas.

²²In the case of blacks 18 to 20 years, population bases on which rates of victimization are computed are so small that estimated rates of victimization are likely to be statistically unreliable. This unreliability problem is further compounded when analysis is limited to solely "at or near home" incidents, which reduces the numerator found in the rate. Generally speaking, estimated rates of victimization become more statistically unreliable as the population base and the number of incidents on which it is based decreases.

²³A separate race and sex-specific analysis has revealed that the above patterns hold for black females as well as black males. White female patterns were also found to be consistent with white male patterns.

²⁴Race specific analysis of "at or near home" rates of victimization could be conducted only for black adults due to the small bases and relatively few number of "at or near home" victimizations involving black juveniles and black 18 to 20 year olds. In the case of black adults, patterns between "at or near home" rates parallel total rates.

²⁵Although theft victimization rates for juveniles increase from 30 to 141 as neighborhood mobility increases, rate changes being more substantial than for comparable changes in violent victimization (369 to 732), the juvenile theft rate in low mobility neighborhoods is based on relatively few incidents and therefore should be viewed with caution.

²⁶It should be noted that for both arrest data published in the Uniform Crime Reports -- and for reports of victims in victimization surveys -it is not possible to ascertain the number of distinct offenders either arrested or reported by victims. Thus, one limitation of victimization survey data for rates of offending reported in this section is that it is not possible to tell the extent to which a small number of offenders account for a large proportion of offenses. For a discussion of this and other limitations of the NCS offending rates see Hindelang and McDermott, (1981:39-42).

²⁷As was the case with mobility, the distribution of blacks is not extremely skewed across density categories and thus the data are more amenable to a race-specific analysis.

²⁸In this section of the report juvenile offenders are categorized as those offenders perceived to be under 18 years of age. In the rates of victimization and rates of offending sections, it was necessary to restrict the age category of juveniles to 12 to 17 year olds because population base estimates are not available for those persons under the age of 12. However it should be emphasized that victimizations involving offenders under 12 years of age represent less than 1 percent of the total.

²⁹The "at or near home" victimizations were examined for both neighborhood mobility and neighborhood structural density and use of weapons. That analysis showed that overall the patterns for adult offenders evident for all personal victimizations (regardless of place of occurrence) held for the "at or near home" victimizations by adult offenders.

³⁰In an examination of the subset of victimizations that occurred "at or near home" by adult offenders, the data revealed that as the percentage of black residents within an area increased the use of guns, knives, and other weapons increased as well. In fact, the proportion of gun use increased monotonically from 11 to 24 percent across the percent black dimension. Knives and other weapons showed similar monotonic patterns. Thus, the "at or near home" patterns replicate those found for total victimizations.

³¹For example, it a victim suffered minor injuries that required no medical attention, a weight of 1 was assigned. If the injury required medical attention, but no hospitalization, the weight was 4, and if hospitalization was necessary, a weight of 7 was assigned. Similar weights were used depending on the value of money or property stolen or of property damaged. In addition, if the offender used a weapon 2 points were added to the overall seriousness score. For a more extended discussion of the Sellin-Wolfgang seriousness scale and its adaption to the NCS data see Appendix E in Hindelang and McDermott, (1981).

-92-

Appendix A

NCS Household Interview Schedule

:				Form App	roved: O.M.	B. No. 43-R0587
DRM NCS-1 AND NCS-2 1977) U.S. DEPARTMENT OF COMMERCE BURGAN OF THE CENSUS ACTING AS COLL FERING AGENT FOR THE	NOTIC (U.S. C only b	E - Your report Code 42, Section y persons engage disclosed or rele	t to the Central 3771). All	identifiable the purpos	u is confide information es of the sur	ntial by law will be used vey, and may
LAW ENFORCEMENT ASSISTANCE ADMINISTRATION U.S. DEPARTMENT OF JUSTICE NATIONAL CRIME SURVEY	Sample (cc 4) Control	number (cc !Segment	5)	! Ck	Serial
NATIONAL SAMPLE	10					
NCS-1 - BASIC SCREEN QUESTIONNAIRE	Househol	id number (cc 2))	Land use	(cc 9-11)	۳ <u>ـــــ</u>
NCS-2 - CRIME INCIDENT REPORT			.•			
TERVIEWER: Fill Sample and Control numbers, and items 1, 2, 4, and 9 at time of interview.	@26 10.	Family income	(cc 27)		· . ·	
1. Interviewer identification	ĩ	2 [] \$1,000 t	to 1,999			
Code Name		з <u> </u>	to 2,999			
2 Record of interview	4	4 [] 3,000 t	to 3,999			
Line number of household Date completed		5 [] 4,000 t	to 4,999			
respondent (cc / 2)		7 [] 6,000 t	to 7,499			
	-	e [] 7,500 t	to 9,999			- · ·
Interview not obtained for		s [] 10,000 t	to 11,999			
Line number NOTE: Fill NCS-7 Nonuterview Record.		10 12,000 t	10 14,999			[
6 for Types A, B, and C		12 20,000 t	to 24,999			
1)		13 🗂 25,000 t	to 49,999			·
B		14 🛄 50,000 a	and over	· · · · · ·	1	
9 Complete 14-21 for each line number listed.	110.	Household mer of age and OV	mbers 12 ye ER	ars		
4. Household status	07		_ Total num	ber		
2 Replacement household since last enumeration 3 Previous noninterview or not in sample before	<u>b</u> .	Household mer 12 years of ag	mbers UND !	R	· · · · ·	
5. Special place type code (cc 6c)	028	· · · ·	Total num	ber		
D		o 🔄 None				
6. Tenure (cc 8)	12.	Crime Incident	t Reports fi	led _		
22) 1 Owned or being bought 2 Rented for cash	(029)		Total num	, ber – Fill	item 31	
a [] No cash rent		o 🗂 None		on C	Control Card	
7. Type of living quarters (cc 5)	130	. Use of telepho	one (cc 25)			
Housing Unit House, apartment, flat		Phone I	n unit (Yes	in cc 25a)		
2 HU in nontransient hotel, motel, etc.		Phone I	nterview ac	ceptable?	(cc 25c or	25d)
a _] HU - Permanent in transient hotel, motel, etc. 4 _] HU in rooming house	030	1 T Ye	es Befused		SKIP to ne applicable	xt Item
5 Mobile home or trailer 6 1 HU not specified above - Describe	1) Phone (alsewhere ()		56)	
¥		Phone i	nterview ac	ceptable?	(cc 25c or	25d)
OTHER Unit		3 📑 Ye	25		SKIP to ne	xt
7 [] Quarters not HU in rooming or boarding house		4 No	o – Refused	number)	applicable	item
B Unit not permanent in transient hotel, motel, etc.		s 🛄 No phor	ne (No in co	25a and 2	5b)	
10 [] Not specified above - Describe -	136	, Proxy informa	tion - Fill	or all prox	y interview	s
		(1) Proxy inter	rview	er .		:
8 Number of housing units in structure (cr. 26)	-		undent name	<u></u>		Line number
		1 1023 (625)	oneent nam	• • · ·		
2 2 5 10 or more	ļ	Reason for	proxy inter	view		
3 3 7 Mobile home or trailer				· · · · · · · · · · · · · · · · · · ·		·
4_]4 B Only OTHER units						
ASK IN EACH HOUSEHOLD	1	(2) Proxy inter obtained for	rview or line numb	er		
9. (Other than the business) does anyone in this household operate a business from this address?		Proxy resp	ondent nam	2		Line number
) I No		Parces I-		VIAW		
2 [] Yes - What kind of business is that?	1	Reason for	proxy inter	1104		· ·
						:
INTERVIEWER: Enter unrecognizable businesses only		If more than 2	Proxy Inter	views, con	tinue in no	les,
	(<u>)</u>		(032)		(033)	
CENSUS USE ONLY			$\mathbf{J}_{\mathbf{n}}$			



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-94-

Page 2

	à, et	PERSONAL CH	ARACT	ERISTICS						
	16. LINE NO.	17. RELATIONSHIP TO HOUSEHOLD HEAD	18. AGE LAST BIRTH-	19. WARITAL	20a. RACE	DRIGIN	21. Sex	22. ARMED FORCES	23. Education highest	24. Education - complete
	(cc 12)	(cc 13b)	(CC 17)	(cc 18)	(CC 19a)	 (cc 196)	100 201	(mc. 21)	grade	that year?
	(035)	036	(037)	(038)	(019)	100 1007	60	(0.21)	(CC 22)	(cc 23)
pondent	-	1 Head	\cup	1. M.			(U4)	041	042	(043)
pondent	l .	2 Wife of head		z Wd.	Zi Nep.		M	1 Yes		1 [~] Yes
FIII 13b on	Line	3 Own child		3 ¯ D.	3 01.		• [] [<] INO		2 {] No
1	No.	4 Other relative	6	4 Sep.		Origin			Grade	
l		5 Non-relative		5 [] NM		· .				
i ⊂over page. t enumeratio	∙isth n?/Ro	is the same	26d.	Have you	been lo	oking fo	r work	during 1	10 DOCT 4	
o Check Item	8 B		(051)	1 🗋 Yes	5 N	o - Whe	n did y	ou last v	vork?	eeks?
on April 1 1	9702		1			2] Less	than 5 yea	ars ago - SK	P to 28a
Item B	770	2 🛄 No				3 4] 5 or m] Never	ore years worked	ago} SKI	P to 29
1, 1970? (S	tate, fo	reign country,	27.	Is there a	ny reaso	n why y	00 000	d not to		-
			(052)	1 🔲 No	Yes	~ 2	Alrea	dy had a	iob	WEEK?
County			1 .			з 🖂	Temp	prary ille	ness	
ts of a city.	town	village etc. 2	{			4	Going	to scho	ol	. }
Name of city	, town.	village, etc.	· .			5 🗖	Other	- Specif	y	
		7	<u> </u>			1				
			28a.	For whom	did you	(lost) w	ork? (/	Vame of	Company	
es on April	1, 1970	?	<u>ا</u>	ousiness,	organiza	tion or i	other e	mployer)		
		- A			· · · · ·					
rears old or	older?		053	× Neve	er worked	- SKIP	to 29			
29 🗆	Yes		b.	What kind	of busine	ess or in	dustry	is this?	(E.g.: T)	and
LAST WEE	K - (w	orking			, retorr s	noe stor	e, Stat	e Labor	Department	(orm)
ool) or somet	hing el	se?	1054) L							
6 🛄 Unat	ole to wo	ork - SKIP to 26d	(055)	An er	- mplovee :		VITE			
7 🗋 Retir	red		0	indiv	idual for	wages,	solary	company or comm	, business	10
B [_] Othe	r — Spe	cily	2	2 🗖 A GO	VERNME	INT emp	loyee	Federal	State cou	-
III Armed	Course		-		:al)?		۰. ۲		, ciule, cou	"" " ,
AST WEEV	rorces	, SKIP to 28a)	3	procti	-EMPLO	YED in	OMN P	usiness,	profession	•I }
farm or busi	ness of	perator in HH.	4	🔲 Worki	ng WITH	DUT PA	Y in fa	mily bus	iness or fa	rm?
hours?	Sł	(IP to 28a	d.¥ e	hat kind a ngineer, s	of work w lock cler	ere you k, typis	doing? L. farm	(E.g.: er. Armer	electrical d Forces	
is from which ff LAST WEI	h you w EK?	rere (056) [_						01223)	
nt – SKIP to If – SKIP to	28a 27		e. W ty	not were y ping, kee	your most ping acco	importe ount boo	nt acti ks, sel	vities or ling cars	duties? (1 s, Armed Fo	.g.: (ces)
						1	-			

		HOUSEHOLD SCR		
29.	Now I'd like to ask some questions about crime. They refer only to the last 6 months — between1, 197and, 197 During the last 6 months, did anyone break into or somehow illegally get into your	i Yes — How many times?	32. Did anyone take something belonging to you or to any member of this household, from a place where you or they were temporarily staying, such as a friend's or relative's home, a hotel or motel, or a vacation home?	Yes – How man limes?
30.	(apartment/home), garage, or another building on your property? (Other than the incident(s) just mentioned) Did you find a door jimmied, a lock forced, or any other signs of an ATTEMPTED break in?	Yes - How many times?	33. What was the total number of motor vehicles (cars, trucks, etc.) owned by you or any other member of this household during the last 6 months?	(05) 0 (None - SKIP to 36 1 1 2 2 3 3 4 4 or more
31.	Was anything at all stalen that is kept outside your home, or happened to be left out, such as a bicycle, a garden hose, or	i]Yes - How many times?	 Jid anyone steri, TRY to steal, or use (it/any of them) ≫ithout permission? Jid anyone steal or TRY to steal parts 	Yes - How many Thes?
	already mentioned)		attached to (it/any of them), such as a battery, hubcaps, tape-deck, etc.?	[] No
		INDIVIDUAL SCR	EEN QUESTIONS	
36.	The following questions refer only to things that happened to YOU during the last 6 months – between1, 197 and, 197 Did you have your (pocket picked/purse snatched)?	Yes — How many times?	46. Did you find any evidence that someone ATTEMPTED to steal something that belonged to you? (other than any incidents already mentioned)	; Yes – How man times? ; No
37.	Did anvone take something (else) directly fron ∞u by using force, such as by a stickup, mugging or threat?	Yes How many times?	47. Did you cail the police during the last 6 months to report something that happened to YOU which you thought was a crime? (Do not count any calls made to the police concerning the incidents you have just told me about.)	
38.	Did anyone TRY to rob you by using force or threatening to harm you? (other than any incidents already mentioned)	}Yes — How many times? ∏jNo] No — SKIP to 48) Yes — What happened?	
39.	Did anyone beat you up, attack you or hit you with something, such as a rock or bottle? (other than any incidents already mentioned)	Yes - How many limes?		
40.	Were you knifed, shat at, or attacked with some other weapon by anyone at all? (other than any incidents already mentioned)	Yes How many limes?	CHECK ITEM C	Yes How man; limes?
41.	Did anyone THREATEN to beat you up or THREATEN you with a knife, gun, or some other weapon, NOT including telephone threats? (other than any incidents already mentioned)	;Yes — How many times?	48. Did anything happen to YOU during the last 6 months which you thought was a crime, but did NOT report to the police? (other than any incidents already mentioned)	
42.	Did anyone TRY to attack you in some other way? (other than any incidents already mentioned)	Yes — How many times?	"] No - SKIP to Check Item E ; Yes - What happened?	
43.	During the last 6 months, did anyone steal things that belonged to you from inside ANY car or truck, such as packages or clothing?	_jYes How many times?		
44.	Was anything stolen from you while you were away from home, for instance at work, in a theater or restaurant, or while traveling?	Yes — How many limes?	CHECK ITEM D CHECK to be the state of the s	Yes — How man times?
45.	(Other than any incidents you've already mentioned) was anything (else) at all stolen from you during the last 6 months?	Yes How many times?	CHECK ITEM E	ntain any entries r. oondent, page.

	14.	15.	16.	PERSONAL C	HARACT	ERISTICS			$\mathcal{Q}_{k_{1}} = \mathcal{Q}$		Sec. Co
	NAME	TYPE OF	LINE NO.	RELATIONSHIP TO HOUSEHOLD	18. AGE LAST	19. MARITAL STATUS	203. RACE	205. ORIGIN	21. SEX	22. ARMED FORCES	23. Education -
	NEW RECORD	-	100 121	(co. 125)	DAY	(•	ľ	MEMBER	grade
	Last	(034)	<u>(01)</u>	(036)	(017)	(cc 18)	(cc 19a)	i (cc 19b)	(cc 20)	(cc 21)	(cc 22)
	1.1.1	1 Per - Self respondent		1 Head		11 M.	U39)		(<u>40</u>)		@42
	First	2 Tel Self-respondent		2 Wife of head		2 Wd.	2 Neg.		2] F	2 [] No	
		4 Tel Proxy Cover pi 5 INI - FIII 16-21	age No.	3 Own child	Age	3;]]D. 4]]]Sep.	3 [] Ot.	Origin			Grade
		Look at item 4 on cover	oage, is th	5 Non-relative		5 NM					
		household as last enume	ration? (Bo	x I marked)	(05)	• Hove you 1 🛄 Yes	ibeen lo 5 N	oking fo o Whe	r work n did y	during ti You last (he past 4 w work?
	25a. Did you	live in this house on Apri	1 1, 1970?		7			2 []]Less]5 or m	than 5 ye	ars ago – SK
		s - SKIP to Check Item B		2 🗋 No				4] Never	worked	sk
	U.S. post	session, etc.)	U? (State, f	oreign country,	(052)	Is there a	iny reaso Ye	on why y s - 2	ou cou Alrea	ld not to dy had a	ke a job LA job
	State, etc.	<u>د،</u> Cou	inty					3) Temp	orarý illi	ness
	c. Did you l	ive inside the limits of a	city, town,	village, etc.?				۹ L ۶ L	Other	– Speci	1
			, city, town	, village, etc	7	F					*
	d. Were you	es 18+ only) in the Armed Forces on A	nuil 1 1970	19	- 280.	ror whom business,	did you organizi	(last) wation or	ork? (other e	Name of mployer	company.
	(047) 1 Yes	2 🗌 No		4			<u> </u>	<u> </u>		_, _,	
		Is this person 16 years of	d or older?		<u> (199</u>) Б.	X Nev	of burt-	- SKIF	to 36		
	260. What were	you doing more of LAST	LJ Tes			radio m[g.	, retail :	shoe stor	re, Sta	te Labor	Departmen
	keeping h	ouse, going to school) or :	ncck – (w something e	orking, lse?	(054)	Were you					
	(048) 1 ₩ork 2 1 ₩ith	a tob but not at work a] Unable to v	rork - SKIP to 26d	055		- mployee	of a PR	IVATE	compan	y, busines:
	3 🗍 Lool	king for work B] Other – Spi	ecify	1		VERNM	wages, ENT em	salary alovee	or coma (Federa	nissions?
	▲ C Keer s Goin	ping house	rmpd Force	F			cal)? 5.54PL				, siule, co
	b. Did you de	any work at all LAST W	EEK, not co	s, SKIP to 28a) unting work	-	proct	ice or fa	/m?	UWN	business	, professio
	around the ask about	house? (Note: If farm of unpaid work.)	r business o	operator in HH.		4 🔄 Work	ing WITH	OUT PA	Y in f	omily bu	siness or f
	049 <u>0 No</u>	Yes - How many hours?		KIP to 28a		engineer, :	ot work s Stock cle	rk, typis	doing it, <i>(arn</i>	? (E.g.; ner, Arma	electrical ed Forces)
	c. Did you ha temporarily	ive a job or business from absent or on lovoff LAS	which you	were	<u>656</u>						
	(050) I 🗖 No	2 Yes - Absent - Sk	CIP to 28a			What were Syping, kee	your mos	t import	ant ac	tivities o	or duties?
	······	3 Tes - Layoff - SK	1P to 27		1	-					s. Armeu r
[36. The follow	ing questions refer only to	o things .	Yes - How many	46. I	STIONS Did you fin	d any ev	idence (hat 10		1-1-1-1-1
	between	_1, 197and, 192	7	times?		TTEMPT	ED to st	eal some	thing	that	1: 1 res - 1 t t
	Did you have	e your (pocket picked/purses	natched)?	No	· i	ncidents a	lready m	entioned	in ony)		
	from you by	take something (else) dir vusing force, such as by	a l	Yes - How many	47. [)id you cal omething t	ll the pol that hapr	ice duri	ng the	last 6 m	onths to re
·	stickup, mu 38. Did nave	rgging or threat?		No	(058)	rime? (Do	not cou	nt any c	alls me	de to th	e police
	or threateni	ing to harm you? (other th	torce 1 *	Yes - How many times?	٣,	No -	SKIP to	48 48	J NOVe	just told	i me about.
· -	39. Did anvone	tready mentioned)	• hit war	No		🗋 Yes	What ha	ppened?			
	with someth	ting, such as a rock or bo	ttle?	Yes - How many times?		<u> </u>			. <u> </u>		
⊦⊦	40. Were you kr	uny incluents already mer nifed, shot at or attacked	with	No		Look	at 47 - V	Yas HH r	nember	12+	Yes - H
	some other than any i-	weapon by anyone at all?	(other	res - How many times?	CHECK	attack thing s	ed or thr stolen or	eatened, an atter	orwa nptma	s som e- de to	11 11 10
	41. Did anyone	THREATEN to beat you	1 10 01	N0		Steal :	somethin	g that be	longed	to him?	i
	THREATEN other wears	you with a knife, gun, or	some	times?	48. D (059) ус	id onythin ou thought	g happen was a ci	to YOU	during did N	the last OT reason	6 months
L	(other than a	ny incidents olreody mention	ed)	No	Ť7 "	ther than a	ny incid	ents alr	eady m	entioned)
	42. Did anyone other way?	TRY to attack you in som (other than any instant	e .	Yes - How many		🖂 Yes – 3	What has	.neck Ite opened?	em E		
	already men	tioned)		times? No							
	43. During the I things that I	ast 6 months, did anyone belonged to you from total	steal internet	Yes - How many	CHECKY	Look a	t 48 – W	as HH m	ember	12+	[-] Yes - Ho
F	car or truck,	such as packages or clot	hing?	No	ITEM D	thing s	tolen or	atened, an attem	or was pt mad	some e to	tin
	44. Was anythin were away fi	g stolen from you while yo rom home, for instance at	work.	Yes How many		Do arm	of the	that be	longed	to him?	1No
┢	in a theater	or restaurant, or while tra-	veling?	No	- - - - - - - - - - - - - - - - - - -	for "He	or the s w many	times?"	estion	s contair	any entrie
	(Uther than a	any incidents you've alrea	idy it is	es - How many		No No	- Intervi	ew next	HH me	mber. E	nd intervie
	from you doe	tas anything (else) at all s	itolen i	times?	I.E.M.E.W		lostre	spondeni	, and	fill item	12 on cove





-98-

CRIME	NCIDENT	QUESTIONS - Contin	wed	
Any other way?	9 c	. Did insurance or any	health b	enefits program pay for all or part of
<u>ا</u> ا		the total medical expe	enses?	
ck other than rape	U	1 Not yet settled	1	
reatened		3 All	(SKIP	10 104
10		4 Part	·	
in weapon 10a	d.	. How much did insuran	CE 01 0	health benefits program anu?
son				nearm benefits program pays
d l	0.00	\$		Obtain an estimate, if necessary)
	100.	. Did you do anything to	o protec	t yourself or your property
	10	during the incident?		· · · · ·
Anything else?	US	z Yes		
	. ь.	What did you do? Any	thing of	en? (Mark all that applie)
ned to	130	1 Used brandished	gun or	knife
		2 Used tried physi	cal forc	e (hit, chased, threw object, used
abusive language		other weapon, et	c.)	
empted cvir		(screamed, yelle	d. caller	d for help, turned on Lights, erc.)
empted to		4 Threatened, argu	ed, reas	soned, etc., with offender
10a	1.	5 Resisted without	force,	used evasive action (ran drove away,
property		6 Other - Specify	y, locke	d door, ducked, shielded self, etc.)
perty				
		Was the crime committ	ed by or	nly one or more than one person?
J .	(1))	1 Only one 7	2	Don't know - 3 More than one -
ck you? Any	-			SKIP to 12a
opply)	۵,	Was this person male or female?		f. How many persons?
1. A				(143)
n hand, shot, knifed	(138)	1 Male		g. Were they male as female?
		2 Female		(144) 1 All male
down	- ·	3 Don't know		2 All female
, jumped, pushed, etc,	.·	14 . I.F. 1.1	<u> </u>	3 Male and female
suffered if any?	- "	the person was?		4 Don t know
at apply)	100	1 Under 12		h. How old would you say the
		2 17+14		(145) 1 Under 12 5 21 or over -
		3 15-17		2 12-14 SKIP to 1
ds		4 18.00		3 15-17 6 Don't know
knocked out		4 10-20 5 31		i How old would use all
ked unconscious		5 ZI OF OVER		oldest was?
, seratelies, swering		5 Doll Know		146 1 Under 12 4 18-20
int that you needed	<u>ر</u> .	Was the person someon	e you	2 12-14 5 21 or over
attock?		knew or was ne a stran	ger?	: Ware any of the set
	(140)	1 Stranger	· ·	or related to you or were they
		2 Don't know	}	all strangers?
nt of a nospital?	· ·	3 Known by	SKIP	(147) 1 All strangers SKIP
ent only		sight only	1.0 5	3 All relatives 1 SKIP
nger -	·	4 Casual		4 Some relatives 1 to 1
		acquaintance) ·	5 All known
		Well known		6 Some known
t your medical	d. 1	Has the person a relativ	/e	k. How well were they known?
Include hospital	•	of yours?		(14) 1 By sight only
heropy, braces, and	(14)	No No		2 Casual SKIP
ent does not know		Yes - What relatio	nship?	acquaintance(s) 10 m
to give an estimate.		2 Spouse or ex-	spouse	3 Well known
		3 Parent		I. How were they related to you?
		4 Own child		(149) 1 Spouse or 4 Brothers
		5 Brother or SIS	ter	ex-spouse sisters
were you covered		6 Other relative	-	2 Parents 5 Other -
pe of health		Specify 7		3 Own Specify
dicaid, Veterans'				
10-		as be/she		m. Were all of them -
		WL:)	(150) 1 White?
		mniter		2 Negro?
of these insurance	2	Negro?	SKIP	3 Uther? - Specify 7
d?	3	Other? - Specify7	120	A Combination Statist
. · · · ·				- Commination - Specify
	4	Don't know		5 Don't know
	Pa	ize 10	I	





-100-

CRIME INCIDEN	T QUESTIONS - Continued
against theft?	20a. Were the police informed of this incident in any way?
	(18) 1 [] No
KIP to 180	2] Don't know - SKIP to Check Item G
	Yes - Who told them?
	4 Someone else SKIP to Check Item G
	s Police on scene
an insurance company?	b. What was the reason this incident was not reported to
	the police? Any other reason? (Mark all that apply)
KIP to 18a	(182) 1 Nothing could be done - lack of proof
	a ' Police wouldn't want to be bothered
	4 Did not want to take time - too inconvenient
vered through insurance?	5 Private or personal matter, did not want to report it
·····	s [] Did not want to get involved
SKIP to 18a	7 Afraid of reprisal
	a Reported to someone else
	9 Tother - Specify
:	CHECK Is this person 16 years or older?
?	ITEM G
erty replaced by insurance	
settlement, ask for estimate	210. Did you have a job at the time this incident happened?
eplaced.	Ves
	b. What was the job?
	Check Item H
er lose any time from work	2 Different than described in NCS-1 items 28a-e
	c. For whom did you work? (Name of company, business,
	organization or other employer)
L 9	
mbers: 7	d. What kind of business or industry is this? (For example: TV
	and radio mig., retail shoe store, State Labor Dept., jarm)
anogemer:	e. Were you -
	(188) An employee of a PRIVATE company, business or
	individual for wages, salary or commissions?
	2 A GOVERNMENT employee (Federal, State, county or local)?
	3 SELF-EMPLOYED in OWN business, professional
	Working WITHOUT PAY is ismily business or form?
	What kind of work were you doing? (For example: electrical
	engineer, stock clerk, typist, (armer)
ed to you or other members of ut not taken in this incident?	
or window broken, clothing	g. What were your most important activities or duties? (For example:
to a car, etc.?	typing, keeping account books, selling cars, finishing concrete, etc.)
	Summerize this unsident of source of unsident
	CHECK
item(s) repaired or replaced?	
· · · · · · · · · · · · · · · · · · ·	7
o rengir or replace the	
a repair or reproce the	
ή.	
SKIP to 20g	
	Look at 12c on Incident Report, 1s there an
or replacement cost?	CHECK CHECK
w - SKIP to 20a	
	HH member 12 years of are or over who was
1	robbed, harmed, or threatened in this incident.
he repairs or teningement?	1
hat apply)	CHECK Strist the last Incident Report to be filled for this person
	ITEM J [] No - Go to next Incident Report.
•	Yes - is this the last HH member to be interviewed?
	No – Interview next HH member.
	number of Crime Incident Reports
	filled for this household in
·	Item 12 on the cover of NCS-1.

In the National Crime Survey victims are asked several questions designed to yield information about characteristics of their offenders. Among these questionnaire items, specific questions deal with the victim's perception of the age of the offender(s). The victimization survey data collected in response to these offender age questions provide an opportunity to examine variations in criminal victimizations committed by offenders perceived by their victims to be under 18 years old (juveniles), 18 to 20 years old (youthful offenders), or 21 or older (adults). This appendix provides explanation of and documentation for the various offender age variables which were created and used in this report and its companion reports in this series.

In order to fully understand the nature of the offender age data obtained in the National Crime Survey it is necessary to review the questions asked of survey respondents who were victimized in face-to-face encounters. Figure Cl illustrates these questions. The first question asked about offender characteristics is whether the crime was committed by only one or more than one person. If the victim reports that there was only one offender, he or she is asked the age of the lone offender. If more than one offender was involved, the victim is asked to report both the age of the youngest of the multiple offenders and the age of the oldest of the multiple offenders.

Apper	dix	В	

Neighborhood Characteristics

-102-

Table B1 Bureau of Census definitions of selected neighborhood characteristics

Economic Status	Families with less than \$5,000 family income Total families
Unemployment	Unemployed persons 16 years old and over
	Total civilian labor force 16 years old
	and over
Racial Composition	Black population
	Total population
Residential Mobility	Persons 5 and over living in same house
	as five years ago
	Total persons 5 years old and over
Structural Density	Units in structures of 5 or more units Total units (year round)

Table B2 Measures of association between selected neighborhood characteristics (gamma and Somer's D symmetric), NCS national data, 1973

Neighborhood Characteristics	Economic Status	Percent Unemployed	Percent Black	Residential Mobility	Structural Density
Economic Status	-	52 ^a 20 ^b	49 20	.00 .00	.11 .04
Percent Unemployed		_	.22 .09	.10 .04	.07 .03
Percent Black			. • <u> </u>	.13 .05	.09 .04
Residential Mobility				-	.41 .16
Structural Density					_

a Gamma

^bSomer's D

-103-

Appendix C

Offender Age in National Crime Survey Data



^aSee Appendix A: National Crime Survey Household Interview Questionnaire, Incident Report, questions 11, 11b, 11h, and 11i, and in other volumes of this series, National Crime Survey Commercial Interview Questionnaire, Incident Report, questions 6a, 6b, 6e, and 6f.

^bThis question is different in the commercial surveys. See incident question 6a.

4

72 MULTIPLE OFFENDER -104-VICTIMIZATIONS Age of youngest and age of oldest multiple offender

offenders.

Several important considerations emerge from an examination of Figure C1. First, "don't know" offender age responses are obtained from two groups of victims. One group is those who did not know whether the crime was committed by one or more than one offender. Generally, this group does not constitute a large proportion of the total victims. For example, in the NCS national sample for the years 1973 to 1977, in about 6 percent of the total personal victimizations (including rape, robbery, the assaults, and personal larceny) the victim did not know whether one or more than one offender was involved. The second group consists of victims who knew whether there was one or more than one offender, but did not know the offender's age. For this reason, in an additional 4 percent of the incidents the age of the offender was not ascertained.

Second, because victims of more than one offender (multiple offenders) are asked to report both the ages of the youngest and the oldest of multiple offenders, the survey data have three major offender age variables: 1) the perceived age of the lone offender, 2) the perceived age of the youngest of multiple offenders, and 3) the perceived age of the oldest of multiple

Third, the NCS interview schedules produce rather fine offender age categories only for offenders perceived to be less than 21 years old. From the victims response, the interviewer records the offender age as under 12 years old, 12 to 14, 15 to 17, 18 to 20, or 21 or older. This means that detailed offender age information is available only for victimizations committed by offenders perceived to be less than 21 years old. In the analyses in this report, offenders perceived by their victims to be under 18 years old are juveniles, those perceived to be between 18 and 20 years old are youthful offenders, and those perceived to be 21 or older are adults.

-105-

Table Cl shows the offender age variables that were used in the analysis for this report. Variables A, B, and C are the three major offender age variables in the NCS data: detailed age of lone offender, detailed age of the youngest of multiple offenders, and detailed age of the oldest of multiple offenders. Variables AA, BB, CC are ordinary recodes of these variables; they simply categorize together all offenders perceived to be under 18 years old.

The primary focus of much of the analysis in this report is on the incidents of victimization by juveniles, youthful offenders, and adults. Therefore it was necessary to create an offender age variable that would express the percent of the total victimizations (minus the small percentage in which the victim did not know whether there was one or more than one offender) attributable to offenders in different age categories, regardless of whether the incident involved lone or multiple offenders. To do this, variable D was created from variables A (detailed age of lone offender) and C (detailed age of oldest multiple offender) in the following manner:

Condition		Value
If A=1, under 12 or if C=1, under 12	then	D=1, under 12
If A=2, 12-14 <u>or</u> if C=2, 12-14	then	D=2, 12-14
If A=3, 15-17 <u>or</u> if C=3, 15-17	then	D=3, 15-17
If A=4, 18-20 <u>or</u> if C=4, 18-20	then	D=4, 18-20
If A=5, 21 or older or if C=5, 21 or older	then	D=5, 21 or olde
If A=6, Don't know age or if C=6, Don't know age	then	D=6, Don't know

4.1

age

Thus, when variable D (see Table C1) has the value of "1", under 12, this includes all lone offender victimizations committed by offenders perceived to be under 12 years old, plus all multiple offender victimizations in which the oldest of the multiple offenders was perceived to be under 12 years old. Variable D makes possible an examination of victimizations committed by offenders in various age groups, whether the incident involved only one or more than one offender. Variable DD is an ordinary recode of the detailed age of offender into juveniles (under 18), youthful offenders (18 to 20), and adults (21 or older). The detailed age of the oldest of multiple offenders (variable C), rather than the detailed age of the youngest of multiple offenders (variable B) was used to create variable D in order to insure that the perceived age of all offenders in any given offender age category did not exceed the upper limit of the age category. This is because there are some incidents in which the age composition of the multiple offender group is varied (e.g., the youngest might be 14 and the oldest might be 18). Table C2 shows that a mixed-age multiple offender group was reported in fewer than one out of three multiple offender victimizations. In two-thirds of the multiple offender victimizations the youngest and oldest multiple offenders were both perceived to be in the same age category. (Both under 18, 28 percent; both 18 to 20, 10 percent; and both 21 or older, 28 percent.) Because of the mixed-age multiple offender groups, in order to guarantee that no category of the detailed age of offender variable would include incidents that involved multiple offenders older than the upper limit of the category specified, it was necessary to use the age of the oldest of multiple offenders. However, because the majority of multiple offender incidents involved same-age offenders, the results of the analysis would

-106-

-107-

-108-

Table C1 Offender age variables

Variable name Values 1=Under 12, 2=12-14, 3=15-17, A. Detailed age of lone offender 4=18-20, 5=21 or older, 6=Don't know B. Detailed age of youngest multiple offender 1=Under 12, 2=12-14, 3=15-17, 4=18-20, 5=21 or older, 6=Don't know C. Detailed age of oldest multiple offender 1=Under 12, 2=12-14, 3=15-17, 4=18-20, 5=21 or older, 6=Don't know D. Detailed age of offender^a 1=Under 12, 2=12-14, 3=15-17, 4=18-20, 5=21 or older, 6=Don't know AA. Age of lone offender 1=Under 18, 2=18-20, 3=21 or older, 4=Don't know BB. Age of youngest multiple offender 1=Under 18, 2=18-20, 3=21 or older, 4=Don't know CC. Age of oldest multiple offender 1=Under 18, 2=18-20, 3=21 or older, 4=Don't know DD. Age of offender^a 1=Under 18, 2=18-20, 3=21 or older, 4=Don't know

^aIncludes perceived age of lone and perceived age of oldest multiple offender.

Ages of youngest a oldest multiple of Both under 18 Both 18 to 20 Both 21 or older Youngest under 18 Youngest under 18 Youngest 18 to 20 Error cases^b Don't know age^c

Total

^aThis table excludes incidents (about 6 percent of the total) in which the victim did not know whether there was one or more than one offender. Also excluded are lone offender victimizations.

^bIn a few cases the youngest offender was recorded in the interview as older than the oldest offender.

^CDon't know age of youngest, age of oldest, or both.

and ffender	Percent	Estimated number of victimizations
	27.9)	2,821,802
	9.6 65.3	972,372
	27.8	2,810,194
/oldest 18 to 20	11.3]	1,140,592
/oldest 21 or older	5.7 28.3	574,249
/oldest 21 or older	11.3	1,141,134
	0.2	18,068
	6.2	632,558
	100.0	10,110,969

Table C2 Ages of youngest and oldest multiple offenders in personal victimization, NCS national data, 1973-1977 aggregate^a not differ substantially if the age of the youngest multiple offender had been used in variable D.

-110-

Accuracy of Victims' Perceptions of Offenders' Characteristics

Most of the analyses in this monograph depend upon the ability of victims to make at least crude distinctions among offenders of different age groups; to a more limited extent, there is also a dependence upon the victims' ability to make distinctions between offenders of different sexes and races. The research literature that exists in this area is limited almost exclusively to questions relating to the accuracy of victim and witness recall of offender identity (e.g., ability to pick the offender out of a lineup) and descriptions of what transpired during the event, rather than to questions about the offender's basic demographic characteristics such as age, sex, and race. Most of this research involves simultaions or staged "crimes," often in front of groups of observers such as college students.¹ Although this research suggests that eye witness testimony regarding the identity of the actors involved and what transpired during the event are subject to substantial error, the research provides virtually no information about the ability of victims to report accurately about offenders' ages, sexes, and races. Presumably it is much less difficult for a victim simply to report these basic demographic characteristics than it is for a victim to identify a specific "offender" from among a "lineup" group of persons selected for inclusion in the lineup because they are demographically similar to each other. Because the available research literature did not shed much light on the accuracy of victims' perceptions of offenders' ages, sexes, and races, an attempt was made to study a sample of victims' reports of suspect characteristics (age, sex, and race) made at the time that the police took the offense report and the characteristics of arrestees who were subsequently

arrested for these crimes. The data below are for rapes and attempted rapes reported to the police in New York City between 1974 and 1977.² Of the three demographic characteristics -- age, race, and sex -- age is probably the most difficult for victims to estimate accurately. Table C3 shows a tabulation of suspect's age group as perceived by the victim at the time that the rape or attempted rape offense report was filed, and the arrestee's age group -- as determined from the arrestee's birth date -- as shown on the police arrest report. Suspect ages were reported for more than twelve thousand suspects and were reported as "don't know" for about nine hundred suspects. For most suspects (more than 8,000 out of 13,000) no arrest was made. Of those suspects for whom an arrest was made, the perceived age group and the arrest report age group are remarkably close. For example, of those arrested suspects perceived by the victim to have been under 14 years old, arrest records showed that 97 percent were actually under 14. For those suspects perceived to be 14 to 19, 95 percent of the arrestees were 14 to 19. In fact, for no suspect age group is the victims accuracy rate less than 89 percent. The overall ordinal measure of association (Somers' d) between suspect and arrestee's age for arrested rapists is .95.

The age groups for those under 21 are somewhat cruder, and those over 21 are finer, than in the NCS data. Nonetheless, the agreement between victims' perceptions and arrestees' actual ages is remarkable. It is important to note parenthetically that the strength of this relationship does not diminish appreciably when only the victims and offenders who were strangers to each other are included in the analysis. Because of the sexual nature of the offense of rape, the information on the correspondence between the suspect's and arrestee's sex is of limited

-111-

				Arrest	Arrestee's Age					
Suspect's Age	Under 14	14-19	20-24	25-29	30-34	35-39	40-45	Over 45	No arrest	Tota
Under 14	97.1 ⁸ (169)	2.9 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	(76) ^b	100 (174)
14-19	.6 (6)	95.7 (997)	2.7 (28)	.8 (8)	.2 (2)	0 (0)	0 (0)	·1 (1)	(1,224) ^b	100 (1,04)
20-24	.2 (2)	5.4 (56)	89.3 (930)	3.8 (40)	.9 (9)	•3 (3)	0 (0)	.1 (1)	(2,196) ^b	100 (1,04
25-29	.1 (1)	1.1 (11)	5.3 (55)	90.0 (933)	2.4 (25)	.8 (8)	.3 (3)	.1 (1)	(1,945) ^b	100 (1,03
30-34	0 (0)	.5 (3)	1.9 (12)	4.1 (26)	90.4 (577)	1.9 (12)	1.1 (7)	.2 (1)	(1,055) ^b	100 (63)
35-39	0 (0)	(0)	.9 (4)	1.8 (8)	2.9 (13)	89.4 (397)	3.2 (14)	1.8 (8)	(533) ^b	100 (44)
40-45	0 (0)	.7 (2)	.3 (1)	.3 (1)	2.0 (6)	2.0 (6)	91.1 (278)	3.6 (11)	(294) ^b	100 (30)
Over 45	0 (0)	.7 (2)	0 (0)	.7 (2)	.3 (1)	.3 (1)	2.1 (6)	95.8 (276)	(182) ^b	100 (288
Don't Know	4.4 (2)	21.7 (10)	13.0 (6)	26.1 (12)	15.2	4.4 (2)	8.7 (4)	6.5 (3)	(848) ^b	100 (46

Table C3 Correspondence Between Age of Suspect as Reported by Victim and Age of Arrestee as Shown on Police Arrest Records, New York City Rapes and Attempted Rapes, 1974-1977

^aRow percent.

4. 1

^b"No Arrests" excluded from row percent.

CExcludes "No Arrests."



value, but it is shown in Table C4. Of those suspects reported by victims to have been males and for whom an arrest was made, virtually all of them (99.8 percent) were male as judged from the police arrest report; of the 34 suspects reported by victims to have been females and for whom an arrest was made, 24 were female as judged by police arrest reports. The measure of association, phi -- the magnitude of which is severely limited owing to the extreme skewness of the sex distributions of suspects and arrestees -- is .73. The last characteristic to be examined is race/ethnicity (Table C5). The race/ethnicity categories used here are finer than are those available in the NCS data, and hence provide a stricter test of the ability of victims to report on arrestees' race/ethnicity. Consistent with the age data, these data show that victim's reports of suspects' race/ethnicity are in close agreement with the arrest report data. The agreement is .95 as judged by

the nominal measure of association lambda.

Of particular interest in connection with Table C5 is that according to Census Bureau procedures Hispanics are counted as white for purposes of racial classification. Hence in the NCS data, Anglo and Hispanic offenders are not categorized separately (see data collection instrument, Appendix A). It is possible that some victims perceive Hispanics as blacks and/or vice-versa. It is important to note that very few victims misperceive Hispanics as blacks or blacks as Hispanics. Thus, from the New York City rape data this does not appear to be a significant source of measurement error. These data regarding victims' ability to report on offenders' demographic characteristics are very encouraging. Although future research will have to sample a broader range of crimes and locales, the data suggest that some confidence in victims' reports of offenders' ages, races, and sexes, appears

justified at this time.

-113-

Table C4Correspondence Between Sex of Suspect As
Reported by Victim and Sex of Arrestee As
Shown on Police Arrest Records, New York
City Rapes and Attempted Rapes, 1974-1977

<u></u>	Arreste	e's Sex			
Suspect's Sex	Male	Female	No Arrest	Total	
Male	99.8 ^a (5,034)	.2 (8)	(8,240) ^b	100 (5,042) ^c	
Female	29.4 (10)	70.6 (24)	(52) ^b	100 (34) ^c	

^aRow percent.

^b"No Arrests" excluded from row percents.

CExcludes "No Arrests."



Table C5	Correspondence Between Race of Suspect As Reported by Victim
	and Race of Arrestee as Shown on Police Arrest Records, New
	York City Rapes and Attempted Rapes, 1974-1977

Suspect's			Arrestee's R	ace		No	:
Race	White •	Black	Hispanic	Oriental	Other	Arrest	Total
White	96.1 ⁴ (597)	1.0 (6)	2.9 (18)	0 (0)	0 (0)	(1,244) ^b	100 (621) ^c
Black	.2 (7)	98.9 (3,179)	.8 (26)	0 (1)	0 (0)	(5,394) ^b	100 (3,213)
Hispanic	.6 (7)	1.6 (19)	97.7 (1,167)	.1 (1)	0 (0)	(1,550) ^b	100 (1,194)
Oriental	9.1 (1)	0 (0)	9.1 (1)	81.8 (9)	0 (0)	(28) ^b	100 (11)
Other	0 (0)	7.7 (1)	23.1 (3)	0 (0)	69.2 (9)	(16) ^b	100 (13)
Don't Know	33.3 (1)	0 (0)	66.7 (2)	0 (0)	0 (0)	(81) ^b	100 (84)

^aRow percent.

 Γ

1 1

b"No Arrests" excluded from row percents.

CExcludes "No Arrests."



NOTES

-116-

¹See for example Buckhout (1974), Note (1977), Duncan (1976), Leippe, Wells, Ostrom (1978), Clifford and Scott (1978), and Kuehn (1974).
²We are grateful to Dennis Butler of the New York City Police Department for making available these data from his current comprehensive study of rape.

Appendix D

Rates of Victimization and Offending Based Solely on "At or Near Home" Incidents Table D1 Estimated annual rates of victimization in total personal crimes which occurred "at or near home" (per 100,000 persons in each population subgroup), by age of victim, extent of urbanization, and neighborhood economic status, NCS national data, 1973-1978 aggregate

-118-

Age of victim	E	conomic Status					
and extent of	(Percent	(Percent of total families with					
urbanization	less than \$5,000 family income)						
	Low (27-99)	Medium (11-26)	(0-10)				
12 to 17:							
SMSA Central Cities	1,102	901	769				
	(1,684,208) ^a	(2,884,244)	(1,401,189)				
Balance of SMSA	604	672	517				
	(663,613)	(3,579,145)	(4,543,019)				
Areas Outside of SMSA	382	422	838				
	(3,657,983)	(3,331,543)	(446,208)				
18 to 20:	2,004	1,551	1,032				
SMSA Central Cities	(987,977)	(1,650,441)	(672,731)				
Balance of SMSA	1,007	1,365	1,013				
	(399,611)	(1,697,358)	(1,914,155)				
Areas Outside of SMSA	922	846	1,265				
	(1,641,751)	(1,768,111)	(172,999)				
21 or older:	1,685	923	526				
SMSA Central Cities	(8,929,505)	(19,352,276)	(8,707,118)				
Balance of SMSA	975	690	421				
	(3,855,735)	(18,994,902)	(21,432,305)				
Areas Outside of SMSA	469	475	280				
	(19,231,335)	(17,501,182)	(2,089,002)				
m • • 1							
SMSA Central Cities	1,627	963	589				
	(11,601,690)	(23,886,961)	(10,781,038)				
Balance of SMSA	927	734	477				
	(4,908,959)	(24,271,405)	(27,889,479)				
Areas Outside of SMSA	486	496	434				
	(24,531,069)	(22,600,836)	(2,708,209)				

^a Six year average estimated number of persons in the population.

"at or near l age of victim national data	nome" (per 100,000 pe n, type of crime, ^a an a, 1973-1978 aggregat	ersons in each populat ad neighborhood unempl e	ion subgroup), by oyment, NCS
			· ·
		Unemployment	
Age of victim and type of crime	(Percent of to old and	tal civilian labor fo over which is unemplo	rce 16 years yed)
	Low (0-2)	Medium (3-5)	High (6-99)
12 to 17:	(4,714,881) ^b	(11,278,233)	(6,198,036)
Theft Violent	55 447	62 525	104 678
18 to 20:	(2,205,904)	(5,646,588)	(3,052,643)
Theft Violent	128 884	157 972	275 1,199
21 or older:	(25,689,586)	(62,669,028)	(31,734,746)
Theft Violent	100 374	128 478	234 745
Total:	(32,610,371)	(79,593,849)	(40,985,425)
Theft Violent	95 419	120 519	217 768

Theft crimes include robbery and personal larceny. Violent crimes include rape, aggravated assault, and simple assault.

^bSix year average estimated number of persons in the population.

Table D3 Estimated annual rates of victimization in personal crimes which occurred "at or near home" (per 100,000 persons in each population subgroup), by age of victim, type of crime,^a and neighborhood racial composition, NCS national data, 1973-1978 aggregate

0	(Percent Bla 1-5	ack)	
0	1-5	6-59	
			60-100
),322,582) ^b	(5,584,291)	(4,726,664)	(1,557,612)
58 467	72 541	64 631	191 900
,690,708)	(3,192,046)	(2,296,716)	(725,665)
138 937	172 1,003	191 1,051	515 1,498
6,233,437)	(32,065,537)	(24,989,416)	(6,804,971)
77 424	129 507	226 609	566 1,155
1,246,727)	(40,841,874)	(32,012,796)	(9,088,248)
78 464	124 550	199 643	497 1,138
	D,322,582) ^b 58 467 ,690,708) 138 937 6,233,437) 77 424 1,246,727) 78 464	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

^aTheft crimes include robbery and personal larceny. Violent crimes include rape, aggravated assault, and simple assault.

 $^{\mathrm{b}}\mathrm{Six}$ year average estimated number of persons in the population.

h.

Table D4 Estimated a "at or near age of vict NCS nationa	nnual rates of victim home" (per 100,000 p im, type of crime, ^a a 1 data, 1973-1978 agg	ization in personal cr ersons in each populat nd neighborhood reside regate	imes which occurred ion subgroup), by ential mobility,
Age of victim and type of crime	R (Percent over livi	esidential Mobility of total persons 5 yea ng in same house as 5	rs old and vears ago)
	Low (63-99)	Medium (47-62)	High (0-46)
12 to 17:	(5,631,450) ^b	(11,093,404)	(5,466,294)
Theft Violent	30 369	58 555	141 738
18 to 20:	(2,410,921)	(5,011,428)	(3,482,785)
Theft Violent	90 585	167 979	288 1,485
21 or older:	(29,691,475)	(59,538,941)	(30,862,942)
Theft	113 357	136 502	210 758
Total:	(37,733,846)	(75,643,773)	(39,812,021)
Theft Violent	99 373	126 541	207 818

^aTheft crimes include robbery and personal larceny. Violent crimes include rape, aggravated assault, and simple assault.

^bSix year average estimated number of persons in the population.

-120-

Table D5 Estimated annual rates of victimization in personal crimes which occurred "at or near home" (per 100,000 persons in each population subgroup), by age of victim, type of crime, a and neighborhood structural density, NCS national data, 1973-1978 aggregate

		Structural Density			
Age of victim and type of crime	(P st	(Percent of total units in structures of 5 or more units)			
	Low (0)	Medium (1-11)	High (12-99)		
12 to 17:	(4,931,583) ^b	(11,666,640)	(5,592,926)		
Theft Violent	36 394	67 531	116 731		
18 to 20:	(1,927,544)	(5,393,952)	(3,583,638)		
Theft Violent	23 801	174 887	286 1,333		
21 or older:	(22,666,487)	(60,757,546)	(36,669,327)		
Theft Violent	81 372	96 471	282 714		
Total: ^e	(29,525,614)	(77,818,138)	(45,845,891)		
Theft Violent	69 403	97 508	262 764		

^aTheft crimes include robbery and personal larceny. Violent crimes include rape, aggravated assault, and simple assault.

^bSix year average estimated number of persons in the population.

Age of offende extent of urba and type of cr

12 to 17: SMSA Central Theft Violent

Balance of SI Theft Violent

> Areas Outsid Theft Violent

18 to 20: SMSA Central Theft Violent

> Balance of S Theft Violent

Areas Outsid Theft Violent

21 or older: SMSA Central Theft Violent

Balance of Theft Violent

Areas Outsid Theft Violent

Total:^e SMSA Central Theft Violent

Balance of Theft Violent

> Areas Outsid Theft Violent

^bTheft crimes include robbery and personal larceny. Violent crimes include rape, aggravated assault, and simple assault.

^eExcluded are incidents (about 4 percent of the total) in which the victim did not know the age of offender.

rates of offending.

Table D6 Estimated annual rates of offending in personal crimes which occurred "at or near home" (per 100,000 potential offenders in each population subgroup), by age of offender,^a extent of urbanization, type of crime,^b and neighborhood economic status, NCS national data, 1973-1978 aggregate^C

-123-

r,	Ec	onomic Status	
nization,	(Percen	t of total families w	vith
ime	less th	an \$5,000 family inco	ome) Hich
	LOW (27-00)	(11-26)	(0_10)
	(27-99)	(11-20)	(0-10)
. Cities	(1,684,208)"	(2,884,244)	(1,401,189)
	925	2 015	1 037
	1,540	2,010	1,007
MSA	(663,613)	(3,579,145)	(4,543,019)
	61	257	167
	753	650	752
a of SMSA	(3 657 083)	(3 331 543)	(446, 208)
e or shok	(3,057,903) f	(3,331,343) f	(440,200) f
	332	507	348
		1	
<u></u>	(007 077)	(1 (50 (//1)	(670 701)
. Cities	(987,977)	(1,650,441)	(0/2,/31)
	1 346	1,020	2,139
	1,540	1,000	~,
MSA	(399,611)	(1,697,358)	(1,914,155)
	306	425	412
	1,279	1,870	1,406
e of SMSA	(1,641,751)	(1,768,111)	(172,999)
	f	f	f
	1,456	862	1,584
Cities	(8 929 505)	(19.352.276)	(8,707,118)
. UILIES	496	215	116
	1,189	727	427
			· · · · · · · · · · · · · · · · · · ·
MSA	(3,855,735)	(18,994,902)	(21,432,305)
	263	128	72
	020	042	550
le of SMSA	(19,231,335)	(17,501,182)	(2,089,002)
	72	63	39
	446	488	331
Cition	(11 601 690)	(23 886 961)	(10,781,038)
L UILIES	706	336	149
	1,254	926	613
			·
SMSA	(4,918,959)	(24,271,405)	(27,889,479)
	239	168	111
	048	123	220
ie of SMSA	(24,531,069)	(22,600,836)	(2,708,209)
	80	76	30
	566	520	401
		4	

a Includes perceived age of lone and perceived age of oldest multiple offender.

^CExcluded are incidents (about 6 percent of the total) in which the victim did not know whether there was one or more than one offender.

 $^{\rm d}{\rm Six}$ year average estimated number of persons in the population.

f There were too few offenders reported in this category to provide reliable estimated

Estimated annual rates of offending in personal crimes which occurred Table D7 "at or near home" (per 100,000 potential offenders in each population subgroup), by age of offender,^a type of crime,^b and neighborhood unemployment, NCS national data, 1973-1978 aggregate^C

		Unemployment	
	(Percent of	total civilian labor fo	rce 16 years
	old and	over which is unemployed	d)
-	Low	Medium	High
	(0-2)	(3-5)	(6-99)
	(4,714,880) ^d	(11,278,233)	(6,198,035)
	210	246	368
	757	806	1,076
	(2,205,904)	(5,646,587)	(3,052,642)
	389	586	776
	1,199	1,135	2,033
	(25,689,586)	(62,669,027)	(31,734,746)
	94	109	246
	411	539	810
	(32,610,371)	(79,593,849)	(40,985,425)
	131	162	303
	514	619	941
		(Percent of old and Low (0-2) (4,714,880) ^d 210 757 (2,205,904) 389 1,199 (25,689,586) 94 411 (32,610,371) 131 514	Unemployment(Percent of total civilian labor for old and over which is unemployed Low Medium $(0-2)$ (3-5)(4,714,880) ^d (11,278,233)210246 757210246 806(2,205,904)(5,646,587)389586 1,1991,135(25,689,586)(25,689,586)(62,669,027)94109 539(32,610,371)(79,593,849)131162 619

^aIncludes perceived age of lone and perceived age of oldest multiple offender.

^bTheft crimes include robbery and personal larceny. Violent crimes include rape, aggravated assault, and simple assault.

^CExcluded are incidents (about 6 percent of the total) in which the victim did not know whether there was one or more than one offender.

dSix year average estimated number of persons in the population.

^eExcluded are incidents (about 4 percent of the total) in which the victim did not know the age of offender.

Age of offender and type of crime		Racial Con (Percen	mposition t Black)	
	0	1-5	6-59	60-100
12 to 17: '	(10,322,582) ^d	(5,584,290)	(4,726,664)	(1,557,611)
Theft Violent	148 697	287 925	287 1,046	1,002 1,304
18 to 20:	(4,590,707)	(3,192,046)	(2,296,715)	(725,665)
Theft Violent	362 1,292	446 1,375	819 1,143	2,158 3,182
21 or older:	(56,233,437)	(32,065,536)	(24,989,415)	(6,804,970)
Theft Violent	81 476	122 565	210 653	495 1,296
Total: ^e	(71,245,726)	(40,841,872)	(32,012,794)	(9,088,246)
Theft Violent	108 559	169 677	265 746	714 1,447

^aIncludes perceived age of lone and perceived age of oldest multiple offender. ^bTheft crimes include robbery and personal larceny. Violent crimes include rape, aggravated assault, and simple assault.

^CExcluded are incidents (about 6 percent of the total) in which the victim did not know whether there was one or more than one offender.

d s year average estimated number of persons in the population.

^eExcluded are incidents (about 4 percent of the total) in which the victim did not know the age of offender.

-124-

Table D8 Estimated annual rates of offending in personal crimes which occurred "at or near home" (per 100,000 potential offenders in each population subgroup), by age of offender,^a type of crime,^b and neighborhood racial composition, NCS national data, 1973-1978 aggregate^C

Table D9 Estimated annual rates of offending in personal crimes which occurred "at or near home" (per 100,000 potential offenders in each population subgroup), by age of offender,^a type of crime,^b and neighborhood residential mobility, NCS national data, 1973-1978 aggregate^c

	Res	idential Mobility		
Age of offender	(Percent of total persons 5 years old and over			
and type of crime	living in same house as 5 years ago)			
	Low	Medium	High	
	(63-99)	(47-62)	(0-46)	
12 to 17:	(5,631,450) ^d	(11,093,404)	(5,466,294)	
Theft	166	188	349	
	556	524	893	
18 to 20:	(2,410,921)	(5,011,428)	(3,482,785)	
Theft	480	499	466	
Violent	1,176	1,036	973	
21 or older:	(29,691,475)	(59,538,941)	(30,862,942)	
Theft	8 3	107	173	
Violent	327	432	704	
Total: ^e	(37,733,846)	(75,643,773)	(39,812,021)	
Theft	120	144	221	
Violent	415	485	753	

^aIncludes perceived age of lone and perceived age of oldest multiple offender.

^bTheft crimes include robbery and personal larceny. Violent crimes include rape, aggravated assault, and simple assault.

^CExcluded are incidents (about 6 percent of the total) in which the victim did not know whether there was one or more than one offender.

^dSix year average estimated number of persons in the population.

^eExcluded are incidents (about 4 percent of the total) in which the victim did not know the age of offender.

able	D10	Estimated a "at or near subgroup), structural	b d
		i	
	• • •	_	

Age of offender and type of crime

12 to 17:

Theft Violent

18 to 20:

Theft Violent

21 or older:

Theft Violent

Total:^e

Theft Violent

^bTheft crimes include robbery and personal larceny. Violent crimes include rape, aggravated assault, and simple assault.

^eExcluded are incidents (about 4 percent of the total) in which the victim did not know the age of offender.

-126-

nnual rates of offending in personal crimes which occurred home" (per 100,000 potential offenders in each population by age of offender,^a type of crime,^b and neighborhood density, NCS national data, 1973-1978 aggregate^c

	Structural Density	
(Percent	of total units in structu more units)	res of 5 or
Low (0)	Medium (1-11)	High (12-99)
(4,931,583) ^d	(11,666,640)	(5,592,926)
98 330	217 873	454 1,346
(1,927,544)	(5,393,952)	(3,583,638)
186 1,474	399 1,331	1,124 1,463
(22,666,487)	(60,757,546)	(36,669,326)
94 444	89 539	261 745
(29,525,614)	(77,818,138)	(45,845,890)
101 492	130 644	363 874

^aIncludes perceived age of lone and perceived age of oldest multiple offender.

^CExcluded are incidents (about 6 percent of the total) in which the victim did not know whether there was one or more than one offender.

^dSix year average estimated number of persons in the population.
-128-

Appendix E

Table El Type of crime definitions in the National Crime Survey

				•
				Table El (con
Type of crime	Definition			
Rape	Carnal knowledge through the use of force			
-	or the threat of force, including attempts.			Simple assault
	Statutory.rape (without force) is excluded.			
	Includes both heterosexual and homosexual			
	rape.			
Robbery	Theft or attempted theft, directly from a			
	person or a business, of property or cash			
	by force or threat of force, with or without			Personal larceny
	a weapon			with contact*
	a weapon.			
	This includes both.			
	inis includes both.			
Dahhama and th				
Robbery with	The far an attempted theft from a new or			- Personal larcenv
injury	Inert or attempted theit from a person,			- without contact
	accompanied by an attack, either with or			
	without a weapon, resulting in injury.			
	An injury is classified as resulting from			
	a serious assault if a weapon was used in			
	the commission of the crime or, if not, when			
	the extent of the injury was either serious			
	(e.g., broken bones, loss of teeth, internal			
	injuries, loss of consciousness) or undeter-			*To this report
	mined but requiring 2 or more days of		•	
	hospitalization. An injury is classified			personal larcer
	as resulting from a minor assault when the			
	extent of the injury was minor (e.g.,			larceny with con
	bruises, black eyes, cuts, scratches,		1997 - 1997 -	
	swelling) or undetermined but requiring			
	less than 2 days of hospitalization.			
	And :			
Robbery without				
injury	Theft or attempted theft from a person,			
	accompanied by force or the threat of			
	force, either with or without a weapon.			
	but not resulting in injury.			
		and a second second second		
Appravated assault	Attack with a weapon resulting in any			
inggravated abbaute	injury and attack without a weapon result-			
	ing either in serious injury (a g hroken			
	honor loss of teeth internal interior		and the second se	
	loss of consciousness) or in undetermined		n na h- tarta Valencia	
	injum regulting 2 or more days of heari-			
	toldestion Also includes attempted account			
	tailzation. Also includes attempted assault			
	with a weapon.			

Attack without a weapon resulting either in minor injury (e.g., bruises, black eyes, cuts, scratches, swelling) or in undetermined injury requiring less than 2 days of hospitalization. Also includes attempted assault without a weapon.

-129-

(continued)

Theft of purse, wallet, or cash by stealth directly from the person of the victim, but without force or the threat of force. Also includes attempted purse snatching.

Theft or attempted theft, without direct contact between victim and offender, of property or cash from any place other than the victim's home or its immediate vicinity. In rare cases, the victim sees the offender during the commission of the act.

eport personal larceny with contact is referred to simply as larceny." This is a departure from the standard National Crime finitions in which "personal larceny" includes both personal ith contact and personal larceny without contact.

-130-

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