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## Safe and Secure Neighborhoods

Physical Characteristics and Informal Reactorial Control in High and Low Claime Neighborhoods

a publication of the National Institute of Justice.

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## Safe and Secure Neighborhoods:

Physical Characteristics and Informal Territorial Control in High and Low Crime Neighborhoods

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> > May 1982

U.S. Department of Justice National Institute of Justice

National Institute of Justice James L. Underwood Acting Director

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#### ABSTRACT

The Safe and Secure Neighborhoods study addresses the issue of how some urban neighborhoods maintain a relatively low level of crime despite their physical proximity and social similarity to high crime areas. The basic research question is: Why are some neighborhoods relatively safe that would be expected to be unsafe because of their proximity to dangerous areas and their social and economic characteristics? The study explores differences in various dimensions of the concept of territoriality (spatial identity, local ties, social cohesion, informal social control) and physical characteristics (land use, housing characteristics, street type, boundary characteristics, etc.) in three pairs of neighborhoods in Atlanta, Georgia. Neighborhoods within pairs are adjacent and are matched on racial composition and economic status but have distinctly different crime levels. The data base consists of a sample survey of households in the study neighborhoods that focuses on measurement of the dimensions of territoriality and various secondary data sources on physical characteristics and crime on the property, block, and neighborhood level. The results indicate that differences in physical characteristics distinguish between matched high and low crime neighborhoods to a far greater extent than do differences in the measures of territoriality. Low crime neighborhoods are more insulated from surrounding areas than are high crime neighborhoods. The flow of outsiders into and out of low crime neighborhoods is inhibited because land use is more homogeneously residential, there are fewer major arteries, and boundary streets are less travelled. Low crime neighborhoods are also surrounded by areas of higher socioeconomic status than are high crime neighborhoods. There are relatively few differences in informal territorial control between high and low crime neighborhoods. Where differences exist, informal territorial control is more characteristic of high crime than of low crime neighborhoods. It appears to be an expression of fear of existing crime rather than a strategy to maintain safety. Assessments by residents of the amount of crime in the neighborhood are consistent with objective neighborhood crime rates but fear, avoidance, and protective behavior do not differ significantly between low and high crime neighborhoods. There is little relationship between assessment of the amount of crime in the neighborhood and fear, avoidance, or protection.

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The decay of the nation's cities has been a major domestic issue for almost two decades. Crime is often viewed as a major factor in the decay process, acting as both cause and effect. Once viable neighborhoods have become unlivable, as people are afraid to leave their homes at night, neighbors isolate themselves from each other, and businesses leave the area, and with them, jobs. However, some older urban neighborhoods have remained viable despite being surrounded by/decay. The purpose of this study is to investigate how some urban neighborhoods maintain a low level of crime despite their proximity and similarity to relatively high crime areas.

The notion that the responsibility for crime control cannot rest solely with the police has been given increasing credence by researchers, law enforcement agencies, and the public. The community, it is believed, must play a role. Attention, therefore, is becoming focused on the influence of informal social control processes in deterring crime as well as on the physical and social characteristics that appear to support these processes.

Oscar Newman (1972) states that mechanisms for informal citizen surveillance are missing in our cities because of both the transience and heterogeneity of many neighborhoods and the failure of building design to foster interaction among neighbors. This view, however, fails to recognize the diversity among urban neighborhoods. While many neighborhoods fit Newman's description, residents of some neighborhoods have been able to maintain or create social cohesiveness, a sense of shared identity with and responsibility for the neighborhood. The stereotype is the old, stable "urban village", but other neighborhoods may display similar qualities. Residents of these neighborhoods would be expected to be better able to defend their neighborhood against crime than residents of other neighborhoods, often located in close proximity. While this seems a plausible hypothesis, it has rarely been subjected to systematic examination.

Two major bodies of research have emerged which attempt to account for differences in crime rates among neighborhoods. One set of studies emphasizes physical characteristics such as the spatial arrangement of buildings, street design, diversity of land use, and the like. This approach was originally inspired by Jane Jacobs (1961) and later by Oscar Newman (1972). The other set of studies is concerned with the social correlates of crime - residential stability, racial and economic composition, and neighborhood change. Research on the social correlates of crime originated with the urban ecological perspective developed at the University of Chicago in the 1920's (Bordua, 1958-1959; Lander, 1954; Shaw and McKay, 1942; Sutherland and Cressey, 1966).

Implicit in both bodies of research is the assumption that the design of the physical environment or socioeconomic characteristics affects the ability of neighborhood residents to maintain control over the physical space which

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#### I. INTRODUCTION

they inhabit. This informal territorial control makes neighborhood residents more or less able to defend their neighborhoods against crime. Thus, territoriality - the maintenance of control over an area by the inhabitants of that area - appears to be the critical intervening variable that mediates the relationship between the social and physical environment and the level of criminal activity, and perhaps, fear of crime (Suttles, 1968, 1972).

There is a long tradition of research on the social correlates of crime and more recent literature on the relationship between the physical environment and crime and on the effect of neighborhood social cohesion on fear of crime (Hartnagel, 1979; Skogan and Maxfield, 1980; Taylor, et al. 1980). However, the role of the informal social structure of neighborhoods in the defense against actual crime remains largely unexamined. In addition, there have been few comparisons of the relative effects of physical characteristics and informal social structure on neighborhood crime. The major question addressed in this study is: Are there differences in physical characteristics and informal territorial control in relatively safe and unsafe neighborhoods that are adjacent and similar? More specifically:

- 1. Are there systematic differences in the methods and levels of informal territorial control in high and low crime neighborhoods?
- 2. Are there differences in physical characteristics in high and low crime neighborhoods?
- Are physical characteristics or informal territorial control more 3. important in differentiating low and high crime neighborhoods?
- 4. Are individual reactions to neighborhood crime consistent with objective crime measures, and, if not, what characteristics of individuals and their environment account for these discrepancies?

These questions are addressed in a study of three pairs of demographically similar and physically adjacent high and low crime neighborhoods in Atlanta, Georgia.

The following section of this report discusses the conceptual approach and presents a model of neighborhood safety. The third section describes the research methods. The fourth, fifth, and sixth sections present the results of the data analysis on differences between high and low crime neighborhoods in physical characteristics, informal territorial control, and reactions to crime, respectively. The seventh section summarizes results and offers concluding remarks.

Abundant literature exists on the relationship between neighborhood physical and social conditions and crime. However, there are several major problems with this body of research. One is that studies showing a relationship between poverty and crime take a monolithic view of low income neighborhoods. They do not explain why some poor neighborhoods are relatively safe, while others are dangerous. Second, studies tend to examine either social conditions or physical design, rather than taking both into account. Third, while many studies infer that the effect of social or physical characteristics on crime is transmitted through informal social control, this latter factor is seldom actually measured.

This study focuses on both objective characteristics of neighborhoods that have been linked to crime and the informal territorial control in neighborhoods that is believed to transmit the effects of objective conditions. The literature on the relationship between the objective conditions and crime will be reviewed first. Objective conditions are defined as physical design. social characteristics, and characteristics of neighborhood boundaries. Informal territorial control and its relation to crime will be discussed later.

#### Neighborhood Environment and Crime A.

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1. Physical characteristics. Three general categories of physical characteristics have been associated with neighborhood crime: building type, land use, and street design. The underlying theme of this research is that physical design can either foster or retard social interaction among neighbors, informal street surveillance, and a proprietary attitude toward the neighborhood. All of these are believed to deter crime.

a. Building type. Oscar Newman's (1972) study of the effect on crime of physical design, particularly buildings and streets, spawned a large number of subsequent studies on the notion of defensible space (Reppetto, 1974; also, see Gwaltney and Yin, 1978, Gwaltney, 1978, and Taylor, et al., 1980 for literature reviews). Newman found in a study of public housing that the taller the building, the higher the crime rate. He also reported that residents of high-rise public housing displayed greater animosity toward police than those in low-rise projects. He inferred from these findings that in tall buildings there is a forced disassociation between dwellings and street activities and a sense of alienation both from the surrounding neighborhood and other residents of the project. Thus, areas with a high proportion of high-rise dwellings would be expected to have higher crime rates than those characterized by low-rise structures. However, Mawby's (1977) study of public housing projects in Britain found no association between high-rise and low-rise buildings and offense rate. In addition, Newman's study was limited to public housing. His findings may not apply to privately owned buildings.

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#### II. CONCEPTUAL APPROACH: THE ENVIRONMENT. TERRITORIALITY, AND NEIGHBORHOOD CRIME

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Related to the issue of height, it has also been found that neighborhoods with a high proportion of single-family dwellings have lower crime rates than those dominated by multi-family dwellings (Boggs, 1965; Reppetto, 1974). The explanation offered for this finding is that residence in a single-family dwellings encourages more of a proprietary attitude toward the surrounding area than residence in a multi-family building.

b. <u>Street design</u>. Proponents of the defensible space perspective assert that the more the street design is able to delineate public and private areas, the greater its effectiveness in reducing crime. Gardiner (1978) argues that the location of a major artery in a residential area encourages crime. A street that accommodates large numbers of people living outside the neighborhood increases both the number of potential victims and offenders in the neighborhood. In addition, the large number of people who use these streets makes it difficult for residents of the area to distinguish neighbors from strangers, and therefore weakens the neighborhood's informal surveillance capacity. Studies have found that the location of major arteries in residential areas increases residential burglary (Dietrick, 1977; Fowler, et al., 1979, Newman and Wayne, 1974) and fear of crime (Fowler, et al., 1979; Baumer and Hunter, 1979). Thus, low crime neighborhoods are expected to have fewer major streets than adjacent high crime neighborhoods.

Several other aspects of street design are also believed to affect crime. Building setbacks, street lighting, and visual obstructions created by shrubbery, high fences, and the like all directly affect the ability of neighborhood residents to informally surveil the area. Surveillance is more difficult in blocks with severely staggered building setbacks than in blocks with straight line setbacks (Newman, 1972). The findings on the effect of street lighting on crime are mixed. A study by Wright, et al. (1974) found that the intensity of lighting had a negative effect on violent crime like assault and robbery but little effect on property crimes. In contrast, Reppetto's (1974) study of residential crime found no systematic relationship for either robbery or burglary.

c. Land use. Jacobs (1961) asserts that diverse land use is a key element in crime deterrence. By diverse land use, Jacobs means that neighborhoods and blocks within neighborhoods have many different functions, that is residential, commercial, institutional, and leisure. Multi-functional areas will attract a continual flow of people throughout the day and evening hours. Jacobs suggests that this is the most effective means of insuring informal surveillance, what she refers to as "a basic supply of activities and eyes" (1961: 40). In contrast, the domination of a single land use, regardless of what it is, results in a scheduling of use, such that the area is guaranteed to be deserted for long periods of time. Despite the persuasiveness of Jacobs' arguments, diversity <u>per se</u> may not be sufficient to reduce crime. Dietrick (1977) found that residential burglary occurred more frequently near commercial areas. Moreover, certain commercial establishments (liquor stores, bars, adult book stores) and service facilities (methadone clinics) may attract.

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potential offenders to the area and thereby promote crime (Minnesota Crime Prevention Center, 1978a, 1978b). Thus, both the extent and type of diversity must be taken into account. In addition, land use that creates boundaries may also have an effect on crime. Depending on its location, a railroad, expressway, or commercial district may help to reduce crime by creating or reinforcing neighborhood boundaries or may help to increase crime by slicing through the core of the neighborhood.

2. <u>Social characteristics</u>. Research on the social correlates of crime has a long history, beginning with the classical ecological studies of Chicago in the 1920's. The bulk of the literature shows that crime is most prevalent in poor, nonwhite, transient areas. The usual explanations are that such areas both breed and attract criminals and lack the cohesion to deter criminals coming from within or outside. However, the major problem with this research is that it usually does not go beyond simple statistical correlations to an understanding of the underlying relationships.

Four neighborhood social characteristics have been emphasized in the literature: economic status, race, residential stability, and life cycle stage of the residents.

a. <u>Economic status and racial composition</u>. Many studies show that crime rates tend to be highest in low income, predominantly black neighborhoods near the city's core (Bordua, 1958-1959; Chilton, 1964; Lander, 1954; Polk, 1957-1958; Report of the National Advisory Committee on Civil Disorders, 1968; Reppetto, 1974; Savitz, 1960; Schmid, 1960a, 1960b; Shaw and McKay, 1942). However, it may not be that a high percentage of blacks or poor people, <u>per se</u>, promotes crime but rather that they tend to have low rates of home ownership which may discourage the formation of close ties to and a sense of responsibility for the neighborhood.

b. Residential stability. Studies have suggested that crime is lower in residentially stable than in unstable neighborhoods (Coleman, 1976; Sutherland and Cressey, 1966). The underlying assumption is that long-term residence results in the formation of strong emotional ties to the neighborhood, the ability to distinguish between neighbors and strangers, and the development of informal interaction with others living in the area. These qualities are often viewed as the best defense against crime. Suttles reports in his study of a poor Chicago neighborhood that stable Italian, Mexican, and Puerto Rican communities were able to form "an extensive communication network in which personal information is freely revealed and can travel beyond the range of face-to-face relations" (1968: 88). These areas had fewer burglaries and robberies than surrounding areas. Blacks, who lived primarily in a large public housing project, were unable to form what Suttles refers to as a "stable moral community." One major reason for this was the enforced transiency, since it was necessary to move out once the family's income exceeded a certain level.

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Poor and black neighborhoods are typically viewed as targets for crime. However, this may be true because these areas also tend to be transient. In attempting to explain differences in crime between neighborhoods, it is therefore important to separate the effects of stability from those of economic and racial composition.

c. Life cycle stage of residents. The life cycle stage of individuals is defined by their age and family type. Abundant individual level evidence links crime to adolescence and early adulthood. Neighborhoods with a large proportion of adolescents would therefore be expected to have high crime rates, particularly for crimes which tend to be locally committed (Reppetto, 1974). Victimization surveys show high rates of fear of crime among the elderly but low rates of victimization. (Erskine, 1974; Hindelang, 1974; Skogan and Maxfield, 1980). Thus, neighborhoods with a high percentage of elderly people would be expected to have high fear of crime but low rates of objectively measured crime (Patterson, n.d.).

With regard to family type, neighborhoods with a large number of families with young children, that is family oriented neighborhoods, may be well defended against crime (Boggs, 1965). Suttles (1972) asserts that children and mothers with children have the clearest view of the internal structure of the neighborhood and the greatest stake in its safety, because they spend more time on the street than others. They tend to know more people in the neighborhood and are most involved in information exchange. In contrast, neighborhoods dominated by childless households may not be as well defended, because fewer people are on the street during the day. Thus, holding other variables constant, family oriented neighborhoods should have lower crime than neighborhoods dominated by childless households.

Equally as important as internal characteristics in differentiating between high and low crime neighborhoods may be the characteristics of neighborhood boundaries.

3. Characteristics of neighborhood boundaries. The critical difference in crime levels between two adjacent neighborhoods may be the characteristics of their other borders. A "buffer zone" or "no-man's land" (Suttles, 1968) separating two neighborhoods is an area in which no one lives permanently and over which no one exercises control. It is, therefore, regarded as dangerous. Railroads, expressways, and large industrial concentrations are examples of such areas. Because few people venture into them, they may inhibit potentially antagonistic people from entering a neighborhood. Furthermore, anyone who crosses such boundaries is likely to be immediately obvious to neighborhood residents. Thus, a neighborhood with such a "buffer zone" may have less crime than a nearby area without one. Second, a low crime neighborhood and a stable, middle income neighborhood. In this case the low crime neighborhood would be closer to an area that is likely to have lower crime, or at least fewer criminals residing there, than the adjacent but high crime neighborhood. In a related vein is the possible spill-over of crime from nearby areas. Two adjacent and similar neighborhoods may have different crime rates because the high crime neighborhood is surrounded on its other borders by high crime neighborhoods. Crime from nearby areas may, therefore, spill over and increase the level of crime. While there is little empirical evidence on this issue, it is hypothesized that the characteristics of boundaries may be as important as internal characteristics in distinguishing between adjacent high and low crime neighborhoods.

Objective physical, social, and boundary characteristics presumably have a direct effect on crime and an indirect effect, by promoting or inhibiting informal territorial control. This concept is comprised of several dimensions. The following discussion describes these dimensions and their hypothesized effect on neighborhood crime. A conceptual model is formulated, which delineates the interrelationships among the dimensions of territorial control, the linkages between these dimensions and objective neighborhood characteristics, and the direct and indirect effects of both on crime and reactions to crime.

#### B. Informal Territorial Control and Crime: A Conceptual Model

The basic premise of the model is that the effects of objective social and physical characteristics of neighborhoods on neighborhood crime are mediated by informal territorial control, and in addition may have direct effects. Territoriality refers to the maintenance of control over a given area by the inhabitants of that area. A territorially distinct neighborhood develops when the residents maintain a set of patterned interactions and share a sense of collective identity (Hunter, 1975). This shared identity and patterned interaction form the basis of what Suttles calls the defended neighborhood (1972). The defended neighborhood is a means of maintaining order, given the limitations of formal means of social control. Order is maintained through informal rules limiting individual movement and the segregation of groups that may conflict with each other.

While the concept of territoriality is clearly relevant to neighborhood crime, the elements that comprise this concept and their interrelationships are not well specified. The elements that we believe to be imbedded in the concept of territoriality are: territorial identity, social ties, social cohesion, and social control.

1. <u>Territorial identity</u>. We hypothesize that territorial identity and local social ties provide the foundation for neighborhood safety (Foley, 1952; Hunter, 1975; Keller, 1968; Suttles, 1972). Territorial identity refers to a shared understanding on the part of the residents of the boundaries of the neighborhood and the extent to which the neighborhood is viewed as a distinct social and spatial unit. Territorial distinctness is often expressed by a shared neighborhood name. There may, however, be several levels of identification (Fried and Gleicher, 1961; Jacobs, 1961). Residents of territorially distinct neighborhoods may identify most or all of the area as being "their

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neighborhood" in a general sense. However, specific types of social interaction, such as friendships, neighboring, shopping, and so on may be concentrated into a more narrowly circumscribed area. Such sub-areas may include the individual's block and several adjacent blocks. The sub-area may be defined by the location of everyday social interaction, while the larger area may be defined by political or service delivery jurisdictions, homogeneity of social or physical characteristics, clear physical boundaries, or historic tradition (Keller, 1968; Hallman, 1977). Furthermore, it may be that identification with a small area is more conducive to informal social control than identification solely with an area covering many blocks which may be officially designated as a neighborhood. Safe neighborhoods within generally high risk areas may be those that are segmented into small, manageable spheres of social control, while the adjacent unsafe areas may be composed of an undifferentiated plane. The notion of segmented space leading to effective social control is analogous to Suttles' (1968) concept of ordered segmentation in the social organization of some poor neighborhoods.

2. Local ties. We would argue that local social ties are also a necessary component of safe neighborhoods and are typically defined by the amount and intensity of neighboring, the presence of family and friends in the neighborhood, participation in local institutions, such as work, church, and school, involvement in local voluntary associations, and use of local facilities. Without these two dimensions - spatial identity and local ties - the informal social control of an area would appear to be unlikely. The first defines the area that residents feel they can safely venture into and conveniently surveil. The second provides the familiarity among residents that is necessary in order to distinguish between neighbors and strangers.

3. <u>Social cohesion</u>. It is hypothesized that social cohesion, both structural and affective, is a basic element of neighborhood safety. Cohesion, we suggest, consists of three underlying dimensions - information exchange, emotional attachment to the neighborhood, and shared norms and values.

Information exchange refers to the use of local contacts for information on a wide range of topics, including jobs, housing, neighborhood activities, neighborhood problems, and the location of safe and unsafe areas in and around the neighborhood.

Emotional attachment, the affective component of cohesion, is also an important element of territorial control. Simply knowing what goes on in a neighborhood is not sufficient to maintain safety. It is also necessary to care about what goes on, thus providing the motivation to actively surveil the neighborhood and take action if a crime or attempted crime is witnessed. Emotional attachment refers to a sense of commitment to the neighborhood. This definition distinguishes attachment from neighborhood satisfaction. Ahlbrandt and Cunningham (1979) found that neighborhood attachment and neighborhood satisfaction are independent dimensions. A person may be highly satisfied with his or her neighborhood yet have a low level of commitment to it. The problem with measuring satisfaction is that most respondents express positive feelings toward their neighborhoods (Keller, 1968; Gerson, et al., 1977). This may be because people prefer to appear positive about their lives to interviewers. In contrast, what we are interested in measuring is a sense of commitment to the neighborhood. Do residents feel the neighborhood is a real home to them? Do they plan on staying in the neighborhood? How would they feel if they had to move away from the neighborhood?

Shared characteristics, the third dimension of social cohesion, refers to the extent to which individuals feel that others in the neighborhood are similar to them in age, education, and income and have the same ideas about important aspects of life (e.g., childrearing, standards for home maintenance).

Social cohesion, in itself may act to deter crime generated from within the neighborhood. The sense of attachment should inhibit residents from victimizing other residents. But the main influence of social cohesion should be its effect on informal social control.

4. Informal social control. The relationship between social cohesion and social control has been a major theme in sociology since the work of Durkheim, Toennies, and Weber in the late 19th century, and Wirth's (1970) urban ethnographies in the 1930's. The thrust of the argument has been that the decline of locally based social cohesion in favor of metropolitan and even nationwide communities has led to the deterioration of local social control. This is a byproduct of the increased size and organizational scale of society and the advances in the technologies of transportation and communication that have allowed individuals to separate the location of work and recreation from the residential location (Craven and Wellman, 1974; Keller, 1968; Gerson, <u>et</u> <u>al</u>., 1977; Janowitz, 1967; Stein, 1960; Webber, 1970). While these changes hold true on a societal level, contemporary neighborhoods exist which do serve as a locus of social control (Gans, 1962; Suttles, 1968; Fried, 1963; Fried and Gleicher, 1961).

Informal social control is comprised of several dimensions: informal surveillance, movement governing rules, and direct intervention. The first refers to the casual but active observation of neighborhood streets that is engaged in by individuals during the course of daily activities. It includes recognizing and paying careful attention to strangers in the neighborhood and keeping an eye on neighbors' homes and property.

Movement governing rules, a second dimension of social control, reter to the avoidance of areas in or near the neighborhood or in the city as a whole that are perceived as unsafe. This may take the form of personal avoidance or rules governing the movement of one's children. It may also be specific to certain times of the day. Suttles (1972) defines the existence of these rules as one of the essential elements of the defended neighborhood. These rules require detailed knowledge of neighborhood spaces. He further states that

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those who are the most integrated into local information networks, i.e., mothers and children, are the most likely to be aware of and apply movement governing rules.

The third dimension of informal social control involves direct intervention. This may involve residents questioning both strangers and residents of the neighborhood about suspicious activities. It may also include chastening people for certain behavior and admonishing children. This form of direct social control should be particularly effective in conveying an image of a cohesive and well regulated neighborhood. It may also help to establish social norms for the area. Suttles (1972) suggests that this form of social control is most often fostered by mothers with young children and by children themselves.

5. <u>Territoriality and reactions to crime</u>. The expected effect of territoriality on subjective reactions to crime, such as fear of crime, is not clear-cut. On the one hand, it makes sense to expect that the greater the informal social control, the lower the fear of crime. If the neighborhood has a tradition of residents watching out for one another and knowing what areas to avoid, then people would not be expected to fear crime, at least within the local area. Studies have found that the more the individual feels a part of the neighborhood, the less the fear of crime (Baumer and Hunter, 1979; Yancey, 1971). On the other hand, neighborhoods whose residents are plugged into local information networks may exhibit more fear of crime than other neighborhoods because the residents are more aware of crime. Skogan and Maxfield (1980) found that conversations with friends and neighbors about crime are fear provoking, regardless of the objective levels of neighborhood crime.

A conceptual model appears in figure 1. It serves as an organizational framework for the study. The concepts contained in the model - physical conditions, social conditions, and territoriality - are compared between several pairs of demographically similar and physical adjacent high and low crime neighborhoods. In addition, selected linkages within the model are empirically examined.

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This section describes the selection of study neighborhoods, the secondary data used in the analysis of physical characteristics of high and low crime neighborhoods, the household survey conducted in the study neighborhoods in order to measure various dimensions of territoriality, and the organization of the data analysis.

## A. <u>Selection of Study Neighborhoods</u>

The study neighborhoods were selected in Atlanta, Georgia. Atlanta has several advantages for a study of this type. First, preliminary evidence indicated that relatively safe neighborhoods existed adjacent to high crime areas in Atlanta. A study of crime in Atlanta conducted by the Atlanta Police Department and the Urban Life Center of Georgia State University provided maps of the geographic distribution of each index crime in 1970 (Atlanta Regional Metropolitan Planning Commission, 1971). A number of neighborhoods were located which were low in most or all of the index crimes but appeared to be adjacent to high crime neighborhoods. The second advantage is that the Atlanta city government has a neighborhood based planning program. The City Charter requires sub-area planning and citizen involvement in this process. This required the delineation of approximately 150 neighborhoods. These neighborhoods were defined on the basis of homogeneity and natural boundaries. The benefits of officially designated neighborhoods include published information on their physical and social characteristics and neighborhood planning committees that may provide important insights into neighborhood conditions. Third, discussions with personnel in the City Planning Bureau and the Bureau of Police indicated that computerized data on land use, housing characteristics and reported crimes were available at the address level.

Study neighborhoods were selected in pairs. One member of each pair had a low rate of reported crime, and the other had a high rate relative to the first. The three criteria for selection, other than the difference in crime rates, were comparable racial composition, comparable economic status, and physical adjacency. It was important to control for racial and economic composition, because this would be an obvious explanation for neighborhood crime differences. Physical adjacency was also important, because we were interested in determining what prevented crime in the high crime area from spilling over into the low crime area. Pairs of neighborhoods were eliminated if one or the other member was predominantly industrial or commercial, an officially designated historic district, or dominated by publicly owned housing.

Additional controls other than race and economic status could have been introduced. However, once two or more of the obvious explanatory variables

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## III. RESEARCH METHODS

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were controlled, we wanted to allow other factors to vary. Two neighborhoods similar in racial and economic composition and located in the same area of the city would be expected to have similar crime rates. In fact, this was typically the case among the 150 neighborhoods examined. We were interested in discerning what differentiated neighborhoods that did not conform to the general pattern; that is, what accounted for the relatively low (or high) level of crime in a neighborhood which would be expected to have a higher (or lower) crime rate because of its social composition and location.

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The neighborhoods were selected, in part, by careful examination of a series of computer maps of reported crimes. Crimes were mapped by census blocks for the entire city.

Reported Part I crimes in Atlanta in 1978 were aggregated from individual addresses into census blocks.\* This was accomplished by attaching the geocodes from the 1980 DIME file to the crime file. The UNIMATCH program was utilized to attach census tracts, blocks, and mapping coordinates from the DIME file to address level crime records.\*\* Because of errors in address information, 17 percent of the crime addresses could not be matched to DIME file geocodes. Of the 57,315 Part I crimes in Atlanta, 47,589 (83 percent) were matched to DIME file geocodes. Eight major crimes -- murder, rape, robbery, assault, residential burglary, commercial burglary, larceny, and auto theft -- were summed into the approximately 5,000 blocks that comprise the City of Atlanta.

The most recent crime information available at the outset of the study was 1978.

\*\* The DIME file is a computerized file produced by the Census Bureau which contains for each block side in a metropolitan area the census tract, census block, beginning and ending address numbers, and mapping coordinates. UNIMATCH is an address matching program that is designed to match and attach address level geographic codes from one file, like the DIME file, to another address level file.

The next step was to merge the block level crime counts with the R.L. Polk <u>Profiles of Change</u> data for 1978.\*\*\* The Polk data set contains counts, by block, of households and commercial establishments. Unfortunately, block level population counts were not available. The 1970 census counts of population were too outdated to be appropriate. For this reason, crime rates were based on housing units. The crime rate was defined as the number of each index crime per 100 housing units. Counts of commercial establishments were used to calculate commercial burglary rates. This is not an ideal solution because the number of people per housing unit is likely to differ systematically in different areas of the city. It is, however, preferable to relying solely on raw frequencies as an indicator of the relative amount of crime. Since the neighborhood pairs that were eventually selected were similar in economic and racial characteristics, these differences were likely to be minimized.

A series of computer maps of crime frequencies and rates were generated. A separate map of frequencies and of rates was produced for each of the eight major crimes. The inner portion of Atlanta was mapped on a larger scale than the outer portion because of the greater density of blocks in the former. The mapping symbols were divided into five categories, representing the lowest 25th percentile of crime frequencies or rates, between the 25th percentile and the median, between the median and the 75th percentile, between the 75th and 95th percentiles, and above the 95th percentile.

The maps were examined in order to delineate groups of blocks low in crime that were adjacent to groups of blocks high in crime. High and low crime levels were defined both by the block's ranking on an ordinal scale based on percentiles and on its relative ranking compared to adjacent blocks. A mylar overlay showing neighborhood boundaries was used in examining the maps in order to see whether crime levels were at least roughly consistent with neighborhood boundaries and as a means of providing a spatial orientation to the block maps. The spatial pattern of crime frequencies and rates did, in fact, tend to follow neighborhood boundaries quite closely, that is, there appeared to be more variation in crime levels between than within neighborhoods.

The <u>Profiles of Change</u> is a survey conducted by the R.L. Polk Company of all households and commercial establishments in over 300 cities. The survey includes items similar to the U.S. Census, such as economic status, household composition, building vacancies, housing tenure, residential stability, and number of residential and commercial units. The major advantage of this data set is that it is the most current data available for population characteristics and housing counts. In addition, the information is available aggregated into census blocks on tape and aggregated into Atlanta's officially designated neighborhoods in published volumes. The two disadvantages are incomplete coverage of households due to nonresponse and the lack of information on race.

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Potential study neighborhoods were selected by locating pairs of adjacent neighborhoods with distinctly different crime levels. This is not to suggest that the low crime member of the pair was expected to have no crime, but that it was sufficiently lower in crime than an adjacent neighborhood so that the difference was clearly noticeable by visual inspection. This could have meant, for example, that the crime level in the blocks in the low crime member of the pair tended to fall between the first and the 25th percentile for a given crime, while the blocks in the high crime member tended to fall between the 75th and 95th percentiles. The comparison of crime levels between adjacent neighborhoods was made separately for the eight major crimes to insure that differences did not reflect only one or two crime types. Neighborhood land use maps were used in conjunction with the block level crime maps in order to eliminate from further consideration areas that were, for example, higher in crime than adjacent areas because they contained a major commercial center, or lower in crime because they were predominantly open land or a large industrial area.

This process resulted in a list of seven pairs of candidate neighborhoods. A profile of crime and socioeconomic characteristics was produced for each neighborhood. This profile contained:

- (1) a count of crimes in the eight major categories and total crimes.
- (2) number of crimes per block.
- (3) crime rates: crimes per 1,000 population for murder, rape, robbery, assault, larceny, auto theft, and total crimes; crimes per 100 households for residential burglary; crimes per 100 commercial establishments for commercial burglary (population, household, and business counts for neighborhoods were obtained from R.L. Polk Profiles of Change, 1977/78).
- (4) socioeconomic status of neighborhood residents: percent female headed households with children, percent professional and managerial household heads, percent vacancies, percent owner-occupied, percent jobless (obtained from R.L. Polk <u>Profiles of Change</u>, 1977/78).
- (5) racial composition: based on Atlanta Regional Commission's census tract level population estimates for 1978; tracts were matched as closely as possible to neighborhoods.

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Table 1 is a summary of the profile data for each candidate pair of neighborhoods. Crimes per capita, household, or business could not be calculated in several instances because the neighborhood boundaries used by Polk differed too radically from those used by the Atlanta City Planning



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lable I. Crime and Demographic Profile of Neighborhood Pairs Considered for Selection

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Neighborhood	Total reported crimes 1978	Total Blocks	Total reported crimes per block 1978	lotal population4/ 1978	Total reported crimes per 1,000 population 1978	% non-white 1978	% Female headed households with children 1978	% Profession managerial household heads 1978	al % Two canvass vacancies 1978	% owner occupied 1978	% jobless household heads 1978
City of Atlanta Dime matched <u>l</u> /	57,315 47,589	- 4,972	11.5 9.6	381,209	150.4 124.8	60.4	13.5	14.5	3.7	41.5	26.8
Morningside-Lenox Park (L) <u>2</u> /	361	87	4.2	7,309	49.4	0.7	3.6	28.5	1.4	65.9	17.6
Virginia Highland (H) <u>2</u> / Upper Lower	766 188 578	81 33 48	9.5 5.7 12.0	7,209 -	106.3	1.0	4.2	19.0 - -	2.6	39.9 - -	25.3
Pittsburgh (L) Mechanicsville (H)	368 455	95 79	3.9 5.8	3,951 4,497	93.1 101.2	94.1 98.7	15.4 28.8	4.0 3.2	7.6 5.9	35.1 10.5	31.4 39.3
Dixie Hills (L) Grove Park (H)	237 867	42 86	5.6 10.1	4,217 8,359	56.2 103.7	99.9 98.3	13.2 14.9	8.9 7.6	4.1 6.2	49.3 44.6	19.4 24.8
Peoplestown (L) Summerhill (H)	224 445	33 65	6.8 6.9	2,313 4,285	96.8 103.9	98.5 74.6	20.9 31.4	3.9 2.1	10.2 6.6	30.9 10.7	33.8 43.3
Peachtree Heights East (L) Garden Hills (H)	50 295	15 30	3.3 9.8	999 3,710	50.1 79.5	0.4 1.2	5.1 5.6	35.4 25.4	1.2	49.8 46.1	22.9 21.9
South Atlanta (L) <sup>37</sup> Lakewood Heights (F	/ 1) <sup>_3/188</sup> 1) <sup>_3/353</sup>	40 51	4.7 6.9	-	-	83.6 53,4	42.3 8.0	2.6 7.6	3.1 8.7	17.7 55.6	47.1 22.6
Thomasville (L)3/ Leila Valley (H)3/	54 69	20 7	2.7 9.9	-	- -	86.0 98.3	20.2 27.8	5.8 4.5	1.7 4.7	57.9 37.7	29.8 41.8

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<sup>1</sup>/This crime count represents the number of reported crimes for which the address could be matched to the geographical codes on the DIME file. It is lower than total reported crimes because some addresses could not be matched.

 $\frac{2}{L}$  (L) indicates the low crime member of the neighborhood pair. (H) indicates the high crime member of the pair.

<sup>3</sup>/The crime rate per 1,000 population could not be calculated for these neighborhoods because the data source from which the population data were drawn used a different set of boundaries for these neighborhoods than is currently in use in the city of Atlanta.

 $\frac{4}{Population}$  counts in 1978 were available on the neighborhood level, but not the block level.

 $\frac{57}{1000}$  Housing units that were vacant in two consecutive annual canvasses.

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SOURCES: Crime counts - tape of reported crimes in Atlanta in 1978, Bureau of Police; Population counts and economic indicators - R.L. Polk <u>Profiles of Change: Annual Review</u>, 1977-78; Race - tract level population estimates, Atlanta Regional Commission, 1978 (tracts that most closely approximated neighborhood boundaries were aggregated).

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Bureau and in this study. Values for these three variables were therefore unavailable in these instances.\*

Two pairs of neighborhoods were eliminated at the outset. Lakewood Heights and South Atlanta were deemed inappropriate, because the former had a higher percentage of whites and was of substantially higher economic status than the latter. (South Atlanta shows a low vacancy rate because of a large housing project to the west of the neighborhood. This project was included in the boundaries used by Polk.) In addition, the probable reason for Lakewood Heights' higher number of crimes per block is a large commercial district in its southwest corner. Leila Valley and Thomasville were also eliminated because of the lack of racial comparability. The remaining five pairs were sufficiently strong possibilities to warrant further investigation in a site visit made to Atlanta.

A three-day site visit was made by two members of the research team. Informal interviews were held with city planners who were working in the candidate neighborhoods, police zone commanders, and the staff of the SAFE project, a neighborhood crime prevention coordinating program. Most of this trip, however, was spent in the candidate neighborhoods, driving down virtually every block. This was extremely important, since secondary data often do not give as complete a view of a neighborhood as direct observation. Particular attention was paid to observing the comparability of housing type and land use between neighborhoods in a given pair.

Two of the five candidate pairs were rejected based on the information obtained in the site visit. Peachtree Heights East and Garden Hills were rejected, because the northern border of the latter is dominated by a large commercial area which directly adjoins one of the largest retail districts in Atlanta. This is likely to be the explanation for its relatively high crime rate. Peachtree Heights East, by comparison, is a small, almost entirely residential neighborhood. Summerhill and Peoplestown were also rejected. Considerable land in Summerhill has been cleared for a large stadium and adjacent parking lots. Large sections remain cleared but vacant. The disruption caused by the stadium seriously weakened the comparability of these two neighborhoods.

The three remaining pairs were Dixie Hills/Grove Park, Pittsburgh/ Mechanicsville, and Morningside-Lenox Park/Virginia-Highland. With one modification, these pairs became the study neighborhoods. Below is a description of each of the pairs.

1970 U.S. Census data could have been used, but it was felt that these data were too outdated to be useful.

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#### B. Characteristics of Study Neighborhoods

1. Dixie Hills and Grove Park. As can be seen from the summary table, both Dixie Hills and Grove Park are lower middle class black neighborhoods. These neighborhoods are approximately four miles west of the central business district. The four-lane collector street that is part of the northern border of Dixie Hills forms the southern border of Grove Park. (See Map 1.) The southern border of Dixie Hills is an expressway and railroad. Part of its western border is also an expressway. Its eastern border is a four-lane collector street. There is a 50-acre park in the center of the neighborhood. There are several small parks scattered throughout Grove Park and a 20-acre park near the neighborhood's northeast corner. Grove Park is bordered to the east by a 2-lane collector street, to the west by small neighborhood streets and to the north by a creek and surrounding wooded area. Streets in both neighborhoods tend to take the form of curving drives and cul-de-sacs.

Both neighborhoods have a somewhat suburban appearance, with most of the housing built within the last 30 years, according to the 1970 Census of Housing. Many of the single-family residences, particularly the newer ones, are surrounded by large, well kept yards. Each neighborhood, however, has at least one low income pocket. Most of the residential land in both neighborhoods is zoned for four to eight units per acre.

The economic indicators are approximately equal to the city average, although both neighborhoods are lower than the city average in percent professionals and managers and slightly higher than the city average in owner occupancy. An address level file of structures, known as the PLAN file,\* indicates that 96.6 percent of the residences in Grove Park are oneor two-family, compared to 96.5 percent in Dixie Hills. A slightly higher percentage in Dixie Hills are single family, 92.2 percent, relative to Grove Park, 85.2 percent. However, both neighborhoods have a higher percent of single-family residences than any of the other study neighborhoods. Neither neighborhood contains public housing. There is a small development of Section 236\*\* housing in Grove Park, which contained 32 apartment units, according to the Bureau of Planning's records.

The crime rate, as measured by crimes per block and crimes per 1,000 population is almost twice as high in Grove Park as in Dixie Hills. This is not due to a particularly high rate in one crime but is generally true for all major crimes. Rates of specific crimes are shown in table 2.

\* The PLAN file is described below.

Section 236 is a federal program providing interest reduction payments on mortgages on rental housing designed for occupancy by low-income families.

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## Table 2. Index Crimes in Study Neighborhoods

Reported Crimes, 1978	Lower Virginia Highland (High)	Upper Virginia Highland (Low)	Grove Park (High)	Dixie Hills (Low)	Mechanics- ville <u>1</u> / (High)	Pitts- burgh (Low)
Murder Number Per Block Per 100 Households	2 0.04 0.07	0 0.00 0.00	0 0.00 0.00	0 0.00 0.00	2 0.06 0.27	6 0.06 0.29
<u>Rape</u> Number Per Block Per 100 Households	7 0.15 0.23	1 0.03 0.07	12 0.14 0.34	4 0.10 0.24	3 0.09 0.41	10 0.11 0.48
<u>Robbery</u> Number Per Block Per 100 Households	41 0.85 1.33	10 0.30 0.72	74 0.86 2.11	9 0.21 0.54	14 0.42 1.92	26 0.27 1.26
<u>Assault</u> Number Per Block Per 100 Households	54 1.13 1.76	10 0.30 0.72	92 1.07 2.63	33 0.79 2.00	57 1.73 7.82	68 0.72 3.29
<u>Residential Burglar</u> Number Per Block Per 100 Households	⊻ 174 3.63 5.66	46 1.39 3.32	207 2.41 5.91	72 1.71 4.36	30 0.91 4.12	65 0.68 3.14
<u>Commercial Burglary</u> Number Per Block	2 30 0.63	16 0.48	65 0.76	22 0.52	17 0.52	51 0.54
<u>Larceny</u> Number Per Block Per 100 Households	209 4.35 6.79	87 2.64 6.27	365 4.24 10.42	81 1.93 4.90	50 1.52 6.86	111 1.17 5.37
Auto Theft Number Per Block Per 100 Households	61 1.27 1.98	18 0.55 1.30	52 0.60 1.48	16 0.38 0.97	5 0.15 0.69	31 0.58 1.50
<u>Total</u> Number Per Block Per 100 Households	578 12.02 5 18.79	188 5.70 13.55	867 10.08 24.74	237 5.64 14.34	178 5.39 24.42	368 3.87 17.80

The number of crimes per block in Grove Park is approximately equal to crimes per block in the entire city, but is lower than the number of crimes per 1,000 population in the city. In general, the number of crimes per 1,000 population is lower in the study neighborhoods than in the city. This is probably owing to the fact that the city total reflects the large number of crimes committed in the central business district, where relatively few people reside. In this study, high crime neighborhoods are those that have high crime rates relative to matched neighborhoods, not necessarily relative to the city average.

2. Pittsburgh and Mechanicsville. Pittsburgh and Mechanicsville are both low income black neighborhoods. Mechanicsville is just south of the central business district, separated from it by an expressway. Pittsburgh is directly south of Mechanicsville, and the two neighborhoods are separated by a railroad and industrial strip. (See Map 2.) Both neighborhoods are bounded by railroad lines, expressways, or major thoroughfares. The railroad lines are usually surrounded by an industrial strip. Each neighborhood has several small parks. There is, in addition, a nine-acre park at the northwest end of Mechanicsville and a 14-acre park on the east side of Pittsburgh. The street pattern throughout most of both neighborhoods forms a dense grid.

Both neighborhoods are below the city average on all economic indicators. They are characterized by small, detached, wood frame houses many of which are in very poor condition. Housing is fairly dense. Most residential land is zoned at 8 to 16 units per acre. There is no public housing in either neighborhood. Mechanicsville has a 180 unit development of Section 236 housing, and Pittsburgh has a 120-unit development of the same.

The economic indicators and on-site observation suggest that Pittsburgh is somewhat higher in economic status than Mechanicsville (e.g., Pittsburgh has a lower percent of female headed households with children and a higher percent of owner occupancy than Mechanicsville). The primary reason for this seems to be that Mechanicsville undergoes a shift in population and housing characteristics between its north and south halves. The housing in the southern half is comparable to that in Pittsburgh--small, wood frame houses. The PLAN file shows that this portion of Mechanicsville is 86.4 percent one-and two-family housing, compared to 73.1 percent in the northern section. Pittsburgh's housing is 96.3 percent one- and two-family. In addition, the 1970 Census of Housing shows that the housing in the blocks comprising the southern half was 16.0 percent owner-occupied and had a mean value of \$5,050 and a mean monthly rent of \$59, compared to the housing in the northern half, which was 9.4 percent owner-occupied and had a mean value of \$3,956 and a mean monthly rent of \$54. The northern half of Mechanicsville has a considerable amount of vacant land. Low-rise apartments are currently being built on some of this land. This will further increase the population and housing differences between the two halves of the neighborhood. Finally, the northwest end of Mechanicsville directly borders on a large public housing project. This could increase its crime rate.

 $\frac{1}{1}$ Includes only the part of the neighborhood below Georgia Avenue.

SOURCE: Crime Count - Tape of reported crimes in 1978, Atlanta Bureau of Police; Household Counts - Atlanta Bureau of Planning, PLAN file. -22-













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Because of these intra-neighborhood differences, the research team decided to use only the southern half of Mechanicsville. The appropriate dividing line appeared to be Georgia Avenue, a major east-west thoroughfare. Comparability between the two neighborhoods was maximized in this way.

To insure that the higher crime rate in Mechanicsville was not attributable to higher crime in the northern end, crimes per block were calculated for the southern half only.\* The result was a total of 5.4 crimes per block. Hence, crime in Mechanicsville remained substantially higher than in Pittsburgh. Once again, this is not a reflection of differences in a single crime type. Mechanicsville's crime rate is higher than Pittsburgh's in four out of the eight crime types (robbery, assault, residential burglary, larceny), approximately equal in three crime types (murder, rape, commercial burglary), and lower in auto theft. (See table 2.)

3. <u>Virginia-Highland</u>. The third pair of neighborhoods is Morningside-Lenox Park and Virginia-Highland. Both are white and middle to upper income. They are approximately three miles northeast of the central business district. The Polk data suggest that Morningside is higher in economic status than Virginia-Highland. However, the differences did not appear sufficiently great to have eliminated this pair at the outset. But on-site observation confirmed the differences. The housing in Morningside was obviously larger, more expensive, and more likely to be owner-occupied. Clearly, this neighborhood pair did not satisfy our criterion of comparable economic status.

This left the research team in a dilemma, because it was felt that the inclusion of only predominantly black pairs would weaken the study's generalizability. However, in examining the block level crime data, it became apparent that the southern end of Virginia-Highland had substantially more crime than the northern end. The line of demarcation seemed to be Virginia Avenue, a major east-west street. The average number of crimes per block in the northern end was 5.7, compared to 12.0 in the southern end. Local informed observers suggested that this difference was caused by Ponce de Leon Avenue, a major thoroughfare that forms the southern border of the neighborhood. They emphasized in particular a block long commercial strip that had the reputation as a meeting place for drug dealers and prostitutes. But the crime that may exist in this block was not reflected in our data, because it is on the south side of the neighborhood's southern border and therefore was not contained in the official neighborhood boundaries. In addition, when all the blocks along Ponce de Leon Avenue were eliminated. the number of crimes per block, 9.7, was still substantially higher than in the northern half of the neighborhood. Rates of all crimes were higher in the southern half than in the northern half.

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During this phase of the study, it was not possible to calculate crimes per population and household for the southern half of the neighborhood because the Polk counts of population and households are not available at the block level.

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The two halves of the neighborhood are roughly comparable in economic status, although the upper half is somewhat higher than the lower. According to the 1970 Census of Housing, the population in both halves is 95% or more white. The mean housing value is \$17,932 and the mean rent is \$102 in the northern end, compared to \$15,578 and \$98, respectively in the southern end. Ninety-five percent of the housing is one- and two-family in the northern end, compared to 80.4 percent in the southern end, according to PLAN file data. In general, the northern half of the neighborhood is characterized by small stone or brick detached homes that are 40 to 50 years old. A number of the homes have been upgraded by young, professional newcomers to the neighborhood. The southern half contains this type of housing along with a number of newer garden apartments. There is no publicly owned housing in either half of the neighborhood. Residential areas throughout most of the neighborhood are zoned at four to eight units per acre.

Both parts of the neighborhood are somewhat suburban in appearance. Most of the residential lots have small yards. The streets tend to be wide and curving, and there are a number of cul-de-sacs. The southern half also has streets that form a more typical urban grid. As mentioned above, the southern border of the lower half of the neighborhood is a major four-lane street. The eastern border of both is the city limit with a residential area on the suburban side. The western border of each is a railroad with an industrial strip. The northern border of the upper half is a small neighborhood street. The dividing line between the two halves, Virginia Avenue, is a major thoroughfare that is predominantly residential.

While the two halves are not as comparable as would be preferred, they seem to be sufficiently so to be worth including in the study. The case for using this neighborhood was strengthened by the fact that no other pair of adjacent white neighborhoods came close to meeting the criteria for selection.

Neighborhood Site Visits

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Two to three members of the research team made a three day site visit to each of the three neighborhood pairs. The purpose of these visits was two-fold: to conduct informal interviews with informed observers and to do a windshield survey of physical and land use characteristics.

The following people were interviewed in each neighborhood: the Neighborhood Planning Unit Chairperson,\* the president of the neighborhood organization, the Police Zone Commander, police on both the day and night shift, and local realtors. Although the topics varied somewhat according to the type of informant being interviewed, individuals were usually asked to describe: the socioeconomic characteristics of the neighborhood; changes,

Atlanta is divided into 24 Neighborhood Planning Units, each of which contains a half dozen or more neighborhoods. The six study neighborhoods are in three different NPU's.

if any, that the neighborhood had recently experienced; types, location, and level of crime in the neighborhood; who committed crime in the area, especially residents versus outsiders; effects of crime on the quality of neighborhood life; factors in the neighborhood that explain the high or low level of crime; how to deter crime in the neighborhood; and organized crime prevention activities. The purpose of these interviews was to further familiarize the research team with the study neighborhoods and to gain insight into the dynamics of neighborhood crime that might be useful in developing the survey instrument. The interviews were completed prior to finalizing the instrument.

The second task in the site visits was the windshield survey. Every facing block in each of the neighborhoods was included. The research team drove down each block, completing the form shown in figure 2. The purpose was to obtain information on physical characteristics that was not available from secondary sources but is viewed in the literature as relevant in the explanation of neighborhood crime. Most of the variables rated on the survey measure physical impediments to informal surveillance of the area-building set-backs, street lights, parking facilities, and visual obstructions.

#### D. Secondary Data Sources

The two major sources of secondary data are the address level reported crime file used in the neighborhood selection and the PLAN file. The file of reported index crimes is described above. The PLAN file is a computerized file maintained by the City of Atlanta's Planning Bureau that contains information on every parcel of land within the city limits. The file includes address, census tract, census block, neighborhood code number, land use code, floor area of structure, year of construction, number of residential units, number of stories, and assessment value. This file was used as the sampling frame for the household survey (see section E below). It was also used in the data analysis to measure a number of physical characteristics of parcels and blocks in the study neighborhoods. Other secondary data sources utilized in the analysis of physical characteristics include a detailed street map with streets coded by type (major, collector, local) and neighborhood profiles published by the Planning Bureau which contain information on the location of parks, schools, and other neighborhood facilities.

#### E. Household Survey in Study Neighborhoods

1. <u>The instrument</u>. The major focus of the instrument was the measurement of the various dimensions of territoriality - spatial identity, local ties, social cohesion, and informal social control. Other items included in the instrument concerned subjective reactions to crime (fear, avoidance, protection, etc.), assessment of the amount and kinds of neighborhood problems, victimization, and demographic characteristics. Most of the items were fixed choice, although there were a number of open-ended questions. (The instrument appears in appendix C.)\*

\*Appendices A and B are available on loan from the National Criminal Justice Reference Service, P.O. Box 6000, Rockville, MD 20850.

Irac	t	В	lock
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Buil	ding	Set-B	ack
	1.	Unif	orm
	2.	Mode	rately st
	3.	Seve	rely stag
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	2.	No	
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	On s	treet	
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	2,	No	
	Driv	eways	
	1.	Yes	
	2.	No	
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Neighborhood

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## Figure 2

#### WINDSHIELD SURVEY

/ Tract\_\_\_\_\_ Block\_\_\_

#### Land Use

1. Residential

- aggered
- gered

- Residential/Commercial
  Residential/Industrial
- 4. Commercial/Industrial
- 5. Commercial
- 6. Industrial

#### Visual Obstructions

- 1. Unobstructed
- 2. Partially obstructed
- 3. Mostly obstructed

Comments

eparate number for each side of block)

an 25 percent of one block face ent or more of one block face

2. Pre-Test. Ten pre-test interviews were conducted by two interviewers in two neighborhoods in Durham, North Carolina. The neighborhoods were lower to lower middle income and predominantly black and hence were similar to four of the six study neighborhoods. Both interviewers were well acquainted with the pre-test neighborhoods and had professional social science training. It was felt that pre-test interviewers of this type would provide high quality feedback. The results of the pre-test were very useful in detecting awkward or inappropriate wording, inadequate response choices, and the like. Discussions with the interviewers following the pre-test were also helpful in preparing the training manual for the field interviewers.

#### 3. Sample selection

a. Overview. The target population consisted of persons who reside in the six study neighborhoods. A sample of 100 responses from each neighborhood was sought.

The expected precision of percentages calculated from the sample are discussed below. Simple random sampling of households in neighborhoods is assumed for discussion purposes. The stratified design which was actually used should reduce the variance of most estimates.

The variance of the estimate of a percent, P, when simple random sampling is employed can be expressed as

V(P) = P(100 - P)/n

where

P = the true percent for the population studied;

P = the estimate of the percent based on the sample; and

n = the size of the simple random sample.

Standard errors of the estimate (square root of the variance) for selected values of the estimated percentage, P, and for selected sample sizes are shown in table 3. Note that if the sample size is 100 households and the actual percent is 50 percent, the estimate of that percent will have a standard error of 5.0 percent assuming simple random sampling or an equivalent (some effective sample size) design is employed. A smaller standard error results for P greater than or less than 50 percent.

Considering cost and noting that a standard error of 5 percent was acceptable, a sample size of 100 responses per neighborhood was desired. It was assumed that the response rate would be 80 percent and the vacancy rate 5 percent. Thus, a sample of 132 (100/.80 x .95) households per neighborhood was selected.

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<b>•</b> • •	· · · · · · · · · · · · · · · · · · ·	Est	imated Per	centage		
Sample size (effective sample size <sup>2/</sup> )	] or 99	2 or 98	5 or 95	10 or 90	25 or 75	50
50	1.4	2.0	3.1	4.2	6.1	7.1
100	1.0	1.4	2.2	3.0	4.3	5.0
200	0.7	1.0	1.5	2.1	3.1	3.5
400	0.5	0.7	1.1	1.5	2.2	2.5
600	0.4	0.6	0.9	1.2	1.8	2.0
900	0.3	0.5	0.7	1.0	1.4	1.7
1200	0.3	0.4	0.6	0.9	1.3	1.4
1500	0.3	0.4	0.6	0.8	1.1	1.3
2000	0.2	0.3	0.5	0.7	1.0	1.1
4000	0.2	0.2	0.3	0.5	0.7	0.8

 $\frac{1}{1}$  Tabled values are one standard error. For the purposes of constructing confidence intervals, the analyst must choose the appropriate multiple of the standard error; e.g., the estimated value plus or minus two standard errors produces approximate 95 percent confidence intervals.

 $\frac{2}{Tabled}$  values are based on simple random sampling (SRS). Alternate designs may be more or less efficient than simple random sampling. The effective sample size for an alternate design is defined as the SRS sample size that would yield the same variance and standard error of the estimate.

Table 3. Standard Errors of Estimating Percentages Assuming Simple Random Sampling-1/

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b. Sampling frame construction and stratification. The sampling frame for each neighborhood consisted of a list of residential properties located within the boundaries of the defined neighborhood. Only properties which were used for residential purposes were included in the frame. Properties for which any type of Federal or local funding had been provided were excluded both from the target population and from the sampling frame. The basic listing of properties was available in computer-accessible form (PLAN file) and contained the following information about each property:

(1) A unique identification code:

(2) A property use code; and

(3) Some indication of the number of housing units on the property.

A stratified single stage sample was drawn. The sampling units were individual housing units. Stratification variables included number of housing units and geography (ID code). Sampling rates and average size housing units are specified separately by neighborhoods in table 4.

c. Sample selection. Sample stratification was achieved by sorting the list of properties within a neighborhood by the number of housing units per property and by ID code. A zoned selection procedure developed by Chromy (1979) was utilized to select one housing unit from each of 132 equal-sized zones for each neighborhood list.

The selection procedure requires a random start and a closed circular listing to determine zone boundaries.\* Suppose a neighborhood contains N properties. A random start, K, between 1 and N is selected to identify the first element of zone 1. The list is then reordered to consist of initial elements K through N followed by the elements 1 through K-1.

To accommodate this feature of the sample selection procedure and allow zones to contain similar properties, the initial ordering of properties was modified by assigning a negative sign to the number of housing units per property if it is an odd number. As an example, if a neighborhood contained properties with 1, 2, 3, 4, and 5 housing units the ordering proceeded as follows:

(1) All properties with 5 housing units listed in geographic order;

(2) All properties with 3 housing units listed in geographic order;

Prior to construction of zone boundaries, all residential properties with 20 or more housing units were listed in the field and the housing unit count corrected where necessary. This helped to increase the accuracy of zone boundaries.

Table	4
Name	
Virginia-Highland Upper	
Virginia-Highland Lower	
Grove Park	
Dixie Hiils	
Mechanicsville	

Pittsburgh

Sample Size	Total Housing Units	Sampling Rate	Total Properties	Housing Units Per Residential Property
132	1,385	0.0953	1,015	1.36
132	3,041	0.0434	1,095	2.78
132	3,359	0.0393	1,802	1.86
132	1,562	0.0845	1,023	1.53
132	716	0.1844	327	2.19
132	1,997	0.0661	1,319	1.51

4. Sampling Rates for Six Study Neighbohoods

SOURCE: Atlanta Bureau of Planning, PLAN file.

- (3) All properties with 1 housing unit listed in geographic order;
- (4) All properties with 2 housing units listed in geographic order; and
- (5) All properties with 4 housing units listed in geographic order.

This procedure was designed to guarantee that the sample would be distributed across all geographic areas and across all property sizes (housing units per property).

The sample was identified by listing selected properties and noting the number of households to be selected per property. Households in selected properties were then enumerated and a simple random sample of the specified number of households was identified.\*

One respondent from each household was randomly selected. The interviewers obtained a listing of all permanent residents aged 18 or over. This information was obtained from any responsible individual in the household. The interviewer then selected through the use of a random number table the individual to be interviewed. This person answered questions of two types:

- (1) Objective information pertaining to the entire household;
- (2) Objective and opinion data pertaining to the respondent as an individual.

Technically, a weighting factor equal to the number of eligible respondents might have been used for the purposes of summarizing the individual data. These weighting factors would not have been equal within neighborhoods, since one, two, or more eligible respondents resided at each sample household. Use of equal weights instead of those based on the number of eligible respondents in the individual level analyses may have tended to overrepresent those persons residing in single-person households. However, it is unlikely that that use of this weighting factor would have substantially altered the results. There were no significant differencies in the mean household size of neighborhoods within pairs. In addition, the unweighted age and sex composition of each neighborhood were not significantly different from the age and sex composition weighted by household size. Given that these two variables are most likely to be affected by household size, it is unlikely that weighting other variables by this factor would alter the estimates.

All residential properties with two or more dwelling units were listed in the field in order to obtain apartment numbers. The required number of dwelling units was then randomly selected. 4. <u>Field work</u>. The field staff consisted of 21 interviewers and RTI's on-site field supervisor in Atlanta. Most of the interviewers had prior interviewing experience with RTI or other research organizations.

A two-day training session was conducted in Atlanta by the members of the research team and the field supervisor. The research team prepared a training manual in addition to using the standard RTI interviewer manual. The interviewers were given the survey instrument and training manuals to review several days prior to the training session. The first day of training was spent explaining the purpose of the project, reviewing the instrument, and giving special training for the open-ended questions. For example, the diagrams published by the FBI illustrating the types of behavior that consti-

tute each Part I crime were used to familiarize the interviewers with crime categories. Following the end of the first day, each interviewer conducted one practice interview (not with a sampled household). During the second day, problems encountered in the practice interview were discussed. In addition, each interviewer conducted at least one mock interview with another interviewer or a member of the research team. The "respondent" noted and discussed problems with the "interviewer" when the mock interview was completed. Interviewers who appeared to have particular problems conducted two or more mock interviews. The interviewers then received their assignments and began the field work. The interviewers were assigned to study neighborhoods by race. Males were used more heavily than females in the two low income neighborhoods, since these areas were more visually threatening than the other study neighborhoods.

The field supervisor reviewed the first two interviews immediately after completion with each interviewer in order to address problems or misunderstandings. The interviewers were instructed to edit their own work in the field and to report to the field supervisor on a weekly basis or more often if necessary. The research team also received weekly reports from the field supervisor.

Several measures were taken at the outset of the field work to assure potential respondents of the legitimacy of the study and the interviewers. Lead letters were sent to every household in the sample. The Chief of Field Operations of the Atlanta Police Bureau and the commanders of each police zone were notified of the study at the outset of the field work. In addition, the president of one of the study neighborhood associations, who was interviewed in an earlier phase of the study, placed an announcement in the neighborhood newsletter.

It was originally planned that the field work would be completed within six weeks. However, several problems caused the field work to be extended by four weeks. These problems are discussed below.

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5. <u>Response rate</u>. A total of 801 residential units were contacted. The original sample contained 792 units (132 in each neighborhood). An additional nine units were contacted because of apartments located in what were originally believed to be single-unit dwellings. When this occurred, an attempt was made to obtain interviews from all additional units.

The major problems encountered in the field were not outright refusals but rather a higher than expected vacancy rate and a large number of households where no one was found at home even after repeated contacts. Out of the 801 households contacted, there were a total of 85 outright refusais, or 10.6 percent. This is only half of the expected rate of 20 percent. However, there were 124 vacancies, or 15.5 percent. This is over triple the expected rate of five percent. This reduced to 677 the number of households from which to obtain the desired sample of 600. An additional problem was the difficulty in finding people at home. The interviewers were originally instructed to make three attempts to contact screening respondents. However, it became apparent shortly after the field work began that this rule should be relaxed. Interviewers were therefore instructed to make additional contacts when necessary. As many as 10 to 12 attempts were made in some cases without finding a screening respondent at home. There were a total of 53 households where no one could be found at home for screening and an additional 16 that were not at home after at least two interview appointments were made. When these 69 cases were subtracted from the 677 occupied units, there remained 608 households that were candidates for completed interviews. A completed sample size of 600, or 100 per neighborhood, was therefore unrealistic. especially within existing time and budget constraints.

It was decided to aim for a minimum of 80 completed interviews per neighborhood. Significance tables were consulted to see if there were substantial losses in precision in a sample of 80 versus 100 in estimating confidence intervals around proportions, testing for significant differences between two proportions, and testing the significance of R. The losses in all cases were extremely small, and it did not seem worth the extra expense of drawing a supplementary sample or continuing with additional follow-up efforts for difficult to obtain interviews once the goal of 80 was reached.

Table 5 shows for each of the six study neighborhoods the number of completed interviews, the response rate, and the rate of the actual to the desired number of interviews. The response rate varied from 66.7 percent to 87.0 percent, with an overall response rate of 77.3 percent. This came close to the response rate of 80 percent that was assumed in selecting the sample. Four of the six neighborhoods approached or exceeded this rate. However, the interviewers had serious problems in both Upper and Lower Virginia-Highland in finding people at home after three or more attempts. These neighborhoods also had a higher than average refusal rate (19.3 percent in the former and 14.5 percent in the latter). The rate of actual to desired completed interviews varied from 80.0 percent to 93.0 percent, with a total of 87.2 percent. This figure reflects the difficulties experienced in the

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			Table 5. <u>Interview Response Rate</u>						
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	
		lotal Residential Units Contacted	Total Occupied Units	Completed Interviews	Non- Response	Response Rate (3)/(2)	Desired Number of Completed Interviews	Actual/ Desired (3)/(6)	
	Virginia-Highland Upper	1351/	120	80	40	66.7	100	80.0	
	Virginia-Highland Lower	1381/	118	83	35	70.3	100	83.0	
J.	Grove Park	132	107	87	20	81.3	100	87.0	
	Dixie Hilts	132	120	93	27	77.5	100	93.0	
	Pittsburgh	132	112	93	19	83.0	100	93.0	
1	lechanicsville	132	100	87	13	87.0	100	87.0	
-	lotal	801	677	523	154	77.3	600	87.2	

1/There are a greater number of residential units in Upper and Lower Virginia-Highland than in the other neighborhoods because of apartments discovered at addresses that were believed to be single-unit dwellings. In these cases an attempt was made to obtain interviews from all dwelling units at the address.



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two Virginia-Highland neighborhoods and the higher than expected vacancy rate. High vacancies were especially problematic in Grove Park and Mechanicsville. However, neighborhoods with a high vacancy rate also tended to have a high response rate and the converse, so that one problem offset the other. Because of this, a respectably high rate of actual to desired interviews was achieved.

No primary data were collected for non-respondents. However, because the sample was drawn from the PLAN file, there was information available on the housing characteristics of non-respondents. Comparisons were made between respondents and non-respondents to ascertain whether there were systematic differences. Comparison variables included number of dwelling units in the structure, number of stories, mean assessed value of single-family residences, and mean floor area of single-family residences. These are very rough proxies of the economic status of sampled households. The results in table 6 indicate that there are no significant differences between respondents and non-respondents in any of the available housing characteristics.

6. Editing and coding. The instruments were processed on a flow basis as they came back from the field. Editing and coding specifications were developed and a codebook was written. The editors and coders were supervised by a member of the research team. Every questionnaire was checked by this supervisor at the outset of editing and coding, and every fifth was checked after the editors and coders had several days of experience. An initial set of codes was developed for open-ended questions after about half of the interviews were back from the field. These codes were updated as necessary. In order to have an extra check on the quality of the field work as it progressed, the editors maintained a log of the numbers and types of errors made and the length of each interview for every interviewer. This was used to inform the field supervisor of interviewers who appeared to be having particular problems in administering the instrument.

Following the editing and coding, the instruments were keypunched with 100 percent verification.

#### F. Organization of Data Analysis

The analysis was composed of three parts: (1) a series of significance tests of differences in physical characteristics between neighborhoods within the three matched pairs; (2) a series of significance tests of neighborhood differences in dimensions of territoriality; and (3) a multivariate analysis of subjective reactions to crime. The significance tests involved the concepts included in the model of neighborhood crime control discussed earlier. Physical characteristics were measured by both parcel level and block level data obtained from secondary sources. Measures of dimensions of territoriality and reactions to crime were based on the household survey.

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Num	per of Residentia	l Units Per Structure	Number of	Number of Stories in Residential Units			
Units	Respondents (%)	Non-Respondents (%)	Stories	Respondents (%)	Non-Respondent (%)		
· ]	45.7	47.9	1	62.7	65.1		
2-3	23.7	22.6	2	34.2	31.5		
4-9	7.8	8.2	3	2.9	3.4		
10+	22.9	21.2	4	0.2	0.0		
	100.0	100.0		100.0	100.0		
Total	523	146	Total	523	146		
:	$\chi^2 = 0.624$	NS		$\chi^2 = 0.748$	NS		
	Mean Assessed Single-Fami	d Property Value - ily Residences		Mean Floor Area - Single Family Residences			
	Mean	Standard Error		Mean St	andard Error		
Respondent	\$5,682	\$224	Respondents	1,507 ft.	55.9		
Non-responden	6,333	348	Non-respondents	1,617	92.6		

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Table 6. Housing Characteristics of Respondents and Non-Respondents

SOURCE: Household Survey; Housing Characteristics - Atlanta Bureau of Planning, PLAN file.

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## IV. PHYSICAL CHARACTERISTICS OF HIGH AND LOW CRIME NEIGHBORHOODS

The analysis of the entire conceptual model was precluded by the limitation in resources. The significance tests of differences between matched neighborhoods were regarded as the most critical phase of the analysis, since they directly addressed the question of what physical characteristics and social processes differentiate similar and adjacent high and low crime neighborhoods. All of the concepts in the model were included in the series of significance tests, but not all of the hypothesized linkages between concepts were directly tested.

One set of linkages in the model was examained. This analysis focused on the prediction of subjective reactions to crime. These reactions include assessment of the amount of crime in the neighborhood, an index of worry about specific types of neighborhood crime, an index of fear of potential threat in the neighborhood, behavior directed at avoiding crime, and behavior directed at protecting one's home and family from crime. The decision was made to concentrate on this part of the model in the analysis because of its relevance to neighborhood crime control policy. Studies have found that fear and behavioral reactions to crime do not always correspond to the risk of victimization (Erskine, 1974; Hindelang, 1974) or to levels of crime in the neighborhood (Furstenberg, 1971; Wilson, 1976). Much of the analysis in this study concerns the factors that differentiate high and low crime neighborhoods. But it is a matter of considerable interest to see whether reactions to crime are consistent with neighborhood crime, and if not, what other factors explain fear and crime related behavior. The effects on reactions to crime of several dimensions of territoriality, physical characteristics of blocks in which respondents reside, and objective crime measures were tested. Several models were compared for their ability to predict crime reactions.

The defensible space approach to urban crime suggests that the opportunities for crime are increased when the physical features of neighborhoods discourage their privacy and insulation. The argument is that certain types of land use and streets attract more potential victims and offenders into the neighborhood than do other types and destroy the ability of residents to distinguish between "insiders" and "outsiders." The result is that opportunistic crimes such as robbery, burglary, larceny, and auto theft will be more likely to occur.

This analysis compares the type and distribution of land use, housing type, street type, and characteristics of neighborhood boundaries between matched, adjacent high and low crime neighborhoods.

Α. Land Use, Housing Type, and Street Type

Table 7 indicates that there are significant differences in land use between high and low crime neighborhoods.\* Specifically, residential properties are more prevalent in low crime than in high crime neighborhoods and vacant land is less prevalent in low crime than in high crime areas. The lower the economic status of the neighborhood pairs, the lower the proportion of residential land use and the higher the proportion of vacant land. This is consistent with the generally more deteriorated appearance of the lower income neighborhoods, particularly Mechanicsville and Pittsburgh. However, within matched pairs, land use varies by neighborhood crime level. It should be noted that one reason for the highly significant differences is the large number of cases. Land use differences in the Virginia-Highland pair, while statistically significant, are not really substantively significant. In both neighborhoods, almost 90 percent of all parcels were residential. with a slightly higher percentage in the low crime neighborhood. In general, though, proportions of residential and vacant properties do distinguish between high and low crime neighborhoods in the black pairs, but are only marginally important in the white pair. There was little difference between matched neighborhoods in the percent of properties with commercial, manufacturing, park, or other land uses.

Differences in the number of housing units per structure are highly significant among all three neighborhood pairs. It has been suggested (Boggs, 1965; Reppetto, 1974) that residence in a single-family dwelling encourages more of a proprietary, protective attitude toward surrounding areas than residence in an apartment. The evidence indicates that low crime neighborhoods

be significant.

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In this and subsequent analyses, statistical significance is defined at the .05 level or above. Otherwise, observed differences are not considered to

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	Lower Virginia Highland (High) (%)	Upper Virginia Highland (Low) (%)	Grove Park (High) (%)	Dixie Hills (Low) (%)	Mechanicsville (High) (%)	Pittsburg (Low) (%)
Land Use <sup>1/</sup>	:	:			-	
Residential Other Residential <sup>2/</sup> Commercial <sup>2/</sup> Manufactyring Cultural <sup>4/</sup> Parks and Recreation Vacant Land Miscellaneous Total Properties	86.5 0.4 4.3 0.2 0.2 0.0 7.7 0.7 100.0 1,266	89.8 0.0 2.0 0.2 0.0 0.3 7.4 0.4 100.0 1,129	79.1 0.1 4.1 0.0 0.2 15.9 0.5 100.0 2,347	83.7 0.1 1.9 0.0 0.2 12.1 2.1 100.0 1,224	51.7 1.1 5.5 1.7 0.0 0.6 38.1 1.3 100.0 633 2	72.5 0.05 5.7 0.6 0.1 0.3 19.1 1.7 100.0 1,819
	$\chi^2 = 6.0$	p < .05	$\chi^2 = 11.0$	p < .01	$\chi^2 = 93$	.0 р с.0
Housing Units Per Structure				•		
One Two-Three Four-Nine Ten or More	59.4 24.8 7.4 8.4	75.4 22.2 2.1 0.4	85.2 12.3 1.4 1.1	92.5 4.5 1.6 1.5	54.4 34.9 7.0 3.7	70.6 27.2 1.4 0.7
	100.0	100.0	100.0	100.0	100.0	100.0
Total Residential Properties	1,095 $x^2 = 127.5$	1,014 p < .01	1,856 $x^2 = 47.52$	1,024 p ,01	327 $x^2 = 66.3$	1,318 p .01

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Table 7. Land Use and Housing Characteristics of Study Neighborhoods

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 $\frac{1}{Land}$  use categories were collapsed into residential and nonresidential in the calculation of  $\chi^2$  values. This was done because the large number 2 of cells with an expected value of less than 5 when the detailed categories are used may make the  $\chi^2$  test invalid.

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 $\frac{2}{1}$ Includes group quarters, residential hotels, mobile homes.

 $\frac{3}{1}$  Inclues wholesale trade, retail trade, and services.

 $\frac{4}{1}$ Includes libraries, museums, zoos, auditoriums, stadiums, movie theaters.

SOURCE: Atlanta Bureau of Planning, PLAN File.

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have significantly more single-family dwellings than high crime neighborhoods.\* The proportions vary from 70.6 percent of all residential properties in Pittsburgh to 92.5 percent in Dixie Hills. Unlike land use patterns, the number of housing units per structure does not seem to vary by income or racial composition of the neighborhood.

Table 8 shows the distribution of street type and commercial and residential land use among blocks in the study neighborhoods. Street type was defined as major thoroughfares - four or six lane major arteries - or small neighborhood streets - streets that were neither major thoroughfares nor collector streets. Presence or absence of a particular street type in a block was determined by whether that type formed at least one boundary of the block. The results indicate that low crime neighborhoods tend to have fewer major streets and more small, neighborhood streets than high crime neighborhoods. The only pair for which these differences are not significant is Upper and Lower Virginia-Highland. However, while the differences are not significant, they are in the expected direction. The relatively small number of blocks in these two neighborhocds increases the sampling error and therefore decreases the likelihood of attaining significance. Nevertheless, 41.7 percent of the blocks in Lower Virginia-Highland contain a major thoroughfare compared to 27.3 percent in Upper Virginia-Highland; 14.6 percent of the blocks in the former contain a small street, compared to 27.3 percent in the latter. Thus, the evidence suggests that high crime neighborhoods are more likely to contain what Gardiner (1978) refers to as major "movement generators." In some cases, as in Grove Park, the major artery cuts through the center of the neighborhood. In other cases, these streets form neighborhood boundaries. In contrast, low crime neighborhoods are more likely to have small one-way and two-lane neighborhood streets.

It was mentioned above that low crime neighborhoods have a greater proportion of residential properties than high crime neighborhoods. However, as important as the amount of residential land use is its distribution within the neighborhood. It is expected that blocks in low crime neighborhoods will be more homogeneously residential than blocks in high crime neighborhoods. The evidence supports this expectation. Residential distribution varies significantly between all three neighborhood pairs. Almost half of all blocks in Upper Virginia-Highland are 95 percent or more residential, compared to slightly more than one-quarter in Lower Virginia-Highland. Similarly, 40.5 percent of

Single-family residence is a rough indication of home ownership. The household survey found that 45.7 percent of all respondents resided in singlefamily dwellings and that 40 percent of respondents were home owners. This suggests that few people live in rented single-family dwellings. The only neighborhood that had a substantial difference between single-family residence and home ownership was Pittsburgh. In this case, 45.2 percent lived in a single-family residence but only 31 percent were home owners. In the remaining neighborhoods the two percentages were roughly equal.

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 $\overline{}$ -Table 8. Distribution of Land Use and Street Types of Blocks in Study Neighborhoods Lower Virginia Upper Virginia Grove Dixie Highland (High) Mechanicsville Pittsburgh Highland Park Hills (Low) (High) (Low) (High) (Low) Р P р Ρ Р (St. Error) (St. Error) (St. Error) (St. Error) (St. Error) (St. Error) Street Characteristics 1/ % of Blocks with Major Thoroughfare 27.3 (7.873) 66.7 (8.333) 31.6 p • .01 (4.794) 41.7 (7.191) 2.4 (2.381) p < .01 29.1 NS (4.925) 27.3 (7.873) 29.1 (4.925) 14.6 (5.148) 24.2 (7.576) % of Small Blocks with 64.3 p < .01 44.2 p < .05 NS Neighborhood Street (7.483) (5.122) Iotal Blocks .95 48 86 42 33 33 Distribution of Listribution of <u>2</u>/ <u>5</u> <u>Commercial Land Use</u> 1 0-4% of Block is <u>Commercial</u> (%) (%) (%) (%) (%) (%) Commercial 72.9 93.9 73.3 81.0 66.7 63.2 5-9% of Block is Commercial 10-24% of Block is 4.2 0.0 14.0 11.9 9.1 17.9 15.2 8.4 Commercial 12.5 0.0 9.3 7.1 25-49% of Block is 9.1 5.3 Commercial 8.3 6.1 2.3 0.0 50-100% of Block is Commercial 2.1 0.0 1.2 0.0 0.0 5.3 100.0 100.0 100.0 100.0 100.0 100.0 3.3 95 lotal Blocks 48 33 86 42  $\chi^2 = 0.0$  $\chi^2 = 5.7$  $\chi^2 = 1.0$ NS NS p · .05 4. 1.85 ÷, 5 and the state · , è .



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### Table 8. (Continued)

	Lower Virginia Highland (High)	Upper Virginia Highland (Low)	Grove Park (High)	Dixie Hills (Low)	Mechar (	nicsville High)	Pittsburgh (Low)
	(%)	(%)	(%)	(%)		(%)	( <sup>n</sup> n)
Residential Composition of Neighborhood Blocks							
0-49% of Block is Residential 50-74% of Block is	12.5	9.1	11.6	4.8	48.5	22.1	
Residential 75-99% of Block is	12.5	9.1	27.9	19.1	39.4	23.2	
Residential	25.0	18.2	29.1	28.6	9,1	43.2	
Residential 95-100% of Block is	22.9	15.2	14.0	7.2	0.0	5.3	
Residential	27.1	48.5	17.4	40.5	3.0	6.3	
	100.0	100.0	100.0	100.0	100.0	100.0	
Total Blocks	48	33	86	42	33	95	
	$\chi^2 = 3.9$	p < .05	$\chi^2 = 8.0$	p < .01	$x^2 = 8.3$	р.0	L

 $\frac{1}{2}$  One-tailed rather than two-tailed t-tests of significance were used, since directionality in proportionate differences was hypothesized.

 $2^{\prime}$  Commercial distribution categories were collapsed into less than 5% and 5% and over in the calculation of  $\chi^{\prime}$  values. This was done because the large number of cells with an expected value of less than 5 when the detailed categories are used may make the  $\chi^{\prime}$  test invalid.

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<sup>37</sup>Residential composition categories were collapsed into less than 95% and 95% and over in Upper/Lower Virginia-Highland and Grove Park/Dixie Hills and less than 50% and 50% and over in Mechanicsville/Pittsburgh in the calculation of  $\chi^2$ . See note 2.

SOURCE: Street Type - Atlanta Bureau of Planning, Major Thoroughfare Plan Map; Land Use - Atlanta Bureau of Planning, PLAN File.

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the blocks in Dixie Hills are 95 percent or more residential, compared to 17.4 percent in Grove Park. Land use is more heterogeneous in the low income black neighborhoods. The proportion of residential properties is lower in these neighborhoods, and land use is less homogeneous within blocks than in the other neighborhoods. However, the blocks in the low crime member of this pair have significantly more residential land use than do blocks in the high crime member. Slightly more than half of the blocks in Pittsburgh are 75 percent or more residential, compared to 12.1 percent of the blocks in Mechanicsville. Almost half of the blocks in Pittsburgh. Thus, the data indicate that land use is both more homogeneous and more dominated by residential dwellings than is land use in high crime neighborhoods.

The findings for the distribution of commercial land use among blocks are not as clear-cut. Commercial property comprised a very small proportion of all properties in the study neighborhoods. Table 8 shows that few blocks are 50 percent or more commercial and most are less than five percent commercial. Virginia-Highland is the only pair with significant differences in the distribution of commercial land use. Over 90 percent of the blocks in the low crime member of the pair are less than five percent commercial, compared to approximately 70 percent in the high crime member. There are no significant differ ences in the black pairs. Blocks in Grove Park have somewhat more commercial activity than blocks in Dixie Hills, but the differences are not significant. In both cases, approximately three-quarters of all blocks are less than five percent commercial. The distribution of commercial land use is almost identical in the Mechanicsville/Pittsburgh pair. Two-thirds of the blocks in both neighborhoods are less than five percent commercial. While street type and residential land use differ systematically between low and high crime neighbohoods, commercial land generally does not.

## B. Boundary Characteristics

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The characteristics of neighborhood boundaries may be as important as their internal features in distinguishing between high and low crime areas. Depending on their characteristics, boundaries may inhibit potential offenders from entering the neighborhood or may encourage them to do so. Railroad lines and expressways may effectively shield the neighborhood from outsiders, while commercial development or major thoroughfares are likely to attract them. Boundaries composed of small neighborhood streets might also provide this shielding function.

Crime rates in two adjacent and similar neighborhoods may also be affected by the characteristics of neighborhoods on their other borders. One of the neighborhoods may have a substantially higher crime rate than the other because of the spill over of crime from areas on its other borders. Neighborhood crime rates may also be increased by the existence of low income, transient neighborhoods in surrounding areas. Such areas would be expected to have either relatively high crime rates or more criminals residing there who may victimize residents of nearby areas.

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The characteristics of both surrounding neighborhoods and boundary blocks in the study neighborhoods are examined in this section. Boundary characteristics that are examined include street type, commercial development, whether the boundary street contains a railroad or expressway, and crime rate. These characteristics are shown in tables 9 and 10. The crime rates and socioeconomic characteristics of adjacent neighborhoods are shown in tables 11 and 12.\*

Boundaries in high crime neighborhoods are more likely to be major thoroughfares than in low crime neighborhoods. For example, Lower Virginia-Highland is bordered on three out of four sides by major streets; only the southern border of Upper Virginia-Highland is a major street. In two out of the three pairs, boundaries in high crime neighborhoods have a higher percentage of commercial development. Two out of the three low crime neighborhoods have a higher percentage of railroads as boundaries than the matched high crime neighborhoods. The railroad lines in these neighborhoods are often surrounded by small industrial concentrations. The entire southern border of Dixie Hills (low crime), which is its longest border, is a railroad line, accompanied over most of its distance by an expressway. There is no such line of demarcation on any of Grove Park's borders. Similarly, two out of three of Pittsburgh's (low crime) borders are railroads, surrounded by a wide industrial strip. The north end of the neighborhood is industrial as well. In contrast, the only boundary in Mechanicsville (high crime) that contains a railroad is its common border with Pittsburgh. The results for expressways are not clear-cut. There are no expressways on the borders of either Virginia-Highland neighborhood, a slightly higher proportion of the borders of Mechanicsville (high crime) than of Pittsburgh (low crime) contain an expressway, and a higher proportion in Dixie Hills (low crime) than in Grove Park (high crime) contain an expressway.

Relatively few boundaries in any of the neighborhoods were small streets. This is a function of the way in which the City's Planning Bureau in conjunction with neighborhood planning boards defined boundaries. To some extent, neighborhood boundaries are an artifact created by city agencies. Therefore, major streets, railroads, and other prominant lines of demarcation tend to be used as borders. However, designated boundaries in Atlanta's neighborhoods are not completely artificial, since neighborhood planning boards which are composed of residents assist the city in defining borders.

The evidence suggests that neighborhood boundaries in low crime neighborhoods tend to have less commercial land use, to contain a railroad line, and not to contain a major thoroughfare. Expressways as boundaries did not vary in any systematic way. It appears that boundaries in low crime neighborhoods present fewer opportunities for access to outsiders and therefore have fewer potential offenders and victims entering the area. Boundaries in high crime neighborhoods are far more permeable in the sense that they contain more

Significance tests were not performed on these data because of the small number of boundary streets and adjacent neighborhoods.

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			Lower Virginia Highland (High) (%)	Upper Virginia Highland (Low) (%)		Grove Park (High) (%)	Dixie Hills (Low) (%)	Mechanicsville (High) (%)	Pittsburgh (Low) (%)
	Characteristics of Neighborhood Boundaries				I				
	% with Major Thorough- fare % with Small Neighbor-		95.0	50.0		22.2	5.6	68.8	52.6
	hood Street % with Expressway % with Railroad % with 10% or More		0.0 0.0 20.0	44.4 0.0 16.7		25.9 0.0 0.0	5.6 38.9 50.0	0.0 25.0 25.0	0.0 15.8 57.9
-49	Commercial Land Use		25.0	11.1		18.5	11.1	37.5	47.4
ţ	Total Boundary Blocks	۰.	20	18		27	18	16	19

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Table 9. Characteristics of Boundaries of Study Neighborhoods

SOURCE: Street Type - Atlanta Bureau of Planning, Major Incroughfare Plan Map; Land Use -Atlanta Bureau of Planning, PLAN File.



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movement generators (major streets) and use generators (commercial properties) than low crime neighborhoods. Therefore, they are less effective in insulating the neighborhood from outsiders than boundaries in low crime neighborhoods. While insulation from outsiders may do relatively little to reduce crimes like murder and assault, where the victim and offender are often acquainted, it may be effective in decreasing opportunistic crimes such as robbery, burglary, and auto theft.

It may be argued that the concentration of both major arteries and commercial activity at the boundaries of high crime neighborhoods accounts for the differences in crime rates between neighborhoods in each of the pairs. That is, when commercial crimes occurring at the boundaries are subtracted from the crime rate for the entire neighborhood, there may be no difference in crimes between matched neighborhoods. This hypothesis was examined by categorizing the number of crimes per block for each of the eight major offenses according to whether they occurred in a boundary or an interior block. The results appear in Table 10.

In general, there is little evidence to support the argument that crime differences between matched neighborhoods are attributable to crime differences at the boundaries. In only one pair, Grove Park/Dixie Hills, are crime differences between neighborhoods attributable to the boundary of the high crime neighborhood; the crime rate is roughly equal in the interior blocks of the two neighborhoods. This is primarily a reflection of the very high rate of larcenv in the border blocks of Grove Park. In Upper and Lower Virginia-Highland, the crime differences between the two neighborhoods are greater in interior blocks than in boundary blocks. This is especially true for robbery, residential burglary, commercial burglary, and larceny. The rate for most crimes in the high crime member of this pair is roughly equal at the border and in the interior. In the low crime member, the crime rate is substantially higher in border than in interior blocks, although crime at the border is lower than in the high crime neighborhood. The situation is reversed in Mechanicsville/ Pittsburgh. In this case, the difference in the crime rate between the high and low crime neighborhoods is attributable to differences between the interior blocks of the two members of the pair. The border blocks of the low crime member actually have a higher crime rate than do the border and interior blocks in the high crime member, due primarily to a high rate of larceny. The remainder of the neighborhood has a substantially lower rate of larceny and other crimes as well. These data indicate that while land use and street types differ systematically between the boundary blocks of high and low crime neighborhoods differences in crime rates are not a function of an especially high crime rate at the boundary of the high crime neighborhood.

The crime rate and socioeconomic characteristics of adjacent neighborhoods are shown in Table 11 and 12, respectively. Data for each neighborhood sharing a common border with the study neighborhood (with the exception of the matched neighborhood) were aggregated.

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	Lower Virginia Highland (High)	Upper Virginia Highland (Low)	Grove Park (High)	Dixie Hills (Low)	Mechanics- ville (High)	Pittsburgh (Low)
Murder Boundary Interior	0.09 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.12	0.00 0.08
Rape Boundary Interior	0.26 0.04	0.06 0.00	0.41 0.02	0.17 0.04	0.00 0.18	0.16 0.09
Robbery Boundary Interior	0.91 0.80	0.50 0.07	1.56 0.54	0.22 0.21	0.25 0.59	0.42 0.18
Assault Boundary Interior	1.74 0.56	0.44 0.13	2.11 0.59	1.11 0.54	0.88 2.47	0.63 0.74
Residential Bun Boundary Interior	rglary 2.56 4.60	1.28 1.53	4.81 1.31	1.50 1.88	0.31 147	0.74 0.67
Commercial Burg Boundary Interior	glary 0.87 0.40	0.83 0.07	1.15 0.58	0.44 0.58	0.75 0.29	1.68 0.17
Larceny Boundary Interior	3.83 4.80	3.67 1.40	9.56 1.81	2.06 1.83	1.56 1.29	3.21 0.62
Auto Theft Boundary Interior	1.52 1.04	0.50 0.60	1.07 0.39	0.33 0.42	0.13 0.18	0.84 0.18
Total Boundary Interior	11.78 (2 12.24 (2	23) <sup>1/</sup> 7.28 (18) 25) 3.80 (15)	20.67 (27) 5.24 (59)	5.83 (18) 5.50 (24)	3.88 (16) 6.59 (17)	7.68 (19) 2.74 (76)

Table 10. Index Crimes per Block at the Boundary and Interior of Study Neighborhoods

 $\frac{1}{N}$  Numbers in parentheses are total blocks.

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SOURCE: Tape of reported crimes in 1978, Atlanta Bureau of Police.

The crime levels of surrounding neighborhoods do not lend strong support to the spill over argument (table 1). In the black low-income pair, neighborhoods adjacent to the low crime member have a higher number of crimes per block than do neighborhoods adjacent to the high crime member. In the black middle-income pair, areas adjacent to the high crime member have a higher crime rate than areas adjacent to the low crime member. However, the difference - 7.41 versus 4.07 total crimes per block - is not as great as the difference between the study neighborhoods themselves - 10.08 versus 5.64 crimes per block. In addition, the study neighborhoods each have a higher crime rate than the respective surrounding areas. The white neighborhoods seem to be the only pair for which crime spill-over is likely to play a role in affecting neighborhood crime rates. The difference in total crime rate between neighborhoods adjacent to each member of the pair (19.68 versus 4.56) is greater than the difference between the study neighborhoods (12.02 versus 5.70). In addition, the area surrounding the high crime member of the pair has a higher rate of crime than the neighborhood itself, while the area surrounding the low crime member has a lower crime rate. This suggests that crime from nearby areas may have increased the crime level in the high crime member of this pair. However, this pattern occurred in only one of the three pairs. Thus, differences in crime rates within neighborhood pairs do not appear to be a function of crime levels in surrounding areas.

Another hypothesis to explain the differences in crime rates between the matched neighborhoods is that the low crime member is a transition area from a low income, transient section of the city (of which the high crime member is a part) to a more affluent, stable section. Since the latter sections are less likely to have offenders residing in them, according to research on the social correlates of crime and characteristics of offenders, adjacent neighborhoods are less vulnerable to crime than are neighborhoods adjacent to low income. transient sections. This hypothesis is addressed by examining the socioeconomic characteristics of neighborhoods adjacent to the high and low crime members of the pairs (table 12). The data indicate that low crime members are surrounded by more affluent neighborhoods than are high crime members. Areas surrounding the low crime neighborhoods have a higher rate of owner-occupancy and a lower percent of joblessness than areas surrounding high crime neighborhoods. In the two black pairs, the percent of female-headed households with children is higher in areas surrounding the high crime neighborhoods than in areas surrounding the low crime neighborhoods. The same is true for the percent nonwhite in the Virginia/Highland pair and the Mechanicsville/Pittsburgh pair. Percent professional household heads is also greater in areas surrounding low crime neighborhoods, but the differences are not as great as is the case for owneroccupancy, joblessness, and percent nonwhite.

In general, the data indicate that low crime neighborhoods are surrounded by more affluent areas than are matched and adjacent high crime neighborhoods. This finding suggests that high crime neighborhoods are proximate to areas in which offenders are more likely to live. In addition, these areas are more easily accessible to outsiders by virtue of having major artieries and commercial

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	Lower Virginia Highland (High)	Upper Virginia Highland (Low)	Grove Park (High)	Dixie Hills (Low)	Mechanics- ville (High)	Pittsburgh (Low)
Murder	0.08	0.00	0.02	0.01	0.05	0.07
Rape	0.21	0.01	0.18	0.09	0.10	0.12
Robbery	1.78	0.19	0.49	0.13	0.50	0.55
Assault	2.11	0.15	0.95	0.45	1.36	1.76
Residential Burglary	3.26	1.87	2.57	1.34	0.79	1.64
Commercial Burglary	1.53	0.27	0.82	0.54	0.44	0.69
Larceny	9.27	1.74	1.89	1.28	1.53	2.03
Auto Theft	1.45	0.34	0.48	0.23	0.34	0.48
Total	19.68 (156) <sup>1/</sup>	4.56 (89)	7.41 (148)	4.07 (121)	5.11 (185)	7.35 (114)

Table 11. Index Crimes Per Block in Neighborhoods Adjacent to Study Neighborhoods

 $\frac{1}{N}$  Numbers in parentheses are total blocks.

SOURCE: Tape of reported crimes in 1978, Atlanta Bureau of Police.

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Table 12. Social and Economic Characteristics of Heighborhoods Adjacer to Stary Wolffhortost         Lower Upper Virginia Virginia Conce Ditio Mechanice Pittsomyh Atlanta (High)         X hommolic       60.4       0.7       96.5       71.3         X hommolic       60.4       0.7       96.5       71.3         X hommolic       60.4       0.7       96.5       71.3         Yeasting and Heighton       10.5       2.4       3.6       25.1       0.9       28.0       10.1         Professional/ Heidebidis       10.5       2.6       26.5       7.1       1.6       2.5       5.0         X borner-Coupled       14.5       20.6       26.5       7.1       1.6       2.5       5.0         Weastics       3.7       2.7       1.4       4.1       2.3       7.8       8.1         Yeastics       3.7       2.7       1.4       4.1       2.3       7.8       8.1         Yeastics       3.7       2.9       17.6       36.3       16.0       40.2       31.4         Saurces:       Economic Indicators - R.L. Polk, Profiles of Charge: Annual Review, 1977/92; most clocally approximated boundaries were aggregated).       1978 Crayets that most clocally approximated boundaries were aggregated). </th <th></th>											
Table 12. Social and Economic Characteristics of Neighborhoods Adjacent to Study Perghamborhoods         Crear Vigning Vigning Vigning Orose Dixie Mechanics- Print Vigning Vigning Vigning Orose Dixie Mechanics- Vigning Vigning Vigning Orose Dixie Mechanics- Vigning Vigning Vigning Orose Dixie Mechanics- Vigning Vigning Orose Dixie Dixie Vigning Orose Dixie Mechanics- Vigning Vigning Orose Dixie Dixie Vigning Orose Dixie Dixie Vigning Orose Dixi			•								
Table 12. Social and Economic Energetaristics of Neighborhoods Adjacents to Study Heighborhoods         Dity       Lower Mingdina       Upper Wingdina       Diste Arana       Presson         20 and 20 (High)       Upper (High)       Diste (High)       Diste (High)       Presson         3 Monwhite       60.4       10.9       0.7       98.1       97.7       86.5       71.3         2 Female-headed Musagerial With Children       13.5       3.4       3.5       25.1       10.9       28.0       18.1         3 Professional/ Musagerial Nusagerias       14.5       20.5       28.5       7.7       71.6       2.6       5.0         3 Unechnics       14.5       20.5       28.5       7.1       11.6       2.6       5.0         3 Unechnics       14.5       20.5       7.6       36.3       16.0       40.2       31.4         3 Oner Diccupied       41.5       21.5       65.9       36.0       69.2       31.4         Saurees:       Economic Indicators - AL Myk, Parting Changer Manua, 1897-79: most closely approximated neighborhood boundaries were aggregated).       598 (tracts that most closely approximated neighborhood boundaries were aggregated).											
Table 12. Social and Econosic Characteristics of Neighborhoods Acidatent to Study Neighborhoods         Uncorr Virginia of Highland Virginia Atlanta (High) (low)       Olivie Mechanics- of Highland (High) (low)         X Nomdrice Atlanta       Upper (Highland)       Growe (Low)       Olivie (High)       Mechanics- (High)       Fitsburgh (Low)         X Nomdrice Managerial Mouseholds       One - The Study Neighborhoods       Other (High)       Other (Low)       Professional (High)         X Fenalteressional/ Managerial Mousehold heads       12.5       21.6       22.1       10.9       22.0       18.1         Professional/ Managerial Mousehold heads       11.5       21.6       20.5       7.1       11.6       2.6       5.9         Year-Sarvest Wearn'ees       3.7       2.7       1.4       4.1       2.3       7.8       8.1         Yourservest Wearn'ees       3.7       2.7       1.4       4.1       2.3       7.8       8.1         Sourcest bord Heads       26.8       26.9       17.6       36.3       16.0       40.2       31.4         Sourcest Economic Indicators = R.1. Phile, Perfiles of Compet. Annual Roving, 1977-78; rost clasely approximated neighborhood boundaries were aggregated).											
Table 12. Social and Economic Characteristics of Neighborhoods Adjacent to Study Neighborhoods         City Upper Of Wirginia Crove Doper Neighborhoods         City of Wirginia Atlanta       Upper Highborhoods       Dixie Wish (Low)       Machanics- Highborhoods         % Mom/hite       60.4       10.9       0.7       98.1       97.7       86.5       71.3         % Fonale-readed Mibosholos       10.9       0.7       98.1       97.7       86.5       71.3         % Fonale-readed Mibosholos       13.5       3.4       3.6       25.1       70.9       28.0       18.1         % Professional/ Mibosholos       13.5       20.6       20.5       7.1       11.6       2.6       5.0         % Tomocraves       3.7       2.7       1.4       4.1       2.3       7.8       8.1         % Demer-Occupied       41.5       21.5       65.9       28.0       69.3       17.1       35.0         % Demer-Occupied       41.5       21.5       65.3       36.3       16.0       40.2       31.4         Sources:       Economic indicators - R.L., Polit, Profiles of Change: Annual Review, 1977-783; most closely approximated neighborhood boundaries were aggregated).       1972 (tracts that most closely approximated neighborhood boundaries were aggregated). </th <th></th> <th></th> <th>s Anno ann ann ann</th> <th>jan maran di kana kana kana kana kana kana kana kan</th> <th>and and a second se</th> <th>n an start and start</th> <th></th> <th></th> <th></th> <th></th> <th></th>			s Anno ann ann ann	jan maran di kana kana kana kana kana kana kana kan	and and a second se	n an start and start					
Table 12. Social and Economic Characterristics of Neighborhoods         City       Lower         Upper Virginia Atlanta       Upper Virginia Mightan (High)       Orive Dixte Mechanics- Pittaburgh (Low)         % NonWrite       50.4       10.9       0.7       98.1       97.7       86.5       71.3         % Fomale-headed Households       Sa.4       3.6       25.1       10.9       28.0       18.1         % Tho Children       13.5       3.4       3.6       25.1       10.9       28.0       18.1         % Professional/ Managerial Households       Managerial Matagerial Mouseholds       3.7       2.7       1.4       4.1       2.3       7.9       8.1         % Domer-Occupied       41.5       21.5       65.9       38.0       65.3       17.1       36.0         % Jobless House- mold Heads       26.0       26.9       17.6       36.3       16.0       40.2       31.4         Sources: Economic indicators - R.L. Polk, Profiles of Change: Annual Review, 1977-78; mest closely approximated meighborhood boundaries were apprepated).       1977-78; mest closely approximated meighborhood boundaries were apprepated).									<b></b>		and the second sec
Table 12. Social and Economic Characteristics of Weighborhoods Adjacent to Study Neighborhoods         Lower City Vinginia Highland Vinginia Atlanta       Upper Vinginia Vinginia Park Highland (High)       Olxie Weichartics (High)         % Anathite       0.4       10.9       0.7       98.1       97.7       86.5       71.3         % Fonale-headed With Children       13.5       3.4       3.6       25.1       10.9       28.0       18.1         % Professional/ Meangerial Household Heads       14.5       20.6       20.5       7.1       11.6       2.6       5.0         % Womer-Occupied       41.5       21.5       65.9       30.0       63.3       17.1       36.0         % Jobless House- hold Heads       26.9       26.9       17.6       36.3       16.0       40.2       31.4         Surrces       Economic indicators - R.L. Polk, <u>Profiles of Chango: Annual Beview</u> , 1977-78; most closely approximated neighborhood boundaries were aggregated).       1978 Cradits that most closely approximated neighborhood boundaries were aggregated).											
Table 12. Social and Economic Characteristics of Neighborhoods         Lower Upper Order Virginia Grove Dixie Mechanics- of Highland Highland Piptland Park Hills ville Pittsburgh (Low)         % Nonwhite       50.4       10.9       0.7       98.1       97.7       86.5       71.3         % Feeda-beaded Honorad       Managerial       10.9       28.0       18.1         % Professional/ Managerial       3.4       3.6       25.1       10.9       28.0       18.1         % Professional/ Managerial       Managerial       3.7       2.7       1.4       4.1       2.3       7.9       8.1         % Domer-Occupied       41.5       21.5       65.9       38.0       65.3       17.1       36.0         % Jobles House- Inold Heads       26.8       17.6       36.3       16.0       40.2       31.4         Sources:       Economic indicators - R.L. Polk. Profiles of Changer Annual Review; 1977-78; wate - twatch level population estimates; Atlanta Regional, Tomatission, 1978 (tracts that most closely approximated meighborhood boundaries were aggregaten).       1978 (tracts that											
Table 12. Social and Economic Characteristics of WeighborhoodsLowerCityUpper MighlandUpper VirginiaGrove ParkDixle Mechanics- WillePittsburgh (Low)% Norwhite60.410.90.730.197.786.571.3% Female-headed Mousehold Heads13.53.43.625.110.928.018.1% Professional/ Mechanics3.72.71.44.12.37.88.1% Vecancies3.72.71.44.12.37.88.1% Doner-Occupied41.521.565.938.069.317.136.0% Johless Mouse- hold Heads25.826.917.636.315.040.231.4Sources:Economic Indicators - R.L. Polk, Profiles of Change: Annual Device, 1977 78; race - tract Heele population estimates, Atlanta Regional Commission, 1978 (tracts that wost closely approximated neighborhood boundaries were aggregated).										-	
Table 12. Social and Economic Characteristics of NeighborhoodsAdjacent to Study NeighborhoodsCity Virginia Virginia Grove Dixie Mechanics- virginia Highland Park Hills Ville Pittsburgh (Low)% Nowhite60.410.90.798.197.786.571.3% Female-braded Housenald With Children13.53.43.625.110.928.018.1% Professional/ Managerial Housenald Housenald Womer-Occupied41.520.628.57.111.62.65.0% Two-Canves Vacancies3.72.71.44.12.37.98.1% Owner-Occupied41.520.628.917.136.0% Jobies Housen Hold Heads26.917.636.316.040.231.4Sources: economic indicators - R.L. Polk, Profiles of Change: Annual Review, 1977-78; race - tract level population estimates, Atlanta Regional Commission, 1978 (tracts that most closely approximated neighborhood boundaries were aggregated).											
Lower of Highland Urginia Kirginia Brove Dixie Mechanics- ville Pittsburgh (Low)         Atlanta (High) and Highland Park Hills ville Pittsburgh (Low)         % Norwhite 60.4 10.9 0.7 98.1 97.7 86.5 71.3         % Female-headed Households         With Children 13.5 3.4 3.6 25.1 10.9 28.0 18.1         % Professional/ Managerial Household heads 14.5 20.6 28.5 7.1 11.6 2.6 5.0         % Two-Canvas         Yacaries 3.7 2.7 1.4 4.1 2.3 7.8 8.1         % Joblers House- hold Heads 26.8 26.9 17.6 36.3 16.0 40.2 31.4         Sources:       Economic indicators - R.L. Polk, Profiles of Change: Annual Review, 1977-78; rece - tract level population estimates, Atlanta Regional Commission, 1978 (tracts that most closely approximated neighborhood boundaries were aggregated).		Ta	ble 12. Socia	l and Economic Adjacent t	Characteristi o Study Neigh	cs of Neight borhoods	orhoods				
% Nonwhite       60.4       10.9       0.7       98.1       97.7       96.5       71.3         % Female-headed       Households       With Children       13.5       3.4       3.6       25.1       10.9       28.0       18.1         % Professional/ Managerial       Managerial       Hausehold Heads       14.5       20.6       28.5       7.1       11.6       2.6       5.9         % Two-Carwas       3.7       2.7       1.4       4.1       2.3       7.8       8.1         % Owner-Occupied       41.5       21.5       65.9       38.0       69.3       17.1       36.9         % Joblers       Household Heads       26.8       26.9       17.6       36.3       16.0       40.2       31.4         Sources:       Economic indicators - R.L. Polk, Profiles of Change: Annual Review, 1977-78; most closely approximated neighborhood boundaries were aggregated).       1978 (tracts that		City of Atlanta	Lower Virginia Highland (High)	Upper Virginia Highland (Low)	Grove Park (High)	Dixie Hills (Low)	Mechanics- ville (High)	Pittsburgh (Low)			
<pre>% Female-headed Households With Children 13.5 3.4 3.6 25.1 10.9 28.0 18.1 % Professional/ Managerial Household Heads 14.5 20.6 28.5 7.1 11.6 2.6 5.0 % Two-Canvas Vacancies 3.7 2.7 1.4 4.1 2.3 7.8 8.1 % Owner-Occupied 41.5 21.5 65.9 38.0 69.3 17.1 36.0 % Jobless House- hold Heads 26.8 26.9 17.6 36.3 16.0 40.2 31.4 Sources: Economic indicators - R.L. Polk, Profiles of Change: Annual Review, 1977-78; race - tract level population estimates, Atlanta Regional Commission, 1978 (tracts that most closely approximated neighborhood boundaries were aggregated).</pre>	% Nonwhite	60.4	10.9	0.7	98.1	97.7	86.5	71.3		-	
Muth Children       13.5       3.4       3.6       25.1       10.9       28.0       18.1         % Professional/ Managerial Household Heads       14.5       20.6       28.5       7.1       11.6       2.6       5.0         % Two-Canvas Vacancies       3.7       2.7       1.4       4.1       2.3       7.8       8.1         % Owner-Occupied       41.5       21.5       65.9       38.0       69.3       17.1       36.0         % Jobless House- hold Heads       26.8       26.9       17.6       36.3       16.0       40.2       31.4         Sources:       Economic indicators - R.L. Polk, <u>Profiles of Change: Annual Review</u> , 1977-78; race - tract level population estimates, Atlanta Regional Commission, 1978 (tracts that most closely approximated neighborhood boundaries were aggregated).	% Female-headed										
<pre>% Professional/ Managerial Household Heads 14.5 20.6 28.5 7.1 11.6 2.6 5.0 % Two-Carvas Vacancies 3.7 2.7 1.4 4.1 2.3 7.8 8.1 % Owner-Occupied 41.5 21.5 65.9 38.0 69.3 17.1 36.0 % Joblers House- hold Heads 26.8 26.9 17.6 36.3 16.0 40.2 31.4 Sources: Economic indicators - R.L. Polk, Profiles of Change: Annual Review, 1977-78; race - tract level population estimates, Atlanta Regional Commission, 1978 (tracts that most closely approximated neighborhood boundaries were aggregated).</pre>	With Children	13.5	3.4	3.6	25.1	10.9	28.0	18.1			
Household Heads       14.5       20.6       28.5       7.1       11.6       2.6       5.0         * Two-Canvas Vacancies       3.7       2.7       1.4       4.1       2.3       7.8       8.1         * Owner-Occupied       41.5       21.5       65.9       38.0       69.3       17.1       36.0         * Jobless House- hold Heads       26.8       26.9       17.6       36.3       16.0       40.2       31.4         Sources:       Economic indicators - R.L. Polk, Profiles of Change: Annual Review, 1977-78; race - tract level population estimates, Atlanta Regional Commission, 1978 (tracts that most closely approximated neighborhood boundaries were aggregated).       1978 (tracts that	% Professional/ Managerial										
% Two-Canvas Vacancies 3.7 2.7 1.4 4.1 2.3 7.8 8.1 % Owner-Occupied 41.5 21.5 65.9 38.0 69.3 17.1 36.0 % Jobless House- hold Heads 26.8 26.9 17.6 36.3 16.0 40.2 31.4 Sources: Economic indicators - R.L. Polk, <u>Profiles of Change: Annual Review</u> , 1977-78; race - tract level population estimates, Atlanta Regional Commission, 1978 (tracts that most closely approximated neighborhood boundaries were aggregated).	Household Heads	5 14.5	20.6	28.5	7.1	11.6	2.6	5.0		4	
<pre>% Owner-Occupied 41.5 21.5 65.9 38.0 69.3 17.1 36.0 % Jobless House- hold Heads 26.8 26.9 17.6 36.3 16.0 40.2 31.4 Sources: Economic indicators - R.L. Polk, Profiles of Change: Annual Review, 1977-78; race - tract level population estimates, Atlanta Regional Commission, 1978 (tracts that most closely approximated neighborhood boundaries were aggregated).</pre>	% Two-Canvas Vacancies	3.7	2.7	1.4	4.1	2.3	7.8	8.1			
% Jobless House- hold Heads 26.8 26.9 17.6 36.3 16.0 40.2 31.4 Sources: Economic indicators - R.L. Polk, Profiles of Change: Annual Review, 1977-78; race - tract level population estimates, Atlanta Regional Commission, 1978 (tracts that most closely approximated neighborhood boundaries were aggregated).	% Owner-Occupied	41.5	21.5	65.9	38.0	69.3	17.1	36.0			
Sources: Economic indicators - R.L. Polk, <u>Profiles of Change: Annual Review</u> , 1977-78; race - tract level population estimates, Atlanta Regional Commission, 1978 (tracts that most closely approximated neighborhood boundaries were aggregated).	% Jobless House- hold Heads	26.8	26.9	17.6	36.3	16.0	40.2	31.4			
	Sources: Economi race - most cl	ic indicator tract level losely appro	s - R.L. Polk, population es ximated neighbo	<u>Profiles of Ch</u> timates, Atlant orhood boundari	ange: Annual a Regional Co es were aggre	Review, 197 mmission, 19 gated).	7-78; 78 (tracts tha	t	-		
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development at the boundaries. In two out of three pairs, the crime rate was not substantially higher in areas surrounding the high crime neighborhoods. However, offenders wishing to commit crimes outside their own neighborhood, particularly juvenile offenders, are likely to do so within a relatively short distance of their residence, logically in areas with easy access. In order to test this hypothesis, information on both the location of the offense and the residence of the offender is required. (The latter, unfortunately, was not available for use in this study.) In addition, a larger sample of neighborhoods is necessary to test whether the characteristics of surrounding areas or the characteristics of boundary streets are more important in determining neighborhood crime levels. The evidence presented here, however, indicates an issue in need of future research - the interplay between the characteristics of border neighborhoods and street boundaries in affecting neighborhood crime rates.

# C. Physical Impediments to Informal Surveillance

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The variables examined thus far express the relative permeability of high and low crime neighborhoods to outsiders. Land use, street type, and boundary characteristics can either encourage or inhibit the privacy and insulation of a neighborhood. The final set of physical characteristics included in this analysis reflects another dimension of neighborhood safety - impediments to informal surveillance. The variables are building setbacks, presence or absence of street lights, and visual obstructions. This information was derived from a windshield survey of all facing blocks in the study neighborhoods. Building setbacks on a facing block were rated as uniform, moderately staggered, or severely staggered. The more staggered the buildings, the more difficult it is to informally observe activities on the block. Visual obstructions were also rated on a three-point scale. Obstructions include high fences or walls, tall hedges, or densely wooded or overgrown areas. Type of parking was also observed in the windshield survey. Similar to the variables in the previous analysis, it reflects the relative access outsiders have to neighborhood streets. Parking lots afford the most accessibility, driveways afford the least. High crime neighborhoods are expected to have a higher proportion of facing blocks with parking lots or combinations of parking types than low crime neighborhoods. Characteristics of block faces appear in table 13.

The results are mixed. In two out of the three pairs, the low crime neighborhood has significantly more blocks with uniform setbacks than the high crime neighborhood. There is no difference between Mechanicsville and Pittsburgh. Two out of three pairs have no differences in visual obstructions. Pittsburgh has a higher proportion of relatively unobstructed blocks than Mechanicsville. There is no difference in any of the neighborhood pairs in street lighting. Virtually every facing block has at least one light. Based on these results, a strong case cannot be made for the effect of physical impediments to informal surveillance.



	Lower Virginia Highland (High) (%)	Upper Virginia Highland (low) (%)	Grove Park (High) (%)	Dixie Hills (Low) (%)	Mechanicsville (High) (%)	Pittsburgh (Low) (%)
Building Setbacks 1/,2/						
Uniform Moderately staggered Severely staggered	48.7 46.2 5.1	65.5 34.5 0.0	40.9 48.6 10.6	61.9 32.4 5.7	57.4 38.9 3.7	53.0 44.0 3.0
	100.0	100.0	100.0	100.0	100.0	100.0
Total Facing Blocks	78	84	208	105	54	168
	t = 1.92	p < .05	t = -3.51	p < .01	t = .56	NS
Street Lights <sup>1/</sup>						
Yes No	100.0	100.0	95.9 4.1	95.1 4.9	94.0 6.0	96.7 3.3
	100.0	100.0	100.0	100.0	100.0	100.0
Total Facing Blocks	110	94	242	122	67 1	209
	· · · · · · · · · · · · · · · · · · ·		t = .35	NS	t = -,98	NS
Visual Obstructions $\frac{1}{3}$ .	/					
Unobstructed Partially obstructed Mostly obstructed	14.5 80.9 4.6	15.8 76.8 7.4	13.6 66.7 19.8	14.8 71.3 13.9	23.3 56.7 20.0	35.7 59.4 5.3
	100.0	100.0	100.0	100.0	100.0	100.0
Total Facing Blocks	011	95	243	122	60	207
	t = .26	NS	t =31	NS	t = -1.81	p < .01

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Table 13. Physical Characteristics of Block Faces in Study Neighborhoods

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Parking Types           On Street Only         1.8         6.3           Driveways Only         4.6         10.5           Parking Lots Only         4.6         1.1           On Street/Driveways         59.1         69.5           On Street/Parking Lots         3.6         3.2           Driveways/Parking Lots         8.2         2.1           All Three         17.3         5.3           None         0.9         2.1	4.1 4.1 7.4 65.7	4.1 2.5 1.6	11.3 5.6 5.6	5.7 4.8
On Street Only       1.8       6.3         Driveways Only       4.6       10.5         Parking Lots Only       4.6       1.1         On Street/Driveways       59.1       69.5         On Street/Parking Lots       3.6       3.2         Driveways/Parking Lots       8.2       2.1         All Three       17.3       5.3         None       0.9       2.1	4.1 4.1 7.4 65.7	1.1 2.5 1.6	11.3 5.6 5.6	5.7 4.8
	2.0 5.7 9.4 1.6	70.5 2.5 5.7 13.1 0.0	40.9 1.4 0.0 9.9 25.4	7.6 65.2 2.4 0.5 4.8 9.0
100.0 100.0	100.0	100.0	100.0	100.0
iotal Facing Blocks 110 95	245	122	71	210

Table 13. (continued)

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 $\frac{1}{0}$  One-tailed rather than two-tailed tests of significance were used since directionality in proportionate differences was hypothesized.

 $\frac{2}{Categories}$  were collapsed into uniform vs. staggered to calculate t-tests.

3/Categories were collapsed into unobstructed vs, obstructed to calculate t-tests.

SOURCE: Windshield Survey.

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Variations in parking facilities are consistent with the earlier findings on the relative privacy and insularity of high and low crime neighborhoods. In all three neighborhood pairs, the low crime neighborhood has more private parking facilities. The differences are significant in two out of three pairs and in the expected direction in the third. Facing blocks in low crime neighborhoods tend to have fewer parking lots, fewer combinations of all three parking types, more driveways, and more combinations of on-street parking and driveways. These patterns are likely to be a reflection of differences in land use and housing type. Low crime neighborhoods were found to be more residential, to have more single-family housing, and to have fewer major thoroughfares. Thus, parking in these neighborhoods is designed to serve residents and is less available to outsiders than parking in high crime neighborhoods. It would not make sense to argue that parking facilities, per se, affect neighborhood crime rates. However, they are part of a pattern of greater privacy and less accessibility to non-residents that is characteristic of low crime neighborhoods.

In this phase of the analysis, measures of the four major dimensions of informal territorial control are compared between matched and adjacent high and low crime neighborhoods. The four dimensions are spatial identity, local ties, social cohesion, and informal social control. It is expected that residents of low crime neighborhoods have greater spatial identity, more local ties of friendship, family, organizational membership, and the like, a greater sense of cohesiveness, and exercise more informal social control than residents of high crime neighborhoods. These dimensions are examined in the order in which they appear in the conceptual model. (See section II.)

Measures of territoriality are derived from the household survey. A series of t-tests of significance were calculated. Because the sampling design was likely to produce lower estimates of standard error than a simple random sample, a program was utilized in the calculation of standard errors that takes the design into account (Shah, 1979).\* (See section III.E. for a description of the sample design and appendix A for a discussion of the estimation procedure.)

### Demographic Characteristics Α.

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The first step in the analysis was to compare the demographic characteristics of respondents in high and low crime neighborhoods. It was expected that education, income, and race would not differ significantly because neighborhoods within pairs were matched on these variables. Age and sex of respondents were also compared. The results appear in table 14. There are no significant differences in education or income. Residents of Pittsburgh (low crime) are somewhat higher in economic status than residents in Mechanicsville (high crime), but the differences are not great enough to be significant. There are no significant differences in race in the two black pairs; almost all respondents are black. There are, however, significantly more blacks in Lower than in Upper Virginia-Highland, 12 percent and zero percent, respectively. While both neighborhoods are predominantly white, it seemed appropriate to adjust means and proportions for this difference in racial composition. In addition, there are no significant differences in the sex of the respondent, although the proportion of males is slightly higher in two out of three high crime. neighborhoods than in the matched low crime neighborhoods. Mean age,

A comparison of standard error estimates calculated both by this program and by the statistical package known as SAS for a number of variables showed that the former yields slightly lower estimates than the latter in most cases. The differences, however, were not great. The program was employed in calculating all unadjusted t-tests in order to insure that sampling effects were reflected.

# V. TERRITORIALITY: A COMPARISON OF HIGH AND LOW CRIME NEIGHBORHOODS



	Lower Virginia Highland (High) v	Upper Virginia Highland (Low) -	р.	Grove Park (High)	Dixie Hills (Low)	p	Mechanics- ville (High)	Pitts- burgh (Low)	P
	s-x	s-x		5- X	x s- x		x 5- x	x 5- x	
Mean Age of Respondent	37.0 1.444	42.7 1.756	<.01	41.4 1.910	47.9 1.746	<.01	44.8 1.766	48.4 1.980	NS
Proportion of Male Respondents	. 398 . 054	. 425 . 056	NS	. 437 . 053	. 344 . 050	NS	. 425 . 053	.376 .050	NS
Proportion of Black Respondents	. 12 . 034	0 0	<.01	.97 .020	.99 .011	NS	.98 .016	.98 .011	NS
Proportion with High School Education or More	. 90 . 030	.86 .033	NS	.47 .059	. 52 . 048	NS	. 28 . 047	. 34 . 049	NS
Proportion with Total Family Income < \$10,000 in 1979	. 27 . 050	. 25 . 047	NS	.60 .068	. 59 . 057	NS	.82 .058	. 67 . 072	NS

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 $\frac{1}{0}$  One-tailed rather than two-tailed tests of significance were used since directionality in proportionate differences was hypothesized.

SOURCE: Household Survey.

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however, is higher in low crime than in high crime neighborhoods, and the difference is significant in two out of three pairs. Because of this difference, means and proportions in all neighborhoods are adjusted for age. An adjustment is also made for sex, because even though the differences between matched neighborhoods are small, sex has been found to be an important predictor of neighborhood activities, perceptions, and reactions to crime. Means and proportions in all neighborhoods are adjusted for age and sex, and are also adjusted for race in the Virginia-Highland pair. Both unadjusted and adjusted statistics are presented.

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# B. Spatial Identity

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Spatial identity, the degree to which the neighborhood is viewed as a distinct social and territorial unit, is measured by three varibles: whether the neighborhood has a name, whether the respondent gives the official neighborhood name, and the size in acres of the area the respondent identified as his/her neighborhood. This last variable was measured by showing the respondent a 1:1000 scale street map of the neighborhood (without boundary lines drawn in) and the surrounding area and asking him/her to draw a line around the area the respondent perceived as the neighborhood. It is expected that residents of low crime neighborhoods would be more likely to think the neighborhood had a name and to give the official neighborhood name. It is also expected that residents of low crime neighborhoods would include more area on their maps than residents of high crime neighborhoods, since the former may be familiar with and feel comfortable in a larger territory than the latter.

The results provide only partial support for spatial identity as a distinauishing feature between high and low crime neighborhoods (table 15). There is a significant difference in only one neighborhood pair in the proportion stating that the neighborhood has a name and the proportion giving the official name. These differences are in the expected direction, but there are virtually no differences in two out of three pairs. The overwhelming majority of residents of all six neighborhoods stated the neighborhood had a name and gave the official name. The area included within perceived neighborhood boundaries varied more systematically. In all three pairs, the area is larger in low crime than in high crime neighborhoods, and the differences are significant in two out of three cases. The differences remain after adjustments were made for race, sex, and age. Thus, residents of low crime neighborhoods seem to identify in a general sense with a larger area than residents of high crime neighborhoods. It is interesting to note that the maps drawn by respondents are larger on the average in white than in black neighborhoods. This does not conform to differences in the actual size of the neighborhoods. Grove Park is by far the largest neighborhood, Virginia-Highland (in its entirety) and Dixie Hills are approximately equal in size, and Pittsburgh and Mechanicsville (in its entirety) are slightly smaller. While the results are mixed, the only variable that systematically distinguishes between high and low crime neighborhoods is size of the area of general identification. The next part of the analysis will examine whether sub-areas of more specific identification exist.

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				Tab	le 15. S	patial	Identity o	f Residen	ts of H	igh and Lov	v Crime Ne	ighbori	hoods 1/			н 1										
· · · · · · · · · · · · · · · · · ·	U	nadjusted		A	djusted <sup>2/</sup>	; ;	U	nadjusted		Ac	justed <u>3</u> /		Ur	nadjusted			Adjusted <sup>3/</sup>									
	Lower Vir- ginia High- land (High) x	Upper Vir- ginia High- land (Low) x	p	Lower Vir- ginia High- land (High) x	Upper Vir- ginia High- land (Low) x x	þ	Grove Park (High) x	Dixie Hills (Low) ž	p	Grove Park (High) x	Dixie Hills (Low) x	р.	Mech- anics- ville (High) x	Pitts- burgh (Low)	þ	Mech- anics- ville (Higa) x	Pitts- burgh (Low) x	p						т. Т.		
Mean Area (Acres) in Per- ception	<u> </u>	<b>`X</b>	, , ,	×	• *		<u> </u>	<u> </u>		<u>x</u>			<u> </u>	<u> </u>		<b></b>	<u>x</u>									
of Neighbor- hood Boundarie	333.2 s 34.439	488.5 58.890	<.05	243.03 69.95	399.29 85.51	<.05	218.9 38.065	229.3 27.742	NS	206.02 35.06	239.09 34.12	NS	189,5 18.216	285.99 36.641	. C5	191.0 29.34	289.50 28.69	115							· ·	
Proportion Stating Neighbor- hood Has a	. 93	. 95	NS	. 865	. 864	NS	.71	. 91	5.01	. 704	. 906	<. 01	. 97	. 98	NS	. 974	. 975	' N5			-					
Name Proportion Calling Neighbor- hood	. 033	. 025	,	. 043	.051		. U47	. 035	:	. 045	. 046		.018	. 016		. 018	. 017									
by Official Name	.813 .053	.890 .027	NS .	.690 .070	. 764 . 080	NS	. 731 . 043	.899 .038	<.01	.753 ,053	.896 .046	<b>k.0</b> 5	.949 .018	.976 .016	NS	. 947 . 022	.975 .021	N'S				8				
1/One- 2/Adju 3/Adju SOURCE: Ho	tailed ra usted for usted for usehold S	ther than age, sex a age and se urvey.	two-ta and rac ex.	niled tests ce.	of signi	ficance	were used	since di	rection	ality in pr	roportiona	ite dif	ferences wa	is hypothe	sized.	· · ·					<b>1</b>					
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# C. Local Ties

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Local neighborhood ties should be a prerequisite for the maintenance of informal social control. Ties of friendship, neighboring, voluntary association membership, and the like should provide the familiarity among residents that is necessary to distinguish between neighbors and strangers. Such ties may also provide the foundation upon which social cohesion is built. Local ties are measured in a variety of ways. Indirect measures include mean years at the current address, mean years in the neighborhood, whether the dwelling is owned or rented, percent currently married, percent with children, and mean number and age of children. These variables do not specifically measure social ties but rather reflect conditions under which ties are more or less likely to exist. Residential stability, home ownership, marriage, and children, particularly of school age, are all conducive to the establishment of local ties. Direct measures are frequency and variety of neighboring activities, use of local facilities, employment in the neighborhood, membership in voluntary associations that meet in the neighborhood, and friends or relatives living in the neighborhood. The frequency and variety of neighboring and the number of local friends and relatives are measured for the two block area around the respondent's home, in the area more than two blocks away but within neighborhood boundaries, and in the entire neighborhood.\* The purpose of this was to find whether sub-areas of specific usage existed and were more pronounced in low crime than in high crime areas. The designation of two blocks within the respondent's home was felt to be a reasonable size within which daily social interaction and other neighborhood activities might be concentrated.

The evidence indicates (table 16) that low crime neighborhoods are more residentially stable than high crime neighborhoods, but these differences are diminished when age is controlled. Mean years at the current address, mean high crime neighborhood, and owner-occupancy are all greater in low than in Pittsburgh and Mechanicsville in average years in the neighborhood than there is in average years at the current address suggests that low income blacks, the same neighborhood. When age is controlled, however, their are no significant differences in average years in the same neighborhood. Owner-occupancy is significant only in Virginia-Highland. Differences in average years at the neighborhoods tend to be more residentially stable than high crime neighborhoods, although this is in part a function of the higher average age of residents in

After the respondent was asked to draw a line around the area regarded as the neighborhood, the interviewers showed the respondent a map with the official neighborhood boundaries designated. The interviewer pointed out the name and location of boundary streets and suggested that this area would be referred to in subsequent questions about the neighborhood.

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	Un	nadjusted		Ac	justed <sup>27</sup>	, <u>, , , , , , , , , , , , , , , , , , ,</u>	Un	adjusted		A	ijusted <u>3</u> /	-	Ur	nadjusted		A	djusted <sup>3/</sup>	,
	Lower Vir- ginia High- land (High) x s	Upper Vir- ginia High- land (Low) x s <sub>x</sub>	p	Lower Vir- ginia High- land (High) x s <sub>x</sub> s <sub>x</sub>	Upper Vir- ginia High- land (Low) x s_x	р	Grove Park (High) x s <sub>x</sub>	Dixie Hills (Low) x s <sub>x</sub>	p	Grove Park (High) x \$ \$ x	Dixie Hills (Low) x s- x	p	Mech- anics- ville (High) x s	Pitts- burgh (Low) x s- x	p	Mech- anics- ville (High) x s_ x	Pitts- burgh (Low) x̄ s <sub>x</sub>	p
Residential Stability	•				1			-	. 1									
Mean Years at Curren Address	t 45 .941	10.9 1.455	<.01	6.95 1.40	10.59 1.64	<.01	8.7 .876	13.5 1.06	۰.01	9.83 1.03	12.58 1.0	<.05	8.7 1.147	11.4 1.295	NS	8.81 1.23	10.64 1.21	NS
Mean Years Neighbor- hood	in 6.0 1.073	12.0 1.567	<.01	8.12 1.36	11.27 1.60	<b>M2</b>	10.9 1.098	15.4 1.223	۰.01	11.85 1.18	14.78 1.14	NS	14.6 1.560	18.3 1.540	۰.05	14.89 1.60	17:55 1.60	NS
Proportion Owner- Occupied	. 24 . 030	.64 .045	<.01	. 221 . 072	. 532 . 085	<.01	.49 .033	. 54 . 034	NS	. 525 . 051	.519 .050	NS	. 19 . 037	.31 .041	•.05	. 192 . 044	. 292 . 044	NS
<u>Family</u> Composition																		
Mean Number of Adults Aged 18+ in House- hold	1.67 .067	1.81 .076	NS	1,49 .110	1.59 .130	NS	2.03 .087	1.91 .082	NS	2.04 .088	1,97 .085	NS	2.17 .128	2.00 .093	NS	2.14 .112	2.04 .108	NS
Proportion Currently Married	.293 .045	.375 .053	NS	. 191 . 081	.214 .095	NS	. 425 . 050	. 352 . 046	NS	. 436 . 052	. 333 , 052	NS	. 276 . 054	.402 .051	•.05	. 276 . 051	.413 .050	NS
Proportion Who Have Children	.121 .034	. 132 . 036	NS	.087	. 105 . 068	NS	.310 .050	.326 .047	NS	,268 ,046	. 300 . 044	NS	. 291 . 047	. 228 . 042	NS	. 251	. 221 . 043	NS
Mean Number of Childr	.157 en .047	.224 .069	NS	. 089 . 094	. 165 . 110	NS	. 540	. 739 . 142	NS	.446 .116	.688 .114	NS	. 709 . 142	. 543 . 113	NS	. 606 . 124	. 518 . 121	NS
Mean Number of Childr of Those Who Have Children	en 1.3 .153	1.7 .213	NS	. 938 . 378	1.38	NS	1.74 157	2.27	01	1.69 .241	2.23 .273	NS	2.44 .283	2.38 .223	NS	2,36 ,300	2.36 .287	NS
Proportion With Chil O-4 Years Old	d . 036 . 021	. 063 . 027	.05	1149 1138	. U92 . 044	NS	. 092	. 108 . 032	NS	. 072 . 032	. 109 . 031	NS	138 .037	.065 .026	. 01	. 120 . 030	. 061 . 030	N5

Table 16. Local Ties of Residents of High and Low Crime Neighborhoods $^{1/2}$ 

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	U	nadjusted		Ac	ijusted <sup>2/</sup>		U	nadjusted		Ac	djusted <u>3</u> /	-	Ur	nadjusted		4	\djusted <sup>3/</sup>	7
	Lower Vir- ginia High- land (High) x \$ x x	Upper Vir- ginia High- land (Low) x x x	p	Lower Vir- ginia High- land (High) x s- x	Upper Vir- ginia High- land (Low) x s- x	p	Grove Park (High) x s <sub>x</sub>	Dixie Hills (Low) x s <sub>x</sub>	p	Grove Park (High) x s <sub>x</sub>	Dixie Hills (Low) x \$- \$-	p	Mech- anics- ville (High) x s;	Pitts- burgh (Low) x s:	p	Mech- anics- ville (High) x s-	Pitts- burgh (Low) x s-	p
Proportion With Child 5-1 Years Old	2 .060	. 075 . 030	NS	.019 .044	. 032	NS	. 207 . 044	. 215 . 043	NS	. 179	. 203	NS	. 138	. 161	NS	. 112	. 164	 N:
Proportion With Child 13- Years Old	17 .036 .021	.038 .021	NS	.013 .033	.013 .039	NS	. 092 . 031	. 140 . 036	NS	. 082 . 034	. 117	ŃS	. 138 . 037	. 075 . 028	<.05	. 118 . 033	.036	NS
<u>Neighboring</u> Frequency of Neighb ing Withi 2 Blocks	or- n 6.95 .657	6.41 .549	NS	7.04 .94	7.0 1.12	NS	5.10 514	5.20	NS	5.02	5.51	NS	4.23	5.78	<.05	4.17	5.95	
Frequency of Neighb ing in Re of Neigh- borhood	or- st 5.36 .571	3.60 .460	<.01	4.21 .738	2.69	<.05	2.81	2.48	NS	2.68	2.69	NS	2.02	. 569	NS	. 551 2. 05	. 546 2. 75	N
Frequency of Neighborin in Entire Neighbor- hood	f ng 12.28 .999	10.05 .884	۲,05	11.26 1.40	9.7 1.67	NS	7.91	7.78	NS	7.70	B. 27	NS	6.25	. 318	< 05	. 348 6. 22	. 341 8. 59	
/ariety of Neighborin Activities Within 2	)q ; 2.38_	2.56	NS	2.41	2.73	мс	1.84	1.86	N.C.	1. 78	, 833 1, 92		. 239	. 786		. 783	.774	.0
Blocks /ariety of Neighborir Activities in Rest	. 177 Ig	. 166		. 281	. 331	. 112	. 148	. 138	NS	. 163	. 157	NS.	. 149	. 145	NS	1.35 .i49	. 148	NS
of Neigh- horhood	2.13 .201	1.69 .186	NS	1.60 .267	1.23 .316	NS	1.16	. 879	NS	1.10	.927 .131	NS	. 736 . 110	.892 .103	NS	.740	.969 .115	NS

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	Ur	adjusted		Ad	justed <sup>2/</sup>		Un	adjusted		Ac	ljusted <sup>3/</sup>		Ur	adjusted	
	Lower Vir- ginia High- land (High)	Upper Vir- ginia High- land (Low)	р ,	Lower Vir- ginia High- land (High)	Upper Vir- ginia High- land (Low)	p	Grove Park (High)	Dixie Hills (Low)	p	Grove Park (High)	Dixie Hills (Low)	p	Mech- anics- ville (High)	Pitts- burgh (Low)	p
	x s- x	x 5- x		s. x	x s- x		x s- x	s- x		× 5- ×	x 5		x s- x	x 5- x	
Variety of Neighborin Activities in Entire Neighbor- hood	ng s 4.49 330	4.22	NS	4.01 469	3.93 .557	NS	3.01 .250	2.77	NS	2.89	2.87	NS	2.10	2.56 .217	NS
Ratio of Frequency of Neighb ing Within 2 Blocks Total Neig boring	or- n to gh525 038	. 553	NS	. 614 .061	. 668	NS	. 545 .037	. 606	NS	. 546 . 042	. 604	NS	. 509 . 045	. 60 . 036	NS
Ratio of Frequency of Neighb ing Beyon 2 Blocks Total Nei boring	or- d to gh353 .034	. 276 . 032	NS	. 284 . 050	. 211 . 059	NS	. 246 . 026	. 207 . 030	NS	. 230 . 029	. 208 . 028	NS	. 193 . 031	. 24 . 027	NS
<u>Local Facil</u> <u>Use</u> Variety of Neighborh Facilitie Used	<u>ity</u> ood s 3.10 .212	2.49 .200	<.05	3.12 .290	2.62 .342	NS	2.51 .182	1.03 .155	<,01	2.45 .179	1.16 .167	<,01	1.85 .120	1.88 .157	NS
Proportion With Main Place of Work in Neighborh	.111 ood .031	.068 .030	NS	. 032 . 051	.000 .060	NS	.060 .030	.097 .031	NS	. 061 . 034	. 102 . 033	NS	. 082 . 036	.081 .036	NS

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Table 16. Local Ties of Residents of High and Low Crime Neighborhoods $^{{f 1}'}$  (continued)

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ed		A	djusted <sup>3/</sup>	
	p .	Mech- anics- ville (High) x s x s x	Pitts- burgh (Low) x s <sub>x</sub>	p
	1			1
5 <sup>-</sup> 17	NS	2.09 .235	2.67 .232	NS
			•	
D 36	NS	.501 .044	. 588 . 043	NS
4 27	NS	. 195 . 031	.247 .030	NS
8 57	NS	1.83 .138	1.97 .134	NS
81 36	NS	.082 .036	.081 .036	NS
1			(continue	d).

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	U	nadjusted		Ac	justed <sup>2/</sup>		Ur	nadjusted		Ad	justed <u>3</u> /		Un	adjusted
	Lower Vir- ginia High- land (High)	Upper Vir- ginia High- land (Low)	p	Lower Vir- ginia High- land (High)	Upper Vir- ginia High- land (Low)	р	Grove Park (High)	Dixie Hills (Low)	p	Grove Park (High)	Dixie Hills (Low)	p	Mech- anics- ville (High)	Pitts- burgh (Low)
	x s-	x s-		x s	x s		x 5-	x s-		x s	x s		× × 5 <del>,</del>	x s <del>,</del>
Club Member ship	-													
Number of Organiza-														
tions Be- longed to	1.21 ,126	1.13	NS	1.37	1.29	NS	1.08	1.40 .118	<.05	1.04 .110	1.34 .105	<.05	. 908 . 056	1.18 .088
Frequency of Attend Meetings	ing of								•					
tions Be- longed to	2.25 .276	1.96 .224	NS	2,65 .446	2.41 .526	NS	2.59 .184	3.64 .285	<.01	2.61 .282	3.45 .272	<. 05	2.12	3.05 .224
Number of Organizat Belonged That Meet	ions to													
in Neigh- borhood	. 296 . 063	.218 .038	NS	.255 .091	. 150	NS	.410 .059	.500 .072	NS	. 380	.459 .071	NS	.417	.484 .078
Ratio of Neighborh Organizat Membershi	ood ion p													
to lotal Organizat Membershi	ion .186 p .041	. 101	<.05	.133	. J31 . 063	<.05	. 308 . 048	.263 .034	NS	. 286	. 234 . 043	NS	. 339 053	. 330 . 049
Number of Children' Organizat	s .096 ions .048	.147	NS	.017	.068	. NS	. 310 . 077	.457 .104	NS	. 266 . 092	.407 .090	NS	. 372 . 092	.411 .120
Number of Children <sup>+</sup> Organizat	5 1005										•			
that Meet Neighborh	in .01/ ood .011	.013	NS	.007	. 000 . 028	NS	. 184	.163 .053	NS	160 . 057	.155 .056	NS	174 059	. 205 . 094

Table 16. Local Ties of Residents of High and Low Crime Neighborhoods $\frac{1}{2}$  (continued)

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	A	djusted <sup>3/</sup>	
p	Mech- anics- ville (High) x s	Pitts- burgh (Low) x \$ \$	p
.05	. 883 . 075	1.18 .073	•.01
.01	2.07 .209	3.04 .202	.01
NS	. 403 . 072	.472 .069	NS
NS	. 335 . 050	. 318 . 048	NS
NS	.317 .109	. 408 . 108	NS
NS	. 149 080	208 . 080	NS
		(contin	ued)



Lower Vir-ginia High-land (High) x s\_x Lower Vir-ginia High-land (High) Upper Vir-Upper Vir-Mech-anics- Pitts-ville burgh (High) (Low) ginia High-land (Low) ginia High-land (Low) Grove Park (High) Dixie Hills Grove Park (High) Dixie Hills (Low) (Low) р p. р Ď D x x x x x x x x x 5-<u>x</u> ss-x s-5-X 5-X s~ 5-x <sup>5</sup>~ Ratio of Children's Neighbor-hood Organi-zations to Total Children's Children's .024 Organizations .017 . 103 .102 .032 .092 .028 .085 .030 .090 .029 .060 NS .004 .004 .009 .000 .024 NS NS NS NS Friends in Neighborhood Mean Number of Good Friends Within 1.9 in 2 Blocks .273 2.93 .650 4.51 .639 3.4 .610 4.7 NS 2.2 .263 1.72 .457 1.79 .054 NS 2.8 .448 4.2 .717 <.05 NS NS Proportion With 3 or More Good Friends Within 2 Blocks .36 .055 .34 .048 .284 .083 .232 .097 .288 .049 .261 .23 .049 .35 .044 ·.05 ,28 ,049 .25 .047 NS NS NS NS Mean Number of Good Friends More Than 2 Blocks Away But Within Within 2.7 Neighborhood .380 1.72 1.91 NS .807 .948 NS 2.20 3.40 .664 4.6 .841 NS 3.1 .480 2.1 .383 3.1 .825 3.4 1.23 NS NS . NS Proportion With 3 or More Good Friends More Than 2 Blorks Away But Within .49 .048 .05 Within .27 Neighborhood .048 .34 .048 . 243 .33 .047 . 40 .405 .051 . 217 . 079 . 333 . 053 . 36 . 050 NS NS NS NS

Adjusted<sup>2/</sup>

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Table 16. Local Ties of Residents of High and Low Crime Neighborhoods  $\frac{1}{2}$  (continued)

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Table 16. Local Ties of Residents of High and Low Crime Neighborhoods ${1\over 2}'$  (continued

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		Una	adjusted		Ad	justed <sup>2/</sup>		Ur	adjusted		Ac	justed <u>3</u> /		Ur	nadjusted	,	ļ	djusted <sup>3/</sup>	/
	Low Vi gin Hig Jan (Hig x	r- ia h- id h)	Upper Vir- ginia High- land (Low) x s	P	Lower Vir- ginia High- land (High) x s;	Upper Vir- ginia High- land (Low) x s;	p	Grove Park (High) x s;	Dixie Hills (Low) x s;	p	Grove Park (High) x sy	Dixie Hills (Low) x sy	p	Mech- anics- ville (High) x s;	Pitts- burgh (Low) x s;	p	Mech- anics- ville (High) x s;	Pitts- burgh (Low) x st	р ,
Proportion With Greater Number of Good Frie Within 2 Blocks Th More Than 2 Blocks	nds an	. 28	. 30	NS	. 387	. 428	NS	. 44	. 44	NS	. 442	. 441	NS	.51	. 38	<.05	. 490	. 345	< . 0
Away Mean Number of Good Friends in Neigif- borhood	<b>*</b> 4	.6 .546	5.3 .653	NS	3.43 1.12	3.71 1.31	NS	4.9 .747	.049 7.3 1.433	NS	5.16 1.22	. 053 7. 92 1. 19	NS	6.7 1.719	9.3 1.374	NS	7.16 1.53	9.72 1.50	NS
Proportion With 3 or More Good Frie in Neigh- borhood	nds	.53 .053	.51 .052	NS	. 409 . 086	. 324 . 101	NS	. 56 . 053	. 52 . 049	NS	. 567 . 055	. 518 . 054	NS	. 53 . 051	. 57 . 047	NS	. 536 . 054	. 575 . 053	NS
Proportion With Most or All of Good Frie in Neighb hood	nds or-	. 098 . 032	. 101 . 036	NS	- 049 . 054	. 030 . 062	NS	. 207 . 040	. 226 . 047	N5	. 215 . 045	.219 .044	NS	. 174 . 045	. 280 . 046	NS	. 180 . 046	. 266 . 044	NS
<u>lelatives i</u> <u>leighborhoo</u> 1ean Number Relatives Within 2 Blocks	n d of	. 10	.10	NS	. 027	. 032	NS	.8	1.01	NS	. 70	1.10	NS	00 1	1.10	NS	. 958	1.160	NS
roportion With 3 or More Rela Lives Wit 2 Blocks	- hin C	). 00 ). 00	0.00 0.00		0.00 0.00 0.00	0.00 0.00	· · · · ·	. 203 . 09 . 033	. 132	NS	. 035	. 134 . (134	NS	14 	. 14 . 032	NS.	. 138 . 037	. 154	N٩



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Lower         Upper pinia         Cover         Upper pinia	Lover Upper Laver Poper pilala gliala gliala gliala gliala gliala gliala gliala fight Grove Dirie Grove Dirie Mech- Might Fight Clev) p (High) (Lev) p (High) (Hig
Hear Humber More Than 2 Blocks Avay But Within       .05       .06       NS       .072       .093       NS       1.10       1.50       NS       1.91       1.50       NS       .793       .804       NS       .835       .924       NS         2 Blocks Avay But Within       .05       .065       .033       NS       .273       .368       NS       1.376       .359       NS       .793       .804       NS       .835       .224       NS         Proportion Hord       .014       .07       .368       NS       .135       .187       NS       .084       .09       NS       .004       .01       NS       .024       .030       .024       .001       .004       .001       .000       .001       .000       .000       .001       .001       .001       .001       .001       .001       .001       .001       .001       .001       .001       .001       .001       .001       .001       .001       .000       .000       .001       .001       .001       .001       .001       .001       .001       .001       .001       .001       .001       .001       .001       .001       .001       .001       .001       .001       .001 <td< td=""><td>Mean Multiple More Than 2 Blacks More Than 2 Blacks 2 Blacks</td></td<>	Mean Multiple More Than 2 Blacks More Than 2 Blacks 2 Blacks
Proportion With 3 or More Relatives Away Bulcets Away Bulcets Away Bulcets Away Bulcets Away Bulcets Away Bulcets Away Bulcets Away Bulcets Away Bulcets Mith Greater Mumber of Relatives In Heigh- 100 .000 .00 0.00 0.00 1.05 .029 NS 1.8 2.5 NS 1.71 2.60 NS 1.8 1.9 NS .28 .28 NS .261 .277 NS Bucks Than More Relatives In Heigh- 1.00 .000 .00 0.00 0.00 1.05 .043 NS 1.71 2.60 NS 1.8 1.9 NS .261 .278 NS .261 .277 NS Proportion Mith Greater Mumber of Relatives In Heigh- 0.00 0.00 0.00 0.00 1.05 .043 NS 1.71 2.60 NS 1.8 1.9 NS 1.79 2.06 NS .148 .41 NS Proportion Mith Nost or All of Relatives In Heigh- 0.00 0.00 0.00 0.00 1.05 .043 NS 1.71 2.60 NS 1.8 1.9 NS 1.79 2.06 NS IN Heigh- 1.00 .100 NS .055 NS .062 .073 NS 1.8 2.5 NS 1.71 2.60 NS 1.8 1.9 NS 1.79 2.06 NS IN Heigh- 1.00 .000 .00 0.00 0.00 1.05 .043 NS 1.449 .441 NS Proportion Mith Nost or All of Relatives In Heigh- 0.00 0.00 0.00 0.00 0.014 .072 NS 1.073 NS 1.08 0.073 NS 1.080 .043 NS 1.080 .043 NS 1.085 NS .048 .41 NS Proportion Mith Nost or All of Relatives In Heigh- 0.00 0.00 0.00 0.00 0.014 .072 NS 1.073 NS 1.080 .043 NS 1.080 .043 NS 1.085 .052 NS Itherade NS 1.085 NS 1.085 NS Itherade NS 1.085 NS Ithe	Preportion Mith 3 esti- tives Nave Han 2 Blocks Aay But Within Meighbor 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.034 N5 .035 N5 .030 .030 N5 .084 .001 M5 Proportion With Greater Runber of 2 Blocks 10an 2 Blocks 10an More Han 2 Blocks 10an Mith 62 Blocks 10an 2 Blocks 10an Mith 62 1 Blocks 10an 2 B
Neighbor- hood       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00<	Meighbor-       0.00       0.00        0.00       0.00        14       17       NS       135       167       NS       0.08       0.99       NS       0.08       101       NS         Proportion       With       Greater       Mere han       0.00       0.00       0.00       NS       180       .030       .030       .030       .030       .029       NS         2       Blocks       1An       .040       .052       .05       .069       .040       .030       .030       .030       .030       .029       NS         Mere han       .020       .022       NS       .025       .029       NS       .18       .040       .052       .05       .040       .046       .05       .046       .05       .046       .046       .047       .046       .048       .048       .049       .048       NS       .261       .277       NS         Meet hand       .020       .022       .022       .022       .022       .022       .023       .046       .052       .047       .046       .055       .049       .048       NS       .261       .277       NS         Mean Mulber of       R
Within 2 Blocks Than       .040       .040       .05       .025       .029       NS       .18       .30       .05       .169       .307       .05       .28       .28       .261       .277       NS         Away       .020       .022       .022       .030       .036       .046       .052       .05       .169       .307       .05       .28       .28       .261       .277       NS         Mean Number of Relatives in Neigh-       .000       .022       .073       NS       1.8       2.5       NS       1.71       2.60       NS       1.8       1.9       .048       NS         Proportion With Most or All       .042       .043       .045       .062       .073       NS       .368       .451       NS       1.8       1.9       .179       2.08       NS         Proportion With Most or All       .045       .062       .073       NS       .368       .451       NS       1.49       .441       NS       1.8       1.9       .348       .341       NS         Proportion With Most or All       .000       .000       .000       .000       .000       .000       .000       .026       .025       NS	Within 2 Blocks       Dody
Relatives       in Neigh-       100       .100       NS       .099       .125       NS       1.8       2.5       NS       1.71       2.60       NS       1.8       1.9       NS       1.79       2.08       NS         borhood       .038       .045       NS       .062       .073       NS       1.8       2.5       NS       1.71       2.60       NS       1.8       1.9       NS       1.79       2.08       NS         Proportion       .038       .045       NS       .062       .073       NS       1.8       2.30       .359       NS       1.79       2.08       .348       .341       NS         With Most       .062       .073       .05       .043       .05       .043       .043       .043       .043       .043       .043       .043       .026       .022       NS       .028       .027       NS       .026       .022       NS       .026       .025       NS       .026       .025       NS       .026       .022       NS       .026       .025 <t< td=""><td>Relatives       in Neigh-       .100       .100       NS       .099       .125       NS       1.8       2.5       NS       1.71       2.60       NS       1.8       1.9       .359       NS       1.79       2.08       .348       .341       NS         Proportion       With Most       .000       .000       .000       .000       .000       .000       .000       .000       .000       .000       .001       .001       .002       .003       .043       NS       .043       NS       .043       NS       .043       NS       .043       NS       .043       NS       .028       .021       NS       .025       NS       .025       NS       .026       .025       .025       NS       .026       &lt;</td></t<>	Relatives       in Neigh-       .100       .100       NS       .099       .125       NS       1.8       2.5       NS       1.71       2.60       NS       1.8       1.9       .359       NS       1.79       2.08       .348       .341       NS         Proportion       With Most       .000       .000       .000       .000       .000       .000       .000       .000       .000       .000       .001       .001       .002       .003       .043       NS       .043       NS       .043       NS       .043       NS       .043       NS       .043       NS       .028       .021       NS       .025       NS       .025       NS       .026       .025       .025       NS       .026       <
of Relatives in Neigh- 0.00 0.00 - 0.00 0.00 - 105 043 NS 097 043 NS 080 043 NS 085 052 NS borhood 0.00 0.00 - 0.00 0.00 - 0.043 NS 027 NS 026 025 NS (continued)	of Relatives in Neigh- 0.00 0.00 0.00 0.00 105 043 NS 097 043 NS 025 052 NS borhood 0.00 0.00 0.00 0.00 0.34 022 NS 028 027 NS 026 022 NS 025 NS (continued)

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				Table	16. Local	Ties	of Residen	ts of High	and l	.ow Crime Ne	ighborhoo	$ds^{\underline{1}/}$ (	continued)	
	U	nadjusted		A	djusted≐′		. Ui	nadjusted		Ad	ljusted≚′		Ur	nadjuster
	Lower Vir- ginia High- land (High) x	Upper Vir- ginia High- land (Low) x	, p	Lower Vir- ginia High- land (High) x	Upper Vir- ginia High- land (Low) x	p	Grove Park (High) x	Dixie Hills (Low) x	p	Grove Park (High) x	Dixie Hills (Low) x	p	Mech- anics- ville (High) x	Pitts- burgh (Low) x
	x	\$		<u> </u>	5- X		5-x	5 <u>x</u>		s-x	5 x		5×	<u>5</u> x
Proportion With 3 or More Relatives in Neigh-	0.00	0.00		0.00	0.00		. 21	. 26		. 202	. 270	inc	. 21	. 17
borhood	0.00	0.00		0.00	0.00		. 049	.043	NS	. 047	.046	NS	. 043	. 037

 $\frac{1}{2}$  One-tailed rather than two-tailed tests of significance were used since directionality in proportionate differences was hypoth  $\frac{2}{A}$  Adjusted for age, sex and race.

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3/Adjusted for age and sex.

SOURCE: Household Survey.

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 $= \sum_{i=1}^{n} \left( \sum_{j=1}^{n} \left( \sum_{i=1}^{n} \left( \sum_{j=1}^{n} \left( \sum_$ 

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s- h ()	p	Me an vi (Hi x s	ch- ics- ile gh) x	Pi bu (L x s	tts- rgh ow) x	p
17	NS		. 208		. 193	NS
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low crime neighborhoods. It is also likely to be a reflection of differences in housing type. It was found earlier that low crime neighborhoods have a higher proportion of single-family residences.\*

There are few systematic differences in family composition between high and low crime neighborhoods. There are no differences in the mean number of adults per household. Percent currently married and living with spouse is greater for the low crime neighborhood in only one pair; there are no significant differences when age is controlled. The percentages of respondents with children under age 18 who live at home are almost identical between matched neighborhoods. Few people in any of the study neighborhoods have children; the highest proportion is slightly under one-third. There are no significant differences in average number of children. Among those with children, there is only one pair with a significant difference in average number of children. There are few differences in the age composition of children. The low crime member of the Virginia-Highland pair has a slightly higher percentage of very young children than the high crime member; the opposite is true in the Mechanicsville/Pittsburgh pair. Mechanicsville (high crime) also has a higher percentage of teenagers than Pittsburgh (low crime). However, there are no significant differences in either the proportion with children or the age composition of children when age is controlled.

Neighboring was measured by two indices. One index reflects the frequency of neighboring. Respondents were asked how often they engaged in five different activities with neighbors: helping each other with repairs or other jobs in or around the house; eating meals together; borrowing or exchanging tools, recipes, and the like; visiting; and asking neighbors to watch children when the respondent is not at home. Frequency was measured on a five point scale: almost every day, about once a week, about once a month, less than once a month, and never. The rating for each frequency category was 5, 4, 3, 2, and 1, respectively. Respondents were also asked whether and how often they did each of the activities with people living within two blocks and with people living in the rest of the neighborhood. The frequency index varied between O and 25 (five activities each with a maximum score of 5) for neighboring within two blocks and neighboring in the rest of the neighborhood. The two indices were combined for an index of neighboring in the entire neighborhood. Its range was between 0 and 50. The second index measured variety of neighboring activities. The more activities engaged in, regardless of frequency, the higher the index. Its range was between 0 and 5 within two blocks, between 0 and 5 for the rest of the neighborhood, and between 0 and 10 for the entire neighborhood.

There are few significant differences in neighboring activities. The

Few people live in rented single-family residences, since the proportion of respondents living in this type of housing is almost identical to the percentage of owner-occupancy, 45.7 percent and 40 percent, respectively.

average frequency index within two blocks does not differ significantly between high and low crime neighborhoods, with the exception of one pair. Frequency of neighboring in the rest of the neighborhood, while substantially lower than frequency within two blocks, also has little variation between matched pairs. The only exception is Virginia-Highland, but in this case, the index is higher in the high crime neighborhood. The index for the entire neighborhood is higher in the high crime neighborhood in one pair, equal in another pair, and lower in the high crime neighborhood in the third pair. Given that the maximum value of the index is 25 in the two sub-areas and 50 in the entire neighborhood, the mean neighboring frequency is low in all neighborhoods. There are no differences in the ratio of neighboring frequency in the two sub-areas to neighboring frequency in the entire neighborhood. Similarly, there are no significant differences in the variety of neighboring activities. The mean number of neighboring activities decreases beyond the two block area, but there are no significant differences in either of the sub-areas or the entire neighborhood.

Local facility use was measured by asking the respondent if he/she used any of a series of services potentially available in the neighborhood. These included: grocery stores, restaurants, church, physicians or other medical facilities, clothing stores, auto repair shops, parks or playgrounds, recreational centers, and up to three self-reported items. The respondent was asked whether he or she ever used each of these facilities, and if so, whether it was usually done inside or outside of the neighborhood. A composite score was calculated for each respondent by summing the total number of facilities usually used inside the neighborhood. The range for this index is 0 to 11. The unadjusted means indicate a low level of local facility use in all neighborhoods. In two out of three pairs, local facility use is higher in the high crime neighborhood; there is no significant difference in the third pair. The differences are reduced when sex and age were controlled. The data do not support the notion that local facility use is a source of social ties found in low crime neighborhoods.

Local facility use was also measured by the location of the respondent's workplace. Few respondents work in the neighborhood, and there are no significant differences between matched pairs.

Another source of social ties is organizational membership. Respondents were asked whether they belonged to a church group, PTA or other school association, a trade union or professional association, a political organization, a block or neighborhood association, or a social or recreational group. They were also asked how often they attended meetings of each organization - once a week or more, two or three times a month, once a month, a few times a year, or never - and whether the organization ever met in the neighborhood. Three indices were constructed. One measures the total number of organizations belonged to, the second measures the frequency of participation, and the third measures the number of organizations belonged to that meet in the neighborhood. The first and the third index have potential ranges from 0 to 6, since there

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were six types of organizations. The second has a range from 0 to 24, since attendance in each of the six organizations once a week or more was given a weight of 4, two or three times a month had a weight of 3 and so on. A ratio of neighborhood organizations to total organizations belonged to was also calculated.

The respondents were also asked about children's organizational memberships. These included a church group, a school club, Little League or other sports club, scouts, fraternity or sorority, YMCA or YWCA, and other social or recreational groups. Respondents were also asked whether the groups children belonged to ever met in the neighborhood. Indices were constructed to measure the total number of organizations children in the household belonged to and the number organizations they belonged to that meet in the neighborhood. Each index has a range of 0 to 7.

The results indicate that number of organizations and frequency of attendance are significantly higher in two out of three low crime neighborhoods. These differences remain when age and sex are controlled. This does not hold true in Virginia-Highland, the white pair. Residents of black low crime neighborhoods appear to be more involved in voluntary associations than residents of black high crime neighborhoods, but these groups are not necessarily locally based. While the low crime member in each of the black pairs has somewhat greater local organizational membership than the high crime member, the differences are not significant. Similarly, there are no significant differences in the ratio of neighborhood to total organizations. Finally, there no are significant differences in any of the indices measuring children's organizational memberships.

The last series of measurements of local social ties concerns friends and relatives living in the neighborhood. Respondents were asked how many good friends lived within two blocks of their home and more than two blocks away but in the neighborhood. They were also asked how many out of all their good friends lived in the neighborhood - all, most, about half, only a few, or none. Both types of questions were asked in order to measure absolute numbers of friends in the neighborhood and the proportion of total friends. An analogous set of questions was asked about relatives.

Few of the measures of neighborhood friends distinguish between high and low crime neighborhoods. The mean number of good friends in the entire neighborhood and in both sub-areas is slightly and consistently higher in low crime neighborhoods. However, the only case where the differences are significant is the mean number of good friends within two blocks in Grove Park/Dixie Hills. There are no significant differences in the percentage of residents with most or all of good friends in the neighborhood. In only one pair is there a significant difference in the proportion with three or more good friends in each of the sub-areas. There is no evidence that residents of low crime neighborhoods have a greater number of friendships within two blocks of their home than more than two blocks away. In general, residents of the black, low income neighborhoods have more local freidnships than do residents of the middle income neighborhoods.

Only one of the measures of relatives in the neighborhood differs significantly, and only in one pair. As might be expected, the proportion of respondents with nearby relatives is very low, although higher in the black than in the white neighborhoods. However, having relatives in the neighborhood is not, by and large, a distinguishing characteristic of low crime neighborhoods.

In general, the presence of local ties does not differentiate between high and low crime neighborhoods. Residential stability is the only factor that varies consistently between neighborhoods. This is related in part to the age differences in high and low crime neighborhoods. The greater stability of low crime neighborhoods, as measured by owner-occupancy and years at the current address and in the neighborhood, is also likely to be related to the higher percentage of single-family dwellings in these areas.

### D. Social Cohesion

Three categories of variables were used to measure social cohesion affective attachment to the neighborhood, perceived similarity with neighbors, and information exchange with neighbors. It is expected that residents of low crime neighborhoods will have greater affective attachment, a stronger sense of similarity with others in the neighborhood, and will engage in more information exchange with neighbors than residents of high crime neighborhoods. The results appear in table 17.

Attachment was measured in several ways: percent who are planning on moving within next two years; percent who would be sad about moving; percent who feel the neighborhood has become a better place to live in the last two years; percent who feel the neighborhood will be a better place to live in two years; percent who generally like living in the neighborhood; percent who consider the neighborhood as a real home, not just a place to live; percent who feel their neighborhood is one in which people help each other, rather than going their own way; and percent who feel that residents of the neighborhood have a lot to say about what goes on there, rather than not having much control. Feeling of control in the neighborhood was included as a measure of affective attachment rather than informal social control because it expresses perceptions rather than behavior. The measures of informal social control utilized in this study are more behaviorally oriented (see section E).

The unadjusted means indicate a greater amount of emotional attachment to the neighborhood among residents of low crime areas than among residents of high crime areas. A smaller proportion plan to move within the next two years, and a higher proportion feel that the neighborhood is a real home, that neighbors help one another, and that residents have some control. While the majority of respondents of all six neighborhoods stated they liked living

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	Ur	adjusted		Ad	ljusted <sup>2/</sup>		Un	adjusted		Ac	justea <sup>2/</sup>		Un	adjusted		A	djusted-3/	1
	Lower Vir- ginia High- land (High) x s <sub>x</sub>	Upper Vir- ginia High- land (Low) x s_x s_x	p	Lower Vir- ginia High- land (High) x s <sub>x</sub>	Upper Vir- ginia High- land (Low) x s- x	p	Grove Park (High) x s <sub>x</sub>	Dixie Hills (Low) x s <sub>x</sub>	p	Grove Park (High) x s;	Dixie Hills (Low) x s <sub>x</sub>	p	Mech- anics- ville (High) x s <sub>x</sub>	Pitts- burgh (Low) x s <sub>x</sub>	р	Mech- anics- ville (High) x s- s- x	Pitts- burgh (Low) x s <sub>x</sub>	q
Affective Attachment				-					-	- <u></u>	· · ·		· · ·			· · · · · · · · · · · · · · · · · · ·	· · · · ·	
Proportion Planning on Moving Within																		
Next 2 Years	.372 .056	.241 .049	<.05	.618 .078	.583 .091	NS	.410	. 326	NS	.385 .051	,363 .048	NS	.514	.341	<.01	.514	. 387	ŕ, 05
Proportion Who Would Feel Sad About Moving	. 634	. 775	<.05	.521	. 634	NS	. 337	. 438	NS	. 358	. 400	NS	. 279	. 359	NS	. 290 ñ49	. 343	NS
Proportion Who Feel Neighbor-																		
Gotten Bet ter in Las 2 Years	- t .621 .059	. 657 . 052	NS	.461 .096	. 498 . 108	NS	. 230 . 047	. 133 . 038	NS	.246	.151 .046	NS	.169 .045	.216 .048	NS	.179 .050	. 210 . 048	NS
Proportion Who Feel Neighbor- hood Will		•																
Be Better in Next 2 Years	. 662 . 055	.649 .055	NS	.578	.579 .101	NS	. 290 . 052	.082	<.01	.298 .046	.095 .043	٢.01	.21 .048	.223 .056	NS	. 208 . 054	. 232 . 052	NS
Proportion Who Feel That Neigh borhood is	-	.813		433	593		553	717		570	675		448	656	- 	457	.631	
Real Home	.043	.045	•.01	.074	.088	NS	.049	. 044	10	. 049	.047	NS	. 053	.048	•.01	. 050	. 049	· . 01
Proportion Who Feel People in Neighborho	od	717			CAP		Lho			<b>, , , , , , , , , , , , , , , , , , , </b>	<b>C</b> 20		LOC	Z 14		EQA	¢12	
Help One Another	. 407	. 713	.01	. 360 083	. 640	.01	. 500	. 656	.01	. 517	. 639	NS	506	.615	NS	. 504	.613	NS



Table 17. Social Cohesion in High and Low Crime Neighborhoods $^{1/}$  (continued)

	Un	adjusted		Ad	justed <sup>2/</sup>		Un	adjusted		Ad	justed <u>3</u> /		Una	adjusted
-     	ower Vir- Jinia Ligh- and Ligh) x s x	Upper Vir- ginia High- land (Low) x s <sub>x</sub>	p	Lower Vir- ginia High- land (High) x s_ x	Upper Vir- ginia High- land (Low) x s_x	p	Grove Park (High) x <sup>5</sup> x	Dixie Hills (Low) x s <sub>x</sub>	P	Grove Park (High) x <sup>5</sup> x	Dixie Hills (Low) x \$ 5x	p	Mech- anics- ville (High) x s <sub>x</sub>	Pitts- burgh (Low) x sx
Proportion Who Feel That Residents Have Contro Over What Goes on				•					· · ·					
In Neighbor hood	.420 .053	.684 .051	<.01	.303 .081	.576 .095	<.01	.333 .041	. 427 . 056	NS	.360 .055	.416 .053	NS	. 259 . 044	.389 .058
Proportion Who Like Neighborhood	.795 .047	. 988 . 013	<.01	.706 .051	.876 .061	<.01	. 644 . 045	.731 .042	NS	.664 .048	. 694 . 047	NS	.529 .049	.761 .042
Perceived Sim Tarities with Neighbors	<u>i</u> - ·													
Index of Perceived Similaritie	5.33 .379	6.78 .370	<.01	4.71	5.83 .717	NS	3.29 .439	4.24 .594	NS	3.28 .706	4.11 .487	NS	2.04 .469	2.65 .487
Proportion Stating That Most People in Neighbor hood are Similar		493		225	450		422	· · · ·		443	392		205	378
to Responde	.364 nt .060	. 059	NS	. 089	. 105	NS	. 056	.055	NS	. 057	. 056	NS	.050	. 056
<u>Information</u> Exchange														
Proportion Who Read Neighborhoo Newsletter	3 .929 .035	. 931 . 031	NS	. 855 . 067	.835 .072	NS	N/A4/	N/A4/		N/A4/	N/A4/	`	N/A4/	N/A4
Information Exchange With Neighbors	6.46 .581	5.62 .573	NS	7.50 .843	7.24 1.00	NS	4.83 .539	5.15 .489	NS	4.61 572	5.18 .547	NS	4.88 469	6.12 .493

SOURCE: Household Survey.

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isted		A	djusted <sup>3/</sup>	
ts- rgh ow)	q	Mech- anics- ville (High) x s_ x	Pitts- burgh (Low) x s- x s-	p
.389 .058	<.05	.245 .051	. 385 . 050	NS
.761 .042	<.01	.537 .046	. 735 . 045	<.01
.65 .487	NS	2.14 .487	2.34 .471.	NS
			· · · ·	
.378 .056	<.05	.218 .052	.371 .050	·.05
N/A4/		N/A <sup>4/</sup>	N/A <sup>4/</sup>	, <u>~</u>
5.12 .493	•.05	4.79	6 22 .534	.05

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there, the proportions were higher in low crime neighborhoods. There were no significant differences in the proportions stating the neighborhood had gotten better in the last two years or was expected to improve in the next two years. In general, the level of attachment was highest in the white middle income pair and lowest in the black low income pair. This appears to be a rational reaction to differences in objective living conditions, i.e., housing, quality of services, and the like. However, within matched pairs, residents of low crime areas evidence greater attachment.

The adjusted means suggest that some of these differences are explained by the age composition of low and high crime neighborhoods. Residents of high crime neighborhoods tend to be younger and less residentially stable. They may therefore be less attached to the neighborhood. When age is controlled, the differences between high and low crime neighborhoods diminish. The differences, nevertheless, remain in the expected direction and some are significant.

Perceived similarity with neighbors was measured by asking respondents whether most of the other adults in the area were similar to him/her in age, education, income, child-rearing practices, and maintenance of the house and yard. This series was followed by a question about general perceived similarity with most adults in the neighborhood. The five specific items were combined in an index. A response of "similar" was given a weight of 2, "fiftyfifty" was weighted as 1, and "different" received a weight of 0. The range of the index was 0 to 10. The differences were all in the expected direction, although significance was achieved in only one case. There were no significant differences when age and sex were controlled. The index was lowest in the low income black pair and highest in the middle income white pair. The general measure of perceived similarity varied in the expected direction in two out of three pairs and was significant in one.

Information exchange was measured by the percent who read neighborhood newsletters and an index of information exchange. The index was constructed from questions on how often respondents found about the following things by talking to one another: where to look for a house or apartment, shopping sales, jobs, services such as health care and day care, neighborhood activities such as block parties, unsafe areas in the neighborhood, and who the local troublemakers are. For each of the seven items, "often," "sometimes," "rarely," and "never" received weights of 3, 2, 1, and 0, respectively. The index had a range of 0 to 21.

The index of information exchange did not consistently differ between low and high crime neighborhoods. The difference was in the expected direction only in Pittsburgh/Mechanicsville; there was no significant difference in Dixie Hills/Grove Park, and the difference was opposite to the expected directions in Virginia-Highland. Percent reading neighborhood newsletters was not a good indicator of information exchange, since only Virginia-Highland appeared to have a regularly published paper. Virtually all respondents read it, and there was no difference between the upper and lower half of the neighborhood. This question was not applicable to the other neighborhoods.

The only measure of cohesion that varied consistently between high and low crime neighborhoods was affective attachment. This was partially explained by age differences between neighborhoods. However, differences that remain probably do not account for differences in crime levels. They may, in fact, be a result of living in a high or low crime neighborhood. The greater affective attachment in low crime neighborhods may also be a function of other characteristics of these neighborhoods, such as more home ownership and residential stability and fewer multi-family dwellings. This interpretation is consistent with the relative lack of importance of information exchange and most measures of local ties in distinguishing between high and low crime neighborhoods.

Ε. Informal Social Control

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Informal social control was measured by three sets of variables - movement governing rules, informal surveillance, and direct intervention. The results appear in table 18.

Movement governing rules refer to the practice of avoiding certain areas because they are viewed as unsafe or threatening. Such rules imply familiarity with the neighborhood and are therefore a potential indicator of informal territorial control. Knowing where it is safe to venture and where it is not may be one way to limit the amount of crime in an area. The presence of these rules is expected to be a characteristic of relatively safe neighborhoods. Respondents were asked whether there were certain areas within two blocks of home and in the rest of the neighborhood that they avoided because they believed them to be dangerous. They were also asked whether each of seven locations was avoided: sidewalks in front of the house, a nearby street corner, a nearby park, a nearby shopping center, a public housing project, an apartment complex, or some other location in the neighborhood.

The results suggest that a slightly higher percentage of residents of high crime areas avoid areas within two blocks of home, in the rest of the neighborhood, and in both sub-areas than do residents of low crime areas. The differences are usually not significant but tend to be consistently higher in high crime areas. This pattern is also found for the total number of areas avoided. There is a tendency for residents of high crime neighborhoods to avoid more neighborhood areas, although when age and sex are controlled, the differences are significant only in Virginia-Highland. Of areas avoided in the entire neighborhood, residents of high crime neighborhoods avoid a slightly higher proportion within two blocks of home than do residents of low crime neighborhoods. This suggests that those living in low crime neighborhoods may feel somewhat more secure in the area immediately surrounding their home. In general, movement governing rules appear to be a response to objectively higher crime levels rather than a strategy for maintaining safety.

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	: · · ·			 	able 18.	Inform	al Social	Control i	n High	and Low Cr	ime Neigh	borhoo	ds <u>1</u> /	· · ·						
	U Lower Vir- ginia High- land (High)	Upper Vir- ginia High- land (Low)	p	Ad Lower Vir- ginia High- land (High)	Upper Vir- ginia High- land (Low)	р	Ur Grove Park (High)	Dixie Hills (Low)	р.	Ac Grove Park (High)	Dixie Hills (Low)	p	Mech- anics- ville (High)	Pitts- burgh (Low)	<b>p</b>	A Mech- anics- ville (High)	Pitts- burgh (Low)	p		<b>1</b>
avamant	x 5- x	x 5- x		x 5 <sub>x</sub>	\$ 5 7	· ·	x s- x	x s_ x		x s- x	x s <del>.</del> x		x s_ x	x s- x	-	x s- x	x s- x			
overning ules	of																			
Responder Avoiding Within 2	nts Areas																	ł	-	
Blocks o Home	f .451 .055	.113 .036	<,01	.410 .073	.074 .086	<.01	.407 .055	. 393 . 052	NS	.382 .054	. 366 . 053	NS	.321 .051	.241 .046	NS	. 315 . 050	.242 .049	NS		
of Respondents Avo Areas 2 (	nd- iding or																			
More Blo Away But Within Ne borhood	cks eigh475 .056	. 430	NS	.261	. 190	NS	. 481	. 476	NS	. 468	. 472	NS	. 378	.305	NS	. 386	. 312	NS		
oportion of Respo	nd-											- -				-				
Areas in Entire Ne borhood	≥igh238 .048	.038	<.01	. 175	.000	<.01	.273 .051	. 241	NS	. 254	. 227	NS	.189	.089	<.01	.176	. 083	NS		
mber of Areas Avoided																				
Within 2 Blocks of Home	f 1.10 .185	.139 .05,?	<.01	.819	.000	<.01	1.10 .184	.966 .161	NS	1.06 .178	.910 .176	NS	1.03 .204	. 634 . 126	< . 05	1.01 .178	.664 .174	NS		
umber of Areas Avoided																				
in Rest o Neighborl	of 1.00 hood .151	. 689 . 122	NS	. 497 . 208	.049 .247	•.05	1.27 .167	1.20 .186	NS	1.19 .195	1.20 .188	NS	.884 .172	. 596 . 131	NS	.876 .170	. 622	NS		

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Lower Vir-Lower Vir-Upper Vir-Upper Virginia High-land (High) ginia High-land ginia High-land Mech-anics-ville ginia Dixie Hills Pitts-burgh (Low) High-land Grove Park (High) Dixie Grove Park (High) Hills (Low) (High) (Low) (Low) Þ (Low) (High) p р р x x x x x x x x x x s≚ sss-x ss-5-X 57 5÷ 5-Number of Areas Avoided in Entire 2.09 Neighborhood .298 1.33 .354 .000 .414 2.34 .307 2.20 .306 2.21 .318 2.16 .311 1.93 .342 1.22 .231 .842 .127 <.01 <.01 NS NŞ Proportion of All Avoided Areas With-.054 .075 .256 .042 . 239 . 035 .221 .040 .227 .041 .174 .036 .318 .047 .090 .033 .283 .064 .246 .041 in 2 Blocks <.01 <.01 NS NS of Home <u>Informal</u> Surveillance Proportion Who Usually Have Someone at Home During the Day .293 .089 .554 .053 .688 .047 .447 .532 .056 .290 .102 .761 .046 <.01 .760 .690 .045 .567 .051 NS NS <.01 . Proportion Who Usually Have Someone at Home During Weeknights .785 .046 .913 .033 .780 .061 .881 .072 .747 .042 .924 .029 .758 .040 .839 ,849 .037 .913 .038 <.01 NS <.01 <.01 Proportion Who Spend Time Outside Around the .586 .049 .300 .051 .350 .050 .210 .082 .222 .096 .368 .049 .430 .050 .389 .054 .434 .052 .484 .060 House NS NS NS NS Everyday Proportion Who Say It Is Easy to Tell a Stranger Within 2 Plocks of .312 .057 .413 .055 .323 .086 .460 .100 .728 .046 .64 .057 .747 .750 .051 ,635 .663 Blocks of NS NS NS NS Home .054 .053

Adjusted<sup>2</sup>

Unadjusted

Table 18. Informal Social Control in High and Low Urime Neighborhoods $\frac{1}{2}$  (continued)

Unadjusted

Adjusted<sup>3</sup>

Unadjusted

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	A	djusted <sup>3/</sup>	
p	Mech- anics- ville (High) x s- x	Pitts- burgh (Low) x s- x	P
:			
<.05	1.90 .302	1.28 ,300	NS
NS	. 225 . 040	.181 .040	NS
NS	.681 .049	.670 .048	NS
:	830	834	
NS .	. 038	.037	NS
NS	. 590 . 055	.485 .053	NS
	-		
NS	.730 .053	.666 .051	NS
		(continue	ed)

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	U	nadjustec	 	Ac	justed <sup>27</sup>		Unadjusted			A	djusted <sup>37</sup>		Unadiusted		
	Lower Vir- ginia High- land (High) x s <sub>x</sub>	Upper Vir- ginia High- land (Low) x \$ \$x	<b>p</b>	Lower Vir- ginia High- land (High) x s;	Upper Vir- ginia High- land (Low) x s:	р	Grove Park (High) x̄ s-	Dixie Hills (Low) x 5-	р	Grove Park (High) x̄	Dixie Hills (Low) x	p	Mech- anics- ville (High) x	Pitts- burgh (Low) x	p
Proportion Wh	10	<u>``</u>	······································		X		X	X	·····	<sup>3</sup> x	<sup>s</sup> x		5 <u>x</u>	s.	
Say It Is Easy to Tell a Stranger in	,  1														
Rest of Neighborhoo	.091 d .035	.089	NS	.116 .050	.142	NS	,105 ,033	.152 .041	NS	. 103	. 155	NS	. 247	. 193	NS
Proportion Wh Say It is Easy to Tell a	I <b>O</b>												.040	. 040	
Stranger in the Entire Neighborhood	.092 d.035	. 089 . 028	NS	.128 .052	.154 .061	NS	. 095 . 036	.154	NS	.093 .041	.153	NS	. 240	. 195	NS
Proportion Who Watch for Suspicious			:										· · ·		
People Withi 2 Blocks of Home	in .512 .046	. 377 . 049	<.05	. 498 . 085	. 321 . 101	NS	. 750 . 041	. 725 . 050	NS	. 749 . 049	. 706	NS	. 765	. 692	NS
Proportion Who Watch for	. :													: .	
Looking People													· · ·		
of Neigh- borhood	.444 .053	. 364 . 057	NS	. 475	. 386 . 102	NS	671 .053	.575	NS	. 687 . 055	. 559	NS	622	. 560	NS
Proportion Who Watch for Suspi-													. 052	. 050	
in Entire Neighborhood	.420 .050	.273 .050	05	437 082	. 264 . 097	NS	. 642 . 051	.570 .050	NS	. 668 . 056	.551 .054	NS	610	. 544	NS

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Mech- anics- ville (High) x s <sub>x</sub> s <sub>x</sub>	Pitts- burgh (Low) x s <sub>x</sub>	p
. 257 . 048	. 206 . 046	NS
.250 .048	.197 .046	NS
.755 .049	. 686 . 048	NS
.607 .055	. 555 . 053	NS
595 .055	535 .053	NS

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				Table	18. Info	rmal So	cial Contro	ol in High	and L	ow Crime Ne	ighborhoo	ds <sup>1/</sup> (	continued)										
	U	nadjuster	I	A	djusted <sup>2/</sup>	<u> </u>	U	nadjusted		Ad	justed <sup>3/</sup>		Un	nadjusted		<i>I</i>	Adjusted <sup>3/</sup>			а. — <sup>н</sup>			
	Lower Vir- ginia High- land (High) x	upper Vir- ginia High- land (Low) x	р.	Lower Vir- ginia High- land (High) x	Upper Vir- ginia High- land (Low) x	n P	Grove Park (High) x	Dixie Hills (Low) x	р	Grove Park (High) x	Dixie Hills (Low) x	р	Mech- anics- ville (High) x	Pitts- burgh (Low) x	p	Mech- anics- ville (High) x	Pitts- burgh (Low) x	p				· · ·	* *
Proportion	s <sub>x</sub>	s- x		5 <del>.</del> X	5		5- x	s <del>.</del>		s <sub>x</sub>	s <sub>x</sub>		5 <u>,</u>	s <del>-</del> x		5 <u>-</u> x	\$ <del>-</del> x						
Who Walk Around Neighborh More than Once a We	ood .707 ek052	. 538 . 052	<.05	.691 .080	.551 .094	NS	. 322 . 054	. 280 . 050	NS	. 303 . 048	. 322 . 047	NS	.678 .051	. 570 . 052	NS	. 676 . 052	. 600 . 050	NS	4 				
Proportion Who Look for Suspiciou People or Activitie on Neighb hood Walk	s s or432 s .059	. 366 . 062	NS	. 499 . 085	. 414 . 102	NS	. 698 . 063	. 689 . 059	NS	. 735 . 064	.679 .060	NS	. 735 . 051	. 757 . 051	NS	. 728 . 054	. 749 . 054	NS					
Proportion Those Who Walk Arou Neighborh More Than Once a We Who Look Suspicion	of ood ek for																						
People or Activitie	.311 s .057	. 211	N5	.319 .077	. 200	NS	. 321	.295 .062	NS	.335 .067	. 305 . 063	NS	.618 .056	.543 .060	NS	.611 .061	.550 .061	NS					
<u>Direct</u> Interventio	<u>n</u>																						
Attitude To Intervent to Help Neighbors	ward ion 3.22 .076	3.45 .068	<.95	3.27 .109	3.45 .128	NS	3.31 .089	3.48 .069	NS	3.32 .086	3.48 .089	NS	3.61 .063	3.36 .075	•.01	3.64 .084	3.37 .077	. 05					1 
Index of Neighborhoo Problems	d 10.73	5.17	<.01	11.30	6.19 1.10	r.01	8.61	7.14	NS	8.25	7.46	NS	9.49	8.41	NS	9.45	8,63	NS				X	<b>.</b>
			- <b></b>									· · · · · · · · · · · · · · · · · · ·				(	continued	1)				• •	
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	ι	nadjusted		Ac	justed <sup>2/</sup>		Ur	nadjusted		Ac	djusted <u>3</u> ?		ıIJ	nadjusted		<i>µ</i>	djusted <sup>37</sup>	
	Lower Vir- ginia High- land (High) x s	Upper Vir- ginia High- land (Low) x s- x	p	Lower Vir- ginia High- land (High) x s- x s-	Upper Vir- ginia High- land (Low) x s- x	р	Grove Park (High) x s- x	Dixie Hills (Low) x 5x	р	Grove Park (High) x s <sub>x</sub>	Dixie Hills (Low) x s- x	p	Mech- anics- ville (High) x s- x s-	Pitts- burgh (Low) x 5- x	p	Mech- anics- ville (High) x s- x	Pitts- burgh (Low) x̄ s̄x̄	p
Index of Big Neighborhd Problems	g bod 3.23 .384	1.16 .110	<.01	3.48 .428	1.47 .503	<.01	2.80 .227	2.61 .310	NS	2.70 .300	2.67 .276	NS	3.44 .311	3.02 .316	NS	3.37 .334	3.04 .321	NS
Proportion of Big Prob- lems for Which Deal With Perso Responsibl	of It on .113 Ie .026	. 108 . 044	NS	.078 .051	.062 .061	NS	. 074 . 022	. 054 . 016	NS	. 065 . 020	.053 .018	NS	. 090 . 019	.106 .023	NS	. 087 . 022	.109 .021	NS
Proportion o Big Proble for Which Get Togeth With Neighbors	of ems her .097 .029	. 092 . 035	NS	. 053 . 045	. 027 . 054	NS	. 075 . 026	.051 .017	NS	. 076 . 022	.041 .021	NS	. 084 . 032	. 099 . 022	NS	. 073 . 028	.087 .027	NS
Proportion of Big Proble for Which Called the Police	of emş e .099 .022	.063 .027	NS	. 123 . 032	. 090 . 039	NS	.043 .016	.024 .011	NS	. 041 . 014	. 023 . 088	NS	.026 .009	. 028 . 012	NS	.027 .011	.030 .011	NS
Proportion of Big Proble For Which Called Cit Council-	of ems ty											•						
man or Cit Agency	ty .040 .023	.032 .020	NS	.031 .028	.001 .034	NS	.043 .016	.025 .012	NS	.045 .015	.019 .014	NS	.025 011	.007	NS	.027 .008	.009	NS
Proportion o Big Proble For Which Took Some Direct Action	of ems . 451 . 102	. 279 . 101	NS	. 338 . 136	. 108	NS	. 278	. 192	NS	. 272	. 173	NS	. 241	. 300	NS	. 227 052	. 287	NS



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$ \begin{array}{c} \label{eq: 1.6} \mbox{Trial for all label{eq: 1.6} for the label label of 16 the label out of the label products of 1 (201 the c) \\ \hline \begin{tabular}{c} \hline tabular$																									<b>4</b>			
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Unedjected         Adjanché?         Unedjected         Adjanché?         Unedjected         Adjanché?         Unedjected         Adjanché?           Viete         Terre				-	Table	18. Info	ormal Sc	ocial Cont	rol in Hig	h and L	ow Crime N	e i ghborhod	ods <sup>1/</sup> (	continued)		-												
Vir.		U	nadjustec Upper	1	A Lower	djusted <sup>27</sup> Upper			Jnadjusted		A	djusted <u>3</u> /		U	nadjusted	-		djusted <u>3</u> /										
Mandher of Distance Distance Termson in the specification The specification The specification Termson in Termson in T		Vir- ginia High- land (High) x s. x	Vir- ginia High- land (Low) x s- x	р	Vir- ginia High- land (High) x s <sub>x</sub>	Vir- ginia High- land (Low) x s_ x	p	Grove Park (High) x s_x	Dixie Hills (Low) \$ \$ x	р	Grove Park (High) x s-x	Dixie Hills (Low) x s x	.p	Mech- anics- ville (High) x s	Pitts- burgh (Low) x 5- x	р	Mech- anics- ville (High) x s- x	Pitts- burgh (Low) x s <sub>x</sub>	p .	3						, , ,	¥	
province data data data data data data data dat	umber of Disturb- ances Seen	1										-	1				-											
Propertion of 15 turn- nets for high 0, 157 1042 <01 158 050 <01 102 102 102 108 N5 003 022 N5 002 022 N5 004 022 102 002 N5 004 023 N5 0 104 000 022 005 005 005 005 005 005 005 005	or Heard i Neighborho in Last Year	n od 2.50 .183	1.67	<.01	2.59	1.87	۰.01	2.91 .14	2.49	<.05	2.81	2.55 .159	NS	2.92 .198	2.93 .166	NS	2.97 .172	3.03	NS									
<pre>Meighan 033 020 &lt;01 005 000 000 000 000 000 000 000 000 0</pre>	roportion of Disturb ances for Which	)-		7	160	061		07			072	095	•	002	000		094	003						<b>-</b> .				
Distributions Called L. 195 0.062 (JS 1.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02	Neighbor roportion o	. 157 . 033	. 042	, <.01	. 043	. 050	, <.01	, 020	.023	NS	. 024	.022	NS	. 022	.023	NS	. 024	.022	NS									I
Proportion of Disturbances for Which Wine Asson 459 .221 .05 .335 .104 .05 .330 .218 ws .302 .249 ws .250 .333 Ns .256 .370 Ns Disc Action .072 .061 .061 .118 for used since directionality in proportionate differences was hypothesized. Adjusted for age, use and reas. Adjusted for age and ass. SUURCE: Household survey.	Disturbanc for Which Called the Police	es . 159 . 032	. 064	۰.05 <b>۲</b>	. 154	. 075	NS	.05	1.039	NS	.049	.040 .022	NS	.061	.087 .022	NS	. 058 . 023	.087 .021	NS	- - -								
<sup>1/</sup> One-tailed rather than two-tailed tests of significance were used since directionality in proportionale differences was hypothesized. <sup>2/</sup> Adjusted for age and sex. SURCE: Household survey.	roportion o Disturbanc for Which look Some Direct Act	of es .458 .100 .072	. 22	L <.05	. 395	.184	3 <.05	. 33	0.218	NS	. 302	. 249	NS	. 250	. 353	NS	. 256	. 370	NS				1					
<sup>3</sup> /Adjusted for age and sex. SOURCE: Household survey.	1∕0ne-t 2∕Adjus	ailed ra	ther than age, sex	n two-ta and rad	ailed tests ce.	of signi	ificance	e were use	d since di	rection	ality in p	roportiona	ate di	ferences w	as hypothe	sized.		· .			•							
	<sup>3∕</sup> Adjus OURCE: Hou	ted for sehold s	age and s urvey.	Sex.															1	- - -								
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This appears to be the case for a number of measures of informal surveillance, as well. Several forms of informal surveillance were measured. The most passive form was the extent to which residents spent time in and around the house, providing an opportunity to observe activities on the street. Respondents were asked whether someone in the household was usually at home during weekdays, whether someone was usually at home on weeknights, and how often he/she spent time sitting on the porch, working in the yard, or the like. There were no differences in time spent outside the house. The low crime neighborhood had a higher proportion of households with someone at home during the daytime and evening in only one pair, Grove Park/Dixie Hills. A similar pattern is found in Virginia-Highland, but appears to be explained by the younger average age in Lower Virginia-Highland.

In two out of three pairs, a higher proportion of residents in low crime neighborhoods than in high crime neighborhoods were able to tell strangers from residents within two blocks of home, in the rest of the neighborhood, and in both sub-areas. However, the differences were not significant. In general, a higher proportion of respondents were able to tell strangers from rc idents within two blocks than in the rest of the neighborhood.

The most active form of informal surveillance is watching out for suspicious looking people or activities in the neighborhod. Respondents were asked if they made a habit of watching out for suspicious people within two blocks of home and in the rest of the neighborhood. They were also asked how often they walked around the neighborhood and whether they made a point of looking out for suspicious people or activities on these walks. A higher proportion of residents engaged in this form of surveillance in high crime than in low crime neighborhoods. The differences were usually not significant, but there was a trend in this direction. Thus, active surveillance, similar to movement governing rules, did not seem to inhibit crime but rather appeared to be an attempt to protect oneself in a high crime area.

The third type of informal social control is intervention. Both expected and actual intervention were measured. The former was measured by asking respondents whether they agreed or disagreed that neighbors should scold neighborhood children for fighting, keep an eye out for suspicious people or events, call the police if a neighbor's house is being vandalized, and use physical force to assist a neighbor who is being mugged. It could be argued that expectations for personal intervention should be higher in low crime than in high crime neighborhoods, that crime is allowed to flourish in the latter because of the residents' passivity. These expectations were not substantiated by the evidence. An index of expected intervention was developed which ranged from 0 to 4 (1 for each of four types of expected intervention). On average, residents of all neighborhoods thought their neighbors should intervene in more than three out of four situations. However, the means were not significantly higher in low crime areas after age and sex were controlled, and in one case, were significantly higher in the high crime area. Two other measures of intervention concern direct action in dealing with neighborhood problems. Respondents were asked about two types of problems, those that relate to the quality of the neighborhood environment and those that are more directly connected to crime. The first reflects signs of disorder or cues that norms governing public behavior are disintegrating. Hunter (1978) has dubbed these environmental conditions as "incivilities." Skogan and Maxfield (1980) suggest that signs of disorder play as much a role in fear of crime as does actual crime. Respondents were asked whether each of the following was a big problem, somewhat of a problem, or not a problem in their neighborhood:

	a.	Noisy neighbors; have noisy quarr
	b.	Dogs barking lou
	c.	People not dispo the area
	<b>d.</b>	Poor care of pro
	e.	Peole who say in the street
	f.	Landlords who do
	g.	Purse snatching
	h.	Presence of drug
	i. '	Abandoned houses
	j.	Vacant lots with
	k.	People damaging
	1.	People drunk in
	m.	Teenagers hangir
	<b>n.</b>	Prostitutes walk
	ο.	Adult movie thea
	р.	Any other big pr
They	were	then asked wheth

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; people who play loud music, have late parties, or rels

udly or being a nuisance

osing of garbage properly or leaving litter around

operty and lawns

nsulting things or bother people as they walk down

on't care about what happens to the neighborhood

and other street crimes

gs and drug users

s or other empty buildings

h trash and junk

the cars or property of others

public places like streets or playgrounds

ng out on corners or near stores

king the streets or standing on corners

aters or adult bookstores

roblems

ther any of the following direct actions were taken to g problems: dealt directly with the person responsible,

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got together with neighbors, called the police, called their city councilman or a city agency, or took some other direct action.

Two indices were developed to measure the extent of perceived signs of disorder. One was an index of total problems. Big problems were given a weight of 2, somewhat a problem was given a weight of 1; the index varied between 0 and 32. The other was an index of big problems. Big problems were given a weight of 1; the index varied between 0 and 16. The only case in which the indices were significantly higher in high crime neighborhoods was Virginia-Highland. In general, relatively few of the problems were believed to be big, and only about half were perceived to be somewhat of a problem or a big problem. These perceptions did not, for the most part, vary according to neighborhood crime levels.

Approximately one-quarter of the respondents took some form of direct action to deal with big problems. The most common was to deal directly with the person responsible for the problem - landlords, troublesome neighbors, of the like - or getting together with neighbors. The least common were calling the police or a city agency. Thus, to the extent that big problems were addressed at all, they seemed to be handled within the neighborhood. There were no significant differences between matched neighborhoods in specific types of action taken. There was some tendency for residents of high crime neighborhoods to take direct action for a greater proportion of big problems.

The second type of neighborhood problem was more directly related to actual crime. Respondents were asked if they had seen or heard any of the following disturbances in their neighborhood in the last year:

- a. Young people using foul language in the streets
- b. Young people destroying property
- c. Young people fighting
- d. Suspicious people hanging around
- e. Someone trying to break into a house or car
- f. A mugging or purse snatching
- g. Any other kind of trouble

They were also asked whether and what form of direct action was taken when they saw or heard the disturbance.

In two out of three pairs, a greater number of disturbances were seen or heard in the high crime than in the low crime neighborhoods, although only one difference was significant when age and sex were controlled. In this case, Virginia-Highland, the proportion of disturbances for which direct action was taken was greater in the high crime member of the pair. There were no significant differences in direct action in the other pairs.

The evidence suggests that informal social control, as it is measured in this study, is not more prevalent in low crime areas. Where differences exist, movement governing rules, informal surveillance, and intervention are more characteristic of high crime neighborhoods. These behaviors appear to be a reaction to prevailing crime, not a means of inhibiting it.

In general, most measures of diminsions of territoriality did not distinguish between high and low crime neighborhoods. Low crime neighborhoods were found to be more stable than high crime neighborhoods, but these differences were associated with differences in age and housing characteristics. With the exception of stability, there were few significant differences in spatial identity, local ties, social cohesion, and social control. Social control, in fact, appeared to be more characteristic of high crime than of low crime neighborhoods.

### VI. REACTIONS TO CRIME IN HIGH AND LOW CRIME NEIGHBORHOODS

The previous analysis suggests that certain types of informal social control are more characteristic of high crime than of low crime neighborhoods. This appears to be a response to increased danger rather than a means of maintaining safety. It is therefore expected that perceptions and fear of crime should be greater in dangerous areas. Studies have found that perceptions of the seriousness of crime and fear of victimization are positively related to the actual reported crime rate in the neighborhood (McPherson, 1978; Furstenberg, 1971). Several types of crime reactions are measured in the present study: assessment of the amount of crime in the neighborhood; amount of crime in the neighborhood compared to adjacent neighborhoods and the entire city; source of information about neighborhood crime; fearfulness in the neighborhood; worry about being the victim of specific crimes; avoidance behavior; and protection activities. The comparison of differences in crime reactions between matched neighborhoods appears in table 19.

### N. Sources of Information About Neighborhood Crime

Reactions to crime are often stimulated by receiving information about it in the mass media, through neighbors, or simply by personal observation. Respondents were asked whether they received a great deal, some, or no information about crime in their neighborhood from neighborhood newsletters, conversations with neighbors, "just keeping your eyes and ears open," or newspapers, radio, or T.V. For each of these four sources, a weight of two was given for "a great deal" of information, a weight of one was given for "some" information, and a weight of zero was given for no information. A ratio was then calculated for the individual, neighborhood sources (either a newsletter or neighbors), and the mass media as the source of neighborhood crime information compared to total sources. There were no significant differences among any of the pairs in the source of information. In all cases, the mass media was the most important source of information about neighborhood crime.

### B. Assessment of Severity of Neighborhood Crime

Respondents were asked how much crime there was within two blocks of home and in the rest of the neighborhood: a lot, some, only a little, or none. These assessments were, by and large, consistent with neighborhood reported crime levels. A higher proportion of respondents in low crime neighborhoods stated there was little or no crime. The differences were in the expected direction and in the unadjusted proportions were significant in almost every case. Adjustment for sex and age diminished the differences, but the assessment of crime remained consistent with objective levels. It is interesting to note that respondents in all neighborhoods believed there was less crime within two blocks of home than in the rest of the neighborhood. Areas of greatest familiarity may seem less dangerous than those in more remote parts of the neighborhood.

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	U	nadjusted		Ac	ijusted <sup>2/</sup>		Ui	nadjusted		Ad	djusted <u>3</u> /		U	nadjusted	
	Lower Vir- ginia High- land (High)	Upper Vir- ginia High- land (Low)	p	Lower Vir- ginia High- land (High)	Upper Vir- ginia High- land (Low)	p	Grove Park (High)	Dixie Hills (Low)	p	Grove Park (High)	Dixie Hills (Low)	p	Mech- anics- ville (High)	Pitts- burgh (Low)	p
	x s~x	x s- x		x \$- x	x 5- x		× s-x	x s- x		x s- x	x 5-		x s- x	× sž	
Sources o mation / Neighboi Crime Self as Source ( Crime Informa in Ratio Iotal So of Crimu Informa	f Infor- About thood of tion o to burces e .245 tion .017	.219 .017	NS	. 273 . 027	. 255 . 032	NS	. 318 . 018	.335 .018	NS	. 322 . 019	. 341 . 018	NS	. 352 . 013	. 338 . 010	NS
Neighborhd as Sourd of Crima Informa in Ratiu Te Tota Sources Crime Informa	ood ce e tion o l of .351 tion .025	. 378 . 025	NS	. 332 . 037	. 366 . 044	NS	. 206 . 018	. 242 . 016	NS	. 204 . 020	. 245 . 019	NS	. 234 . 016	. 230 . 017	NS
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Mech- anics- ville (High) x 5x	Pitts- burgh (Low) x 5x	р
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.353 .012	.337 .012	NS
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		Una	djusted		A	djusted <sup>2/</sup>		Ur	nadjusted		Ac	ljusted <u>3</u> /		Un	adjusteo		A	djusted <sup>3/</sup>	, ,
	Lower Vir- ginia High- land (High) x s	• • • •	Upper Vir- ginia High- land (Low) x sx	p	Lower Vir- ginia High- land (High) x s <sub>x</sub>	Upper Vir- ginia High- land (Low) x s <sub>x</sub>	p	Grove Park (High) x s <sub>x</sub>	Dixie Hills (Low) x s <sub>x</sub>	p	Grove Park (High) x sx	Dixie Hills (Low) x <sup>5</sup> x	р	Mech- anics- ville (High) x s <sub>x</sub>	Pitts- burgh (Low) x s <sub>x</sub>	p	Mech- anics- ville (High) x sx	Pitts- burgh (Low) x s <sub>x</sub>	p
Assessment of	of				^	<u> </u>		<u> </u>			<u> </u>			<u></u>		1	<u> </u>		
Severity of Neighborho Crime	of ood													-					
Who Say There is								· ·											
Little or No Crime																			
Blocks of Home	.5 .0	45 66	.743 .037	<.01	. 353 . 080	.634 .096	<.01	.657 .048	.541 .049	<.05	.685 .056	.517 .056	<.05	. 545	.662 .049	NS	.540 .060	. 650 . 059	NS
'roportion Who Say There is Only a Little or No Crime																			
in Rest or Neigh- borhood	.1	.86 63	. 353 . 054	<.05	.201 .096	.345 .110	NS	. 200 . 044	. 350 . 064	<.05	.222 .071	.354 .062	NS	. 186 . 063	. 366 . 070	<.05	.191 .068	.361 .070	NS
<pre>'roportion   Who Say   There is   Only a   Little or</pre>	•												• •						
No Crime Entire Neighborhd	in .1 00d .0	67 149	. 328 . 056	<.05	.108	. 251 . 106	NS	.163 .049	. 255 . 058	NS	. 198	. 253 . 057	NS	. 150 . 059	.263 .071	NS	. 156 . 064	. 256 . 066	NS
'roportion Who Say Neighborhd Crime is Committed	ood																		
People Who Live Outs	o .5 ide .0	74 162	.841	1.01	. 490	. 704	•.05	. 355	. 500	. 05	. 359 . 064	. 487	NS	. 394	. 420	NS	. 391	. 428	NS

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Table 19. Reactions to Crime in Low and High Crime Neighborhoods  $\frac{1}{2}$  (continued)

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	Un	adjusted		Ad	justed <sup>2/</sup>		Un	adjusted		Ac	djusted <u>3</u> /		Un	adjusted		Ą	djusted <u>3</u> /	1
- נ ר נ ר נ ר נ ר נ ר נ ר נ ר נ ר נ ר נ	ower Vir- Jinia High- Land High) X S- x	Upper Vir- gìnia High- land (Low) x s <sub>x</sub>	P	Lower Vir- ginia High- land (High) x s	Upper Vir- ginia High- land (Low) x s- s- x	<b>P</b>	Grove Park (High) x̄. s̄. x̄.	Dixie Hills (Low) x s <sub>x</sub>	p	Grove Park (High) x \$ \$ x	Dixie Hills (Low) x s	P	Mech- anics- ville (High) x s x	Pitts- burgh (Low) x s <sub>x</sub>	р	Mech- anics- ville (High) x s <sub>x</sub>	Pitts- burgh (Low) x s <sub>x</sub>	р
roportion Who Say Border Neighborhood Are Less Safe	ls . 778 . 049	. 957 . 024	<.01	.636 .062	. 789 . 072	NS	.700 .071	. 558 . 064	NS	.671 .079	. 546 . 069	NS	. 455 . 067	.481 .061	NS	.451 .078	. 484 . 069	NS
roportion Who Say Neighborhooc is Safer Tha Rest of Atlanta	1 in . 487 . 062	. 718	<.01	. 428 . 087	. 526 . 102	<.05	. 341 . 046	.461 .047	<.05	. 343 . 055	. 465 . 053	NS	.198 .046	. 270 . 047	NS	.193 .048	. 264 . 046	NS
<u>ear of Naig'</u> <u>borhood C m</u> ear of Neighbor- hood Crime Index	1 <u>e</u> 2.39 .156	2.14	NS	2.29 .246	2.02	NS	2.94 .182	3.06 .159	NS	2.80 .167	3.02 .165	N5	3.39 .178	3.22 .136	NS	3.35 .167	3.18 .163	NS
orry Over Crime Index	4.71 .393	3.89 .312	NS	4.03 .557	3.05 .659	NS	6.26 .507	5.81 .462	NS	5.59 .474	5.80 .465	NS	6.95 .543	6.32 .566	NS	6.75 .526	6.25 .515	NS
voidance and Protection Against Neighborhood Crime	1																	
voidance Index	.506 .087	. 494 . 076	NS	. 508 . 122	. 433 . 145	NS	1.23 .090	1.05 .092	NS	1.19 104	.963 .100	N5	1.21	1.23 .104	NS	1,14 ,09	1.12 .087	NS
rotection Index	2.96 .193	3.04 .159	NS	2.75 302	2.74	NS	3.01	3.73	. 01	3.04	3.74 200	. 05	2.37	2.7 .166	NS	2.40	2.74	N5

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Adjusted for age, sex and <sup>3/</sup>Adjusted for age and sex. SOURCE: Household Survey.





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A higher proportion of residents of low crime than of high crime neighborhoods felt that their neighborhood was safer than the rest of the city. Residents of low crime neighborhoods were also more likely to believe that crimes in the neighborhood were committed mostly by outsiders, although once again, these differences were diminished when sex and age were controlled. While residents of low crime neighborhoods tended to feel that most crime was committed by outsiders, there was no sense of threat from the immediately surrounding area. When age and sex were controlled, there were no significant differences between residents of matched neighborhoods in the proportion feeling that border neighborhoods were less safe. It might be argued that recent events in Atlanta have heightened awareness and fear of crime. A number of the kidnappings and murders of black children

It might be argued that recent events in Atlanta have heightened awareness and fear of crime. A number of the kidnappings and murders of black children had already taken place when the survey was conducted.\* However, the national media coverage and local reaction to the problem (request for Federal assistance in conducting investigations, marches to protest the murders, week-end searches for evidence by neighborhood residents, etc.) was not extensive before or during the field work. That these events were not very salient in the minds of respondents is suggested by the fact that only 12 mentioned kidnapping as one of the crimes taking place within two blocks of home, and 19 mentioned it as one of the crimes in the rest of the neighborhood. When asked what crimes, if any, had increased in the neighborhood over the past two years, kidnapping was mentioned only twice. While this crime probably would not have even been thought of a year ago, recent events appear to have had only a minor impact on people's perceptions of the types of crimes that are most problematic in their neighborhood. Burglary was by far the most frequent response for crimes within two blocks, in the rest of the neighborhood, and increasing in the neighborhood.

### C. Fear of Neighborhood Crime

There were two measures of fear of neighborhood crime. One measure taps a sense of threat or lack of security. The second measures worry about being the victim of a specific crime. The first measure was constructed by asking respondents whether each of the following statements was mostly true or mostly false:

a. I'm often a little wo neighborhood.
b. I would probably be a neighborhood to ask for
c. I'm not as afraid for in this neighborhood.

(B)

Most of the interviews were obtained in August and September 1980.

a. I'm often a little worried about being the victim of a crime in my

b. I would probably be afraid if a stranger stopped me at night in my neighborhood to ask for directions.

c. I'm not as afraid for my own safety as I am for my family and friends in this neighborhood.

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- d. When I have to be away from home for a long time, I worry that someone might try to break in.
- When I hear footsteps behind me at night in my neighborhood, it e. makes me feel uneasy.

A fear index was calculated by giving a weight of one to each response of "mostly true." The index had a potential range of 0 to 5.

The worry index focused on specific fear rather than the vague concerns expressed in the fear measure. Respondents were asked whether they were very worried, somewhat worried, just a little worried, or not at all worried about: their home being broken into when no one was at home, being held up on the street or beaten up within two blocks of home and in the rest of the neighborhood, and other household members being held up, or beaten up within two blocks of home and in the rest of the neighborhood. "Very worried," "somewhat worried," "just a little worried," and "not at all worried" were given weights of 3, 2, 1, and 0, respectively. The index ranged from 0 to 15.

There were no significant differences between members of any of the matched pairs in either the fear or the worry index. Residents of black neighborhoods tended to be more fearful and worried about crime than residents of white neighborhoods, but there were no significant differences between high and low crime neighborhoods. Residents were able to accurately assess the amount of crime in their neighborhood, but this perception evidently was not translated into significantly greater fear or worry.

### D. Avoidance of and Protection Against Neighborhood Crime

The same was true of behavior engaged in to avoid crime or to protect one's home. Respondents were asked whether in the last year they had done any of the following to avoid crime in the neighborhood: avoided using public transportation in the neighborhood, stayed in at night, or arranged to go with someone when going somewhere in the neighborhood. The avoidance index ranged from 0 to 3.

Respondents were also asked whether they had ever done any of the following things for protection while living at their present residence:

had a neighbor pick up your mail and newspapers while you were away а.

had a neighbor keep a watch on your home while you were away b.

engraved identification on valuables С.

d. installed a burglar alarm in your home

e.	taken other so putting bars o	e
f.	kept a watch	r

- kept a watch dog
- taken a course in self-defense h.

joined a program going on in the neighborhood to prevent or reduce i. crime, such as Neighborhood Watch, Citizen Alert, Block Parent, Business Watch, or a citizen patrol

An index of protection was calculated and ranged from 0 to 9. The most common forms of protection were having a neighbor keep a watch on the home (71 percent of respondents) and employing security measures such as timers, bars, and lights (55 percent). The least common forms were installing a burglar alarm (5 percent) and joining a neighborhood crime prevention program (7 percent). It might also be noted that 49 percent of the sample reported keeping guns and other weapons at home.

There were no significant differences in the avoidance index among any of the neighborhood pairs. While residents of high crime neighborhoods were aware of the greater relative dangers, they did not engage in significantly more avoidance behavior than residents of low crime neighborhoods. In general, residents of black neighborhoods engaged in more avoidance than residents of white neighborhoods.

There was a significant difference in the protection index in only one out of three pairs, Grove Park/Dixie Hills. Protection can function either to maintain safety or as a response to high levels of crime. In the case where the difference was significant, the index was higher in the low crime neighborhood. In the other two cases, it was also slightly higher in the low crime neighborhoods. However, the differences in these cases were not very large. Similar to avoidance, residents of high crime neighborhoods appeared to be aware of the dangers but did not attempt to protect their homes to any greater extent - in fact to a slightly lesser extent - than residents of low crime neighborhoods.

These inconsistencies between awareness of the amount of crime in the neighborhood, on the one hand, and affective and behavioral responses to crime, on the other stimulated an interest in the explanation of each of the reactions to crime. Relative level of neighborhood crime appeared to be an important predictor of the assessment of the amount of crime but seemed to have little effect on fear, protection, or avoidance. Apparently, factors other than objective crime levels determine these reactions. The following analysis examines the ability of six models to predict reactions to crime.

ecurity measures, such as using timers on your lights, on your windows, or adding new locks

kept a gun or other weapon at home

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### E. Prediction of Reactions to Crime

Five reactions to crime constitute the dependent variables in this analysis: percent stating there is little or no crime in the reighborhood and the indices of fear, worry about being the victim of a specific crime, avoidance, and protection.

The six predictor models used in this analysis were derived from the conceptual model of neighborhood safety presented in section II. The model hypothesizes that objective physical and social characteristics, local ties, social cohesion, informal social control, and objective level of crime all influence subjective reactions to neighborhood crime. Each of these sets of factors constitutes a separate model in this analysis. In addition, there is a sixth model which concerns the effect of perceptions of neighborhood problems on crime reactions. Skogan and Maxfield (1980) found that awareness of signs of disorder in the neighborhood were as important in predicting fear as assessment of the severity of actual crimes.

Regression equations are presented for each of the six models (e.g., local ties, social cohesion) and for each of the five reactions to crime. Each equation includes the unadjusted and adjusted R<sup>2</sup> and the regression coefficient and F test of significance for each independent variable. The F statistic also indicates the relative importance of each independent variable in explaining the variance of the dependent variable. The significant independent variables from each model are entered into an overall "best predictor" regression equation. The six neighborhoods are combined in this analysis. Regression equations for each of the three neighborhood pairs appear in appendix B. However, in the interest of simplicity, the discussion focuses on the combined sample.

The variables age, race and sex were entered into all equations to control for their influence. A dummy variable indicating whether the respondent lived in the high or low crime member of the neighborhood pairs was also included to control for the objective level of neighborhood crime.\*

Income, however, was not included in the models since 155 out of 523 total respondents (29.6 percent) refused to provide this information. Furthermore, those who refused to provide income information differed significantly on several important variables from those who responded. For example, 11 percent of the whites in the sample refused to provide income information, compared to 38 percent of the blacks. Similarly, 38 percent of those with a high school education or less refused to give income data, while 12 percent of those with more than a high school education refused to give this information. Those that reported income also differed significantly from those who did not on the dependent variables of avoidance and protection. Those who refused to respond were more likely to avoid (i.e., stay in at night, avoid using public transportation in the neighborhood, and arrange to have someone accompany them when out in the neighborhood) and less likely to engage in protection behavior than those who responded. Because of the differences in race, education, and two of the dependent variables between respondents and nonrespondents on the income question and the large number of missing values, the inclusion of this variable in the equations would be likely to yield biased results.

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Table 20 presents the simple correlations between the various reactions to crime. The highest correlation is between fear of crime and worry over crime (0.59). There is also a moderately strong relationship between both fear of and worry over crime and the neighborhood avoidance index (0.40). The protection index and the perception of little or no crime in the neighborhood, however, are weakly related to the other dependent variables. These data suggest that the fear of and worry over crime lead to the avoidance behaviors, but not necessarily to the adoption of protection strategies. This is similar to the findings of Cohn, et al. (1978) that there is a positive relationship between fear and avoidance, but not between fear and protection. The data also suggest that there is only a weak relationship between the perception of crime in the neighborhood and the fear and worry over crime. The subsequent analysis should help to explain these results.

1. Objective crime model. The objective crime model includes three measures of crime - high/low crime neighborhood, reported index crimes per 100 dwelling units on the respondent's block, and whether or not the respondent or a household member had been victimized in the last year. Interaction terms between neighborhood crime and block crime, neighborhood crime and victimization, block crime and victimization, and the interaction between all three crime measures are also included in the model. In general, table 21 indicates that there is no significant relationship between block and neighborhood crime and the reactions to crime. Age, race, sex, and victimization exhibit the strongest relationship to the reactions to crime. Considering specific reactions, the fear of neighborhood crime is significantly greater among females, blacks and those victimized during the last year. Worry over crime was significantly greater among the young, and as with fear, among females, blacks and those victimized during the last year. Avoidance was more prevalent among the elderly, and among females and blacks. Protection, however, was not significantly related to either demographic variables or objective crime levels. Finally, the perception of little or no crime in the neighborhood is significantly greater among whites and among those who have not been victimized. The measures of block and neighborhood crime levels and the interaction terms were not significantly related to any of the reactions to crime. The R<sup>-</sup>s for the total models predicting fear, worry, avoidance and perception of little or no crime are significant at the .01 level. They range between a low of .052 for the perception of little or no crime and .226 for avoidance.

These findings suggest that people in high crime areas not only do not show increased levels of fear and worry, but they also do not take extra precautions to protect themselves from crime. Furthermore, these data indicate that those who have been recently victimized worry about and fear crime more, yet they have not been found to take actions to either avoid crime or protect themselves more than those who have not been victimized.

2. <u>Ecological model</u>. The variables included in the ecological model are the percent of commercial properties in the respondent's block, the presence of a major thoroughfare in the block, the percent of properties in the block

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	Fear of Neigh- borhood Crime Index	Worry Over Crime Index	Avoidance 'Index	Protection Index	% Stating There is Little or No Crime in Neighborhood
Fear of Neighborhood Crime Index	1.00	0.59 (.001)	0.40 (.001)	0.09 (.038)	-0.11 (.012)
Worry Over Crime Index		1.00	0.40 (.001)	0.10 (.029)	-0.13 (.004)
Avoidance Index			1.00	0.07 (.092)	-0.08 (.055)
Protection Index				1.00	0.03 (.469)
% Stating There is Little or no Crime In Neighborhood	2				1.00

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## Table 20. Pearson Product-Moment Correlations Among Reactions to Crime $^{1/}$

 $\frac{1}{N}$  Numbers in parentheses are significance levels.

SOURCE: Household Survey - combined neighborhoods.

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······································	V	V <sub>2</sub>	V <sub>3</sub>	v <sub>4</sub>	v <sub>5</sub>	٧ <sub>6</sub>	V <sub>7</sub>	v <sub>8</sub>	٧ <sub>9</sub>	v <sub>10</sub>	R <sup>2</sup>
Reactions to Crime	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	} (F)	
Fear of Neighbor- hood Crime Index	003 (0.51)	535 (14.96)**	.872 (33.87)**	.003 (0.31)	299 (0.79)	.016 (2.08)	.597 (6.00)*	007 (0.50)	087 (0.05)	004 (0.07)	.114*
Worry Over Crime Index	055 (25.97)**	-1,49 (14.52 <u>)</u> **	2.11 (25.71)**	.018 (1,40)	480 (0.43)	.029 (0.79)	1.68 (5.03)*	048 (295)	-0.35 (0.00)	.024 (0.27)	.14!*
Avoidance Index	.007 (10.69)**	562 (54.47)**	.574 (50.03)**	001 (0.07)	049 (0.12)	.003 (0.26)	.187 (1.99)	005 (0.91)	150 (0.48)	.016 (3.28)	. 226*
Protection Index	.004 (0.75)	.157 (0.96)	024 (0.02)	004 (0.35)	560 (3.49)	.004 (0.08)	243 (0.74)	.015 (1.74)	.612 (1.80)	-0.18 (0.93)	. 022
People Who Say There is Little or No Crime in Entire Neighborhood	.0001 (0.02)	.055 (3.22)	103 (9.82)**	002 (1.78)	108 (3.52)	.001 (0.07)	118 (4.82)*	.003 (1.34)	. 106 (1.47)	003 (0.61)	. 052*

Table 21. Objective Crime Model

 $\begin{array}{l} v_1 &= & \mbox{age of respondent.} \\ v_2 &= & \mbox{sex (male).} \\ v_3 &= & \mbox{race (black).} \\ v_4 &= & \mbox{total crimes per 100 residential units in respondent's block.} \\ v_5 &= & \mbox{high crime neighborhoods.} \\ v_6 &= & \mbox{interaction between V}_4 \mbox{ and V}_5 \\ v_7 &= & \mbox{victim of any crime in last year (respondent or household member).} \\ v_8 &= & \mbox{interaction between V}_4 \mbox{ and V}_7 \\ v_9 &= & \mbox{interaction between V}_4 \mbox{ and V}_7 \\ v_10^{-1} &= & \mbox{interaction between V}_4 \mbox{, V}_5 \mbox{ and V}_7 \\ v_{10} &= & \mbox{interaction between V}_4 \mbox{, V}_5 \mbox{ and V}_7 \\ v_{10} &= & \mbox{interaction between V}_4 \mbox{, V}_5 \mbox{ and V}_7 \\ v_{10} &= & \mbox{interaction between V}_4 \mbox{, V}_5 \mbox{ and V}_7 \\ \end{array}$ 

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\* ≕ p < .05.

\*\* \*\* pr.01.

 $1^{\prime}$  In multiple regression, an adjustment must be made on the squared multiple correlation coefficient in order to correct for the degrees of freedom eliminated in the predicion of the dependent variable. The total number of degrees of freedom equals the number of observations minus the number of constraints placed on the observations. One degree of freedom is eliminated for each independent variable used to predict the independent variable. With each reduction in degrees of freedom the R<sup>2</sup> is increased. If there is a large number of independent variables relative to the number of cases, the R<sup>2</sup> will be misleadingly high. Therefore, it is necessary to adjust for the number of predictors used, according to the formula:

## $\bar{R}^2 = 1 - (1 - R^2) - \frac{N - 1}{N - k - 1}$

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where N = the sample size and k = the number of independent variables in the equation.

SOURCE: Household Survey - Combined Neighborhoods; Crimes in Blocks - Atlanta Bureau of Police Reported Crime Tape.

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containing vacant land, whether 95 percent or more of the block is residential, the percentage of single-family dwellings in the block, and whether or not the respondent lives in a single-family unattached house. Table 22 indicates that age, race and sex show the strongest associations with the reactions to crime. In fact, the pattern of significance for the demographic variables is identical to that found in the previous model. Only two of the ecological variables were significantly related to reactions to crime: the percent of commercial properties on the respondent's block and residence in a single-family unattached house. These data indicate that as the amount of commercial property on the block increases so does the fear of crime among block residents, while those living in single family houses are more likely to have taken precautions against crime. None of the other ecological variables were significantly related to the reactions to crime.

The  $R^2$ s indicate that the models for fear of crime, worry over crime, avoidance and protection are significant at the .01 level, while the model for perception of crime is not. Only a relatively small portion of the variance in reaction to crime, however, is explained by the variables included in the model. The model for avoidance has the highest  $R^2$  at .21.

3. Local ties model. The measures of neighborhood ties included in the model presented in table 23 are the number of years in the neighborhood, the number of good friends in the neighborhood, the frequency of neighborhood in the entire neighborhood, the variety of neighborhood facilities used, the number of voluntary organizations belonged to, and the ratio of membership in neighborhood voluntary organizations to the total number of voluntary organizations to the total number of voluntary organizations to reighborhood ties. Worry over crime is positively associated with both the frequency of neighborhoid and the variety of neighborhood facilities used, while the index of protective actions is positively related to the frequency of neighborhoid and the number of community organizations belonged to.

The positive relationship between both neighboring and the use of neighborhood facilities and worry about crime is opposite to the expected direction. Our conceptual model developed in section II hypothesized that local ties should lead to increased social cohesion and informal control, which in turn should lead to a greater feeling of security. This is implied in Suttles' notion of the defended neighborhood (1972). Instead, however, neighboring and local facility use are found to increase worry over crime. A likely explanation for these results is that neighboring and local facility use make people more aware of the crime being committed in the area. Increased worry may be the result of knowledge attained through neighboring of burglaries, assaults and other crimes. Furthermore, those using local facilities may feel more vulnerable to victimization than those who do not.

Beyond increasing worry, neighboring is also significantly related to the adoption of protection strategies. Those who neighbor more protect more. In



Reactions to Crime	ν <sub>1</sub> β (F)	ν <sub>2</sub> β (F)	ν <sub>3</sub> β (F)	ν <sub>4</sub> β (F)	ν <sub>5</sub> β (F)	ν <sub>6</sub> β (F)	ν <sub>7</sub> β (F)	ν <sub>8</sub> β (F)	ν <sub>9</sub> β (F)	ν <sub>10</sub> β (F)	R <sup>2</sup>
ear of Neighbor <del>-</del> hood Crime Index	004 (0.81)	526 (14.35)**	.873 (28.54)**	2.73 (6.01)*	.155 (1.00)	216 (0.13)	012 (0,00)	-,522 (2.77)	065 (0.15)	178 (1.44)	. 121**
√orry Over Crime Index	060 (29.33)**	-1.48 (13.99)**	1.87 (16.44)**	5.45 (2.91)	. 139 (0. 10)	.740 (0.18)	363 (0.40)	248 (0.08)	081 (0.03)	018 (0.00)	. 125**
Avoidance Index	.006 (8.66)**	545 (50.67)**	.530 (35.42)**	.569 (0.85)	.038 (0.19)	.503 (2.19)	.031 (0.08)	108 (0.39)	086 (0.87)	009 (0.01)	.210**
Protection Index	004 (0.49)	.084 (0.29)	.069 (0.14)	1.61 (1.59)	085 (0.23)	819 (1.37)	.115 (0.25)	.283 (0.62)	.675 (12.62)**	085 (0.25)	.066**
People Who Say There is Little or No Crime in Entire Neighborhood	000) (0.03)	.055 (3.22)	114 (10.12)**	070 (0.08)	018 (0.26)	.066 (0.23)	.001 (0.00)	.097 (1.94)	.019 (0.26)	051 (2.40)	.050
$V_1$ = age of response $V_2$ = sex (male). $V_3$ = race (black $V_4$ = percent of y $V_5$ = major thorow $V_6$ = percent of y $V_7$ = whether or y $V_7$ = whether or y $V_8$ = whether or y $V_9$ = whether or y $V_1$ = high crime y	ondent. ). barcels in ughfare goi narcels wit not respond residential not respond neighborhoo	respondent' ng through hin a block ent's block units in r ent lives in d.	s block wit block. with vacan is 95 perc espondent's n a single	h commerc It land. ent or mo block th family un	ial land o re reside at are sin attached f	use. ntial. ngle fami nouse.	ly dwellir	ıgs.			

Table 22. Ecological Model

\* = p < .05. \*\* = p < .01.

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 $\frac{1}{1n}$  multiple regression, an adjustment must be made on the squared multiple correlation coefficient in order to correct for the degrees of freedom eliminated in the prediction of the dependent variable. The total number of degrees of freedom equals the number of observations minus the number of constraints placed on the observations. One degree of freedom is eliminated for each independent variable used to predict the independent variable. With each reduction in degrees of freedom the R<sup>2</sup> is increased. If there is a large number of independent variables relative to the number of cases, the R<sup>2</sup> will be misleadingly high. Therefore, it is necessary to adjust for the number of predictors used, according to the formula:

# $\bar{R}^2 = 1 - (1 - R^2) \frac{N - 1}{N - K - T}$

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where N  $\tau$  the sample size and k , the number of independent variables in the equation.

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SOURCE: Household Survey - Combined Neighborhoods; Housing Characteristics of Block - PLAN File; Location of Major Thoroughfares - Atlanta Bureau of Planning, Major Thoroughfare PLAN Map.

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### Table 23. Local Ties Model

Reactions to Crime		ν <sub>1</sub> β (F)	ν <sub>2</sub> β (F)	ν <sub>3</sub> β (F)	ν <sub>4</sub> β (F)	ν <sub>5</sub> β (F)	ν <sub>6</sub> β (F)	V <sub>7</sub> β (F)	ν <sub>8</sub> β (F)	ν <sub>9</sub> β (F)	V 10 [} (F)	R <sup>2</sup>	Ē <sup>2</sup>
Fear of Neighbor- hood Crime Index		003 (0.40)	464 (9.66)**	.777 (20.37)**	.090 (0.35)	003 (0.26)	007 (0.97)	.008 (0.64)	092 (3.23)	10 (1.54)	. 256 (1.73)	.095**	. 075
Worry Over Crime Index	. (	-,059 17.30)**	-1.36 (10.16)**	1.71 (12.79)**	,445 (1.09)	.002 (0.01)	.009 (0.20)	.066 (5.09)*	322 (4.92)*	094 (0.17)	.613 (1.21)	. 114**	, 094
Avoidance Index		.008 (8.37)**	514 (38.83)**	.591 (40.32)**	.092 (1.24)	002 (0.25)	007 (2.72)	.008 (1.86)	023 (0.66)	009 (0.04)	.084	. 203**	. 185
Protection Index		.001 (80.0)	.213 (1.87)	005 (0.00)	230 (2.14)	.012 (3.16)	.001 (0.02)	.046 (18.32)**	017 (0.10)	.535 (39.62)**	.118 (0.33)	. 186**	. 168
People Who Say There is Little or No Crime in Entire Neighborhood		.001 (0.68)	.044 (1.73)	106 (7.89)**	064 (3.60)	.0006	.002 (2.19)	.003 (1.48)	007 (0.41)	004 (0.06)	037 (0.72)	.050	. 029

V1 = age of respondent. V2 = sex (male). V3 = race (black). V4 = high crime neighborhood. V5 = years in neighborhood. V5 = number of good friends in neighborhood. V5 = frequency of neighborhood facilities used. V6 = variety of neighborhood facilities used. V9 = number of organizations belonged to. V10 = ratio of neighborhood organization membership to total organization membership.

- \* = p < .05. \*\* = p < .01.

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 $\frac{1}{10}$  In multiple regression, an adjustment must be made on the squared multiple correlation coefficient in order to correct for the degrees of freedom eliminated in the predicion of the degredent variable. The total number of observations minus the number of constraints placed on the observations. One degree of freedom is eliminated for each independent variable used to predict the independent variable. With each reduction in degrees of freedom the R<sup>2</sup> is increased. If there is a large number of independent variables relative to the number of cases, the R<sup>2</sup> will be misleadingly high. Therefore, it is necessary to adjust for the number of predictors used, according to the formula:

 $\bar{R}^2$  1 - (1- $R^2$ )  $\frac{N-1}{N-k-T}$ 

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where N  $\tau$  the sample size and k  $\tau$  the number of independent variables in the equation.

SOURCE: Household Survey - Combined Neighborhoods.



addition, those belonging to greater numbers of community organizations also protect more. In general, then, more contact with other members of the community appears to precipitate both increased worry and increased protective action.

The  $R^2$ s reveal that the total models for fear of crime, worry over crime, avoidance and protection are significant at the .01 level and that they explain between .095 and .203 percent of the variance.

4. <u>Social cohesion model</u>. The measures of social cohesion included in the model are whether the respondent feels a sense of control over what goes on in the neighborhood, whether the respondent feels the neighborhood is a real home, the index of information exchange with neighbors, the degree to which information about crime is obtained from neighbors rather than other sources, and whether the respondent feels similar to or different from others in the neighborhood. In general, the data in table 24 indicate that social cohesion appears to play a large role in reactions to crime. In particular, the amount of information exchanged with neighbors is significantly related to four of the five dependent variables.

The fear of neighborhood crime is negatively related to both a feeling of control over neighborhood activities and a feeling that the neighborhood is a real home and is positively related to information exchange with neighbors. Similarly, worry over crime is negatively related to a feeling of control and positively related to information exchange. Thus, a feeling of control over neighborhood events appears to lessen both the fear of and worry over crime, while information exchange with neighbors appears to increase fear and worry. It is surprising that sense of control in the neighborhood would have an opposite effect on fear and worry over crime as information exchange with neighbors, since both independent variables can be viewed as measures of social cohesion. However, their zero-order correlation is only a weak .18.

Avoidance was also positively associated with information exchange. Those who exchange information with neighbors appear more likely to stay in at night, not to use public transit in the neighborhood, and to have someone accompany them when they are out in the neighborhood. This is probably due to higher levels of fear among this group of people.

Finally, the adoption of protection strategies is positively related to feelings that the neighborhood is \_\_\_\_\_\_ home, the exchange of information with neighbors, the neighborhood as a source of information about crime and perceived similarity of self with neighbors. The positive relation between protection and both perception of the neighborhood as a real home and perceived similarity suggests a stake in the residence and the neighborhood in which it is located that may motivate protection activities. Information exchange with neighbors may be a source of suggestions for what others in the area are doing to protect their homes.

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### Table 24. Social Cohesion Model

Reactions to Crime	ν <sub>1</sub> β (F)	ν <sub>2</sub> β (F)	V <sub>3</sub> β (F)	ν <sub>4</sub> β (F)	ν <sub>5</sub> β (F)	ν <sub>6</sub> β (F)	ν <sub>7</sub> β (F)	V <sub>8</sub> ,β (F)	ν <sub>9</sub> β (F)	R <sup>2</sup>	₹ <sup>2</sup>
Fear of Neighbor- hood Crime Index	.0003 (.008)	515 (29.36)**	.671 (35.14)**	094 (0.45)	594 (15.90)*	448 * (7.96)*	.035 * (5.23)*	214 (0.27)	.003 (1.36)	. 147**	. 130
Worry Over Crime Index	045 (14.59)**	-1.35 (11.68)**	1,78 (15.06)**	.123 (0.09)	-1.08 (6.56)*	603 (1.77)	.178 (17.16)**	. 221 (0, 04)	.009 (0.01)	158**	. 142
Avoidance Index	.006 (7.89)**	492 (39.49)**	.534 (34.78)**	.122 (2.40)	091 (1.18)	054 (0.36)	.021 (6.25)*	016 (0.00)	016 (1.02)	. 205**	. 190
Protection Index	.005	.227 (2.21)	. 382 (4,72)*	131 (0.72)	.235 (2.04)	.654 (13.82)*	.069 *(17.07)**	1.17 (6.73)*	.067 (4.56)*	.170**	. 154
People Who Say There is Little or No Crime in Entire Neighborhood	0001 (0.02)	.070 (4.69)*	077 (4.30)*	066 (4.09)*	.020 (0.35)	.074 (3.99)*	0007 (0.04)	.025 (0.07)	.004 (0.38)	. 055**	. 037
$V_1$ = age of resp $V_1$ = sex (male). $V_3$ = race (black $V_4$ = high crime $V_5$ = those who f $V_6$ = those who f $V_6$ = information $V_7$ = neighborhoo $V_9$ = index of pe	ondent. ). neighborhoo eel that re eel neighbo exchange w d source of rceived sim	d. sidents hav rhood is re ith neighbo crime info ilarities.	e control c al home. rs. rmation in	over what ratio to	goes on i total sou	n neighbor rce of cr	rhood. ime informa	ation.			

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\* = p · .05. \*\* = p · .01.

 $\frac{1}{10}$  In multiple regression, an adjustment must be made on the squared multiple correlation coefficient in order to correct for the degrees of freedom eliminated in the prediction of the dependent variable. The total number of degrees of freedom equals the number of observations minus the number of constraints placed on the observations. One degree of freedom is eliminated for each independent variable used to predict the independent variable. With each reduction in degrees of freedom the R<sup>2</sup> is increased. If there is a large number of independent variable relative to the number of cases, the R<sup>2</sup> will be misleadingly high. Therefore, it is necessary to adjust for the number of predictors used, according to the formula:

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 $\bar{R}^2$  1 - (1- $R^2$ )  $\frac{N-1}{N-k-1}$ 

where N = the sample size and k = the number of independent variables in the equation SOURCE: Household Survey - Combined Neighborhoods.



The perception of little or no crime in the neighborhood was negatively associated with whether the neighborhood was categorized high crime and positively associated with a feeling that the neighborhood is a real home.

The  $R^2$ s for the total models indicate that all are significant at the .01 level. The range of variance explained varies from .055 percent for the perceived crime model to .205 percent for the avoidance model.

5. Social control model. The measures of social control included in the model are whether respondents watch for suspicious looking people in the neighborhood, whether respondents say it is easy to tell a stranger in the neighborhood, the number of areas avoided in the neighborhood, the percentage of big neighborhood problems that they took direct action on, and the number of disturbances that they took direct action on. In general, the data presented in table 25 indicate that watching for suspicious people in the neighborhood and avoiding areas in the neighborhood are associated with three or more of the dependent variables. More specifically, fear of crime and worry over crime are positively associated with both watching for suspicious people and the number of areas avoided within the neighborhood. The avoidance index avoiding the use of public transit, staying in at night, being accompanied when out in the neighborhood - is positively associated with the number of areas avoided in the neighborhood. Protective actions are negatively associated with high crime neighborhoods and positively associated with watching for suspicious people, the number of areas avoided in the entire neighborhood and the percentage of times direct action was taken when neighborhood disturbances (e.g., vandalism, purse-snatching, break-ins, fights among young people) were observed. Finally, the perception of little or no crime in the area was negatively related both to living in a high crime neighborhood and to being black.

The associations found between watching for suspicious people and avoiding areas in the neighborhood and the dependent variables are opposite to the expected direction. As discussed in chapter II, higher levels of social control were expected to result in less, not more, fear of crime. The most plausible explanation for these associations is that social control is a function of the fear of and worry over crime rather the reverse. These findings are contrary to those implied in Suttles' notion of the defended neighborhood (1972).

The R<sup>2</sup>s for these models range from a low of .074 for the perception of little or no crime to .286 for both the fear of crime and the worry over crime measures. All are significant at the .01 level.

6. <u>Neighborhood problems model</u> The measures of neighborhood problems included in the model are whether respondents felt the neighborhood had gotten better in the last year, the number of big problems (e.g., noisy neighbors, people not disposing of garbage properly, poor care of property) and the number of disturbances seen or heard in the neighborhood within the last year

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### Table 25. Social Control Model

Reactions to Crime	ν <sub>1</sub> β (F)	ν <sub>2</sub> (F)	V <sub>3</sub> β (F)	V <sub>4</sub> β (F)	ν <sub>5</sub> β (F)	۷ <sub>6</sub> (۴)	ν <sub>7</sub> β (F)	V <sub>8</sub> β (F)	ν <sub>g</sub> β (F)	R <sup>2</sup>	<u>R</u> <sup>2</sup> <u>1</u> /	
Fear of Neighbor- hood Crime Index	.004 (0.89)	375 (5.21)*	.492 (7.92)**	121 (0.56)	.720 (19.29)**	358 (2.38)	. 157 (22. 94)**	067 (0.18)	.099 (0.32)	. 246**	. 223	
Worry Over Crime Index	041 (11.22)**	978 (4.75)*	1.39 (8.72)**	.147 (0.11)	1.83 (16.77)**	-1.15 (3.22)	.494 (30.98)**	. 139 (0.10)	354 (0.55)	. 246**	. 223	
Avoidance Index	.008 (11.44)**	485 (20.52)**	.427 (20.68)**	027 (0.10)	. 122 (1.89)	.080 (0.40)	.101 (32.31)**	034 (0:15)	.007 (0.01)	. 286**	. 265	
Protection Index	.017 (11.16)**	.265 (2.11)	197 (1.05)	492 (7.31)**	.395 (4.66)*	258 (0.98)	.083 (5.04)*	.089 (0.25)	.937 (23.26)**	. 159**	. 134	
People Who Say There is Little or No Crime in Entire Neighborhood	0001 (0.01)	.076 (3.64)	103 (6.01)*	107 (7.37)**	.070 (3.13)	.012 (0.05)	011 (1.77)	013 (0.12)	031 (0.53)	. 074**	.046	

V1 = age of respondent. V2 = sex (male). V3 = race (black). V4 = high crime neighborhood. V5 = percent who watch for suspicious people in neighborhood. V5 = percent who say it is easy to tell a stranger in neighborhood. V6 = number of areas avoided in entire neighborhood. V7 = number of areas avoided in entire neighborhood. V8 = percent of big problems for which took some direct action. V9 = percent of disturbances for which took some direct action.

# \* = p < .05. \*\* = p < .01.

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 $\frac{1}{10}$  in multiple regression, an adjustment must be made on the squared multiple correlation coefficient in order to correct for the degrees of freedom eliminated in the prediction of the dependent variable. The total number of degrees of freedom equals the number of observations minus the number of constraints placed on the observations. One degree of freedom is eliminated for each independent variable used to predict the independent variable. With each reduction in degrees of freedom the R<sup>e</sup> is increased. If there is a large number of independent variables relative to the number of cases, the R<sup>e</sup> will be misleadingly high. Therefore, it is necessary to adjust for the number of predictors used, according to the formula:

## $\bar{R}^2 = 1 - (1 - R^2) \frac{N - 1}{N - k - 1}$

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where N = the sample size and k = the number of independent variables in the equation.

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SOURCE: Household Survey - Combined Neighborhoods.



(e.g., purse-snatching, vandalism, fighting). The data in table 26 indicate that both the number of big problems and the number of disturbances seen or heard are significantly related to a number of the reactions to crime. Both the fear of and worry over crime are positively associated with the number of big problems and the number of disturbances seen or heard. The more problems and disturbances, the greater the fear and worry. Thus, both signs of disorder and the witness of unlawful behavior have an independent effect on fear and worry. The effect of the latter is greater than that of the former, according to the F statistic. Avoidance is positively associated with the number of big problems, while protection is negatively associated with the high crime neighborhoods. Finally, the perception of little or no crime in the neighborhood is negatively associated with both high crime neighborhoods and the number of disturbances seen or heard.

These data suggest that many of the reactions to crime are also affected by the perceptions of neighborhood problems which are not specifically criminal in nature. The perception of other neighborhood problems may create an overall negative image of the area leading to increased levels of fear and worry (Skogan and Maxfield, 1980). The strong associations between the number of disturbances seen or heard and the dependent variables suggests that the direct observation of suspicious or criminal activity plays a strong role in the reaction to crime, as well.

The  $R^2$ s of all the models are significant at the .01 level, except that for protection. The significant  $R^2$ s range from .081 for the perception of little or no crime in the neighborhood to .260 for avoidance.

7. The best predictor model. The significant variables from each set of regression equations were combined in a best predictor model for each dependent variable. This has the benefit of controlling for the influence of variables across models and should result in the identification of the most important independent variables. Two variables that are significantly related to several dependent variables have been excluded, however, since they appear to be an expression of fear and worry over crime rather than a cause of these reactions. These variables are watching for suspicious looking people in the neighborhood and the number of areas avoided in the neighborhood.

The results of this analysis are presented in table 28.\* The models are all significant at the .01 level. The fear of neighborhood crime is best predicted by five variables: sex, race, the number of big neighborhood problems, the number of disturbances seen or heard, and sense of control over neighborhood events. These data indicate that women and blacks are more

\* The best predictor models with the two deleted variables included are presented in table 27. However, the discussion will refer to the findings presented in the revised best predictor model in table 28.

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Paactions	V I	V <sub>2</sub>	V <sub>3</sub>	V <sub>4</sub>	V <sub>5</sub>	V <sub>6</sub>	V <sub>7</sub>	R <sup>2</sup>	<u></u> R <sup>2</sup> 1/
to Crime	(F)	(F)	(F)	(F)	(F)	(F)	(F)	·	
Fear of Neighbor- hood Crime Index	.0006 (0.02)	446 (7.55)**	.483 (7.49)**	174 (1.20)	.294 (1.53)	.072 (4.55)*	. 196 (10.27)**	. 159**	. 141
Worry Over Crime Index	039 (9.14)**	-1.40 (8.96)**	1.33 (7.00)**	.038 (.01)	.467 (.46)	.185 (3.90)*	,477 (7,41)**	. 166**	. 149
Avoidance Index	.011 (20.26)**	514 (31.48)**	.414 (17.81)**	.004 (0.00)	, 145 (1,11)	.023 (1.55)	. 141 (16.67)**	. 260**	. 245
Protection Index	.005 (0.80)	.216 (1.24)	117 (0.32)	481 (6.28)*	.261 (0.83)	.041 (1.13)	.033 (0.20)	.032	.012
People Who Say There is Little or No Crime in Entire Neighborhood	001 (0.50)	.082 (3.99)*	098 (4.97)*	101 (6.19)*	.063 (1.08)	007 (0.73)	034 (4.96)*	. 081**	. 062

Table 26. Neighborhood Problems Model

V<sub>1</sub> = age of respondent. V<sub>2</sub> = sex (male). V<sub>3</sub> = race (black). V<sub>4</sub> = high crime neighborhood. V<sub>5</sub> = people who feel neighborhood has gotten better in last years. V<sub>5</sub> = number of big problems. V<sub>7</sub> = number of disturbances seen or heard in neighborhood in last year.

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= p < .05,

\*\* <sup>™</sup> P ≅ p ≤ .01,

 $\frac{1}{1}$  In multiple regression, an adjustment must be made on the squared multiple correlation coefficient in order to correct for the degrees of freedom eliminated in the prediction of the dependent variable. The total number of degrees of freedom equals the number of observations minus the number of constraints placed on the observations. One degree of freedom is eliminated for each independent variable used to predict the independent variable. With each reduction in degrees of freedom the R<sup>2</sup> is increased. If there is a large number of independent variables relative to the number of cases, the R<sup>2</sup> will be misleadingly high. Therefore, it is necessary to adjust for the number of predictors used, according to the formula:

## $\bar{R}^2 = 1 - (1 - R^2) \frac{N - 1}{N - k - 1}$

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where N = the sample size and k = the number of independent variables in the equation.

SOURCE: Household Survey - Combined Neighborhoods.

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## Table 27. Best Prediction Models

\*=p .05 \*\*=p .01

Reactions to Crime		ν <sub>1</sub> β (F)	ν <sub>2</sub> β (F)	ν <sub>3</sub> β (F)	ν <sub>4</sub> β (F)	ν <sub>5</sub> β (F)	ν <sub>6</sub> β (F)	ν <sub>7</sub> β (F)	ν <sub>8</sub> β (F)	ν <sub>g</sub> β (F)	ν <sub>10</sub> β (F)	V <sub>11</sub> β (F)	V <sub>12</sub> β (F)	۷ <sub>13</sub> ب۲ (F)	ν <sub>14</sub> β (F)	ν <sub>15</sub> β	ν <sub>16</sub> β	V <sub>1</sub> β
Fear of Neighborhood Crime Index			434 (8.29)**	.369 (5.05) •	.035 (1.17)	.098 (3.02)	.080 (0.26)	1.37 (1.47)	.514 (11.54)**	.102 (12.03)**	422 {7.30}**	169 (1.11)	009					
Worry Over Crime Index		027 (4.61) •	- 1.11 (6,80)**	.873 (3.37)	.121 (2.04)	.119 (0.55)	.162 (0.14)		1.48 {12.04}••	.489 (36.34)**	841		.095	005	062			
Avoidance Index		.011 (24.51)**	524 {46.09}	.449 (28.21)**		.074 (7.06)**				.098 (42.04) ••			.003	10.027	(0,20)			
Protection Index		.006 (1.33)	.104 {0.32}						.476 (8.47)**	.093 (8.59)**		.684 (13.59)**	.015	.021		144	.356	.54
People Who Say There is Little or No Crime in Entire Neighborhoo	bd		.066 (4.13)*	089 (6.34)*		021 (3.49)	—.033 (0.95)					.052 (2.26)				076	(14.19)**	(9,59

V<sub>1</sub> = age of respondent.

V<sub>2</sub> = sex (male).

 $V_3 = race (black),$ 

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 $V_4 =$  number of big problems in neighborhood.

 $V_5$  = number of disturbances seen or heard in neighborhood in last year.

 $V_6$  = victim of any crime in last year (respondent or household member).

 $V_7$  = percent of parcels in a block with commercial land use.

 $V_8$  = people who watch for suspicious people in neighborhood.

 $V_g$  = number of areas avoided in entire neighborhood.  $V_{10}$  = those who feel that residents have control over what goes on in neighborhood.

 $V_{11}$  = those who feel that neighborhood is real home.

 $V_{12}$  = information exchange with neighbors.

V 12 - information exchange with neighbors. V 13 = frequency of neighboring in entire neighborhood, V 14 = variety of neighborhood facilities used. V 15 = high crime neighborhood. V 16 = number of organizations belonged to.

 $V_{16}$  = number of organizations belonged to:  $V_{17}$  = whether or not a respondent lives in a single-family unattached house.  $V_{18}$  = percent of disturbances for which took some direct action.

 $V_{19}$  - neighborhood source of crime information in ratio to total sources of crime information.  $V_{20}$  - index of perceived similarities.

1/ In multiple regression, an adjustment must be made on the squared multiple co coefficient in order to correct for the degrees of freedom eliminated in the pre of the dependent variable. The total number of degrees of freedom equals the of observations minus the number of constraints placed on the observations. C of freedom is eliminated for each independent variable used to predict the pervariable. With each reduction in degrees of freedom, the  $\mathbf{R}^2$  is increased. If the large number of independent variables relative to the number of cases, the R<sup>2</sup> misleadingly high. Therefore, it is necessary to adjust for the number of predict according to the formula:

## $\overline{R}^2 = 1 - [1 - R^2] \frac{N - 1}{N - k - 1}$

where N = the sample size and  $\mathbf{k}$  = the number of independent variables in the equation.

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Source: Household Survey--Combined Neighborhoods.

ν <sub>18</sub> β (F)	V <sub>19</sub> β (F)	ν <sub>20</sub> β (F)	R <sup>2</sup>	R <sup>2</sup> 1	/
			232**	208	•
				.200	
			303••	.279	
			.305**	.295	
.613 ••{12,53}••	.789 (2,60)	.002 (0.00)	.305**	.279	
			.067**	.055	
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Table 28. Revised Best Prediction Models 1/

• = p < .05

- = p <.01

Reactions to Crime Model	ν <sub>1</sub> β (F)	ν <sub>2</sub> β (F)	ν <sub>3</sub> β (F)	ν <sub>4</sub> β (F)	ν <sub>5</sub> β (F)	ν <sub>6</sub> β (F)	ν <sub>7</sub> β (F)	ν <sub>8</sub> β (F)	ν <sub>9</sub> β (F)	ν <sub>10</sub> β (F)	ν <sub>11</sub> β (F)	ν <sub>12</sub> β (F)	ν <sub>13</sub> β (F)	ν <sub>14</sub> β (F)	ν <sub>15</sub> β (F)
Fear of Neighborhood Crime Index	-	533 (12.99)**	.410 (6.42)*	.069 {4.86}*	.125 (5.19)*	.029 (0.04)	1.02 (0.80)			50 (10.49)**	238 (2.23)	.009 (0.34)	:		
Warry Over Crime Index	036 (7.38)**	-1.30 (8.57)	1.08 (4.66)*	.202 (5.32)	.300 (3,32)	.272 (0.35)				1.07 (5.57)*		.171 (10.90)**	004 (0.02)	-,210 (2.14)	
Avoidance Index	.009 (18,42)**	563 (50.48)	.458 (27.97)**		.131 {22.22}*	•						.009 (1.34)			
Protection Index	.004 (0.64)	.192 (1.41)	.247 (1.89)					.880 (3.25)	.022 (0.40)		,583 (9,94)**	.027 {1.70}	.014 (1.26)		042 (0.07)
People Who Say There is Little or No Crime in Entire Neighborhood		.066 (4.13)*	089 (6.34)*		021 (3.49)	033 (0.95)					.052 (2.26)		,		076 (5.47)

V<sub>1</sub> = age of respondent. V<sub>2</sub> = sex (male)  $V_3^2 = race (black).$  $V_{4}^{3}$  = number of big problems in neighborhood. V5 = number of disturbances seen or heard in last year.  $V_6^{\circ}$  = victim of any crime in last year (respondent or household member).  $V_7$  = percent of parcels with commercial land use.  $V'_{B}$  = neighborhood source of crime information in ratio to total sources of crime information. Vg = index of perceived similarities.  $V_{10}$  = those who feel that residents have control over what goes on in neighborhood.  $V_{11}$  = those who feel that neighborhood is real home.  $V_{12}^{11}$  = information exchange with neighbors.  $V_{13}^{12}$  = frequency of neighboring in entire neighborhood.  $V_{14}^{13}$  = variety of neighborhood facilities used.  $V_{15}^{14}$  = high crime neighborhood. v<sub>15</sub> = nign crime neignbornood. V<sub>16</sub> = number of organizations belonged to. V<sub>17</sub> = whether or not a respondent lives in a single family unattached house. V<sub>18</sub> = percent of disturbances for which took some direct action.

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1/ The independent variables "people who watch for suspicious people in the neighborhood" and "the number of areas avoided in entire neighborhood" were deleted from the revised prediction models.

 2/ In multiple regression, an adjustment must be made on the squared multiple correlation
 coefficient in order to correct for the degrees of freedom eliminated in the prediction of the dependent variable. The total number of degrees of freedom equals the number of observations minus the number of constraints placed on the observations. One degree

of freedom is eliminated for each independent variable used to predict the dependent variable. With each reduction in degrees of freedom, the R<sup>2</sup> is increased. If there is a large number of independent variables relative to the number of cases, the R<sup>2</sup> will be misleadingly high. Therefore, it is necessary to adjust for the number of predictors used, according to the formula:

 $\overline{R}^2 = 1 - [1 - R^2] \frac{N-1}{N-k-1}$ 

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where N  $^{\ast}$  the sample size and k  $^{\ast}$  the number of independent variables in the equation. Source: Household Survey-Combined Neighborhoods.

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V <sub>16</sub>	v <sub>17</sub>	V <sub>18</sub>	R <sup>2</sup>	R <sup>2</sup> <u>2</u> /
β (F)	β (F)	β (F)		
			.173**	.154
			.182**	.166
			233**	774
.367	.490	.648		
15.48)*	•(7.75) • •	(13,51)*	• .251••	.227
			.067	.055

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fearful, as are those who perceive a greater number of neighborhood problems and who have seen or heard a large number of disturbances in the neighborhood. Those who have a greater sense of control over events in the neighborhood are less fearful.

Worry over being victimized by neighborhood crime is best predicted by six independent variables: age, sex, race, the number of big problems, sense of control over neighborhood events, and information exchange with neighbors. Younger people are more worried about crime, as are blacks and females. Those who perceive a large number of neighborhood problems and exchange information with others also worry more about crime, while those who feel a sense of control over neighborhood affairs worry less.

Avoidance behavior is best predicted by age, race, sex and the number of disturbances seen or heard. Older people, blacks, females, and those witnessing neighborhood disturbances are the most likely to avoid going out at night, using public transit, and being out alone.

Protective actions are best predicted by feeling the neighborhood is a real home, the number of voluntary associations belonged to, the frequency of taking direct action when neighborhood disturbances were observed, and residence in a single-family unattached house. Those who felt the neighborhood was a real home, belonged to more neighborhood groups, lived in a single-family house and took action after witnessing neighborhood disturbances engaged in more protection actions. Surprisingly, age, race and sex showed no significant relationship to protective actions when other variables were controlled.

Finally, the perception of little or no crime in the area was best predicted by sex, race, and the crime level of the neighborhood. Males, whites and those in low crime neighborhoods are more likely to perceive little or no crime in their area.

A number of findings from the preceeding analysis warrant further discussion. Of particular interest is the lack of significant relationships between the objective measures of crime and fear of crime, worry about crime, avoidance behavior, and protective actions. In the objective crime model, only victimization had a significant effect on fear of and worry over crime. Yet, even these associations did not appear significant in the best predictor model. Avoidance and protection were not significantly related to any of the objective measures of crime. In short, there does not seem to be a strong relationship between objective crime and either individual concern or protective actions.

Several explanations are offered for this finding. First, those living in relatively high crime areas may not be aware of that fact. The data do indicate, however, a significant relationship between the level of neighborhood crime and the perception of crime. A second explanation is that fear of and worry about crime are results of information provided by city-wide or even nationwide sources such as newspapers and television, not a result of local

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conditions. A third explanation, and the one receiving the greatest support from the data, is that fear and worry over crime are primarily a function of age, race, sex, awareness of disorder in the neighborhood, sense of control over the neighborhood, and information exchange. These findings suggest that perceived vulnerability and information about crime and other neighborhood problems increases fear, while a sense of control inhibits it.

A second somewhat surprising finding is that young people exhibit more worry over crime than the elderly. This contrasts with the bulk of the literature, which suggests a positive relationship between age and fear. Two explanations for this result are suggested. First, older people are likely to spend less time out in the neighborhood than younger people. In fact, older people were found to engage in more avoidance behavior, including staying in at night, avoiding the use of public transit, and having someone accompany them in their trips in the neighborhood. Given that the measure of worry is comprised of questions about burglary and assault, it is not surprising that they worry less. They may simply be acknowledging the fact that they have chosen to avoid situations where they are vulnerable to these crimes. Younger people, on the other hand, are more likely to be out of their homes and out in the neighborhood. It should also be noted that most measures of fear are much less specific than the items comprising the worry index. They usually express a general fear of being out alone at night (Skogan and Maxfield, 1980) or the degree of safety felt when in the neighborhood or the city (Hartnagel, 1979; Taylor, et al., 1979). A second and related explanation is that younger people are more likely to have young children, and their worry is related to a concern for their children's safety. Two of the five questions comprising the worry index ask about concern for other members of the household. This may be an irrelevant issue for older people who do not have children or who live alone.

A third major finding is that social control - as measured by surveillance activity and avoidance of areas in the neighborhood - appears to be a reaction to fear of and worry over crime rather than a product of social cohesion, as suggested in the conceptual model. This is contrary to the notion of the defended neighborhood, which implies that people who are involved in social control should be less fearful of crime.

A fourth finding is that information exchange with others in the neighborhood is positively related to worry over crime in the best prediction model, while neighboring and the use of neighborhood facilities are positively related to worry in the neighborhood ties model. Again these associations are opposite to the expected direction. In general, it appears that the greater the number of contacts in the neighborhood, the greater the worry over crime. This can be explained in two ways. First, a greater number of contacts with others in the neighborhood may make people more aware of crime in the area. An alternative explanation, however, is that a greater number of contacts in the neighborhood necessitates more frequent trips, particularly walking trips, through the neighborhood. These trips may result in a heightened sense of vulnerability, thereby increasing fear and worry over crime.

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A fifth finding is that the adoption of protection strategies is strongly associated with membership in voluntary associations, taking action when neighborhood disturbances are observed, and residence in a single-family dwelling unit. It was not found to be significantly related to any of the objective measures of crime or to victimization. It appears as if the adoption of protection strategies is a function of an action oriented personality, that is, those who become involved in voluntary organizations and otherwise take action on neighborhood problems. Furthermore, those living in single-family dwellings are more likely to feel that their neighborhood is a real home (r = .35). Thus, they appear to have a greater stake in the neighborhood and may also have more to protect. An alternative explanation is that those living in single-family dwellings have more control over what alterations can be made and have a greater incentive for making alterations, such as the addition of better locks on doors and windows.

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A sixth finding is that fear of crime is higher among those living on blocks with a higher percentage of commercial properties. This increased fear appears to be consistent with objective conditions, since crime rates tend to be higher near commercial areas (Dietrick, 1977). This finding is contrary, however, to the mixed land use perspective advocated by Jane Jacobs (1961) and others. A mix of commercial and residential development is thought to encourage more "eyes on the street" and hence a greater sense of security. This notion is not supported by these data. Instead commercial properties may bring outsiders to the area, which apparently increases fear of crime.

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## VII. SUMMARY AND CONCLUSIONS

## narizes the major findings of this study:

## istics of High and Low Crime Neighborhoods

ighborhoods had a significantly lower proportion of roperties and a higher proportion of vacant land than ly similar and physically adjacent low crime neighboralso had a much lower proportion of single-family an low crime neighborhoods.

ighborhoods had significantly more blocks with major and fewer blocks with small neighborhood streets.

crime neighborhoods tended to be more homogeneously while blocks in high crime neighborhoods had more mixed only one pair was there a significant difference in ion of commercial properties. In this case, the low rhood had significantly more blocks with little or no tivity. There were no significant differences in the rhood pairs.

low crime neighborhoods were less likely to be a major less likely to have commercial land use, and more a railroad line than boundaries of high crime neighferences in the crime rate between high and low crime were not attributable to crime differences in boundary

ing high crime neighborhoods were lower in socioeconomic re areas surrounding low crime neighborhoods. Crime , did not differ systematically in areas surrounding w crime neighborhoods.

differences between high and low crime neighborhoods structions to informal surveillance, as measured by cks, street lighting, and visual obstructions.

hborhoods had more private types of parking facilities lots and more driveways - than high crime neighboras consistent with the pattern of greater privacy and lity to outsiders that was promoted by land use patterns, teristics, and boundary characteristics in these

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### Informal Territorial Control in High and Low Crime Neighborhoods Β.

- 8. Measures of spatial identity percent who stated the neighborhood had a name and percent who gave the official name - did not differ significantly between low and high crime neighborhoods. However, residents of low crime neighborhoods included a larger area in their definition of neighborhood boundaries than residents of high crime neighborhoods.
- Residents of low crime neighborhoods were more residentially stable and more likely to own their homes than residents of high crime neighborhoods. Some of these differences were due to the younger mean age of residents of high crime neighborhoods. However, even after age and sex were controlled, residents of low crime neighborhoods tended to be more stable.
- 10. There were no significant differences between high and low crime neighborhoods in household composition, as measured by percent currently married, mean number of adults in the household, percent with children under 18 years old, mean number of children, and ages of children.
- 11. There was no evidence of more local ties in low crime than in high crime neighborhoods. Local ties were measured by frequency and variety of neighboring activities, local facility use, membership in voluntary associations that meet in the neighborhood, children's membership in local voluntary associations, and number of friends and relatives in the neighborhood.
- Social cohesion was measured by affective attachment to the neigh-12. borhood, perceived similarity with neighbors, and information exchange with neighbors. There were no systematic differences in perceived similarity or information exchange. Residents of low crime neighborhoods had greater affective attachment to the neighborhood, as measured by the proportion planning to move in the near future, liking the neighborhood, and feeling that the neighborhood is a real home, that it is a neighborhood where people help one another, and that residents have some control over what goes on in the neighborhood. Some of these differences were attributable to the older mean age of respondents in low crime neighborhoods. Even after age was controlled, however, residents of low crime neighborhoods had a higher level of affective attachment than did residents of high crime neighborhoods.
- 13. Informal social control was defined by movement governing rules, expected and direct intervention, and informal surveillance. Movement governing rules - percent avoiding areas in the neighborhood

and number of areas avoided - were more characteristic of residents of high crime areas than of low crime areas. The differences were usually not significant, but were consistently in that direction. Informal surveillance was measured by amount of time spent in and around the house, ability to distinguish between neighbors and strangers, and watching for suspicious looking people and activities while walking around the neighborhood and during other times spent in the neighborhood. There were no significant differences in amount of time spent in and around the house and in the ability to distinguish between neighbors and strangers. Residents of high crime neighborhoods were slightly more likely to watch for suspicious people while walking or doing other activities in the neighborhood. In most cases, the differences were not significant. Intervention was measured by asking respondents whether they expected neighbors to intervene in problematic situations and whether they had taken direct action to deal with neighborhood problems of various types. There were no significant differences between high and low crime neighborhoods in any of the measures of intervention.

## Reactions to Crime in High and Low Crime Neighborhoods

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14. There were no significant differences in the sources of information about neighborhood crime in high and low crime neighborhoods. The mass media was the most important source in all neighborhoods. Respondents accurately assessed the relative amount of crime in their neighborhood; a higher proportion of residents of low crime than of high crime neighborhoods believed there was little or no crime in their neighborhood and felt their neighborhood was safer than the rest of the city. Levels of fear and protection behavior were not consistent with differences in the assessment of the amount of crime. Residents of high crime neighborhoods were not more fearful, were not more worried about being the victim of specific crimes, did not engage in more avoidance behavior (staying in at night, avoiding public transportation in the neighborhood, arranging accompaniment when going out in the neighborhood), and did not protect their home or belongings to a significantly greater extent than residents of low crime areas.

15. Indices of fear of crime and worry over specific crimes showed very strong correlations with each other and moderately strong relationships with the avoidance index. They showed only weak associations, however, with both the adoption of protection strategies and the perception of the amount of crime in the neighborhood.

16. The fear of crime was greatest among women, blacks, those who perceived a greater number of neighborhood problems, those who had seen or heard a large number of disturbances in the neighborhood, and

those who felt little sense of control over events in the neighborhood. Less important but significant predictors of fear were:\* victimization during the last year, residing in a block with a high proportion of commercial properties, watching for suspicious people in the neighborhood, avoiding areas in the neighborhood, feeling the neighborhood is a real home.

Worry over being the victim of specific crimes was greatest among younger people, blacks, females, those who perceived a large number 17. of neighborhood problems, those who exchanged information with neighbors, and those who felt little sense of control over events in the neighborhood. Less important but significant predictors of worry were: witnessing crime related neighborhood disturbances, victimization, frequency of neighboring, local facility use, watching for suspicious people in the neighborhood, avoiding areas in the neighborhood.

Avoidance behavior was more prevalent among older residents, blacks, women and those who had seen or heard a greater number of crime-related 18. disturbances in the neighborhood. A less important but significant predictor of avoidance was information exchange with neighbors.

- The adoption of protective actions was most prevalent among those who felt their neighborhood was a real home, belonged to a larger 19. number of voluntary associations, lived in a single-family dwelling, and took direct action when neighborhood disturbances were seen. Less important but significant predictors of protection were: being older, being male, watching for suspicious people in the neighborhood, avoiding areas in the neighborhood, exchanging information with neighbors, frequency of neighboring, residence in the low crime member of the neighborhood pairs, obtaining crime information from neighborhood sources, and perception of similarity with other neighborhood residents.
- The perception of little or no crime in the neighborhood was most frequent among males, whites, and those living in the low crime 20. member of the neighborhood pairs. Less important but significant predictors of the perception of little or no crime in the neighborhood were: those seeing fewer disturbances in the neighborhood, those who had not been victimized in the last year, and those who felt the neighborhood was a real home.

This refers to variables that were statistically significant in the individual models but not in the model that combined the best (i.e., significant) predictors from the individual models.

protective actions.

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The results suggest that differences in physical characteristics distinguished between low and high crime neighborhoods to a far greater extent than did differences in informal territorial control. Low crime neighborhoods were more insulated from surrounding areas than were socially similar and adjacent high crime neighborhoods. Relative to high crime neighborhoods, the flow of outsiders into and out of low crime neighborhoods appeared to have been limited by more residential and homogeneous land use, fewer major arteries, and the nature of boundary streets. The data also indicate that low crime neighborhoods were surrounded by areas higher in socioeconomic status than were matched and adjacent high crime neighborhoods. This finding, given the research on the social correlates of crime, suggests that high crime neighborhoods are more proximate to areas in which offenders are more likely to live. In addition, they are more easily accessible to outsiders. Offenders wishing to commit crimes outside their own neighborhoods thus have an area that is both proximate and accessible. While more research is required on this issue, the evidence suggests an interplay between the characteristics of border neighborhoods and boundaries in distinguishing between similar and adjacent high and low crime neighborhoods.

The findings suggest that maintaining the residential character of neighborhoods and limiting access to outsiders may effectively inhibit certain kinds of crimes. The types of crime that are expected to be most affected by the relative insularity of neighborhoods are "opportunistic" crimes - burglary, robbery, larceny, and auto theft. Violent crimes, especially murder and assault, would not be expected to respond to changes in the physical environment because they are typically unplanned events that take place between acquaintances. Limiting access by environmental design assumes that most opportunistic crimes are committed by non-residents. We have no evidence to suggest that this is the case. However, to the extent that this is true, the physical environment may affect that portion of neighborhood crime that is committed by outsiders. The findings of the study are consistent with those of an evaluation of a crime control program in one neighborhood in Hartford which found that redesigning and re-routing streets to inhibit the rlow of traffic was an important factor in the reduction of burglary, robbery, and fear of crime (Fowler, et al., 1979).

The land use patterns, street types, and boundary characteristics that distinguished between low and high crime neighborhoods may be the neighborhood level equivalents of the block and building level physical characteristics that appear to affect crime and fear. Taylor, et al. (1980) found that blocks with a high proportion of properties having real and symbolic barriers in front, such as fences and curbs, exhibited relatively low crime and fear. These barriers emphasized the semi-private nature of residential streets and inhibited the flow of pedestrians into non-public areas in a way that is

21. There were no significant relationships between objective measures of block and neighborhood crime and worry, fear, avoidance and

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analogous to the neighborhood level barriers examined in the present study. Studies of defensible space features of buildings present yet a finer grained view of crime control in the residential environment. (See Taylor, <u>et al</u>., 1980 for a review of this research.) Further research is required to determine the specific physical design features that affect crime at each spatial level of the residential environment - the building, the property, the block, and the neighborhood.

The model of neighborhood crime prevention implied in Jane Jacobs (1961) work, which has influenced research in this area over the last two decades, is that diverse land use is a key factor in maintaining neighborhood safety. The "basic supply of activity and eyes" that results from a mixture of shops, offices, and residences is believed to be the basis of informal surveillance. The findings of the present study do not support this assumption. Homogeneous residential land use, small streets, and few major thoroughfares characterized low crime neighborhoods. Furthermore, fear of crime was positively associated with the amount of commercial land use on the block. Thus, maintaining neighborhoods as primarily residential areas appears to promote safety. The supply of activity and eyes that results from mixed land use may simply increase the number of potential victims and offenders. This finding is particularly important, given the recent trend in neighborhood planning to encourage mixed land use in order to conserve gasoline. While this is a a worthwhile goal, planners and residents should be aware of the potential increases in crime that could result from this type of plan.

By and large, the dimensions of territoriality were not found to be distinguishing characteristic of low crime neighborhoods. In fact, informal social control, such as movement governing rules and surveillance, appeared to be more characteristic of high crime than of low crime areas. These behaviors appeared to be expressions of fear of existing crime rather than strategies to maintain safety. This is opposite to what is implied in the notion of the defended neighborhood. These findings, however, make intuitive sense. Informal surveillance and avoidance of certain areas are rational adaptations to living in a high crime neighborhood.

This is not to suggest that the concept of informal territorial control should be dismissed outright. It may be that the set of behaviors that are the expression of this concept are not consciously felt. People may not be actively aware that they are engaging in surveillance or other forms of territorial control, and hence, do not report them in household surveys. Thus, the lack of importance of these variables may be a function of measurement technique. A final conclusion will have to be based on evidence collected by a variety of techniques.

In addition, it should be kept in mind that the study neighborhoods were selected on the basis of difference in crime levels and similarity in racial and economic composition. Since race and economic status are likely to influence the formation of local ties, social cohesion, and informal social control, matching neighborhoods on the basis of social composition may have the effect of minimizing the importance of these dimensions of territoriality. However, this argument is weakened by the fact that there were differences between matched neighborhoods on a number of variables that tend to be related to class and race, such as residential stability and affective attachment to the neighborhood. In addition, these findings suggest the variables that may be important in the prediction of neighborhood crime when differences in class and race are absent. The hypotheses generated in this study on the relative effects of informal territorial control and physical design on crime as well as the causal relationships will, however, require testing in a larger sample of neighborhoods.

The data suggest that there are no, or at best, weak links between physical characteristics and various dimensions of informal territorial control. If these linkages were strong it would be expected that differences between neighborhoods in land use, housing characteristics, and street type would be accompanied by differences in informal social control, social cohesion, and other variables that are believed to be related to physical design by Newman, Jacobs, and others. The fact that a number of physical characteristics differed systematically between high and low crime neighborhoods but most measures of territorial control did not (or differed in opposite to the expected direction) suggests a weak association between the two sets of variables. This is an area in need of further examination.

The findings of this study have several implications for neighborhood crime prevention strategies. The evidence indicates little relationship between the perception of the amount of crime in the neighborhood and protective behavior. While people could fairly accurately assess the amount of crime, this awareness was not necessarily translated into action. However, information exchange with neighbors and frequency of neighboring were positively associated with protection. This suggests that awareness is not a sufficient motivation for crime prevention activities but that local information networks may be a key element. An apparent by-product of frequent contact between neighbors is information about whether and in what ways to protect one's home and belongings. Neighborhood Watch and other community crime prevention programs attempt to formalize local information networks and channel them into addressing local crime problems. Very few of the survey respondents belonged to such programs, but some of the same functions were being performed informally. However, the results seem to validate the operating assumption of crime prevention programs, that local information networks can be used to disseminate information about protection strategies. Being integrated into these networks does not decrease fear of crime, and in fact, may actually increase it. But information exchange between neighbors seems to be an effective means of disseminating information concerning protection against crime.

The results concerning characteristics of boundary streets and bordering neighborhoods should not be taken as a recommendation that urban neighborhoods become fortresses, barricading themselves from outsiders. Relatively subtle modifications of the residential environment may effectively inhibit crime. Suggestions would include limiting the amount of commercial development at neighborhood boundaries, discouraging the city from widening streets in predominantly residential areas, and minimizing the amount of non-residential land use in residential blocks.

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## APPENDIX C

Survey Instrument
ID #_		AFFIX LABEL I	IERE
. RECO	RD OF CONTACTS	5	·
Date	Time	Results	Contact For:
1	a.m. p.m.		S I
	a.m. p.m.		S I
<u>.</u>	a.m. p.m.		SI
	a.m. p.m.		S I
	a.m. p.m.		S I
	a.m. p.m.		S I

D. INTRODUCTION

INTERVIEWER

INTERVIEWER

NAME

Α.

C

Hello, my name is \_\_\_\_\_\_. I'm with the Research Triangle Institute, a research firm located in North Carolina. We are working on a study about what people do to help prevent crime in their neighborhood. We are also interested in how people feel about their neighborhood. We sent you a letter that described the study and mentioned how important your participation is to the study. Did you receive that letter? (IF NO, GIVE RESPONDENT A COPY OF LETTER AND ALLOW TIME FOR READING.) Participation in this study is completely voluntary. All of your answers will be held in strict confidence and our study will in no way identify you or your household. Your address was picked at random.

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# SAFE AND SECURE NEIGHBORHOODS

# Household Screening Form

# B. Card 01 1-2/ B. 3-6/ AFFIX LABEL HERE 3-6/ 35-43/

n in an rain airean an T

## SAMPLE SELECTION

Ε.

1. As you recall from the letter, only one of the adult members of this household will be asked to answer questions about neighborhood crime and attitudes toward the neighborhood. In order to select that person, I need to know the first name of all of the adults who are 18 years old or older who live at this address year round. Let's list them by age, beginning with the oldest first. (LIST NAMES BELOW.)

> Number of Adults in HH

Sex of Selected Respondent

Random Digit List

44/

45/

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Deserte a Nu							Ma				S	ex
Person Nu	mber								M	F		
1											1	2
2								. '	:		1	2
3					, .						 1	2
4											 1	2
5								· .	• <u></u>		 1	2
6				· · · ·		1	:			1	 1	2
7						,					 1	2
8											 1	2
9	:				· · ·						 1	2

# INSTRUCTIONS:

SELECT THE INTERVIEW RESPONDENT BY USING THE RANDON DIGIT LIST AT RIGHT. STARTING IN THE FIRST ROW, GOING FROM LEFT TO RIGHT, SELECT THE FIRST NUMBER WHICH FALLS WITHIN THE RANGE OF THE NUMBER OF ELIGIBLES IN THE HOUSEHOLD. THE FIRST NUMBER WHICH FALLS IN THIS RANGE IDENTIFIES THE PERSON TO BE INTERVIEWED. CIRCLE THE NAME AND NUMBER OF THE PERSON SELECTED. THEN CROSS OUT ALL OTHER NAMES ON THE LIST.

 (NAME/YOU) has/have been selected. Is/Are (NAME/YOU) available to be interviewed now? (IF YES, CONTINUE WITH INTERVIEW ON NEXT PAGE. IF NO, SCHEDULE APPOINTMENT. RECORD APPOINTMENT DATE AND TIME IN SECTION C.

STAF	RT TIM	E:	a.m. — p.m.	
1.	In w	hat year did you move to this a	ddress?	
:			RECORD YEAR	<i>46</i>
2.	Do y	ou own or rent this house (apar	tment)?	
			Own	48
			Don't know 8	
3.	Does	this neighborhood have a name?		
1			Yes (ASK A) 1	49
			Don't know (SKIP TO Q.4) 8	
	Α.	What is it called?		50
4.	Α.	Here's a map of the part of th Here's your street and here ar OUT.) On this map, would you think of as your neighborhood?	e city where you live. (SHOW MAP 1.) e some of the nearby main roads. (POINT please draw a line around the area you	········
				52
	В.	Some people have called your n this name occasionally during referring to the area from Ste tracks on the east, and from G tracks on the south.	eighborhood Pittsburgh. We'd like to use the interview. (SHOW MAP 2.) We will be wart Avenue on the west to the railroad lenn Street on the north to the railroad	

<ul> <li>B. How often do you borro the like with people w neighborhood?</li> <li>8. A. How often do you visit</li> </ul>
<ul> <li>B. How often do you borro the like with people wieighborhood?</li> <li>8. A. How often do you visit</li> </ul>
<ul> <li>B. How often do you borrot the like with people wighborhood?</li> <li>8. A. How often do you visit</li> </ul>
<ul> <li>B. How often do you borro the like with people wieighborhood?</li> <li>8. A. How often do you visit</li> </ul>
<ul> <li>B. How often do you borro the like with people w <u>neighborhood</u>?</li> <li>8. A. How often do you visit</li> </ul>
the like with people w neighborhood? 8. A. How often do you visit
8. A. How often do you visit
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8. A. How often do you visit
8. A. How often do you visit
8. A. How often do you visit
8. A. How often do you visit
home?
B. How often do you visit
but <u>in the neighborhoo</u>
$p$ $\rightarrow$ $p$

row or exchange things such as tools, recipes, or ople who live within two blocks of here? About once a month . . . . . . . . . . . . . . . 3 Less than once a month . . . . . 4 ow or exchange things such as tools, recipes, or who live more than two blocks from here but in the Almost every day . . . . . . . . 1 61/ About once a week. . . . . . . . . . . . . . . 2 About once a month . . . , . . . . 3 Less than once a month . . . . . 4 with people living within two blocks of your About once a week. . . . . . . . . . . . . . . 2 Less than once a month . . . . . 4 with people living more than two blocks from here od? Almost every day . . . . . . . . . 1 63/ About once a week. . . . . . . . . . . . . 2 Less than once a month . . . . . 4 Never. . . . . . . . . . . . . . . . 5

				11. Do you ever go out to
9. A.	lf you have young children livin someone living within two blocks are not at home?	ng at home with you, how often do you ask s of here to watch your children when you		praces?
		Almost every day		
		About once a week 2		A. Are there restaur
		About once a month 3		
		Less than once a month 4		
	and the second	Never 5		
		Do not have children (SKIP TO Q.10) 6		B When you go out t
В.	How often do you ask someone who but in the neighborhood to watch	o lives <u>more than two blocks</u> from here h your children when you are not at home?		neighborhood or o
		Almost every day $\ldots \ldots \ldots \ldots 1 \ \delta 5/$		
		About once a week 2		
		About once a month 3		
		Less than once a month 4		12. Do you ever go to reli
		Never 5		
- 10	an a dha ann an an an an an an ann an ann an an			
by I'd	like to ask about some things whi	ch may be in your neighborhood.		
	0			A. Are there any chu
0. Are	there grocery stores or supermar	kets in this neighborhood?		hood?
		Vec 1 66/		
		No $(SKIP TO 0 11)$ 2		
		Don't know (SKIP TO 0.11) 8		
Α.	When you do your grocery shopping borhood or outside of the neigh	ng, do you usually do this in the neigh- borhood?		B. When you go to re borhood or outsic
		Usually in neighborhood 1 67/		
			1 <b>1</b> 1 1 1 1 1 1 1 1 1 1	

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eat in restaurants, including diners or fast-food

Yes.	•	•	•	÷	•	•	•	•	•	•	·	•	•	•	1	68/
No .	•				(2	SK]	ĺΡ	ΤC	) (	<b>)</b> .1	12)			•	2	

rants in this neighborhood?

Yes.	•		•	•	•	•	.•	•	•	•	•	•	•	•	•	1	69/
No .	•	•	•	•	• "	(2	SK.	ΙP	ΤO	Ç	<b>)</b> .]	12)	).		•	2	
Don't	: 1	cno	w			(8	SK.	ΙP	ΤO	ς	). I	12)	).			8	

to eat, do you usually go to restaurants inside the outside of the neighborhood?

Usually	in neighborhood	•	1	70/
Usually	outside	•	2	

igious services?

Yes	•	•	•	•	•	• •		• •	•	•	•	•	1	71/
No				•	(8	SKIP	ТO	Q.	13)	).			2	

urches or synagogues of your religion in this neighbor-

Yes	•••				1 72/
No		. (SKIP	TO Q.13)	•	2
Don't know	₩.	. (SKIP	TO Q.13).	•	8

celigious services, do you usually go inside the neighide of the neighborhood?

Usually	in neighborhood.	•	٠	•	•	1	73/
Usually	outside		•	• •	•	2	

13.	Do you ever so to a doctor or other	medical facility?	16.	Do you ever go to parks or
		Yes		
	A. Are there doctors or other medi	cal facilities in this neighborhood?		A. Are there any parks of
		Yes		
	B. When you need medical treatment hood or outside of the neighbor	, do you usually go inside the neighbor- hood?		B. When you go to parks neighborhood or outsi
		Usually in neighborhood 1 76/ Usually outside 2	•	
14.	Are there any clothing stores in thi	s neighborhood?	17.	Do you ever go to recreati
	A. When you go clothes shopping, d	Yes 1 77/ No (SKIP TO Q.15)2 Don't know (SKIP TO Q.15)8		A. Are there any recreat
	borhood or outside of the neigh	Usually in neighborhood 1 78/		
		Usually outside		B. When you go to recreated in the second or outs in the second or
15.	Do you have a car?	ID # 3-6/		
		Yes 1 7/ No (SKIP TO Q.16) 2	18.	Are there any other facil
1	A. Are there any car repair shops	in this neighborhood?		as laundromats, banks, li
		Nc (SKIP TO Q.16) 2 Don't know (SKIP TO Q.16) 8		
	B When you take your car for repa	irs, do you usually do this inside the		A. IF YES: What are the
	neighborhood or outside of the	neighhorhood?		د. مى دىغى مى مەربىيە يەشقى مەربىيە بەر يەشقى ھەر يەشقى مەربىيە تەربىيە تەشقى مەربىيە تەشقى مەربىيە تەشقى مەربىيە

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playgrounds? Yes. . . . . . . . . . . . . . . . 1 10/ No.... (SKIP TO Q.17)... 2 or playgrounds in this neighborhood? Yes. . . . . . . . . . . . . . . . 1 11/ No . . . . . (SKIP TO Q.17). . . 2 Don't know . . (SKIP TO Q.17). . . 8 or playgrounds, do you usually do this inside the ide of the neighborhood? Usually in neighborhood. . . . . 1 12/ Usually outside. . . . . . . . . . . . . . . 2 ional centers? Yes. . . . . . . . . . . . . . . . 1 13/ No . . . . . (SKIP TO Q.18). . . 2 tional centers in this neighborhood? Yes. . . . . . . . . . . . . . . 1 14/ No . . . . . (SKIP TO Q.18). . . 2 Don't know . . (SKIP TO Q.18). . . 8 ational centers, do you usually do this inside the ide of the neighborhood? Usually in neighborhood. . . . . 1 15/ Usually outside. . . . . . . . . . . . . . 2 ities in the neighborhood that you use, things such oraries, or the like? Yes. . . . . . . . . . . . . . . . 1 16/ No . . . . . (SKIP TO Q.19). . . 2 Don't know . . (SKIP TO Q.19). . . 8 ey? 17-18/ 19-20/ 21-22/

19. We're interested in the groups and organizations that individuals belong to. Please tell me whether or not you are a member of . . . READ EACH ITEN. IF YES TO A, ASK B AND C.

		[ 		IF YI	ES '	TO A, AS	K:	· · · · · · · · · · · · · · · · · · ·				
				В. Но	DW 1	often do	you at	tend me	etings	· · ·		
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				W	oul:	d you sa	<u>y</u>			ASK:		
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۷.	PIA or other	1	2	1		· •	2		5	1		9
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	or professional			8								1.
	association											
	· · · · · · · · · · · · · · · · · · ·		32/	1					33/			34/
4.	A political		_					· · ·				ä
	organization	[  I	2	1		2	. 3	4	5	1		2
		1	35/	1		· · · ·			36/			37/
5.	A block or			∦ <sup>1</sup>								
	neighborhood	1	2	. 1		2	, 3 <sup>,</sup>	4	5	1		2
	association											
		∦ ∦	38/				· · · · · · · · · · · · · · · · · · ·		39/			40/
6.	A social or					1			4			
	recreational	1	2	1		2	3	4	5	1 1		2
	group		<b>i</b> .			1		1 3		× .		

20. A. Do you have any children under age eighteen living at home with you? This includes adopted children, foster children, and children from a previous marriage.

Yes. . . . . . . . . . . . . . . . . 1 41/

No . . . . (SKIP TO Q.23). . . . . 2

B. How many?

9 1

. . .

RECORD NUMBER:

容.

42-43/

I'm interested in t First, how old is t A. IF 5 YEARS OLD <u>Child</u> How about. . .

		(tł	ie	ol	de	st	)		
		(se	e co	nd	lo	lde	est	)	
		(tl	nir	ď	01	des	st)		
		(fo	bur	th	0	1 de	est	)	
•		(f:	ift	h	ol	des	st)		
		(s.	ixt	h	o1	des	st)	i.	
		(se	eve	nt	h	010	les	L)	
		(e:	igh	th	0	lde	est	)	
				1				 '	
22		We	' re	a	ls	o i	inte	ere	st
		Ple EAG	eas CH	e Il	te EM	11 •	me 1F	wh YE	eti S
1.	A	chu	irc	h	or	ċl	iur	ch-	re
2.	A	scl	100	1	cl	ub			
3.	Li	tt.	le	Le	ag	ue	or	ot	he
4.	A Gi Br	sco rl owi	out Sc iie	ou s	ro ts	up , (	, sı Cub	ich Sc	a ou
5.	A	fra	ate	rn	i t	y (	or s	sor	or
6.	YÞ	ICA	or	Y	WC	A			
-								• • • • • • • • • • •	

 Some other social or group

142

21. I'm interested in the ages of your children and where they go to school. First, how old is the oldest child living at home with you? RECORD AGE UNDER A. IF 5 YEARS OLD OR OLDER, ASK B. CONTINUE FOR REMAINING CHILDREN.

A. What is	IF 5 B. D t	) YEARS OL Does he/sh Chis neigh	D OR OLDER, e attend sc borhood?	ASK: hool in
his/her age	?	Yes	No	
	44-45/	• 1	2	46/
	47-48/	1	2	49/
	50-51/	1	2	52/
	53-54/	1	2	55/
:	56-57/	1	2	58/
	59-60/	1	2	61/
· · · · · · · · · · · · · · · · · · ·	62-63/	<b>1</b> •	2	64/
-	65-66/	1	2	67/
0	1		Card 03 ID #	1-2 3-6

ed in the groups and organizations that children belong to. Ther or not any of your children is a member of . . . READ TO A, ASK B.

		IF YES TO A, ASK:	
	li – – – – – – – – – – – – – – – – – – –	B. Does it ever meet in you	r
	A. Belong?	neighborhood?	
	Yes No	Yes No	
	7/	8	1
lated group			
	1 2	1 2	
			~
	9/	1	07
	1 1		
	1 2		
	11/	1	2/
r sports club			· .
	1 2	1 2	
	17/	1	11
Boy Scoute	10/		4/
e or	1 2		
.5, 01	1 2		
	15/	1	6/
ity			:
	1 2	1 2	
	17/	1	81
	11/	1	07
	1 2	2	
	19/	2	0/
recreational			
	1 2	1 2	1
	<u>  </u>	IL	

		i se		
23.	How many of your good friends live within two blocks of your home?		29.	Would you say that most
	RECORD NUMBER: 21-22/			in age to you, say with.
24.	How many of your good friends live more than two blocks away, but within the neighborhood?			
	RECORD NUMBER: 23-24/		- - -	· · · · · · · · · · · · · · · · · · ·
25.	Considering all your good friends, how many of them live in this neighborhood? Would you say that		30.	Would you say that most similar amount of educat
	All of them 1 $^{25/}$			
	Most of them			
	About half of them			
	None of them 5		· <u></u>	
	live in this neighborhood?		31.	Would you say that most amount of money as yours
t				
26.	How many of your relatives live within two blocks of your home?			
	RECORD NUMBER: 26-27/			
27.	How many of your relatives live <u>more than two blocks</u> away but <u>within the</u> <u>neighborhood</u> ?		32.	Would you say that most
	RECORD NUMBER: 28-29/			in a way that is similar would?
28.	Considering all your relatives, how many of them live in this neighborhood? Would you say that			
	All of them			
	Most of them		· · ·	
	About half of them	and the second se	33	Would you say that most
	Only a few of them, or 4	1	55,	houses and yards in a wa
	None of them 5			
	live in this neighborhood?			
		a a di di manda di		
		1		

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المرد کا درمین کا افراده دارد کا درمان

> of the other adults in your neighborhood are similar in 10 years of your age, or different in age?

Similar	•		.•	•	•	·	•	•	•	•	.•	•	1	31/
Different.			•	•			•	•	·	•	•	•	2	
Fifty-fifty	•	•	•	• .		•	•		•	•	•	•	3	
Don't know	·	•			•	•	•	•	•	•	•	•	8	

t of the other adults in your neighborhood have a ation as you or a different amount of education?

Similar	•	•:	•	۰.		•	·	•	•	•		۰.	1	32/
Different.	•	•		•	• .		•	• '	•	•	•		2	
Fifty-fifty		•		•	•		•		•	•	•	•	3	
Don't know	•	•	•	•	•	•	•	•	•	•	•	•	8	

of the households in this neighborhood make a similar s or a different amount of money?

Similar	•	•	•	•	•	•		·	•	•	•		1	33/
Different.	•	•	•	•	•	•		•	•	•	•	•	2	
Fifty-fifty	•	•		•	•	•		•	•	•	•		3	
Don't know	•	•	•	•	•	•.	•	•	•	•	•	. •	8	

of the other people in this neighborhood raise children r to the way you would or different from the way you

Similar	•	•	•	• •	• •		• •	. 1	34/
Different		•	•	• •	• •	•	• •	. <u>`</u> 2	
Fifty-fifty.		•	•	• •	• •		• •	. 3	
Don't know .	•	•	•	• • •	•••	•	• •	. 8	

of the people in this neighborhood keep up their ay that is similar to the way you do or different?

Similar	•	• •	•	•	•	•	•	÷	•	.•	1	35/
Different		• • •	·	٠		•		•	•		2	
Fifty-fifty.	•	• •	•	•	•	•		•	• .	•	3	
Don't know .		•••	•	•	•	•		•	•••		8	

34. In general, considering the kinds of things I just mentioned, would you say that most of the adults in this neighborhood are similar to you or different from you?

 Similar.
 .
 .
 .
 1
 36/

 Different.
 .
 .
 .
 .
 2

 Fifty-fifty.
 .
 .
 .
 .
 3

 Don't know
 .
 .
 .
 .
 .
 .

ار این دوسته در دورون از واروی اور میشود. در اور ورون در است در در میشود در استان میشود و در این میشود در در مرون

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35. Are there any local newsletters in this neighborhood? I mean newsletters that people read to learn about what's happening in their neighborhood.

Yes	• '	•	•	•	•	•	• • • • • • • • • • 1 •	37/
No	•	•	•	•	•	•	(SKIP TO Q.36) 2	
Don	t.	ł	٢nc	)W	•	•	(SKIP TO Q.36) 8	

A. Do you ever read this newsletter?

Yes	•	•	•	·	•	•		•	•			•	•	•		•	1	38/
No	·	•	•	•	٠	•	(8	SKI	[P	то	Q	: 3	6)		•		2	

B. About how often do you read it? Would you say nearly every week, once every few weeks, or less often than that?

Nearly every week.	•	•	•	•	•	•	•	•	1	39/
Every few weeks	•	•	٠	•	•		•	•	2	
Less often	•	• '	•	•		•	•,		3	

	certain things by tal neighbors find out ab each other? Would yo
	b THROUGH g.)
a.	Where to look for a hou
Ъ.	Where the shopping sale
с.	Where to find a job
d.	Where services such as day care are available
е.	Information about neigh ties such as meetings a
t .	Where unsafe areas in t are
g.	Who the local troublema

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now to what extent you and your neighbors find out about ing to each other. First, how often do you and your it where to look for a house or apartment by talking to say often, sometimes, rarely, or never? (REPEAT FOR

	Often	Sometimes	Rarely '	Never	]
or apartment	1	2	3	4	40/
are	1	2	3	4	41/
	]	2	3	4	42/
alth care and	1	2	3	4	43/
rhood activi- block parties	1	2	3	4	44/
neighborhood	1	2	3	4	45/
rs are	1	2	3	4	46/

		Big Problem	Somewhat Problem	Not a Problem					
a. Noisy music noisy	neighbors; people who play loud have late parties, or have quarrels	1	2	3	47.1				
b. Dogs b nuisar	arking loudly or being a ce	· · 1	2	3	56/		a na ann an Anna an An		
c. People proper the ar	not disposing of garbage ly or leaving litter around ea	1 ·	2	3	E5/			······	
d. Poor d	are of property and lawns	1	2	Car ID 3	d 0 d 1-2.' H - 2-€/ 7/ 2-€/	r			
e. People bother street	who say insulting things or people as they walk down the	1	2	3	16/				
f. Landlo happer	rds who don't care about what s to the neighborhood	1	2	3	25./		i da marina		
g. Purse crimes	snatching and other street	1	2	3	34/			- 	
h. Preser	ce of drugs and drug users	1	2	3	43/				-
i. Abando buildi	ned houses or other cmpty ngs	· · · · · · · · · · · · · · · · · · ·	2	3	521				8 ·
j. Vacant	lots with trash and junk	· · · · ·	2	3	÷1.'				. b
k. People	damaging the cars or property		2	3					· i
l. People	drunk in public places like			 	rr:[][] 2-2/ # 2-?/				j
m. Teenag	ers hanging out on corners	1		3	-c.				k
or nea n. Prosti	r stores	1	2	3					. 1.
standi	ng on corners	1	2	3	-9				
stores	and the second of addit books	1	2	3	24				, n.

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ала станция станция станция различие станции разникати станция средски станция станция с станция с 2000 с сост В 12 малиния с нар. На дестанция водство состанование станция станция станция станция станция с 2000 с 2000 с 20

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# IF NO BIG PROBLEMS MENTIONED IN Q.37, SKIP TO Q.39.

For the big problems in your neighborhood, I'd like to ask you what kind of action you took. First, you said that (READ FIRST ITEM THAT RESPONDENT SAID WAS A BIG PROBLEM IN Q.37) was a big problem in your neighborhood. Have you ever taken any action to try to solve the problem? IF YES, READ ACROSS OTHER HEADINGS IN ROW. CIRCLE ONE CODE FOR EACH. IF NO, GO ON TO NEXT BIG PROBLEM.

्र स्टल

lave you:

(1)	(2)	(3)	(4)	(5)	(4)	<b>1</b> .
Taken any	Dealt directly	Gotten to-	Called the	Cailed your	Taken some	{
action to try	with the per-	gether with	police?	city council-	other action?	
Droblem?	son or persons	other neigh-	·	man or a city	*	
provient	responsible?	bors to try		agency?	What was it?"	1
		problem?				
Yes No	Yes No	Yes No	Yes No	Yes No	Ves No	
48/	49/	53/	51/	52/		-
1 2	1 2	1 2	1 2			
*				1 2	1 2	
Other (SPECI	(FY)					54-55/
52/	58/	50.7		· · · · · · · · · · · · · · · · · · ·	<u></u>	
1 2	1 2	33/	507	51/	62/	
	1 2	1 2	1 2	1 2	1 2	
"Other (SPECI	FY)					63-641
66/	02/					
	=//	63/	69/	70/j	71/	. · · · · · ·
1 2	1 2	1 2	1 2	1 2	1 2	
Other (SPECI	EA.)	,			· · · · · · · · · · · · · · · · · · ·	79 77
OCHET (SFECT	[1]					13-13/
5/	3/	107	11/	12/	137	
1 2	1 2	1 2	1 2	1 2	3 3	
*			-	· • •	·	
Other (SPECI	FY)			:		14-15/
17/	18/	10/	80.4			
1 2	1 2	137	397	21/	22/	
	1 2		1 2	1 2	1 2	
Other (SPECI	FY)					23-24/
261	977	0.17		······································		20-217
207	217	287	£3.	30/	317	
1 2	1 2	1 2	1 2	1 2	1 2	
Other (SPECT	EV)		· · · · · ·			
ocher (Sract	F1)					72-33/
35/	36/	37.1	.53		1.1	
1 2	1 2	1 2	1 2	1 0		
*			• • •	1 2	1 2	
Other (SPECI	FY)	1				4-139 -
44/	15/	46/	47/1		have a feature of the second	
1 2	1		27.7	42/	42.	
	1 2	1 2	1 2	1 2	1 2	
Other (SPECI)	FY)		1			
52/1						50-511
507	241	55/	56 /	57.	.) <i>C</i>	
1 2	1 2	1 2	1 2	1 2	1 2	
"Other (CDECT	-v.)			- 1	I	
other (SPECIA	···)			· · · · · · · · · · · · · · · · · · ·		53-800
52/	đã,1	64/	55/1	20,1	277	
1 2	1 2	1 2	1 1			
*			• • •	1 2	1 2	
Other (SPECIE	Y)					22.22
"1/ ]	72/	22:1	2271			
1 2	1		7	· · · · · · · · · · · · · · · · · · ·	5.	
	. 1 2	1 2	1 2	1 2	1 2	
"Other (SPECIF	Y)			•		
	1/ 1					~~ <i>\</i> 87
		- *		12/	:37	
1 2	1 2	1 2	1 2	1 2	1 2	
Other (EDECIT		1		· -		
other (SPECIE	1)			· · · · · · · · · · · · · · · · · · ·		24-25
, 20/	23, [	13 /	201	2://		
1 2	1 2	ī 1	1 2	1		
*	- 1		· · · ·	1, 2	1 2	
Other (SPECIF	Y)					22-224
26 /	12/1		0.1.1			
1 1			-01	· · ·	8-4	
	4 2	1 2	1 2	1 2	1 2	
Other (SPECIF	Y) '	1				
		······				6-+ ,
35/	30	37/	- E3	7,3 1	40 '	
1 2	1 2	1 2	1 2	1 2	1 7	
*				• • •	· •	
Other (SPECIF	r)		· · · · · · · · · · · · · · · · · · ·			2-42
48	1	-1	29.71	237)		
1 2	1 2	, ,		7.	- 31	
-	• •		1 2	1 2	1 2	
Other (SPECIF	Y)					7_ 29 /
					°	4-047

39.	Α.	Of the problems that we just talked about, which do you feel is the biggest problem in the neighborhood?	42.	Overall, in the past two better place to live, ha be?
		53-54/		
	В.	Which is the second biggest problem?		
		55-56/		
40.	Do y next	ou plan on moving from this neighborhood sometime soon, say within the two years?	43.	All things considered, w
		Yes		years from now? Will it or will it be about the
		No (SKIP TO Q.41) 2		
		Don't know (SKIP TO Q.41) 8		
	Α.	What is your reason for the planned move?		
		58-59/		
		60-61/		· · · · · · · · · · · · · · · · · · ·
			44.	Some people feel their n
				they happen to be living
				consider your neighborho
41.	Α.	Suppose that for some reason you had to move away from this neighborhood? Would you be		
		Happy		
		Sorry, or	:	
		Indifferent 3		
			45.	In some neighborhoods, pe
	Β.	What would you miss the most if you had to leave?		borhood would you say the
		65-66/		where people go their owr
		67-68/		

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. ...

o years, would you say your neighborhood has become a as gotten worse, or is it about the same as it used to

Better	• • • • •		•	. 1	71/
Worse	• • • • •		•	. 2	
About the same	• • • • •	•		. 3	
Haven't lived here	two years		•	. 4	
Don't know	• • • • •	•	•	. 8	

what do you think your neighborhood will be like two be a better place to live, will it have gotten worse, same as it is now?

Better		•	·		.•		•	•		•	1	72/
Worse	•					•		•	•	•	2	
About the same	•		•		•	•,	•	۰.			3	
Don't know	•	•	•	•	•			•	•		8	

neighborhood is a real home to them, a place where they le think of their neighborhood as just a place where g. Which one of those comes closest to the way you bod? Do you feel it is a . . .

eople do things together and help each other--in other stly go their own way. In general, what kind of neighis is, mostly one where people help each other or one n way?

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			· )		
. On the whole, how do you feel about living in	this neighborhood? Would you		4/. A.	Are there certain areas within two blocks of your home because you feel they are dangerous?	that you avoid
say that you				Yes	1
Like l	iving here (ASK A) 1 75/			No (SKI	P TO Q.48) 2
DISIIK	ore (ASK B) 2			Don't know (SK1	P TO Q.48) 8
Indiff h	erent about living mere (SKIP TO 0.47) 3		В.	Do you avoid	Yes No
				a. the sidewalk in front of your home	1 2
A. Would you say that you				b. a nearby street corner	1 2
Like l m	iving here very nuch (SKIP TO Q.47) 1 76/			c. a nearby park or recreation area	1 2
Like l	iving here somewhat			d. a nearby shopping area	1 2
	10 x.+/j 2			e. a public housing project	1 2
B. Would you say that you				f. an apartment complex	1 2
Dislik	e living here very much 1 77/			g. some other location	1 2
Dislik	e living here somewhat 2			(SPECIFY)	
		-			<u> </u>
	Card 06 1-2/		С.	Do you avoid these areas	
	LD # 3-6/			Just during the day	1
				Just at night, or.	2
				At all times	3
			D.	What is it about these areas that makes you feel unsaf	Ie?
		₹v	IF RESPON ASK: Why	NDENT STATES ANYTHING OTHER THAN A DIRECT THREAT TO PERS y does that make you feel unsafe?	ON OR PROPERTY,
		390			
					······································
	an an an Araba an Araba an Araba an Araba an Araba. An Araba an Araba an Araba an Araba an Arab			152	<b>55</b>
152			an an trainn an trainn An trainn an trainn an trainn An trainn an trainn an trainn	1 <b>11</b>	

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a terreta a contra terreta de la secto de la companya de la contra de la contra de la contra de la contra de la

48. A.	Are there certain areas more than two blocks away but y borhood that you avoid because you feel they are dange	within the neigh-	49. In some neighborhoods, th
	Yes	1 30/	control over what happens
	No (SKI)	P TO Q.49) 2	have a for to say about w
	Don't know (SKI)	• TO Q.49) 8	
В.	Do you avoid	Yes No	
	a. a nearby street corner	1 2 31/	
	b. a nearby park or recreation area	1 2 32/	
	c. a nearby shopping area	1 2 33/	50. I'm going to read you a 1. Would you tell me whether
	d. a public housing project	1 2 34/	and you cell me whether
	e. an apartment complex	1 2 35/	A. Neighbors should scol
	f. some other location	1 2 36/	
	(SPECIFY)	37-38/	
	Just at night, or. At all times	· · · · · · · 2 · · · · · · · 3	
D.	What is it about these areas that makes you feel unsafe	<u>.</u> ?	C. Neighbors should call
		40-41/	being vandalized.
		42-43/	
		[]] 44-45/	
IF RESP	ONDENT STATES ANYTHING OTHER THAN A DIRECT THREAT TO PERSO	DN OR PROPERTY,	D. Neighbors should use
	ny does chae make you feel unsafe.	1 46-47/	
		52-51/	

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Library and Laboratory Providential

he people who live there have a lot to say about what hood. In other neighborhoods, people don't have much is there. Would you say that you and your neighbors what goes on in your neighborhood, or that you don't

Have a lot to say about what		
goes on	. 1	52/
Don't have much control	. 2	

ist of what some people expect their neighbors to do. you agree or disagree with these statements?

old neighborhood children for fighting.

Agree	. •	• '	٠	•	•	•	•	•	•	•	•	1	53/
Disagree .	•	•	•	•	•	•			•	•	•	2	
Don't know	•		•		•		•		•	•.		8	

p an eye out for suspicious people or events.

Agree	•	•	•				•	•	•		1	54/
Disagree .	•	۰.		•		•	•	•	•		2	
Don't know		•	•	•	•		•		•	•	8	

l the police if a neighbor's property or home is

Agree	•						•			•		1	55/
Disagree .	•	•	•	• '	•	•	•	•	•			2	
Don't know	•	•	•	•	•	•	•	·		•	•	8	

physical force to assist a neighbor being mugged.

Agree	• •		•	•	•	•	•:	۰.	۰.	•	٩	•	1	56/
Disagree	•••	•	•	•	•	•	•	•	•	•.		•	2	
Don't kno	w .	•		•	•.	•	•	•	•	•		•	8	

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The second s

а.	Young people using foul language in the streets?	Yes
		Don't know 8
b.	Young people destroying property?	Yes
		Card 0 7 1-2/ ID # 3-6/
с.	Young people fighting?	Yes
, ,		Don't know
d.	Suspicious people hanging around?	Yes
		Don't know 8
e.	Someone trying to break into a house or car?	Yes
		Don't know 8
f.	A mugging or purse snatching?	Yes
g٠	Is there any other kind of tro neighborhood in the last year	ouble that you have seen or heard in your ? (SPECIFY)
		51-5
		156

	52. When yo	u saw (RE) HEADINGS	AD FIRS	T TROUN	SLE), wh	ich of	the fol	lowing THEN	did you	do? ONEXT	READ
	TROUBLE		IN KOW.	CINCI			A BACH.	11115IN ,		O MEAT	
	Did you:			-					,		
	(1)	()	2)		(3)	(T) - 1	(4)	(   (	(5)	<u> </u>	(6)
		1.1		1. A.		Take	some direct	DO SON	netning	Decid	e it was
	Keep an eye	Call a				actio	n?	What	Jack	none	of your
	on it	neighb	or	Call I	olice	What	was it?	was it	.? ^	busin	ess
	Yes No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
	50	37	59/		60/		61/		62/		63/
а.	1 2	1	2	1	2		2.	1	2		2
	* Other	Direct (S	PECIFY)	1		•				•.	64-
	** Somet	hing Flee	(SDECT	 FV)			·····	1	· · · · · · · · · · · · · · · · · · ·		
	Somet	urug erse		····							00-
	6.	9/	70/		71/	а. — В. —	72/		73/	l	74/
ь.	1 2	1	2	1	. 2	1	2	1	, 2	1	2
	*Other	l Direct (S	DECIEV)	1		1				1	
	**										
	Somet	ning Lise		FY)						· · · · · · · · · · · · · · · · · · ·	/// ///-
	8,	/	9/		10/		11/		12/		13/
С.	1 0				· 0		່າ	1	່ ເ		
	1 2		Ζ.		Z		2		<u>ک</u>		2
	*Other	Direct (S	PECIFY)							·	14-
	** Somet	hing Else	(SPECT	 FY)						·.	16-
	7	7	201	T	977	7			23/	7	<u> </u>
4			207		217		227		207		217
a.	1 2		2		2	1	2		2		2
	* Other	) Direct (S	PECIFY)	1		•		1		1 .	25-
	** Somot	hine Flee	(ODFOT)	 דע)	ùùùùùù					· · ·	
				r I )							
	30	<b>)/ </b>	31/		32/		33/		34/		35/
е.	1 2	1	2	1	2	- 1	2	1	2	1	2
	*Othor	l Direct (S	DECTEVI			I		•			36-
	**		(oppor		<u></u>			·····	· · · · · ·		
·	Somet	hing Else	(SPECI	FY)						·	38-
	4.	1/	42/		43/		44/		45/		46/
f.	1 2	1	2	1	2	1	2	1	2	1	2
	*					1.1		1	1 - 1 -	1	
	0ther	Direct (S	PECIFY)		<u>~</u>		······································		<u> </u>		<u>4</u> 7-
	Somet	hing Else	(SPECI	FY)		· · · · · · · · · · · · · · · · · · ·		· · · · ·			49-
	5	3/	54/	1	55/	T	56/		57/	1	58/
g.	1 2	1	2	1 1	2	1	2	1	2	1	2
0.			_		-	1	. 7	l .	~	-	
	Öther	Direct (S	PECIFY)			<u></u>					59-
	1 **		CONTOT								

53	A. How often do you walk around in	n your neighborhood? Is it		
		Every day. $1.63/$		just a few minutessi
		Several times a week		something like that?
•		Once a week.		
		Less than once a week or /		
		Never $(SKIP TO 0.5/)$ 5		
	B. About what area do you usually	Cover on these value? De rest		
	and and and god astarry	cover on these warks? Do you		
		Stay on your block $\ldots$ $\ldots$ $\ldots$ $1$ 64/		
·		Go about two blocks from your home, or		
		Go more than two blocks from		
		your home 3		5/. A. When you are in t of watching out f
	C. Do you usually take these walks			
		During the day		
		During the evening or 2		
		Both		
	D On those wells, is not			
	or activities?	int of looking out for suspicious people		B. When you are in t watching out for
		Yes		
		No2		
		Don't know 8		
54.	For the purposes of this study, would anyone at home on weekdays, say betw	d you mind telling me how often there is een 8 in the morning and 6 in the evening?		
	Would you say usually, sometimes, or	never?		58 In concred how every
		Usually		lives in the <u>two block</u>
		Sometimes 2		
· ·		Never 3		
55.	For the purposes of this study, would anyone at home on weeknights, say bet sometimes, or never?	d you mind telling me how often there is tween 6 and 11? Would you say usually,		B. How easy would yo
		ligually		in the <u>rest of th</u>
		Semetimee		
·		Never. $\ldots$ $\ldots$ $\ldots$ $\ldots$ $3$	3 	
	15	8		
-				
-			period principality and the second	

nd time outside your house or apartment for more than sitting on the porch or step, working in the yard, or Would you say . . .

Every day	69/
Several times a week	2
Once a week	3
Less than once a week, or	ł
Never	ò

the two block area around your home, do you make a habit for suspicious looking people?

Yes	•		•	•	•	•	•	٠	•	•	•	•	•	•	•	٩	1 70/
No	•	.•	•	•	•	•		•	•	•	•	•	. •	•	•	÷	2
Don	' t	: 1	kno	ω	•	·	•	: •		•	•	•	ţ	•	•	.•	8

the <u>rest of the neighborhood</u>, do you make a habit of r suspicious looking people?

Yes	• •	• •	•	• •		•	• •	1	71/
No	• • •	• •		• •	• •	•	•. •	2	
Don't know	• •	• •	•	• •		۰.	•••	8	

would you say it is to tell a stranger from someone who ck area around your home? Is it easy or difficult?

Easy	•	•	•	•	• •	•	•	•	•	•	÷	1	72/
Difficult.	•	•	•	•	• •	·	•	•	•	•	•	2	
Don't know	•	•	•	•	• •	•	•	•	٠		•	8	

you say it is to tell a stranger from someone who lives the neighborhood? Is it easy or difficult?

Easy	• • •	•	•	•	•	•	•	•	. •	• •	•	1	73/
Difficult.	•••	•	•	•	• -	•	. •	•	•	•	•	2	
Don't know	•. •	•	•	•		٠	•	•	•	•	•	. 8	

Now I would like to ask you some questions about crime.

· .

. -

59. How much crime would you say there is in the two block area around your home? Would you say there is a lot, some, only a little, or none?

			Increased
	A lot		Decreased
	Some		Remained the same. (SKIP TO 0.64). 3
	Only a little		Haven't lived here two years (SKIP TO 0.64)
	Don't know . (SKIP TO Q.60) 8		Don't know (SKIP TO Q.64) . 8
	What kinds of crime are in the two block area around your home? (PROBE FOR EXACT TYPES OF CRIME IF NECESSARY.)		
	75-76/		63. Were you thinking about particulation to the
-	77-78/		has (increased/decreased)?
	79-80/		Yes
	Card 0 8 1-2/		No (SK1P TO Q.64) 2
60.	How much crime would you say there is in the rest of this neighborhood? Would		A. What kinds of crimes? (PROBE FOR EXACT TYPES OF CRIME IF NECESSARY.)
	you say there is a lot, some, only a little, or none?		17-18/
,	A lot		
	Some	20. 	
	Only a little		
	None (SKIP TO Q.61) 4		
	Don't know . (SKIP TO Q.61) 8		
	What kinds of crime? (PROBE FOR EXACT TYPES OF CRIME IF NECESSARY.)		64. Would you say that the crimes occurring
	8-9/		mostly by the people who live in this neighborhood or mostly by people who live outside the neighborhood?
	[] 10-11/		No crime in neighborhood
			People living here
			People living outside
61.	How safe do you feel your neighborhood is compared to the rest of Atlanta?		Equally by both
	Would you say it is		Don't know
	More safe 1 14/		
	Less safe, or		
	About the same	<b>19</b>	
· · · · ·			
	160		
			161

62. Within the past two years, do you think crime in your neighborhood has increased, decreased, or remained the same?

Increased 1	15/
Decreased	
Remained the same. (SKIP TO Q.64). 3	
Haven't lived here two years	
(SKIP TO Q.64) 4	
Don't know (SKIP TO Q.64) . 8	

Yes.	•	•	•	•	•		. •	• :		•	•	•	•	. •	1	16/
No .		.•	• •	(8	SK1	р	TC	) (	2.6	54)	).		4		2	

No crime in neighborhood	•	•	•		•	1	23/
People living here		•	•		÷	2	
People living outside		•	•		•	3	
Equally by both		•	•			4	
Don't know			•			8	
Don't know	•	•	•	•	•	8	

65. I'm going to read statements people have made about crime. For each one please tell me if it's mostly true in your case or mostly false.

a.       I'm often a little worried about being the victim of a crime in my neighborhood.       1       2       24/         b.       I would probably be afraid if a stranger stopped me at night in my neighborhood       1       2       25/         c.       I'm not as afraid for my own safety as I am for my family and friends in this neighborhood.       1       2       26/         d.       When I have to be away from home for a long time, I worry that someone might try to break in.       1       2       27/         e.       When I hear footsteps behind me at night in my neighborhood, it makes me feel uneasy.       1       2       28/         Now I'd like you to think about the neighborhoods that border on this neighborhood?       2       28/         So			Mostly True   Mostly False
b. J would probably be afraid if a stranger stopped me at night in my neighborhood to ask for directions.       1       2       25/         c. I'm not as afraid for my own safety as I am for my family and friends in this neighborhood.       1       2       28/         d. When I have to be away from home for a long time, I worry that someone might try to break in.       1       2       27/         e. When I hear footsteps behind me at night in my neighborhood, it makes me feel uneasy.       1       2       28/         Now I'd like you to think about the neighborhoods that border on this neighborhood?       2       28/         Now I'd like you to think about the neighborhoods that border on this neighborhood?       2         Mo       Yes.       1       2         Don't know       8       8       Do you feel that the people who live there are basically similar to or different from you?       3         Similar.       (SKIP TO Q.67).       1       30/         Different.       2       31-3	a.	I'm often a little worried about being the victim of a crime in my neighborhood.	1 2 24/
<ul> <li>C. I'm not as afraid for my own safety as I am for my family and friends in this neighborhood.</li> <li>d. When I have to be away from home for a long time, I worry that someone might try to break in.</li> <li>e. When I hear footsteps behind me at night in my neighborhood, it makes me feel uneasy.</li> <li>Now I'd like you to think about the neighborhoods that border on this neighborhood?</li> <li>A. Would you say that any of them are less safe than this neighborhood? Yes</li></ul>	b.	I would probably be afraid if a stranger stopped me at night in my neighborhood to ask for directions.	1 2 25/
d.       When I have to be away from home for a long time, I worry that someone might try to break in.       1       2       27/         e.       When I hear footsteps behind me at night in my neighborhood, it makes me feel       1       2       28/         Now I'd like you to think about the neighborhoods that border on this neighborhood.       1       2       28/         A.       Would you say that any of them are less safe than this neighborhood?       1       29/       No         No	с.	I'm not as afraid for my own safety as I am for my family and friends in this neighborhood.	1 2 26/
e. When I hear footsteps behind me at night in my neighborhood, it makes me feel uneasy.          Now I'd like you to think about the neighborhoods that border on this neighborhood.       1       2       28/         A. Would you say that any of them are less safe than this neighborhood?       Yes.       1       2       29/         No       .       .       1       2       28/         B. Would you say that any of them are less safe than this neighborhood?       Yes.       1       2       29/         No       .       .       1       2       29/         No       .       .       1       2       29/         No       .       .       .       1       2       29/         No       .       .       .       1       29/       29/         No       .       .       .       .       1       29/         No       .       .       .       .       .       29/         No       .       .       .       .       .       .       29/         No       .       .       .       .       .       .       .       .       .       .       .         B.       Do you feel that the people who live there are basic	d.	When I have to be away from home for a long time, I worry that someone might try to break in.	1 2 27/
Now I'd like you to think about the neighborhoods that border on this neighborhood? A. Would you say that any of them are less safe than this neighborhood? Yes	е.	When I hear footsteps behind me at night in my neighborhood, it makes me feel uneasy.	1 2 28/
<ul> <li>A. Would you say that any of them are less safe than this neighborhood? Yes</li></ul>	Now borl	I'd like you to think about the neighborhood	ls that border on this neigh-
Yes.       1 29/         No       2         Don't know       2         Don't know       8         B.       Do you feel that the people who live there are basically similar to or different from you?         Similar.       (SKIP TO Q.67).         Different.       2         Don't know       2         Don't know       30/         Different.       31-3	A.	Would you say that any of them are less saf	fe than this neighborhood?
B. Do you feel that the people who live there are basically similar to or different from you? Similar (SKIP TO Q.67) 1 30/ Different		Yes No Don't kn	
Similar (SKIP TO Q.67) 1 30/         Different	В.	Do you feel that the people who live there different from you?	are basically similar to or
Different.		Similar.	(SKIP TO Q.67) 1 30/
Don't know (SKIP TO Q.67) 8 C. What makes these people different?		Differen	it 2
C. What makes these people different?		Don't kn	low (SKIP TO Q.67) 8
31-3	С.	What makes these people different?	
			31-3

67. How worried are you about your home being broken into or entered illegally when no one is home? Would you say you are very worried, somewhat worried, just a little worried, or not at all worried? 68. How worried are you about being held up on the street, threatened, beaten up, or anything of that sort within two blocks of your home? Would you say you are very worried, somewhat worried, just a little worried, or not at all worried? 69. How worried are you about being held up on the street, threatened, beaten up, or anything of that sort within the rest of the neighborhood? Would you say you are very worried, somewhat worried, just a little worried, or not at all worried? 70. How worried are you about other members of your household being held up on the street, threatened, beaten up, or anything of that sort within two blocks of your home? Would you say you are very worried, somewhat worried, just a little worried, or not at all worried?

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the second of the former and the

124

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35-36/

Very worried	•	•	• .	••	•	1	37/
Somewhat worried	•		•	• •		2	
Just a little worried.	•		•	• •	•	3	
Not at all worried		•	•			4	

Very worried	•		•	•		1 38/
Somewhat worried	•	•	۰.	• '		2
Just a little worried.	·	•	•	•		3
Not at all worried			•	•	•	4

Very worried	•	•	• •	•		1	39/
Somewhat worried	•	•	• •	•	•	2	
Just a little worried.	•		• •			3	
Not at all worried	•	•	• •		•	4	

Very worried	•••	•	1 40/
Somewhat worried	• •	•	2
Just a little worried	• •	•	3
Not at all worried	•••	•	4
No other household members (SKIP TO Q.72)	•		5

/1.	How worried are you about other members of your household being held up on
	the street, threatened, beaten up, or anything of that sort within the rest
	of the neighborhood? Would you say you are very worried, somewhat worried
	just a little worried, or not at all worried?

Very worried			•	•			1	41/
Somewhat worried	•	•		•		•	2	
Just a little worried.	÷			•	•	•	3	
Not at all worried	ţ		•	•	•		4	

- 72. During the last year, have you done any of the following to avoid crime in this neighborhood? Have you . . .
  - A. avoided using local public transportation in this neighborhood?

Yes.	,		•	•	•	•.	.•		•		•		•	•		1	42/
No .	•	•	•		•	•	•	•	• .	•	• •	•	•	•	•	2	
Haver	ı'.t	. ]	liv	veo	1	her	:e	a	ye	ear	<b>.</b>	•	•		•	3	

B. stayed in at night?

Yes.	;		•	•	•	•	•	•	÷			•	•	•	•	1	43/
No .	•		•	•	•		•					•	•	•	•	2	
Have	n't	: ]	lix	ved		her	re	а	ve	eat	r.			•		3	

C. arranged to have someone go with you when going somewhere in the neigh-borhood?

	Yes	• •		• •	• •	• •	•	• • •	•	1 44/
1	No	• •	• •	• •	• •	• •	•	• •	•	2
	Haven't	liv	ved h	ere	a ye	ear.	•	• •	•	3

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د رویدی از موجد میشد. ماهمان به باهیش ماهنین و میکان از باز ایکان از این

			Yes	No	
	а.	had a neighbor pick up your mail and newspapers while you were away?	1	2	45/
	b.	had a neighbor keep a watch on your home while you were away?	· 1	2	46/
	с.	engraved identification on valuables?	1	2	47/
	d.	installed a burglar alarm in your home?	1	2	48/
	е.	taken other security measures, such as using timers on your lights, putting bars on your windows, or adding new locks?	1	2	49/
	f.	kept a watch dog?	1	2	50/
	g.	kept a gun or other weapon at home?	1	2	51/
	h.	taken a course in self-defense?	1	2	52/
	<b>i</b> .	joined a program going on in the neighborhood to prevent or reduce crime, such as Neighborhood Watch, Citizen Alert, Block Parent, Business Watch, or a Citizen Patrol?	1	2 (SKIP 7 0.74	53/ 10 -)
		A. What program or programs did you join?			
			· · · · · · · · · · · · · · · · · · ·		54-5
				(	
					56-5
					56-5 58-5
					56-5 58-5
	Can or p	you think of any other things that you have done in the rotect yourself against crime in this neighborhood?	e last year		56-5 58-5 id
••••	Can or p	you think of any other things that you have done in the rotect yourself against crime in this neighborhood? Yes	e last year		56-5 58-5 id 60/
•	Can or p	you think of any other things that you have done in the rotect yourself against crime in this neighborhood? Yes No (SKIP TO 0	e last year  Q.75)	 to avor 1 2	56-5 58-5 id 60/
• • •	Can or p	you think of any other things that you have done in the rotect yourself against crime in this neighborhood? Yes No (SKIP TO 0 Haven't lived here (SKIP TO Q.75)	e last year  Q.75) a year )	 to avor 1 2 3	56-5 58-5 Id 60/
• •	Can or p A.	you think of any other things that you have done in the rotect yourself against crime in this neighborhood? Yes No (SKIP TO O Haven't lived here (SKIP TO Q.75 What were these things?	e last year  2.75) a year )	 to avor 1 2 3	56-5 58-5
	Can or p A.	you think of any other things that you have done in the rotect yourself against crime in this neighborhood? Yes No (SKIP TO O Haven't lived here (SKIP TO Q.75) What were these things?	e last year  Q.75) a year )	 to avor 1 2 3	56-5 58-5 id 60/
	Can or p A.	you think of any other things that you have done in the rotect yourself against crime in this neighborhood? Yes No (SKIP TO O Haven't lived here (SKIP TO Q.75) What were these things?	e last year  Q.75) a year )		56-5 58-5 id 60/ 61-6 63-6

75. How much of the information that you get about crime in your neighborhood comes from each of the following sources? First, do you get a great deal of information, some information, or no information at all about crime in your neighborhood from local neighborhood newsletters? REPEAT FOR b THROUGH d. CIRCLE ONE CODE ON EACH LINE.

		Great Deal	Some	None	]
a.	Local neighborhood newsletters	1	2	3	67/
Ъ.	Conversations with neighbors	1	2	3	68/
с.	Just keeping eyes and ears open	1	2	3	69/
d.	City newspapers, radio or T.V.	. 1	2	3	70/

76. Do you think anything could be done to reduce crime in this neighborhood?

Α.	What	kinds	of	things?	
				. 0	

		 		:	· .		72-73/
·							74-75/
•	·	 	· ·			······································	76-77/

Card	09	1-2/
ID #		3-6/

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to m to A	embers of your household ugust 1979, about 12 mon
77.	A. Since August 1979 in, for example, I fires, or anything
	B. How many times di
	IF ONLY ONE INCIDENT M MORE THAN ONE INCIDENT happened?" GOMPLETE " SECOND MOST RECENT INC ASK ABOUT THREE MOST R
a. ]	Did you know the person who damaged the building
b. 1	Did it happen
	<ol> <li>In your present residence?</li> </ol>
	<ol> <li>When you lived else- where in the neighbor borhood?</li> </ol>
: :	3. When you lived out- side the neighborhood
с.	Was the crime reported to the police?

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Now I'd like to ask you about some things that might have happened to you or embers of your household since the summer of 1979. I'd like you to think back ugust 1979, about 12 months ago.

> ), has anyone damaged or defaced the building you live by writing on the walls, breaking windows, setting ng like that?

> > > 8-9/

d this happen?

RECORD NUMBER:

HENTIONED, COMPLETE "MOST RECENT INCIDENT" COLUMN. IF I MENTIONED, SAY: "What about the last time this "MOST RECENT INCIDENT" COLUMN. THEN ASK ABOUT THE CIDENT, ETC. IF MORE THAN THREE INCIDENTS MENTIONED, RECENT INCIDENTS ONLY.

ſ	Most Recent	Second Most	Third Most
	<u>lncident</u>	<u>Recent Incident</u>	<u>Recent incluent</u>
	10/	13/	16/
	Yes 1	Yes 1	Yes 1
;?.	No2	No2	No2
	11/	14/	17/
	Present 1	Present 1	Present 1
	Elsewhere	Elsewhere	Elsewhere
r-	horhood 2	borhood 2	borhood 2
19	Outside 3	Outside 3	Outside 3
	12/	15/	18/
	Yes 1	Yes 1	Yes 1
	No2	No2	No 2
	Don't know . 8	Don't know . 8	Don't know . 8
	1		

78. A. Since August 1979, have you or other household members had a car stolen?

B. How many times did this happen?

RECORD NUMBER:

20-21/

IF ONLY ONE INCIDENT MENTIONED, COMPLETE "MOST RECENT INCIDENT" COLUMN. IF MORE THAN ONE INCIDENT MENTIONED, SAY: "What about the last time this happened?" COMPLETE "MOST RECENT INCIDENT" COLUMN. THEN ASK ABOUT THE SECOND MOST RECENT INCIDENT, ETC. IF MORE THAN THREE INCIDENTS MENTIONED, ASK ABOUT THREE MOST RECENT INCIDENTS ONLY.

	Most Recent	Second Most	Third Most
	Incident	Recent Incident	Recent Incident
	22/	26/	30/
a. Did this happen to you	Respondent . 1	Respondent . 1	Respondent . 1
or to someone else in your household?	Other 2	Other 2	Other 2
••• • ••••••••••••••••••••••••••••••••	23/	27/	31/
b. Did you/they know the	Yes 1	Yes 1	Yes 1
person who stole it?	No2	No2	No2
	24/	28/	32/
c. Did it happen in the	In 1	In 1	In 1
neighborhood or else- where?	Out 2	Out 2	Out 2
	25/	29/	33/
d. Was the crime reported	Yes 1	Yes1	Yes 1
to the police?	No2	No2	No2
	Don't know . 8	Don't know . 8	Don't know . 8

. 79	. A.	Sinc your	e Aug home	gust 2, ga	197 arag	79 ge
						•
1	В.	How	many	time	es c	lio
	IF ( MORE	ONLY O E THAN	NE IN	ICIDE INCI	ENT DEN	MI IT
	SECC ASK	ND MO ABOUT	ST RE	CENT CENT	T IN DST	IC RI
	<u></u>	<u> </u>				
а.	Did yo persor	ou/the 1 who	y kno broke	w th in?	le	
b.	Did th	nis ha	ppen	• •	•	
	1. In der	your ice?	prese	nt r	resi	-
	2. Whe whe bor	en you ere in Thood?	live the	d el neig	se- hbo	r-
	3. Whe sid	en you le the	live neig	d ou hbor	it- hoc	d?
с.	Was th to the	e cri poli	me re ce?	port	ed	
·	4 					

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. .

, did anyone break into or somehow illegally get into , or another building on your property?

d this happen?

# RECORD NUMBER:

35-36/

MENTIONED, COMPLETE "MOST RECENT INCIDENT" COLUMN. IF MENTIONED, SAY: "What about the last time this MOST RECENT INCIDENT" COLUMN. THEN ASK ABOUT THE CIDENT, ETC. IF MORE THAN THREE INCIDENTS MENTIONED, RECENT INCIDENTS ONLY.

Most Recent	Second Most	Third Most
Incident	Recent Incident	Recent Incident
37/ Yes1 No2	40/ Yes1 No2	43/ Yes1 No2
38/	41/	44/
Present 1	Present 1	Present 1
Elsewhere in Neigh- borhood 2	Elsewhere in Neigh- borhood 2	Elsewhere in Neigh- borhood 2
Outside 3	Outside 3	Outside 3
39/	42/	45/
Yes 1	Yes 1	Yes 1
No2	No2	No2
Don't know . 8	Don't know . 8	Don't know . 8

80. A. Other than what has been mentioned, has anyone stolen anything else from you or someone in your household since August 1979? Something like a bicycle, clothing, tools, money, a purse or wallet?

B. How many times did this happen?

The State of the second st

47-48/

Card 13 1-2/ ID # 3-6/

IF ONLY ONE INCIDENT MENTIONED, COMPLETE "MOST RECENT INCIDENT" COLUMN. IF MORE THAN ONE INCIDENT MENTIONED, SAY: "What about the last time this happened?" COMPLETE "MOST RECENT INCIDENT" COLUMN. THEN ASK ABOUT THE SECOND MOST RECENT INCIDENT, ETC. IF MORE THAN THREE INCIDENTS MENTIONED, ASK ABOUT THREE MOST RECENT INCIDENTS ONLY.

RECORD NUMBER:

		Most Recent Incident	Second Most Recent Incident	Third Most Recent Incident
		49/	55/	61/
		,	007	017
а.	Did this happen to you	Respondent . 1	Respondent . 1	Respondent . 1
-	your household?	Other 2	Other 2	Other 2
		50/	56/	62/
b.	Did it happen			
	<ol> <li>Within 2 blocks of your home?</li> </ol>	Within 2 blocks 1	Within 2 blocks 1	Within 2 blocks 1
	<ol> <li>Elsewhere in the neighborhood?</li> </ol>	Elsewhere in neigh- borhood 2	Elsewhere in neigh- borhood 2	Elsewhere in neigh- borhood 2
	5. Outside the neigh- borhood?	Outside 3	Outside 3	Outside 3
		51-52/	57-58/	63-64/
с.	Did it happen			
	1. on the street?	Street01	Street01	Street01
	2. in a park?	Park02	Park02	Park02
	3. at school?	School03	School03	School03
	4. at work?	Work04	Work04	Work 04
	5. at home?	Home05	Home 05	Home
	6. in a store?	Store06	Store06	Store
	7. or some other place?	Other (SPE- CIFY)07	Other (SPE- CIFY)07	Other (SPE- CIFY)07
				i
		53/	53/	65/
d.	Did you/they know the person who stole these	Yes1	Yes 1	Yes 1
	things?	No2	No2	No2
		54/	60/	56/
e.	Was the crime reported	Yes 1	Yes 1	Yes 1
	to the police?	No2	No	No 2
		Don't know . 8	Don't know . 8	Don't know . 8

a. Did this happen to or to someone els your household? b. Did it happen . . 1. Within 2 blocks your home? 2. Elsewhere in th neighborhood? 3. Outside the ne borhood? c. Did it happen . . 1. on the street? 2. in a park? 3. at school? 4. at work? 5. at home? ó. in a store? 7. or some other place? d. Did you/they know person who robbed them? e. Was the crime repo to the police? f. Were there any with nesses to the crim g. IF YES: Did anyon come to your/thei

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81. A. Since August 1979, did anyone take money or other belongings from you or from other members of your household by force? For example, did someone use a gun or knife, or in any other way force one of you to give them something that did not belong to them?

B. How many times did this happen?

RECORD NUMBER:

8-9/

- <u>- - - -</u>

IF ONLY ONE INCIDENT MENTIONED, COMPLETE "MOST RECENT INCIDENT" COLUMN. IF MORE THAN ONE INCIDENT MENTIONED, SAY: "What about the last time this happened?" COMPLETE "MOST RECENT INCIDENT" COLUMN. THEN ASK ABOUT THE SECOND MOST RECENT INCIDENT, ETC. IF MORE THAN THREE INCIDENTS MENTIONED, ASK ABOUT THREE MOST RECENT INCIDENTS ONLY.

	Most Recent	Second Most	Third Most
· · · · · · · · · · · · · · · · · · ·	Incident	Recent Incident	Recent Incident
	107	18/	20/
Did this happen to you	Respondent . 1	Respondent . 1	Respondent . 1
or to someone else in your household?	Other 2	Other 2	Other 2
,			
Did it happen	11/	19/	27/
<ol> <li>Within 2 blocks of your home?</li> </ol>	Within 2 blocks 1	Within 2 blocks 1	Within 2 blocks 1
<ol> <li>Elsewhere in the neighborhood?</li> </ol>	Elsewhere in neigh- borhood 2	Elsewhere in neigh- borhood 2	Elsewhere in neigh- borhood 2
3. Outside the neigh- borhood?	Outside 3	Outside 3	Outside 3
	12-13/	20-21/	28-29/
Did it happen		,	
1. on the street?	Street01	Street01	Street01
2. in a park?	Park02	Park 02	Park02
3. at school?	School03	School03	School03
4. at work?	Work04	Work	Work04
5. at home?	Home05	Home05	Home05
6. in a store?	Store06	Store06	Store06
<ol> <li>or some other place?</li> </ol>	Other (SPE- CIFY)07	Other (SPE- CIFY)07	Other (SPE- CIFY)07
·			
	14/	22/	30/
Did you/they know the	Yes 1	Yes 1	Yes 1
person who robbed you/ them?	No2	No2	No2
	15/	23/	31/
Was the crime reported	Yes 1	Yes 1	Yes 1
to the police?	No2	No 2	No2
	Don't know , 8	Don't know . 8	Don't know . 8
	16/	24/	32/
Were there any wit-	Yes 1	Yes1	Yes 1
nesses to the crime?	No2	No2	No2
	Don't know . 8	Don't know . 8	Don't know . 8
	17/	25/	33/
IF YES: Did anyone	Yes 1	Yes 1	Yes 1
aid during the crime?	No2	No2	No2
	Dont' know . 8	Don't know . 8	Don't know . 8
		mania	

82. A. Since August 1979, has anyone used violence against you or members of your household in an argument or quarrel, or in any other way attacked or assaulted one of you?

No . . . (SKIP TO Q.83). . . . . 2

B. How many times did this happen?

RECORD NUMBER:

35-36/

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IF ONLY ONE INCIDENT MENTIONED, COMPLETE "MOST RECENT INCIDENT" COLUMN. IF MORE THAN ONE INCIDENT MENTIONED, SAY: "What about the last time this happened?" COMPLETE "MOST RECENT INCIDENT" COLUMN. THEN ASK ABOUT THE SECOND MOST RECENT INCIDENT, ETC. IF MORE THAN THREE INCIDENTS MENTIONED, ASK ABOUT THREE MOST RECENT INCIDENTS ONLY.

		Most Recent	Second Most	Third Most
		Incident	Recent Incident	Recent Incident
		37/	45/	53/
a.	Did this happen to you	Respondent . 1	Respondent . 1	Respondent . 1
	or to someone else in	Other 2	Other 2	Other 2
	your nousenoid:			
		38/	46/	54/
b.	Did it happen			
	<ol> <li>Within 2 blocks of your home?</li> </ol>	Within 2 blocks l	Within 2 blocks 1	Within 2 blocks 1
	2. Elsewhere in the neighborhood?	Elsewhere in neigh- borhood 2	Elsewhere in neigh- borhood 2	Elsewhere in neigh- borhood 2
	3. Outside the neigh- borhood?	Outside 3	Outside 3	Outside 3
с,	Did it happen	39-40/	47-48/	55-56/
	1. on the street?	Street01	Street01	Street01
	2. in a park?	Park02	Park02	Park 02
	3. at school?	School03	School03	School03
	4. at work?	Work04	Work04	Work04
	5. at home?	Home05	Home05	Home05
	6. in a store?	Store06	Store06	Store06
	<ol><li>or some other place?</li></ol>	Other (SPE- CIFY)07	Other (SPE- CIFY)07	Other (SPE- CIFY),07
		41/	49/	57/
d.	Did you/they know the	Yes 1	Yes 1	Yes 1
	person who attacked you/them?	No2	No2	No2
		42/	50/	58/
c	Vac the orige reported	Voc 1	Voc	Ver 3
е.	to the police?		1051	
			No	
		DOD C KNOW . 8	Don't know . o	DOP C KNOW . 8
		43/	51/	59/
£.	Were there any wit-	Yes 1	Yes 1	Yes 1
	nesses to the crime?	No2	No2	No2
		Don't know . 8	Don't know . 3	Don't know . 8
	· · · · · · · · · · · · · · · · · · ·			
		44/	52/	20/
g٠	IF YES: Did anyone	Yes 1	Yes 1	Yes 1
	aid during the crime?	No 2	No2	No.,2
		Dont' know . 8	Don't know . 8	Don't know . 8
		1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	F Contraction of the second seco	

crimes that we haven't talked about?

A. What are they? FO MENTIONED, ASK B.

FOR EACH CRIME, IF ONLY ONE INCIDENT MENTIONED IN B, COMPLETE "MOST RECENT INCIDENT" COLUMN. IF MORE THAN ONE INCIDENT MENTIONED, SAY: "What about the last time this happened?" COMPLETE "MOST RECENT INCIDENT" COLUMN. THEN ASK ABOUT THE SECOND MOST RECENT INCIDENT, ETC. IF MORE THAN THREE INCIDENTS MENTIONED, ASK ABOUT THREE MOST RECENT INCIDENTS ONLY.

FOR FIRST CRIME MENTIONED IN A, ASK:

1. Did this happen to you or to someone else in your household?

2. Did you/they know the person who did it?

3. Did it happen in the neighborhood or elsewhere?

4. Was the crime reported to the police?

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83. Since August 1979, have you or other household members been the victim of any

			Yes.		 TO O 84)		. 1	61/
OR	EACH	CRIME	B.	How many time RECORD NUMBE	es did th R.	 nis hap	open?	
			62-63/		· · · · ·	· · · · · · · · · · · · · · · · · · ·		68-69/
			64-65/					70-71/
	سنۍ سمب		66-67/	•		· · · · · · · · · · · · · · · · · · ·		72-73/
						Card ID #	11	1-2/ 3-6/

	Most Recent	Second Most	Third Most
_	Incident	Recent Incident	<u>Recent Incident</u>
	7/	11/	15/
	Respondent . 1	Respondent . 1	Respondent . 1
	Other 2	Other 2	Other 2
	· ·		
	8/	12/	16/
	Yes 1	Yes 1	Yes 1
	No2	No2	No2
	9/	13/	17/
	In 1	In 1	In 1
	Out 2	Out 2	Out 2
	10/	14/	18/
	Yes 1	Yes 1	Yes 1
:	No2	No2	No2
	Don't know . 8	Don't know . 8	Don't know . 8

# QUESTION 83 CONTINUED.

# FOR SECOND CRIME MENTIONED IN A, ASK:

	Most Recent	Second Most	Third Most			
	Incident	Recent Incident	<u>Recent Incident</u>			
	19/	23/	27/			
1. Did this happen to you	Respondent . 1	Respondent . 1	Respondent . 1			
or to someone else in your household?	Other 2	Other 2	Other 2			
	20/	24/	28/			
2. Did you/they know the	Yes 1	Yes1	Yes 1			
person who did it?	No2	No2	No.,2			
	21/	25/	29/			
3. Did it happen in the	In 1	In 1	In 1			
neighborhood or else- where?	Out 2	Out 2	Out 2			
	22/	26/	30/			
4. Was the crime reported	Yes 1	Yes 1	Yes 1			
to the police?	No2	No 2	No2			
	Don't know . 🤶	Don't know . 8	Don't know . 8			

FOR THIRD CRIME MENTIONED IN A, ASK:

	Most Recent Incident	Second Most Recent Incident	Third Most Recent Incident
	31/	35/	39/
1. Did this happen to you	Respondent . 1	Respondent . 1	Respondent . 1
or to someone else in your household?	Other 2	Other 2	Other 2
	32/	36/	40/
2. Did you/they know the	Yes 1	Yes 1	Yes 1
person who did it?	No2	No2	No2
	33/	37/	41/
. Did it happen in the	In 1	In 1	In 1
neighborhood or else- where?	Out 2	Out 2	Out 2
	34/	38/	42/
. Was the crime reported	Yes 1	Yes 1	Yes 1
to the police?	No2	No2	No2
	Don't know . 8	Don't know . 8	Don't know . 8

84. First, in what year were you born?

85. In what year did you move into this neighborhood?

86. In what year did you move to Atlanta?

100

87. What is the highest regular school certificate, diploma or degree you have gotten? (SHOW CARD 2.)

Now I would like to ask some questions about you and your family.

Lived here all my life. . . . . 85

Lived here all my life. . . . . 85

None ever	•	•	01	51-52/
Some grade school	•	•	02	
8th grade or junior high		•	03	
Some high school		•	04	
High school diploma or				
equivalency degree	•	•	05	
Some college	•	•	06	
A.A. or junior college degree	•		07	
B.A. degree or B.S	•		08	
Masters degree	• '		09	
Ph.D	•		10	
Degree in law or medicine	•		11	
Other (SPECIFY)	· ·		12	

			90. Ar	e you currently
88. Are ONE NUM	you currently working full time, part time, keeping house, or what? CIRCLE CODE ONLY. IF MORE THAN ONE RESPONSE, GIVE PREFERENCE TO SMALLEST CODE ER THAT APPLIES AND RECORD OTHER RESPONSES VERBATIM.			
	Working full time (35 hours or more) . (SKIP TO Q.89) 01 53-54/			
	Working part time (1 to 34 hours) (SKIP TO Q.89) 02			
	With a job, but not at work because of illness, vaca- tion, or strike(ASK A) 03			
	Unemployed, laid off, looking for work . (ASK A) 04		91. In	what year was your hi
	Retired (SKIP TO Q.89) 05			
	Keeping house only (SKIP TO Q.90)06			
	In school only. (SKIP TO Q.90) 07			
	Other (SPECIFY) 08		00 11	· · · · · · · · · ·
Α.	When you do work, is that usually full time or part time?		92. Wha wif	t is the highest regu e has gotten? (SHOW
	Full time			
	Part time 2			
89. A.	What kind of work do (did) you do? That is, what is (was) your job called? IF MORE THAN ONE JOB, ASK ABOUT MAIN JOB HERE.			
	56-60/	42 MART NAMES	an an star An star	
Β.	What are (were) some of the main duties? What do (did) you actually do in that job?	27 TTL: 40 Mar 10 June 1		
С.	IF NECESSARY, ASK: What kind of business or industry is (was) that in?			
D.	Where is (was) your main place of work? Is (was) it in this neighborhood, downtown Atlanta, elsewhere in the city, in the suburbs, or where?			
	Neighborhood 01 61-62/			
	Downtown Atlanta 02			
	Elsewhere in Atlanta 03			
	Suburbs 04			
	Other (SPECIFY) 05			
<u> </u>				
	176			

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usband/wife born?

ular school certificate, diploma or degree your husband/ CARD 2.)

None ever 01 68-69/
Some grade school 02
8th grade or junior high 03
Some high school 04
High school diploma or equivalency degree 05
Some college 06
A.A. or junior college degree 07
B.A. degree or B.S 08
Masters degree 09
Ph.D 10
Degree in law or medicine 11
Other (SPECIFY) 12

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93	. Is CI CO	he/she currently working full time, part time, keeping house, or what? RCLE ONE CODE ONLY. IF MORE THAN ONE RESPONSE, GIVE PREFERENCE TO SMALLEST DE NUMBER THAT APPLIES AND RECORD OTHER RESPONSES VERBATIM.		<b>6</b>	
		Working full time (35 hours or more) . (SKIP TO Q.94) 01 70-3	71/	9.	5. Here is an answer card f tell me the letter on th
		Working part time (1 to 34 hours) (SKIP TO Q.94) 02			in 1979 <u>before taxes</u> ?
		With a job, but not at work because of illness, vaca- tion, or strike(ASK A) 03			RECC
		Unemployed, laid off, looking for work . (ASK A)		91	5. <u>RECORD BY OBSERVATION</u> .
		Retired (SKIP TO Q.94) 05		and the second se	IS RESPONDENT:
		Keeping house only (SKIP TO Q.95)		a la contra de la co	
		In school only. (SKIP TO Q.95) 07 Other (SPECIFY)08		vening and the second sec	
	Α.	When he/she does work, is that usually full time or part time?		n na	
		Full time		9	7. RECORD BY OBSERVATION.
		Part time			A. HOUSING TYPE:
94.	Α.	What kind of work does (did) he/she do? That is, what is (was) his/her job called? IF MORE THAN ONE JOB, ASK ABOUT MAIN JOB HERE.			
		73-7	7/		
	Β.	What are (were) some of the main duties? What does (did) he/she actually do in that job?			
				and the second	
	C.	IF NECESSARY, ASK: What kind of business or industry is (was) that in?			B. NUMBER OF STORIES (
	D.	Where is (was) his/her main place of work? Is (was) it in this neigh- borhood, downtown Atlanta, elsewhere in the city, in the suburbs, or where?			
		Neighborhood			
		Downtown Atlanta			
		Elsewhere in Atlanta 03	1989 - A.		
		Suburbs 04			*U.S. GOVERNMENT PRINTING OFFICE : 1982 0-361-2
		Other (SPECIFY)05		A.	

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# Card 12 1-2/ ID #\_\_\_\_\_ 3-6/

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for the next question (SHOW CARD 3). Would you please the card which best represents your total <u>family income</u>

CORD LETTER . . .

7-8/

IF NOT OBVIOUS, ASK.

White.			•	•	•		•	•	•			•		1	9/
Black.	•	•	•				•		•	•	•	•	•	2	
Hispani	с	•	•	•	•	•	•	•	·.	•		•		3	
Other.	•	•	•,		•	•	•	•		•	•	•	•	4	

Single family unattached house01	10-11/
Twin or duplex house	
Row house or townhouse03	
Apartment 6 or less units04	
Apartment more than 6 units05	
Rooming house	
Nobile home	
Other (SPECIFY) 08	

(FROM GROUND FLOOR UP):

1	• ,•		• • •	, . <u>.</u>	. 1 12/
2		• •	• • •	• • •	. 2
3	••	• •	· · · ·	• • .	. 3
4 or more	• •	• •	• • •		. 4
					a.m.
FINISH TIME:					p.m.

233/1848

PHONE NUMBER:



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September 24, 1981

# FINAL REPORT

# Safe and Secure Neighborhoods: Physical Characteristics and Informal Territorial Control in High and Low Crime Neighborhoods

By:

Stephanie W. Greenberg William M. Rohe Jay R. Williams

Submitted to:

Community Crime Prevention Division National Institute of Justice

Prepared Under Grant No. 79-NI-AX-0080

APPENDIX A

Household Survey Estimation Procedures

# APPENDIX A

# Household Survey Estimation Procedures

# A. Estimates of Totals

Unbiased estimates of population totals can be obtained for each neighborhood. The weights assigned to each housing unit were based on the sample design and computed as:

$$w(i) = N(i)/n(i)$$

where

and the subscription of th

w(i) = weight to be assigned each housing unit in neighborhood i;

N(i) = total housing units in neighborhood i; and

n(i) = sample size (132 housing units) selected from neighborhood i;

Suppose a population total is defined for neighborhood i as

$$T_{x}(i) = \sum_{k=1}^{N(i)} X(ij)$$

where

X(ij) = variate value for housing unit j of neighborhood i.

An unbiased estimate of  $T_v(i)$  based on sample data can be expressed as

$$T_{x}(i) = \sum_{k=1}^{n(i)} w(i) X(ij)$$

where summation over k is only over sample members rather than over the entire population.

### Variance of Estimates of Totals Β.

Variance estimates were based on a collapsed stratum (zone) formula as discussed by Cochran (1977, p. 141) or by Hansen, Hurwitz, and Madow (1953, p. 419). This method provides a generally conservative estimate of variance by considering the sample elements of two adjacent zones as belonging to the same stratum for variance estimation purposes. When the total sample size is an odd number (33), one collapsed stratum must be defined to contain three sampling units.

# a neighborhood total may be written as

where

$$V[T_{x}(\hat{i})]$$

where

and

 $X(i\bar{j}) =$ 

Computational formulas for these variance estimates are programmed into standard survey data analysis software available at RTI (Shah, 1979).

Nonlinear Estimates C.

Most statistics of interest based on sample survey data will be expressed as certain nonlinear function of estimated totals. For example, the mean number of friends for persons in neighborhood A could be estimated as the ratio of  $T_{\gamma}$ , the estimated total friends reported by persons in neighborhood A to  $T_{\chi}$ , the estimated total number of persons in neighborhood A. Algebraically

If the collapsed strata are indexed by  $j=1,2,\ldots, J(i)$ , the estimation of

$$T_{x}(i) = \sum_{j=1}^{J(i)} \sum_{k=1}^{n(ij)} w(i)X(ijk)$$

n(ij) = number of housing units assigned to collapsed stratum j; and

X(ijk) = the observed variate value for the kth sample member of collapsed stratum j of neighborhood i.

The variance of this estimator is then estimated by

$$= \sum_{\substack{j=1 \\ j=1}}^{J(i)} n(ij) s_{\chi}^{2}(ij)$$

Note that n(ij) is constrained to be either 2 or 3 and that

$$J(i)$$

$$\sum_{\substack{j=1 \\ j=1}} n(ij) = n(i).$$

such an estimator,  $R_c$ , can be written as

Note that since weights were consistent within neighborhood and all reported statistics were based on ratio-type estimates, the weights cancelled in the final calculation of neighborhood-level estimates. Since the weight cancelled in every case, the actual analyses were conducted as unweighted analyses (all weights equal to one); this procedure was equivalent to the weighting procedures discussed above.

 $\hat{R}_{c} = \hat{T}_{y}/\hat{T}_{x}$ 

Variances of nonlinear estimates can be approximated by several methods; one of these methods is the first-order Taylor-series approximation method. A convenient computational method for Taylor-series variance estimations is suggested by Woodruff (1971) and is incorporated into RTI survey data analysis software (Shah, 1979).

### D. Nonresponse Adjustment

Weighting class adjustment procedures to minimize the effects of differential nonresponse rates were considered. Known characteristics for respondents and nonrespondents (defined at the property level) were examined and found to be similar for the two groups within each neighborhood. Since the sampling weights were equal within neighborhood and only means or rates (ratio-type estimates) were reported, any neighborhood level weight adjustments would have cancelled out in the analyses. Consequently, no nonresponse weight adjustments were utilized.

Chromy, James R. "Sequential Sample Selection Methods," 1979 Proceedings of the Section on Survey Research Methods, Washington, D.C. American Statistical Association, 1979.

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Woodruff, Ralph S. "Simple Method for Approximating Variance of a Complicated Estimate," Journal of the American Statistical Association, 66, 411-414,



# APPENDIX B

Prediction of Subjective Reactions to Crime - Neighborhood Pairs

### Table 1. Objective Crime Model

LOWER VIRGINIA-HIGHLAND AND UPPER VIRGINIA-HIGHLAND

	v <sub>1</sub>	V <sub>2</sub>	V <sub>3</sub>	V <sub>4</sub>	۷ <sub>5</sub>	۷	V <sub>7</sub>	٧ <sub>8</sub>	٧ <sub>9</sub>	V <sub>10</sub>	R <sup>2</sup>
Reactions to Crime	β (۶)	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	
Fear of Neighborhood Crime Index	.007 (0.72)	158 (0.44)	244 (0.23)	014 (0.71)	533 (0.97)	.044 (2.80)	271 (0.23)	.020 (0.31)	.872 (1.10)	046 (0.96)	. 039
Worry Over Crime Index	.006 (0.12)	540 (1.06)	-1.54 (1.84)	.044 (1.41)	.203 (0.03)	006 (0.01)	.301 (0.06)	025 (C.10)	1.54 (0.73)	011 (0.01)	. 066
Avoidance Index	.011 (10.58)**	365 (10.36)**	.011 (0.00)	0003 (0.00)	546 (4.63)*	.020 (2.52)	240 (0.83)	.0006 (0.00)	.879 (5.11)*	018 (0.65)	. 198
Protection Index	.006 (0.55)	074 (0.07)	383 (0.40)	.010 (0.24)	.322 (0.26)	040 (1.61)	.762 (1.36)	035 (0.69)	212 (0.05)	.051 (0.86)	. 05
People Who Say There is Little or no Crime in Entire Neighborhood	0006 (0.10)	.079 (1.44)	152 (1.15)	004 (0.57)	093 (0.40)	0009 (0.01)	139 (0.82)	.004 (0.17)	.020 (0.01)	001 (0.01)	. 06!

 $\begin{array}{l} {V_1} = \text{ age of respondent.} \\ {V_2} = \text{ sex (male).} \\ {V_3} = \text{ race (black).} \\ {V_4} = \text{ total crimes per 100 residential units in respondent's block.} \\ {V_5} = \text{ interaction between V}_4 \text{ and V}_5. \\ {V_6} = \text{ victim of any crime in last year (respondent or household member)} \\ {V_7} = \text{ victim of between V}_4 \text{ and V}_7. \\ {V_9} = \text{ interaction between V}_5 \text{ and V}_7. \\ {V_9} = \text{ interaction between V}_5 \text{ and V}_7. \\ {V_10} = \text{ interaction between V}_4, {V_5} \text{ and V}_7. \end{array}$ 

\* = p < .05. \*\* = p < .01.

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 $\frac{1}{1}$  In multiple regression, an adjustment must be made on the squared multiple currelation coefficient in order to correct for the degrees of freedom eliminated in the predicion of the dependent variable. The total number of degrees of freedom equals the number of observations minus the number of constraints placed on the observations. One degree of freedom is eliminated for each independent variable used to predict the independent variable. With each reduction in degrees of freedom the R<sup>2</sup> is increased. If there is a large number of independent variables relative to the number of cases, the R<sup>2</sup> will be misleadingly high. Therefore, it is necessary to adjust for the number of predictors used, according to the formula:

$$\bar{R}^2 = 1 - (1 - R^2) \frac{N - 1}{N + 1}$$

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where N = the sample size and k = the number of independent variables in the equation.

SOURCE: Household Survey; Crimes in Blocks - Atlanta Bureau of Police Reported Crime Tape.



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			LOWER V	Table IRGINIA-HI	2. Ecolo GHLAND ANE	ogical Mod ) UPPER VI	le] RGINIA-HI	GHLAND												
Reactions to Crime	ν <sub>1</sub> β (F)	ν <sub>2</sub> (F)	ν <sub>3</sub> β (F)	ν <sub>4</sub> β (F)	ν <sub>5</sub> β (F)	ν <sub>6</sub> β (F)	ν <sub>7</sub> β (F)	ν <sub>8</sub> β (F)	ν <sub>9</sub> β (F)	ν <sub>10</sub> β (F)	R <sup>2</sup>	<u><u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u>	<u>-</u>				×			
Fear of Neighborhood Crime Index	.006 (0.52)	147 (0.38)	411 (0.66)	.054 (0.03)	.448 (0.06)	457 (2.83)	.519 (0.09)	139 (0.21)	-1.04 (2.30)	.265 (0.77)	. 054	.014							•	
Worry Over Crime Index	003 (0.03)	592 (1.26)	-1.93 (2.88)	.831 (1.30)	.80 (0.04)	-1.07 (3.12)	3.24 (0.74)	059 (0.01)	-1.27 (0.72)	.417 (0.40)	.064	.001								
Avoidance Index	.012 (11.66)**	325 (7.78)**	.023 (0.01)	026 (0.03)	1.00 (1.30)	.082 (0.37)	612 (0.53)	.052 (0.12)	038 (0.01)	125 (0.73)	.145**	.087								
Protection Index	006 (0.52)	251 (0.89)	149 (0.07)	.799 (4.72)*	2.03 (1.01)	.069 (0.05)	2.55 (1.77)	.109 (0.10)	.624 (0.68)	1.43 (19.01)**	. 148**	.091				-				
People Who Say There is Little or no Crime in Entire Neighborhoo	e0005 d (0.07)	.073 (1.28)	132 (0.89)	073 (0.66)	640 (1.70)	05 (0.42)	.364 (0.61)	087 (1.11)	013 (0.01)	.106 (1.77)	. 086	. 025								
$V_1$ = age of respo $V_2$ = sex (male). $V_3$ = race (black) $V_4$ = high crime n $V_5$ = percent of p $V_6$ = maj(r thorou $V_6$ = percent of p $V_7$ = whether or n $V_8$ = percent of r $V_9$ = whether or n $V_{10}$ = whether or n	ndent. eighborhood arcels in r ghfare goin arcels with ot responde esidential i ot a respon	espondent's g through t in a block nt's block units that dent lives	s block w block. with vaca is 95 per are sing in a sing	ith commer ant land. rcent or m le family gle family	cial land ore reside dwellings. unattache	use. ntial. d house.									an a					
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<u>l</u> /In multiple to correct for the degrees of freedow One degree of free each reduction in relative to the m the number of pre-	e regression e degrees o m equals the edom is elin degrees of umber of ca dictors use	n, an adjus f freedom a e number of minated for freedom th ses, the R <sup>4</sup> d, accordir	stment mus liminated f observal r each ind be R <sup>-</sup> is will be ng to the	st be made 1 in the p tions minu dependent increased. misleadin formula:	on the so redicion o s the numb variable u If there gly high.	uared mul f the dep er of con sed to pr is a lar Therefor	tiple cor endent va straints edict the ge number e, it is	relation c riable. 1 placed on independe of indepen necessary	coefficier The total the obser ent variat endent var to adjust	nt in orden number of vations. ble. With riables for	<b>P</b>									
				$\bar{R}^2 = 1$	- (1-R <sup>2</sup> )	N-1 N-k-T									114 					
where N = the sam SOURCE: Household Thoroughf	ple size an I Survey. Ho ares - Atla	d k = the r using Chara nta Bureau	number of acteristic of Plann	independe s of Bloc ing, Major	nt variabl k - PLAN F Thoroughf	es in the ile; Loca are Plan	equation tion of 将 Map.	ajor												
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				1						<b>*</b>							•			

$$\bar{R}^2 = 1 - (1 - R^2) \frac{N - 1}{N - k - 1}$$

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### Table 3. Local Ties Model

LOWER VIRGINIA-HIGHLAND AND UPPER VIRGINIA-HIGHLAND

					1						
	v	V <sub>2</sub>	v <sub>3</sub>	v <sub>4</sub>	V <sub>5</sub>	v <sub>6</sub>	V <sub>7</sub>	٧ <sub>8</sub>	V <sub>9</sub>	V10	R <sup>2</sup>
Reactions to Crime	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	
Fear of Neighborhood Crime Index	.008 (0.00)	243 (0.89)	.013 (0.00)	. 398 (2. 17)	.009 (0.27)	.042 (3.39)	027 (2.23)	099 (1.49)	069 (0.34)	.521 (1.46)	.085
Worry Over Crime Index	023 (0.67)	691 (1.47)	-1.28 (1.24)	1.35 (5.35)*	.023 (0.40)	.132 (6.75)*	026 (0.42)	305 (2.88)	.002 (0.00)	011 (0.00)	.10
Avoidance Index	.005 (0.67)	258 (4.06)*	.042 (0.03)	.139 (1.09)	.012 (2.22)	.008 (0.45)	004 (0.14)	017 (0.18)	.029 (0.24)	025 (0.01)	.147
Protection Index	010 (0.52)	022 (0.01)	411 (0.56)	143 (0.26)	.029 (2.94)	.030 (1.49)	.041 (4.39)*	.001 (0.00)	.314 (6.29)*	.923 (3.94)*	. 234
People Who Say There is Little or no Crime in Entire Neighborhood	004 (1.02)	.080 (1.25)	150 (1.07)	103 (1.97)	.007 (2.44)	.006 (0.81)	002 (0.09)	.007 (0.08)	027 (0.64)	.028 (0.05)	. 079

V1 = age of respondent. V2 = sex (male). V3 = race (black). V4 = high crime neighborhood. V5 = number of years in neighborhood. V5 = number of good friends in neighborhood. V6 = frequency of neighborhood facilities used. V7 = variety of neighborhood facilities used. V8 = number of organizations belonged to. V10 = ratio of neighborhood organization membership to = ratio of neighborhood organization membership to total organizations membership.

× = p < .05.

\*\* = p < .01.

1'In multiple regression, an adjustment must be made on the squared multiple correlation coefficient in order to correct for the degrees of freedom eliminated in the predicion of the dependent variable. The total number of degrees of freedom equals the number of observations minus the number of constraints placed on the observations. One degree of freedom is eliminated for each independent variable used to predict the independent variable. With each reduction in degrees of freedom the R<sup>2</sup> is increased. If there is a large number of independent variables relative to the number of cases, the R<sup>2</sup> will be misleadingly high. Therefore, it is necessary to adjust for the number of predictors used, according to the formula:

$$\bar{R}^2 = 1 - (1 - R^2) \frac{N - 1}{N - k - 1}$$

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where N = the sample size and k = the number of independent variables in the equation.



# Table 4. Social Cohesion Model

LOWER VIRGINIA-HIGHLAND AND UPPER VIRGINIA-HIGHLAND

Reactions to Crime	ν <sub>1</sub> β (F)	ν <sub>2</sub> β (F)	<sup>V</sup> 3 β (F)	ν <sub>4</sub> (F)	ν <sub>5</sub> β (F)	ν <sub>6</sub> β (F)	ν <sub>7</sub> β (F)	ν <sub>8</sub> (F)	ν <sub>9</sub> β (F)	R <sup>2</sup>	
Fear of Neighborhood Crime Index	.002 (0.05)	157 (0.43)	467 (0.84)	.097 (0.15)	933 (11.68)**	.074 (0.06)	.016 (0.35)	.060 (0.01)	.054 (2.06)	. 108	
Worry Over Crime Index	.0001 (0.00)	481 (0.78)	-2.19 (3.48)	.761 (1.80)	-1.19 (3.64)	.159 (0.06)	. 101 (2.58)	623 (0.20)	~.014 (0.03)	. 085	
Avoidance Index	.010 (7.33)**	264 (5.05)*	133 (0.27)	.056 (0.20)	169 (1,57)	068 (0.22)	.017 (1.50)	.463 (2.31)	032 (2.98)	. 155**	
Protection Index	.008 (1.11)	.290 (1.31)	336 (0.37)	.338 (1.61)	.024 (0.01)	1.12 (12.83)**	.090 (9.47)**	1.72 (6.81)*	014 (0.12)	. 287**	
People Who Say There is Little or no Crime in Entire Neighborhood	0005 (0.07)	.112 (2.70)	114 (0.59)	096 (1.80)	0003 (0.00)	.121 (2.06)	0006 (0.01)	.082 (0.22)	005 (0.17)	.069	

 $V_1 = \text{age of respondent.}$   $V_2 = \text{sex (male).}$   $V_3 = \text{race (black).}$   $V_4 = \text{high crime neighborhood.}$   $V_5 = \text{those who feel that residents have control over what goes on in neighborhood.}$   $V_5 = \text{those who feel that neighborhood is real home.}$   $V_7 = \text{information exchange with neighbors.}$   $V_8 = \text{neighborhood sources of crime information in ratio to total source of crime information.}$   $V_9 = \text{index of perceived similarities,}$ 

\* = p < .05.

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\*\* <sup>™</sup> <sup>₩</sup> = μ < .01.

 $\frac{1}{2}$  In multiple regression, an adjustment must be made on the squared multiple correlation coefficient in order to correct for the degrees of freedom eliminated in the predicion of the dependent variable. The total number of degrees of freedom equals the number of observations minus the number of constraints placed on the observations. One degree of freedom is eliminated for each independent variable used to predict the independent variable. With each reduction in degrees of freedom the R<sup>2</sup> is increased. If there is a large number of independent variables relative to the number of cases, the R<sup>2</sup> will be misleadingly high. Therefore, it is necessary to adjust for the number of predictors used, according to the formula:

$$\bar{R}^2 = 1 - (1 - R^2) \frac{N - 1}{N - k - 1}$$

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where N = the sample size and k = the number of independent variables in the equation.



# Table 5. Social Control Model

LOWER VIRGINIA-HIGHLAND AND UPPER VIRGINIA-HIGHLAND

······································	v	V <sub>2</sub>	V <sub>3</sub>	V <sub>4</sub>	V <sub>5</sub>	V <sub>6</sub>	۷7	٧,	٧ <sub>9</sub>	R <sup>2</sup>
Reactions to Crime	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	
Fear of Neighborhood Crime Index	.013 (1.83)	.095 (0.12)	693 (1.24)	. 146 (0. 20)	.899 (9.28)**	.412 (0.59)	.110 (2.05)	244 (1.15)	.257 (0.75)	. 185*
Worry Over Crime Index	.009 (0.21)	419 (0.48)	-1.30 (0.94)	.530 (.060)	1.41 (5.09)*	156 (0.02)	.497 (10.17)**	.239 (0.23)	152 (0.06)	. 231*
Avoidance Index	.012 (9.96)**	331 (6.84)*	.109 (0.15)	119 (0.68)	.182 (1.92)	.468 (3.63)	.139 (17.92)**	045 (0.19)	.036 (0.07)	.316*
Protection Index	.015 (2.59)	197 (0.44)	546 (0.67)	114 (0.11)	211 (0.47)	927 (2.55)	.106 (1.88)	.031 (0.02)	.666 (4.34)*	.164*
People Who Say Th₂re is Little or no Crime in Entire Neighborhood	0008 (0.10)	.072 (0.86)	159 (0.84)	193 (4.78)*	. 146 (3. 34)	0.04 (0.07)	009 (0.19)	069 (1.18)	.044 (0.29)	.126

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V1 = age of respondent. V2 = sex (male). V3 = race (black). V4 = high crime neighborhood. V5 = people who watch for suspicious people in neighborhood. V5 = percent who say it is easy to tell a stranger in neighborhood. V6 = number of areas avoided in entire neighborhood. V7 = percent of big problems for which took some direct action. V9 = percent of disturbances for which took some direct action.

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\*\* = p < .01.

 $1^{\prime}$ In multiple regression, an adjustment must be made on the squared multiple correlation coefficient in order to correct for the degrees of freedom eliminated in the predicion of the dependent variable. The total number of degrees of freedom equals the number of observations minus the number of constraints placed on the observations. One degree of freedom is eliminated for each independent variable used to predict the independent variable. With each reduction in degrees of freedom the R<sup>2</sup> is increased. If there is a large number of independent variables relative to the number of cases, the R<sup>2</sup> will be misleadingly high. Therefore, it is necessary to adjust for the number of predictors used, according to the formula:

$$\tilde{R}^2 = 1 - (1 - R^2) \frac{N - 1}{N - k - 1}$$

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where N = the sample size and k = the number of independent variables in the equation.



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# Table 6. Neighborhood Problems Model

LOWER VIRGINIA-HIGHLAND AND UPPER VIRGINIA-HIGHLAND

Reactions to Crime	ν <sub>1</sub> β (F)	ν <sub>2</sub> β (F)	ν <sub>3</sub> β (F)	V <sub>4</sub> (F)	ν <sub>5</sub> β (F)	ν <sub>6</sub> β (F)	ν <sub>7</sub> β (F)	R <sup>2</sup>	<u>R<sup>2</sup> 1</u> /	
Fear of Neighborhood Crime Index	.011 (1.57)	215 (0.60)	.336 (0.33)	.186 (0.37)	286 (0.25)	017 (0.08)	. 198 (2.57)	.066	. 001	
Worry Over Crime Index	.008 (0.18)	778 (1.48)	-1.68 (1.48)	.719 (1.04)	1.36 (1.04)	.077 (0.37)	.429 (2.33)	. 113	. 053	
Avoidance Index	.013 (12.89)**	546 (16.51)**	.132 (0.20)	180 (1.43)	.338 (1.26)	.033 (1.47)	. 101 (2.89)	. 264**	. 215	
Protection Index	.005 (0.25)	202 (0.37)	-1.09 (2.34)	. 222 (0. 37)	.933 (1.79)	.049 (0.55)	.005 (0.00)	.055	.007	
eople Who Say There is Little or no Crime in Entire Neighborhood	003 (1.32)	. 152 (3. 36)	260 (2.10)	073 (0.64)	.277 (2.50)	006 (0.13)	091 (6.17)*	. 138*	. 081	

V1 = age of respondent. V2 = sex (male). V3 = race (black). V4 = high crime neighborhood. V5 = people who feel neighborhood has gotten better in last years. V6 = number of big problems. V6 = number of disturbances seen or heard in neighborhood in last year.

\* = p < .05.

\*\* = p < .01.

 $\frac{1}{1}$  In multiple regression, an adjustment must be made on the squared multiple correlation coefficient in order to correct for the degrees of freedom eliminated in the predicion of the dependent variable. The total number of degrees of freedom equals the number of observations minus the number of constraints placed on the observations. One degree of freedom is eliminated for each independent variable used to predict the independent variable. With each reduction in degrees of freedom the R<sup>c</sup> is increased. If there is a large number of independent variables the number of cases, the R<sup>c</sup> will be misleadingly high. Therefore, it is necessary to adjust for the number of predictors used, according to the formula:

 $\bar{R}^2 = 1 - (1 - R^2) \frac{N - 1}{N - k - 1}$ 

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where N = the sample size and k = the number of independent variables in the equation.

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		Table 7. Best Prediction Models, Lower Virginia Highland and Upper Virginia Highland.																
Reactions to Crime	ν <sub>1</sub> β (F)	ν <sub>2</sub> β (F)	ν <sub>3</sub> β (F)	V <sub>4</sub> β (F)	V <sub>5</sub> β (F)	ν <sub>6</sub> β (F)	ν <sub>7</sub> β (F)	<b>V<sub>8</sub></b> β (F)	V <sub>9</sub> β (F)	ν <sub>10</sub> β (F)	ν <sub>11</sub> β (F)	ν <sub>12</sub> β (F)	ν <sub>13</sub> β (F)	ν <sub>14</sub> β (F)	ν <sub>15</sub> β (F)	ν <sub>16</sub> β (F)	ν <sub>17</sub> β (F)	R <sup>2</sup>
Fear of Neighborhood Crime Index			-					,		1.03 (20.84)**	761 (12.29)**							.197**
Worry Over Crime Index			007 (0.00)							1.34 {6,31}*		.051 (1.51)	.570 (20.92)**					.221**
Avoidance Index	.014 (17.90)**	—.286 (6.81)*	232 (2.77)	.317 (4.15)"									.129 (21.93)**	•				.268**
Protection Index			,324 (1.16)		.019 (1.07)	,176 (1.93)	.594 (1.85) (	.985 10.26)**						.278 (1.01)	.714 (5.59)*	.038 (1.31)	.794 (1,33)	.320**
People Who Say There is Little or No Crime in Entire Neighborhood			106 (2.47)						063 (6.77)									.079**

# $V_1 = age of respondent.$

V<sub>2</sub> = sex (male).

 $V_3^2$  = high crime neighborhood.

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 $V_4$  = interaction between  $V_3$  and victim of any crime in last year

(respondent or household member).

V<sub>5</sub> = frequency of neighboring in entire neighborhood.

V<sub>6</sub> ≈ number of organizations belonged to. V<sub>7</sub> ≈ ratio of neighborhood organization membership to total organization

memberships.

 $V_{B} =$  whether or not a respondent lives in a single-family unattached house.

 $V_{g}$  = number of disturbances seen or heard in neighborhood in last year.  $V_{10}^{\sigma}$  = people who watch for suspicious people in neighborhood.

 $V_{11}^{10}$  = those who feel residents have control over what goes on in neighborhood.

 $V_{12} =$  number of good friends in neighborhood.  $V_{13} =$  number of areas avoided in entire neighborhood.

- $V_{14}^{10}$  = percent of disturbances for which took some direct action.
- $V_{15} =$  those who feel that neighborhood is real home.
- $V_{16}^{10}$  = information exchange with neighbors.
- $V_{17}^{10}$  = neighborhood source of crime information in ratio to total sources of crime information.

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\* = p < .05 \*\* = p < .01

1/ In multiple regression, an adjustment must be made on the squared multiple correlation coefficient in order to correct for the degrees of freedom eliminated in the prediction of the dependent variable. The total number of degrees of freedom equals the number of one dependent variable, the total number of degrees of freedom equals the number of observations minus the number of constraints placed on the observations. One degree of freedom is eliminated for each independent variable used to predict the dependent variable. With each reduction in degrees of freedom, the R<sup>2</sup> is increased. If there is a large number of independent variables relative to the number of cases, the  $\mathbb{R}^2$  will be misleadingly high. Therefore, it is necessary to adjust for the number of predictors used, according to the formula:

# $\overline{R}^2 = 1 - \{1 - R^2\} \frac{N-1}{N-k-1}$

where N = the sample size and  $\mathbf{k}$  = the number of independent variables in the equation.

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Source: Household Survey.

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# Table 8. Objective Crime Model GROVE PARK AND DIXIE HILLS

Reactions to Crime	ν <sub>1</sub> β (F)	ν <sub>2</sub> β (F)	V <sub>3</sub> β (F)	V <sub>4</sub> (F)	ν <sub>5</sub> β (F)	ν <sub>6</sub> β (F)	ν <sub>7</sub> β (F)	ν <sub>8</sub> (F)	ν <sub>g</sub> β	R <sup>2</sup>
Fear of Neighborhood Crime Index	015 (4.92)*	736 (9.12)**	013 (2.40)	447 (1.17)	.020	.453	.012	. 110	020	: · ·
Worry Over Crime Index	094 (24.61)**	-1.96 (8.02)**	~.023 (0.94)	.118 (0.01)	. 022 (0, 10)	2.55 (5.02)*	010 (0.08)	(0.03)	(0,44) .021	. 133**
Avoidance Index	.005 (1.78)	573 (16.19)**	010 (3.88)*	.266 (1.21)	.005 (0.20)	.624 (7,19)**	.003	764 (4.15)*	.022	· 232**
People Who Say There	~.00009 (0.00)	.327 (1.18)	013 (1.49)	-1.22 (4.78)*	.045 (2.31)	613 (1.53)	.023 (2.27)	.620 (0.61)	060 (2.63)	068
in Entire Neighborhood	.001 (0.47)	.039 (0.57)	002 (1.52)	267 (9.38)**	.010 (3.61)	204 (5.92)*	.002 (0.77)	.390 (8.30)**	012 (3.79)*	. 081

\* = p < .05.

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\*\* = p < .01.

 $\frac{1}{1}$  In multiple regression, an adjustment must be made on the squared multiple correlation coefficient in order to correct for the degrees of freedom eliminated in the predicion of the dependent variable. The total number of degrees of freedom equals the number of observations minus the number of constraints placed on the observations. One degree of freedom is eliminated for each independent variable used to predict the independent variable. With each reduction in degrees of freedom the R<sup>-</sup> is increased. If there is a large number of independent variables the number of cases, the R<sup>-</sup> will be misleadingly high. Therefore, it is necessary to adjust for the number of predictors used, according to the formula:

 $\bar{R}^2 = 1 - (1 - R^2) \frac{N - 1}{N - k - 1}$ 

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where N = the sample size and k = the number of independent variables in the equation.

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SOURCE: Household Survey; Crimes in Blocks - Atlanta Bureau of Police Reported Crime Tape.

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### Table 9. Ecological Model GROVE PARK AND DIXIE HILLS

Reactions to Crime	ν <sub>1</sub> β (F)	ν <sub>2</sub> β (F)	V <sub>3</sub> β (F)	V <sub>4</sub> β (F)	ν <sub>5</sub> (F)	ν <sub>6</sub> β (F)	ν <sub>7</sub> β (F)	ν <sub>8</sub> β (F)	ν <sub>9</sub> β (F)	R <sup>2</sup>	<u>R</u> <sup>2</sup> <u>1</u>
Fear of Neighborhood Crime Index	013 (3.37)	751 (9.37)**	6.49 (2.77)	.021 (0.00)	462 (0.14)	051 (0.02)	430 (0.67)	043 (0.02)	371 (2.03)	. 140**	. 092
Worry Over Crime Index	101 (23.73)**	-2.19 (9.49)**	8.34 (0.53)	168 (0.04)	521 (0.02)	034 (0.00)	. 131 (0.01)	394 (0.18)	170 (0.05)	. 200**	. 156
Avoidance Index	.005 (1.69)	488 (11.05)**	.309 (0.02)	014 (0.01)	1.44 (3.56)	.079 (0.13)	416 (1.72)	069 (0.13)	.089 (0.32)	. 151**	. 105
<sup>p</sup> rotection Index	008 (0.80)	.220 (0.55)	2.81 (0.35)	277 (0.55)	2.24 (2.17)	.907 (4.18)*	.149 (0.05)	.720 (3.32)	578 (3.35)	. 110*	060
People Who Say There is Littie or no Crime in Entire Neighborhood	.0005 (0.09)	.042 (0.64)	.026 (0.00)	.087 (1.71)	. 135 (0. 24)	. 155 (3.86)*	002 (0.00)	.035 (0.25)	076 (1.81)	.055	. 004

 $V_1 = \text{age of respondent.}$   $V_2 = \text{sex (male).}$   $V_3 = \text{percent of parcels in a block with commercial land use.}$   $V_4 = \text{major thoroughfare going through block.}$   $V_5 = \text{percent of parcels in a block with vacant land.}$   $V_6 = \text{whether or not respondent's block is 95 percent or more residential.}$   $V_7 = \text{percent of residential units that are single family dwellings.}$   $V_8 = \text{whether or not a respondent lives in a single family unattached house.}$   $V_9 = \text{high crime neighborhood.}$ 

## \* = p < .05.

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\*\* <sup>~</sup> <sup>~</sup> <sup>~</sup> = p < .01.

 $1^{\prime}$ In multiple regression, an adjustment must be made on the squared multiple correlation coefficient in order to correct for the degrees of freedom eliminated in the predicion of the dependent variable. The total number of degrees of freedom equals the number of observations minus the number of constraints placed on the observations. One degree of freedom is eliminated for each independent variable used to predict the independent variable. With each reduction in degrees of freedom the R<sup>2</sup> is increased. If there is a large number of independent variables relative to the number of cases, the R<sup>2</sup> will be misleadingly high. Therefore, it is necessary to adjust for the number of predictors used, according to the formula:

$$\bar{R}^2 = 1 - (1 - R^2) \frac{N - 1}{N - K - 1}$$

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where N = the sample size and k = the number of independent variables in the equation.

SOURCE: Household Survey; Housing Characteristics of Block - PLAN File; Location of Major Thoroughfares - Atlanta Bureau of Planning, Major Thoroughfare Plan Map.





### Table 10. Local Ties Model

GROVE PARK AND DIXIE HILLS

v <sub>1</sub>	V <sub>2</sub>	V <sub>3</sub>	V <sub>4</sub>	V <sub>5</sub>	v <sub>6</sub>	V <sub>7</sub>	V <sub>8</sub>	٧ <sub>g</sub>	R <sup>2</sup>
β	β	β	β	β	β	β	β	β	
(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	
008	675	117	015	016	.053	032	103	.083	. 139*
(0.88)	(6.63)*	(0.18)	(1.70)	(1.68)	(9.15)**	(0.12)	(0.62)	(0.06)	
~.080	-2.08	033	051	019	.221	353	203	1.07	. 299*
(12.08)**	* (7.95)**	(0.00)	(2.35)	(0.34)(	20.49)**	(1.87)	(0.31)	(1.23)	
.010	513	.248	015	005	.035	054	079	.151	. 181*
(4.24)*	(10.82)**	(2.29)	(4.33)*	(0.64)(	11.36)**	(0.96)	(1.04)	(0.56)	
~.005	.386	392	.021	009	.055	.008	.710	.167	. 279*
(0.24)	(1.73)	(1.57)	(2.58)	(0.50)	(7.95)**	(0.01)	(21.35)**	(0.19)	
.001	.031	.0008	0003	.005	002	021	.024	097	.066
(0.42)	(0.29)	(0.00)	(0.02)	(3.44)	(0.14)	(1.08)	(0.69)	(1.66)	
	$V_{1}$ $\beta$ (F)008 (0.88)080 (12.08)** .010 (4.24)*005 (0.24) .001 (0.42)	$\begin{array}{c cccc} v_1 & v_2 \\ \beta & \beta \\ (F) & (F) \\ \hline & & & & \\ \hline & & & & \\ \hline & & & & \\ \hline & & & &$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						

V1 = age of respondent. V2 = sex (male). V3 = high crime neighborhood. V3 = number of years in neighborhood. V4 = number of goods friends in neighborhood. V5 = frequency of neighboring in entire neighborhood. V6 = variety of neighborhood facilities used. V7 = variety of neighborhood facilities used. V8 = number of organizations belonged to. V9 = ratio of neighborhood organization membership to total organization membership.

\* = p < .05.

\*\* = p < .01.

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 $\frac{1}{1}$ In multiple regression, an adjustment must be made on the squared multiple correlation coefficient in order to correct for the degrees of freedom eliminated in the predicion of the dependent variable. The total number of degrees of freedom equals the number of observations minus the number of constraints placed on the observations. One degree of freedom is eliminated for each independent variable used to predict the independent variable. With each reduction in degrees of freedom the R<sup>2</sup> is increased. If there is a large number of independent variables relative to the number of cases, the R<sup>2</sup> will be misleadingly high. Therefore, it is necessary to adjust for the number of predictors used, according to the formula:

$$\tilde{R}^2 = 1 - (1 - R^2) \frac{N - 1}{N - k - 1}$$

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where N = the sample size and k = the number of independent variables in the equation.



### Table 11. Social Cohesion Model

GROVE PARK AND DIXIE HILLS

Reactions	ν <sub>1</sub> β	V <sub>2</sub> β	ν <sub>3</sub> . β	V <sub>4</sub> β	ν <sub>5</sub> β	<sup>V</sup> б В	ν <sub>7</sub> β	ν <sub>8</sub> β	R <sup>2</sup>	<u>R</u> <sup>2</sup> <u>1</u>
to Crime	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)		
Fear of Neighborhood Crime Index	011 (2.55)	621 (7.25)**	.322 (1.91)	642 (7.02)**	173 (0.41)	.119 (22.26)**	-1.30 (3.31)	011 (0.04)	. 224**	. 183
Worry Over Crime Index	101 (25.85)**	-2.17 (11.11)**	.301 (0.21)	496 (0.52)	.280 (0.13)	.350 (24.12)**	-1.76 (0.75)	.220 (2.39)	. 347**	. 312
Avoidance Index	.0006 (0.02)	490 (11.08)**	.306 (4.17)*	122 (0.62)	.165 (0.89)	.058 (12.87)**	856 (3.45)	002 (0.00)	. 168**	. 125
Protection Index	.003 (0.09)	.328 (1.31)	488 (2.76)	.620 (4.01)*	.330 (0.91)	.080 (6.37)*	.855 (0.89)	.087 (1.80)	. 204**	. 161
People Who Say There is Little or no Crime in Entire Neighborhood	.0003 (0.04)	.061 (1.34)	034 (0.40)	.030 (0.28)	.074 (1.37)	011 (3.88)*	.219 (1.76)	.024 (4.27)*	.091	.044

V<sub>1</sub> = age of respondent. V<sub>2</sub> = sex (male). V<sub>3</sub> = high crime neighborhood. V<sub>4</sub> = those who feel most residents have control over what goes on in neighborhood. V<sub>5</sub> = those who feel that neighborhood is real home. V<sub>6</sub> = information exchange with neighbors. V<sub>6</sub> = neighborhood source of crime information in ratio to total source of crime information. V = index of perceived similarities = index of perceived similarities.

\* = p < .05.

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1/1 In multiple regression, an adjustment must be made on the squared multiple correlation coefficient in order to correct for the degrees of freedom eliminated in the predicion of the dependent variable. The total number of degrees of freedom equals the number of observations minus the number of constraints placed on the observations. One degree of freedom is eliminated for each independent variable used to predict the independent variable. With each reduction in degrees of freedom the R<sup>2</sup> is increased. If there is a large number of independent variables relative to the number of cases, the R<sup>2</sup> will be misleadingly high. Therefore, it is necessary to adjust for the number of predictors used, according to the formula:

 $\bar{R}^2 = 1 - (1 - R^2) \frac{N - 1}{N - k - 1}$ 

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where N = the sample size and k = the number of independent variables in the equation.





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### Table 12. Social Control Model

GROVE PARK AND DIXIE HILLS

	v <sub>1</sub>	V <sub>2</sub>	٧ <sub>3</sub>	V <sub>4</sub>	۷ <sub>5</sub>	٧ <sub>6</sub>	V <sub>7</sub>	V <sub>8</sub>	R <sup>2</sup>	₹ <sup>2</sup>
Reactions to Crime	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)		а. — М. А.
Fear of Neighborhood Crime Index	011 (1.84)	675 (4.76)*	478 (2.27)	.707 (5.40)*	310 (0.41)	.165 (9.53)**	.334 (0.76)	025 (0.01)	. 274**	. 201
Worry Over Crime Index	081 (13.52)**	-1.73 (4.28)*	.596 (0.48)	1.51 (3.30)	.007 (0.00)	.616 (18.12)**	.414 (0.16)	436 (0.21)	. 429**	. 371
Avoidance Index	.006 (1.52)	474 (5.95)*	.243 (1.48)	.144 (0.57)	.182 (0.36)	.074 (4.82)*	110 (0.21)	022 (0.01)	. 187*	. 106
Protection Index	.015 (2.15)	.476 (1.46)	-1.14 (7.86)**	.960 (6.14)*	583 (0.91)	.038 (0.31)	.161 (0.11)	1.39 (9.72)**	. 220**	. 141
People Who Say There is Little or no Crime in Entire Neighbornood	00003 1 (0.00)	.118 (2.41)	024 (0.10)	.093 (1.53)	. 137 (1. 33)	024 (3.28)	.007 (0.01)	079 (0.83)	.096	. 006

 $\begin{array}{l} {\sf V}_1 &= \mbox{ age of respondent.} \\ {\sf V}_2 &= \mbox{ sex (male).} \\ {\sf V}_2 &= \mbox{ high crime neighborhood.} \\ {\sf V}_3 &= \mbox{ people who watch for suspicious people in neighborhood.} \\ {\sf V}_4 &= \mbox{ people who say it is easy to tell a stranger in neighborhood.} \\ {\sf V}_5 &= \mbox{ number of areas avoided in entire neighborhood.} \\ {\sf V}_6 &= \mbox{ percent of big problems for which took some direct action.} \\ {\sf V}_8 &= \mbox{ percent of disturbances for which took some direct action.} \\ \end{array}$ 

\* = p < .05.

\*\* = p < .01.

 $\frac{1}{1}$ In multiple regression, an adjustment must be made on the squared multiple correlation coefficient in order to correct for the degrees of freedom eliminated in the predicion of the dependent variable. The total number of degrees of freedom equals the number of observations minus the number of constraints placed on the observations. One degree of freedom is eliminated for each independent variable used to predict the independent variable. With each reduction in degrees of freedom the R<sup>2</sup> is increased. If there is a large number of independent variables relative to the number of cases, the R<sup>2</sup> will be misleadingly high. Therefore, it is necessary to adjust for the number of predictors used, according to the formula:

$$\bar{R}^2 = 1 - (1 - R^2) \frac{N - 1}{N - k - 1}$$

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where N = the sample size and k = the number of independent variables in the equation.

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### Table 13. Neighborhood Problems Model

GROVE PARK AND DIXIE HILLS

Reactions to Crime	ν <sub>1</sub> β (F)	ν <sub>2</sub> β (F)	V <sub>3</sub> β (F)	ν <sub>4</sub> β (F)	ν <sub>5</sub> (F)	ν <sub>6</sub> β (F)	R <sup>2</sup>	<u></u> R <sup>2</sup> <u>1</u> /	· · · · · ·
Fear of Neighborhood Crime Index	015 (2.91)	679 (5.08)*	402 (1.82)	.165 (0.15)	. 133 (2.69)	.092 (0.59)	. 169**	. 119	
Worry Over Crime Index	089 (11.58)**	-2.41 (7.61)**	113 (0.02)	. 450 (0. 13)	.284 (1.48)	.054 (0.03)	. 205**	. 159	
Avoidance Index	.009 (2.63)	~.368 (4.16)*	.226 (1.58)	101 (0.15)	.085 (3.08)	.147 (4.10)*	. 162**	.113	
Protection Index	.0004 (0.00)	.213 (0.34)	-1.16 (10.32)**	469 (0.82)	. 103 (1.15)	.071 (0.24)	. 108	. 055	
People Who Say There is Little or no Crime in Entire Neighborhood	0007 1 (0.09)	.041 (0.32)	110 (2.36)	097 (0.89)	014 (0.56)	.003 (0.01)	. 053	.002	

V1 = age of respondent. V2 = sex (male). V3 = high crime neighborhood. V3 = people who feel neighborhood has gotten better in last years. V4 = number of big problems. V5 = number of disturbances seen or heard in neighborhood in last years. V6 = number of disturbances seen or heard in neighborhood in last years.

\* = p < .05. \*\* = p < .01.

1/In multiple regression, an adjustment must be made on the squared multiple correlation coefficient in order to correct for the degrees of freedom eliminated in the predicion of the dependent variable. The total number of degrees of freedom equals the number of observations minus the number of constraints placed on the observations. One degree of freedom is eliminated for each independent variable used to predict the independent variable. With each reduction in degrees of freedom the R<sup>2</sup> is increased. If there is a large number of independent variables relative to the number of cases, the R<sup>2</sup> will be misleadingly high. Therefore, it is necessary to adjust for the number of predictors used, according to the formula:

 $\vec{R}^2 = 1 - (1 - R^2) \frac{N - 1}{N - K - 1}$ 

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where N = the sample size and k = the number of independent variables in the equation.

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SOURCE: Household Survey.

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			-				Table 14	4. Best Pr	ediction N	Aodels, Gro	ve Park a	nd Dixie Hi	lls.			:		1		· ·			. • .										
leactions to Crime	ν <sub>1</sub> β (F)	ν <sub>2</sub> β (F)	۷ <sub>3</sub> β (F)	ν <sub>4</sub> β (F)	ν <sub>5</sub> β (F)	ν <sub>6</sub> β (F)	ν <sub>7</sub> β (F)	V <sub>8</sub> β (F)	ν <sub>g</sub> β (F)	ν <sub>10</sub> β (F)	ν <sub>11</sub> β (F)	ν <sub>12</sub> β (F)	ν <sub>13</sub> β (F)	ν <sub>14</sub> β (F)	ν <sub>15</sub> β (F)	ν <sub>16</sub> β (F)	ν <sub>17</sub> β (F)	ν <sub>18</sub> β (F)	R <sup>2</sup>	R <sup>2</sup> 1/	 				1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1						<b>۲</b> *		
ar of Neighborhood Crime Index	005 (0.47)	404 (2.68)				ı		007 (0.15)	.435 (3,10)	.145 (11.33)**	—.462 (3.55)	.069 (6.33)							.227**	.187			,										e a
arry Over Crime Index	067 (16.50)**	-1.45 (6.13)*			.968 (2.57)			024 (0,25)		.595 (32.99)**		.290 (18.19)**	•						.440••	.418													
voidance Index otection Index	.014 (7.12)**	338 (4.64)*	.330 (2.94) 580	-,004 (1.51)	.283 (1.56)	386 (1.53)		007 (0.27) .025	.391	.090 (10.65)**	.317	.035 (0.83) .042	.066 (1.16)	.587	.567	006 (3.18)	.570		.258**	.194				•			а. •	•					
cople Who Say There is Little or No Crime in Entire Neighborhood			(2,92) - 127 (4,32)*		160 (5.63)	.263 (5.75)*	—.002 (1.33)	(0.88)	(1,41)		(0.78)	(1.05) 006 (1.51)		(1.81) .113 (3.46)	(1,49)		(10,16)**	.020 (3.53)	.108**	.216					a subscription of the subs								
	$V_1 = age$ $V_2 = sex$ $V_3 = highV_4 = tota$	of responde (male), ) crime neig   crimes per	ent. Jhborhood. r 100 reside	ntial unit	s in respo	ndent's bl	nck.	1	- - -	* = p ** = p 1/ in mult	05 01- iple reare	ssion, an ad	iustment m	urst be made	on the sou	ared multi	ale correla	lion	· · · · · · · · · · · · · · · · · · ·									ı I					
	$V_{5} = victi$ $V_{6} = intervices$ $V_{7} = intervices$ $V_{8} = freqvices$ $V_{9} = peopvices$ $V_{10} = numvices$ $V_{11} = thosvices$ $V_{12} = victos$	in of any ci raction betw raction betw uency of ne ple who wa uber of area who feel rmation ex	rime in last ween V3 an ween V3, V eighboring i tch for susp ts avoided in that resider change with	year (resp d V <sub>4</sub> , and V <sub>5</sub> in entire n picious peo n entire ne nts have co a peighbou	oondent o eighborh ople in ne eighborho natrol ovi	or househo ood, ighhorhoo od er what go	ld membr od es on in n	er). neighborha	ood.	coeffici of the d of obser of freed variable large nu mislead	ent in ord lependent rvations n lom is elir . With eac unher of i ingly high	ler to correct variable. T ninus the m ninated for ch reduction ndependen ). Therefore formula	ct for the d he total nu imber of cc each indép i în degrees t variables r , it is neces	egrees of fre mber of deg instraints pla endent varia i of freedom relative to th sary to adju	edom elimi rees of free aced on the ble used to , the R <sup>2</sup> is e number o st for the n	nated in th Jom equals observatio predict the increased. I if cases, the umber of p	e prediction the number ns. One de e depende I there is R <sup>2</sup> will h redictors	on per egree nt a , pe used,			•				ander oppliet on the second or the second of the second								•
	V 12 ** mid V 13 ** num V 14 ** whe V 15 ** perc V 15 ** num V 16 ** num V 17 ** num	iber of disti ther or not ent of disti aber of year aber of orga	urbances se responden urbances fo rs in neighb anizations b	en or hear t's block it r which to orhood. elonged t	s. d in neigl s 95% or iok some s	nborhood more resid direct acti	in last ye lential. lon.	ar.	•	where N equatio	l = the sa n.	mple size ar	2 = 1 - (1 nd k = the r	-R <sup>2</sup>   <u>N-</u> k- number of in	l - 1 dependent	variables in	i the				. 1				an a			•	· · ·				
	V <sub>18</sub> = inde	x ol percei	ved similari	ties.						Source:	Househ	ntd Survey,																• • •					-
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nen en segunde anna es j i su dege den es sugar anna esta esta esta esta esta esta esta est	1997) 1997) 1997)	riggi V. c.N. c. g. A		245-54	- - - -	ente activitate te	ar Seet of the	l 1 - M (construction of statements) 1 - M (construction of statements)	51 <b>2</b> -044_712	. ale o se se e	na <b>sere</b> ta sereta se	n an		112) - 1214 - 13 -22(1-	States and a	daren den er			a 							•							
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$$2 = 1 - (1 - R^2) \frac{N - 1}{N - k - 1}$$

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				Table <b>15</b> . MECHANICS	Objectiv	e Crime   D PITTSB	Mode 1 URGH							4							
Reactions to Crime	ν <sub>1</sub> β (F)	ν <sub>2</sub> β (F)	ν <sub>3</sub> β (F)	V <sub>4</sub> β (F)	ν <sub>5</sub> β (F)	ν <sub>6</sub> β (F)	ν <sub>7</sub> β (F)	ν <sub>8</sub> β (F)	ν <sub>9</sub> β (F)	R <sup>2</sup>	<u></u> <sup>7</sup> <u>1</u> /				· · · · ·						
Fear of Neighborhood Crime Index	003 (0.19)	70 (8.57)**	.022 (7.80)**	.377 (0.71)	010 (0.37)	1.04 (4.90)*	026 (0.90)	659 (0.75)	.023 (0.46)	. 124**	. 077									• •	
Worry Over Crime Index	072 (14.24)*	-2.06 * (7.49)**	.055 (5.05)*	669 (0.22)	.014 (0.07)	1.42 (0.91)	044 (0.25)	1.62 (0.45)	015 (0.02)	. 169**	. 124									a	
Avoidance Index	.003 (1.05)	759 (35.26)**	.007 (3.04)	053 (0.05)	006 (0.52)	.077 (0.09)	014 (0.90)	189 (0.22)	.027 (2.24)	. 241**	. 200										
Protection Index	.004 (0.45)	.305 (1,47)	(0.02)	(3.84)*	(1,17)	(1.32)	(1.30)	(1.09)	(1.15)	. 055	.003						-				
is Little or no Crime in Entire Neighborhood	.0000 (0.00)	4 .054 (1.40)	0007 (0.22)	.037 (0.19)	003 (0.70)	121 (1.79)	.011 (4.01)*	.032 (0.05)	008 (1.45)	. 042	.009										
$V_1 = age of respond$ $V_2 = sex (male).$ $V_3 = total crimes p$ $V_4 = high crime nei$ $V_5 = interaction be$ $V_6 = interaction be$ $V_7 = interaction be$ $V_8 = interaction be$ $V_9 = interaction be$	ent. ghborhood tween V <sub>3</sub> crime iN tween V <sub>3</sub> tween V <sub>4</sub> tween V <sub>4</sub>	sidential u & V <sub>4</sub> . last year ( & V <sup>6</sup> . V <sub>6</sub> & V <sub>6</sub> .	nits in res respondent	spondent's or househo	block. bld member	r).							, , , , , , , , , , , , , , , , , , ,								
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$$\bar{R}^2 = 1 - (1 - R^2) \frac{N - 1}{N - K - 1}$$

### Table 16. Ecological Model MECHANICSVILLE AND PITTSBURGH

Reactions to Crime	ν <sub>1</sub> β (F)	ν <sub>2</sub> β (F)	ν <sub>3</sub> β (F)	<sup>¥</sup> 4 β (F)	ν <sub>5</sub> β (F)	ν <sub>6</sub> β (F)	۷ <sub>7</sub> (۶)	ν <sub>8</sub> β (F)	ν <sub>9</sub> β (F)	R <sup>2</sup>	
Fear of Neighborhood Crime Index	007 (1.48)	778 (11.45)**	3.46 (5.01)*	.789 (10.20)**	-1.31 (1.79)	.522 (1.00)	.764 (1.41)	297 (1.34)	. 153 (0. 33)	. 167**	
Worry Over Crime Index	076 (15.07)*	~2.10 * (7.74)**	6.01 (1.40)	1.29 (2.53)	-2.97 (0.85)	-1.40 (0.67)	.989 (0.22)	401 (0.23)	.440 (0.25)	. 147**	
Avoidance Index	.002 (0.22)	794 (38.77)**	.402 (0.22)	. 152 (1.24)	018 (0.00)	.363 (1.57)	. 212 (0.35)	101 (0,50)	006 (0.00)	.212**	
Protection Index	.003 (0.25)	.259 (1.07)	.175 (0.01)	.242 (0.79)	-1.98 (3.47)	453 (0.59)	022 (0.00)	. 171 (0. 38)	098 (0.11)	.053	
People Who Say There is Little or no Crime in Entire Neighborhood	.0001 (0.01)	.050 (1.29)	.309	090 (3.68)	.070 (0.14)	025 (0.06)	.217 (3.16)	064 (1.71)	.014 (0.08)	.058	

 $V_1 = age of respondent.$   $V_2 = sex (male).$   $V_3 = percent of parcels in a block with commercial land use.$  $<math>V_4 = major$  thoroughfare going through block.

= major thoroughfare going through block. = percent of parcels in a block with vacant land.

whether or not respondent's block is 95 percent or more residential.
 = percent of residential units that are single family dwellings.
 = whether or not a respondent lives in a single family unattached house.

V5 V6 V7 V8 V8 = high crime neighborhood.

\* = p < .05.

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\*\* = p < .01.

 $\frac{1}{1}$  In multiple regression, an adjustment must be made on the squared multiple correlation coefficient in order to correct for the degrees of freedom eliminated in the predicion of the dependent variable. The total number of degrees of freedom equals the number of observations minus the number of constraints placed on the observations. One degree of freedom is eliminated for each independent variable used to predict the independent variable. With each reduction in degrees of freedom the R<sup>2</sup> is increased. If there is a large number of independent variables relative to the number of cases, the R<sup>2</sup> will be misleadingly high. Therefore, it is necessary to adjust for the number of predictors used, according to the formula:

$$2^{2} = 1 - (1 - R^{2}) \frac{N - 1}{N - k - 1}$$

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where N = the sample size and k = the number of independent variables in the equation,

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SOURCE: Household Survey. Housing Characteristics of Block - PLAN File; Location of Major Thoroughfares - Atlanta Bureau of Planning Major Thoroughfares Plan Map.

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### Table 17. Local Ties Model MECHANICSVILLE AND PITTSBURGH

Reactions to Crime	ν <sub>1</sub> β (F)	ν <sub>2</sub> β (F)	ν <sub>3</sub> (F)	ν <sub>4</sub> β (F)	ν <sub>5</sub> β (F)	ν <sub>6</sub> β (F)	ν <sub>7</sub> β (F)	ν <sub>8</sub> β (F)	ν <sub>9</sub> β (F)	R <sup>2</sup>	₹ <sup>2</sup>
Fear of Neighborhood Crime Index	005 (0.42)	580 (5.02)*	. 106 (0. 17)	005 (0.36)	015 (1.87)	.005 (0.07)	091 (0.75)	068 (0.12)	.096 (0.11)	. 067	. 013
Vorry Over Crime Index	~.067 (7.40)**	-1.64 * (3.94)*	.443 (0.30)	003 (0.01)	011 (0.10)	.037 (0.38)	109 (0.11)	.027 (0.00)	.376 (0.16)	.091	. 038
voidance Index	.005 (1.77)	772 (31.88)**	.021 (0.02)	003 (0.37)	013 (5.16)*	004 (0.16)	.032 (0.34)	.060 (0.33)	.040 (0.07)	. 231**	. 186
Protection Index	.006 (0.54)	.276 (1.16)	048 (0.04)	.008 (0.99)	.002 (0.03)	.023 (1.61)	.007 (0.00)	.532 (7.48)**	201 (0.48)	.096	.042
eople Who Say There is Little or no Crime in Entire Neighborhood	.002 (1.16)	.029 (0.34)	020 (0.17)	002 (0.87)	.0004 (0.03)	.009 (7.02)**	003 (0.02)	.009 (0.05)	032 (0.34)	.061	. 007

V1 = age of respondent. V2 = sex (male). V3 = high crime neighborhoods. V4 = number of years in neighborhood. V5 = number of good friends in neighborhood. V6 = frequency of neighboring in entire neighborhood. V6 = variety of neighborhood facilities used. V7 = variety of neighborhood facilities used. V8 = number of organizations belonged to. V9 = ratio of neighborhood organization membership to total organization membership.

.\* = p < .05.

\*\* <sup>-</sup> ⊨ = p < .01.

1' In multiple regression, an adjustment must be made on the squared multiple correlation coefficient in order to correct for the degrees of freedom eliminated in the predicion of the dependent variable. The total number of degrees of freedom equals the number of observations minus the number of constraints placed on the observations. One degree of freedom is eliminated for each independent variable used to predict the independent variable. With each reduction in degrees of freedom the R<sup>-</sup> is increased. If there is a large number of independent variables relative to the number of cases, the R<sup>-</sup> will be misleadingly high. Therefore, it is necessary to adjust for the number of predictors used, according to the formula:

$$2 = 1 - (1 - R^2) \frac{N - 1}{N - k - 1}$$

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where N = the sample size and k = the number of independent variables in the equation.

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### Table 18. Social Cohesion Model

### MECHANICSVILLE AND PITTSBURGH

Reactions to Crime	ν <sub>1</sub> β (F) '	ν <sub>2</sub> β (F)	ν <sub>3</sub> β (F)	ν <sub>4</sub> (F)	ν <sub>5</sub> β (F)	ν <sub>6</sub> β (F)	ν <sub>7</sub> β (F)	ν <sub>8</sub> β (F)	R <sup>2</sup>	<u>R</u> <sup>2</sup> <u>1</u>
Fear of Neighborhood Crime Index	.002 (0.05)	670 (7.60)**	014 (0.00)	248 (0.94)	921 (11.89)**	019 (0.54)	.595 (0.57)	010 (0.02)	. 132**	. 088
Worry Over Crime Index	047 (4.66)*	-1.80 (5.58)*	.081 (0.01)	940 (1.37)	-1.27 (2.28)	.098 (1.42)	3.79 (2.33)	088 (0.15)	.160**	. 117
Avoidance Index	.005 (1.55)	736 (31.66)**	.073 (0.30)	.030 (0.05)	154 (1.14)	003 (0.05)	.530 (1.55)	.038 (0.96)	. 187**	. 145
Protection Index	.004 (0.31)	. 161 (0.43)	134 (0.28)	.242 (0.86)	.290 (1.15)	.056 (4.20)*	.677 (0.71)	. 121 (2.77)	. 101*	. 054
People Who Say There is Little or no Crime in Entire Neighborhood	.0003 (0.04)	.047 (0.97)	023 (0.23)	.006 (0.01)	.031 (0.35)	.011 (4.20)*	264 (2.91)	006 (0.19)	.044	. 005

V1 = age of respondent. V2 = sex (male). V3 = high crime neighborhood. V4 = those who feel most residents have control over what goes on in neighborhood. V5 = those who feel that neighborhood is real home. V5 = information exchange with neighbors. V6 = neighborhood source of crime information in ratio to total source of crime information. V8 = index of perceived similarities.

\* = p < .05,\*\* = p < .01.

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 $\frac{1}{1}$  In multiple regression, an adjustment must be made on the squared multiple carrelation coefficient in order to correct for the degrees of freedom eliminated in the predicion of the dependent variable. The total number of degrees of freedom equals the number of observations minus the number of constraints placed on the observations. One degree of freedom is eliminated for each independent variable used to predict the independent variable. With each reduction in degrees of freedom the R<sup>2</sup> is increased. If there is a large number of independent variables relative to the number of cases, the R<sup>2</sup> will be misleadingly high. Therefore, it is necessary to adjust for the number of predictors used, according to the formula:

$$\bar{R}^2 = 1 - (1 - R^2) \frac{N - 1}{N - k}$$

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where N = the sample size and k = the number of independent variables in the equation.



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Table 19.	Social	Control	Model
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											_
	V <sub>1</sub>	V <sub>2</sub>	V <sub>3</sub>	V <sub>4</sub>	V <sub>5</sub>	v <sub>6</sub>	V <sub>7</sub>	V <sub>8</sub>	R <sup>2</sup>	$\bar{R}^2 = \underline{1}$	7
Reactions to Crime	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	- · · ·	- 	
Fear of Neighborhood Crime Index	.005 (0.59)	555 (4.09)*	.074 (0.08)	.540 (4.12)*	793 (6.07)*	. 168 (10. 17)**	120 (0.15)	.370 (1.67)	. 231**	. 172	
Worry Over Crime Index	056 (6.00)*	-1.21 (1.88)	~.087 (0.01)	2.06 (5.79)*	-2.11 (4.15)*	.404 (5.69)*	955 (0.89)	111 (0.01)	.201**	. 140	
Avoidance Index	.006 (2.02)	696 (20.14)**	~.139 (0.87)	041 (0.08)	100 (0.30)	.10 (11.32)**	052 (0.08)	.029 (0.03)	. 284**	. 229	
Protection Index	.018 (5.67)*	.680 (5.46)*	186 (0.43)	.529 (3.42)	.073 (0.05)	.057 (0.97)	.486 (2.15)	.912 (9.08)**	. 253**	•.194	
People Who Say There is Little or no Crime in Entire Neighborhood	.0006 (0.14)	.069 (1.32)	079 (1.86)	005 (0.01)	029 (0.17)	005 (0.22)	.095 (1.92)	058 (0.86)	.054	.019	

 $V_1 = \text{age of respondent.} \\ V_2 = \text{sex (male).} \\ V_3 = \text{high crime neighborhood.} \\ V_4 = \text{people who watch for suspicious people in neighborhood.} \\ V_5 = \text{people who say it is easy to tell a stranger in neighborhood.} \\ V_5 = \text{number of areas avoided in entire neighborhood.} \\ V_6 = \text{percent of big problems for which took some direct action.} \\ V_8 = \text{percent of disturbances for which took some direct action.} \\ V_8 = \text{percent of disturbances for which took some direct action.} \\ V_8 = \text{percent of disturbances for which took some direct action.} \\ V_8 = \text{percent of disturbances for which took some direct action.} \\ V_8 = \text{percent of disturbances for which took some direct action.} \\ V_8 = \text{percent of disturbances for which took some direct action.} \\ V_8 = \text{percent of disturbances for which took some direct action.} \\ V_8 = \text{percent of disturbances for which took some direct action.} \\ V_8 = \text{percent of disturbances for which took some direct action.} \\ V_8 = \text{percent of disturbances for which took some direct action.} \\ V_8 = \text{percent of disturbances for which took some direct action.} \\ V_8 = \text{percent of disturbances for which took some direct action.} \\ V_8 = \text{percent of disturbances for which took some direct action.} \\ V_8 = \text{percent of disturbances for which took some direct action.} \\ V_8 = \text{percent of disturbances for which took some direct action.} \\ V_8 = \text{percent of disturbances for which took some direct action.} \\ V_8 = \text{percent of disturbances for which took some direct action.} \\ V_8 = \text{percent of disturbances for which took some direct action.} \\ V_8 = \text{percent of disturbances for which took some direct action.} \\ V_8 = \text{percent of disturbances for which took some direct action.} \\ V_8 = \text{percent of disturbances for which took some direct action.} \\ V_8 = \text{percent of disturbances for which took some direct action.} \\ V_8 = \text{percent of disturbances for which took some direct action.} \\ V_8 = \text{percent of dist action direct action.} \\ V_8 = \text{percent of dist act$ 

# \* = p < .05. \*\* = p < .01.

- 1/In multiple regression, an adjustment must be made on the squared multiple correlation coefficient in order to correct for the degrees of freedom eliminated in the predicion of the dependent variable. The total number of degrees of freedom equals the number of observations minus the number of constraints placed on the observations. One degree of freedom is eliminated for each independent variable used to predict the independent variable. With each reduction in degrees of freedom the R<sup>2</sup> is increased. If there is a large number of independent variables relative to the number of cases, the R<sup>2</sup> will be misleadingly high. Therefore, it is necessary to adjust for the number of predictors used, according to the formula:

 $\bar{R}^2 = 1 - (1 - R^2) \frac{N - 1}{N - k - 1}$ 

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where N = the sample size and k = the number of independent variables in the equation.





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ν <sub>1</sub> β (F)	ν <sub>2</sub> β (F)	ν <sub>3</sub> (F)	ν <sub>4</sub> (F)	ν <sub>5</sub> (F)	ν <sub>6</sub> β (F)	R <sup>2</sup>	<u></u> R <sup>2</sup> <u>1</u> /	t
.003 (0.20)	582 (4.11)*	125 (0.22)	.667 (2.91)	.032 (0.38)	.279 (8.00)**	. 159**	.116	
060 (6.44)*	-1.61 (3.05)	.448 (0.28)	.167 (0.02)	. 143 (0. 73)	.527 (2.78)	. 162**	. 119	
.010 (5.15)*	689 (17.59)**	037 (0.06)	.180 (0.65)	.005 (0.02)	.139 (6.05)*	. 203**	. 161	
.009 (1.03)	678 (4.38)*	525 (3.02)	.411 (0.89)	.041 (0.48)	.012 (0.01)	.078	. 028	
.0005 (0.10)	.078 (1.61)	083 (2.16)	.145 (3.03)	.001 (0.01)	024 (1.36)	. 059	.010	
	$\begin{array}{c} V_1 \\ \beta \\ (F) \\ \hline \\ 0.003 \\ (0.20) \\ \hline \\060 \\ (6.44) \\ \\ .010 \\ (5.15) \\ \\ .009 \\ (1.03) \\ \\ .0005 \\ (0.10) \end{array}$	$\begin{array}{c cccc} V_1 & V_2 \\ B & B \\ (F) & (F) \\ \hline \\ 0.003 &582 \\ (0.20) & (4.11)^* \\ \hline \\060 & -1.61 \\ (6.44)^* & (3.05) \\ \hline \\ 0.10 &689 \\ (5.15)^* & (17.59)^{**} \\ \hline \\ 0.009 & 678 \\ (1.03) & (4.38)^* \\ \hline \\ 0.005 & .078 \\ (0.10) & (1.61) \\ \hline \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					

Table 20. Neighborhood Problems Model

MECHANICSVILLE AND PITTSBURGH

V1 = age of respondent. V1 = sex (male). V2 = high crime neighborhood. V3 = people who feel neighborhood has gotten better in last years. V4 = number of big problems. V5 = number of disturbances seen or heard in neighborhood in last year.

\* = p < .05. \*\* = p < .01.

1' In multiple regression, an adjustment must be made on the squared multiple correlation coefficient in order to correct for the degrees of freedom eliminated in the predicion of the dependent variable. The total number of degrees of freedom equals the number of observations minus the number of constraints placed on the observations. One degree of freedom is eliminated for each independent variable used to predict the independent variable. With each reduction in degrees of freedom the R<sup>2</sup> is increased. If there is a large number of independent variables relative to the number of cases, the R<sup>2</sup> will be misleadingly high. Therefore, it is necessary to adjust for the number of predictors used, according to the formula:

 $\bar{R}^2 = 1 - (1 - R^2) \frac{N - 1}{N - k - 1}$ 

No. .

where N = the sample size and k = the number of independent variables in the equation.





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	V <sub>1</sub>	V.,	Va	Va	V <sub>5</sub>	Tab V <sub>R</sub>	V <sub>7</sub>	est Predi Vg	stion Mode	els, Mecha V <sub>10</sub>	nicsville an V <sub>11</sub>	d Pittsburg V <sub>12</sub>	h. V13	Via	V	V <sub>16</sub>	V17	V <sub>18</sub>	R <sup>2</sup> Ī	<sup>2</sup> <u>1</u> /							н ул. 1. <b>у</b>	
actions to Crime	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	β (F)	β΄ (F)	β (F)	-									
ar of Neighborhood rime Index		719 (8.47)**		.001 (0.03)	.463 (3.39)		.129 (2.36)	2.53 (1.89)	.343 (2.04)	565 (4.10)	.094 (3.65)	-,188 (0.58)	.350 (2.15)						.262**	.205								
rry Over Crime Index	050 (6.68)*	-1.30 (2.88)		.029 (2.17)	н <sup>с</sup>					-2.21 (5.90)*	.327 (4.36)*		1.92 (6.36)*						.223**	.190								
oidance Index	.007 (4.88)*	736 (31.70)**					.052 (1.41)				.098 (17.13)			0  9 (14,17)*					.322**	.300				-				
tection Index •	.013 (4.16)*	.361 (2.10)	0001 (0.00)												1.05 (15.67)**	.319 (3.42)		032 (1.56)	.198**	.164								
pple Who Say There Little or No Crime Entire Neighborhood		•			(0,	.0006 .19)											.006 (3.09)	.003 (0.27)	.033	.016		a se statement a se						
	1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1																											
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$$\overline{R}^2 = 1 - (1 - R^2) \frac{N - 1}{N - k - 1}$$

