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**AN ANALYSIS OF VARIABLES AFFECTING
THE CLEARANCE OF HOMICIDES:
A MULTISITE STUDY**

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Introduction

In recent years, the number of arrests made in crimes known to police has significantly diminished in the United States. The Uniform Crime Reports (UCR), which indicate the number of specific crime types reported to police and the number of arrests made for those crimes, have shown a decline in clearance rates since the 1960s. Additionally, various reports from individual law enforcement agencies have also indicated a decline, especially for one of the most serious crimes, the crime of homicide.

UCR clearance rates indicate the rate of arrests made for a particular type of crime. For example, the homicide clearance rate is determined by dividing the number of homicides reported in a year by the number of arrests made for those homicides. However, for homicides, the number of murder/suicides and the number of self-defense homicides are also included with the number of arrests when determining the clearance rate. In other words, a case is considered cleared or closed if it was determined to be in self-defense or the offender committed suicide at the scene.

Figure 1 shows the national clearance rate for homicide from 1961 to 1996. As the figure indicates, the homicide clearance rate declined from 94% in 1961 to 67% in 1996. That means an arrest occurred for 94% of the homicides in 1961 and only 67% of the homicides in 1996.

While there are many reasons to believe clearance rates are not a dependable measure of police

performance (e.g., the arrest of a suspect does not necessarily mean the suspect actually committed the crime), clearance rates can and have been used to indicate the arrest of the most probable crime suspect.

The arrest of a suspect is one of the most important events in the criminal justice system for without an arrest, none of the accepted forms of punishment can be applied. According to deterrence theory (Beccaria, 1764/1963) a punishment must be applied with certainty, severity, and celerity to prevent an offender from committing future offenses (specific deterrence), as well as to prevent others who witness the results of the punishment from engaging in criminal behavior (general deterrence). Although traditionally most of the emphasis has been placed on severity, criminologists have long considered certainty and celerity to be the more important aspects of deterrence (Beccaria, 1764/1963). Therefore, a decrease in clearance rates (low certainty) signals an inability of the criminal justice system to achieve one of its primary goals -- the reduction of future crime, both specific and general. Similarly, incapacitation, rehabilitation, retribution, or any other aim of punishment cannot be achieved without an arrest. Clearance rates can also affect citizens' perception and fear of crime, in addition to reflecting the criminal justice system's ability to impose punishments on offenders,

While clearance rates have decreased nationally, the clearance rates of individual jurisdictions show variation. Table 1 represents the 1994 homicide clearance rates for the 20 largest cities in the United States for which UCR data are available, excluding New York City.¹ The table depicts

the level—high, medium, or low—of both the total clearance rate and the homicide clearance rate in a 3x3 matrix. The levels (high, medium, and low) are determined by breaking the 20 cities into three equal percentiles on homicide and total clearance rate. Some cities are uniformly high, uniformly medium, uniformly low, or varied with regard to total clearance and homicide clearance rates. Some cities have high clearance rates for total crimes and homicides. Others have much lower than average clearance rates. The 20 cities are spread throughout the matrix. Our preliminary analysis for the period from 1980 through 1994 demonstrated that the clearance rates in these cities have remained amazingly stable over time and in relation to each other. This is especially true for cities at the high and low ends of the classification. While a few shifts in the relative level of clearance rates have occurred for some cities (e.g., San Francisco), generally cities with high clearance rates have had high clearance rates from 1980 to 1994 and cities with low clearance rates have had low clearance rates throughout that period. This was true for both homicide and total clearance rates taken together and taken separately, indicating that there are variables affecting clearance rates in these cities that are constant. Identifying these variables related to high levels of clearance could help improve police practices and the ability of departments to clear serious crimes.

This study addresses the issue of clearance rates with the expectation that by understanding what accounts for cities having high clearance rates for homicide, we will be able to prescribe changes that other departments could use to improve their rate of homicide clearance. We focused on homicide because it is a type of crime to which substantial police resources are devoted and one

that greatly affects the public's confidence in law enforcement's ability to deter crime. Large cities were used because of the substantial contribution they make to the total homicide problem in the United States. In 1993, for example, 50.3% of the homicides in the United States occurred in 62 of the largest cities (Maguire & Pastore, 1995). Finally, by closely examining the way clearance rates are constructed in different cities we hope to offer guidance on the extent to which clearance rates can function as a measure of police performance in dealing with the most serious crime reported to police.

Prior Research

Surprisingly, very little research has been conducted on the determinants of clearance rates for any type of crime, including homicide. Our review of the existing literature found no comparative studies and no systematic attempt to understand the determinants of clearance. While there has been some speculation on what affects clearance rates, this speculation has not involved systematic research. The International Association of Chiefs of Police Murder Summit (1995) and studies by Riedel and Rinehart (1994) and Cardarelli and Cavanaugh (1992) have demonstrated the decline in homicide clearance, have offered various reasons for the decline, and have identified certain methodological problems in this research. The suggested reasons for the decline in homicide clearance can be categorized as follows:

Change in the nature of homicide. In the past, homicide was thought to be primarily a

crime of passion involving family members or close acquaintances. These social relationships and the way in which the crime was carried out made it quite easy to identify the alleged offender. This, in turn, led to higher rates of clearance. In recent years, however, homicides have more often been stranger-to-stranger crimes and have involved more activity in the illegal drug market. Stranger-to-stranger crimes and drug market-related homicide are expected to have much lower probability of identifying alleged offenders; therefore, clearance rates will be lower.

Changing nature of police resources. In recent years police resources have been stretched, which may have diminished the ability of police departments to devote substantial and experienced personnel to police investigations. This change in the way police departments respond could have a negative impact on rates of clearance.

Changes in bystander behavior. The willingness to cooperate with police, particularly in large urban areas, may have decreased. Third parties may be less likely to act as witnesses and sources of information, making it less likely that alleged offenders will be identified, especially in stranger-to-stranger crimes.

These suggestions provide interesting anecdotal hypotheses that might explain changes in homicide clearance, but no one has subjected these or other possible explanations to systematic research.

In part, the absence of systematic research has been, as Maxwell (1989) has observed, due to problems in the national data on homicides. The primary source of homicide data is the supplemental homicide reports (SHR) filed with the Federal Bureau of Investigation (FBI). These reports are quite useful for basic descriptions of homicides, including details such as race, ethnicity, and gender of victim and offender; number of victims and offenders in the incident; weapons used; circumstances of the homicide; and relationship between victim and offender. However, the SHR do not indicate how the homicide was cleared or whether it was cleared. UCR data also do not provide detailed information on the nature of the offense or, more importantly, on the nature of the investigation. Therefore, they offer little as a source of data for understanding the clearance process.

The absence of research on the homicide investigation process is not surprising when one considers the general absence of attention by researchers to police investigations other than those conducted by patrol officers. The works of Greenwood, Chaiken, and Petersilia on detectives (1977), Skolnick on rape investigations (1966), Forst on arrest convictability (1982), and Eck (1992) on investigation are the most widely cited studies of nonpatrol investigation practices. Greenwood's work was focused more on outcomes than it was on the variations in strategies and their impact on outcomes. It is widely thought to question whether the resources devoted to detective functions are justified. Skolnick focused more on the role the victim plays in determining the level of investigation. Forst was most concerned with developing a measure of patrol performance that relates to the subsequent conviction of arrested offenders. Eck focused

more on the conceptualization of the investigation than on analysis of the models he developed.

In general, criminologists have paid more attention to patrol functions than the investigative process. For example, in a recent compendium of police research (Tonry and Morris, 1992) there is not one mention of studies of detectives or other police investigations (except those in internal affairs). Given the seriousness of cases referred for investigation, especially homicide cases, our research on homicide units and the cases they handle is important and should have an impact on the resources allocated to homicide units in all medium and large police departments.

Methodology

Using data provided to us by the FBI, we constructed a data set for 170 cities consisting of their levels of total crime and homicide, the demographic characteristics of the city, and the number of homicides and other crimes cleared by an arrest for 1980, 1985, 1990, 1991, 1992, 1993, and 1994. In addition to creating and conducting preliminary analyses of these data, we focused on 20 of the largest cities, looking for variations in their rates of clearance, changes in clearance rates through this period, and levels of homicide. As noted above, these analyses demonstrated clearance rate levels for most of these cities are relatively stable from the period 1980 through 1994, although the cities varied considerably in their rates of clearance of homicide. For that

reason, our basic study design is multisite, selecting four cities that have relatively stable patterns of clearance and high levels of homicide.² Only four cities were chosen because of limited resources. The four cities are not identified because of an agreement to maintain their anonymity.

City A's Police Department has consistently had high rates of clearance for homicides and for total crimes relative to the other departments. City B has had a low rate for each of these crime categories. City C has had a high rate of clearance for total crimes but a low homicide clearance rate, and City D has had a high homicide clearance rate but a low total crime clearance rate. These four cities were among those of the largest cities in the United States with the highest homicide rates in 1994. Figure 2 shows the homicide clearance rate for these four cities for the period 1980-93. These four cities have had high homicide rates and consistently different clearance levels throughout this 14-year period.

Instruments

Three instruments were employed to provide information for this study. The instruments describe the circumstances surrounding the homicide case, the investigation process, and the organizational structure of the departments.

The Homicide Attribute Coding Instrument³ (HAC) supplies a detailed description of each homicide case (Appendix C). It provides information concerning prior records of the victim and

offender, relationship between victim and offender, drug use by the offender or victim at the time of the incident, the number of eyewitnesses, and motivation for the homicide. Examples of motivations for the homicide include rivalry over a lover; conflict over drugs, drug paraphernalia, or drug territory; commission of a crime; and conflicts not involving drug use. The purpose of the HAC instrument is to describe the circumstances surrounding the homicide.

The Investigative Instrument (Appendix C) arose from a focus group consisting of police researchers and experienced homicide investigators from three different departments. The group helped identify key aspects of the investigation that should be included in the instrument. The Investigative Instrument provides information such as the status of case; the number of detectives assigned to the case; evidence found at the scene; whether search warrants were issued; interviews with witnesses, family, friends, neighbors, hospital staff, and the medical examiner; and details gathered from following up on information acquired during initial stages of the investigation. The Investigative Instrument describes the events that occurred during the investigation.

The last instrument provides an organizational profile of the four homicide departments. The Organizational Instrument (Appendix C) characterizes the level of resources, personnel, training, and management each department devoted to homicide investigations during the last 10 years. This instrument also provides information concerning the dynamics of each department during the past 10 years.

Data Collection

The data collected from the HAC Instrument and the Investigative Instrument were gathered from a random sample of 200 homicide incidents in each city, for a total of 800 incidents. The homicides occurred during the years 1994 and 1995. However, the cases may have been solved after those years since the data were collected from September 1997 to January 1998. The total number of open and closed cases was known before the sampling process was begun. It was not known, however, which individual cases were open and closed. Therefore, a random sample was used to approximate the proportion of open and closed cases for each city.

The data for the HAC and Investigative Instruments were collected from the homicide departments' case files. Data collectors⁴ searched through the open and closed homicide files to locate relevant information. In departments with well-organized files, the HAC and Investigative Instruments both took approximately an hour and fifteen minutes to complete; in the less organized files, the two instruments took up to two and a half hours to complete.

Some homicide cases involve more than one victim. Cases with multiple homicides were regarded as one incident. Victim information was collected for all victims in multiple homicide cases and entered in the database.

The Organizational Instrument was mailed out to the site researchers in each state. The site

researchers were responsible for having the department in their city fill out the instrument. Some departments could not fill out all the information due to the organizational structure of their departments. For example, in City C, everything is done on a divisional level, not a unit level. Therefore, some information, such as the budget, overtime spending, and number of personnel, is known only at the departmental level, and not for the homicide units. Additionally, one department did not return its Organizational Instrument and another department was not comfortable giving out the information asked in the instrument. Therefore, an analysis of the Organizational Instrument could not be performed.

Findings

The findings consist of four sections. The first two sections are descriptive in nature: the first section describes the homicides and the second describes the investigative process. The third section discusses variables associated with solving a case. Logistical regression analysis, with clearance as the dependent variable, is used to determine the estimated impact various variables had on clearing a case. The final section presents logistical regression models using independent variables that have a significant effect on solving a case.

Homicide Case Analysis

Detailed data were collected on 798 homicides in City A, City B, City C, and City D. The sample contains 200 homicide cases from each city, except for City C, which submitted 198 cases.

This section consists of three parts. Part one discusses general circumstances of the homicide, part two contains victim information, and the final part discusses information about the offender.

General Circumstances

A total of 589 (74%) solved cases and 209 (26%) unsolved cases are in our sample. Of the unsolved cases, 44 are still active with the homicide unit, 87 have been turned over to the “cold case” squad, and 78 are inactive. The “cold case” squad attempts to solve cases that the regular homicide unit has been unable to solve. Inactive cases are open cases that no one is currently attempting to solve. These cases could become active again if new information is discovered.

Of the cases active with the homicide unit, the mean time since the case opened is 35.1 months (1,067 days). The mean time since a case has been opened for cases turned over to the cold case squad is 35.4 months (1,078 days). For inactive cases, the mean time since the case opened is 36.4 months (1,105 days). The average unsolved case in our study has been open for approximately 3 years. Of the closed cases in our study, 93.2% were solved within 1 year and 50% were solved within a week. Therefore, if a case is not solved within a year, the chances of it ever being solved are low.

Table 2 lists motivations for the homicide for all cases, closed cases, and open cases. The motivations, which were classified by the data collectors who read the homicide files, are based on the percent of known motives. The motivations can and do overlap in some cases. The predominate reason for committing the homicide for all cases was “other conflict” (43.0%).

“Other conflict” involves an argument between the victim and offender that does not involve money or drugs. The second largest motivation for the homicide was drug related (26.4%). Some of the drug-related motives are failure to pay a drug debt, robbery during a drug deal, and conflict over drug territory. The third greatest motivation for the homicide was retaliation (22.7%). This was followed by taking of property (18.1%), conflict over money (15.7%), self-defense (11.5%), victim killed while committing a crime (11.1%), victim was a bystander who was killed inadvertently (7.8%), rivalry over a lover (7.2%), killed by an authority figure (5.3%), and victim randomly selected from a particular social group (4.1%). Killed by an authority figure refers to being killed by a parent or guardian.

The motivations for the closed cases were “other conflict” (45.8%), drug related (23.0%), retaliation (20.9%), taking of property (17.7%), conflict over money (16.7%), self-defense (12.9%), victim killed while committing a crime (11.6%), victim was a bystander killed inadvertently (8.1%), rivalry over a lover (7.1%), killed by an authority figure (6.9%), and victim randomly selected from particular social group (3.8%). A motive was unknown by the police in 10.1% of the closed cases. Of those cases, 66% of the time the victim and offender knew each other before the homicide incident.

The motivations for open cases were in a slightly different order than for closed cases. The main motivation was drug related (41.0%). This was followed by “other conflict” (30.6%) and retaliation (30.4%). Next was taking of property (19.3%), conflict over money (10.8%), victim

killed while committing a crime (9.7%), rivalry over a lover (7.1%), victim was a bystander killed inadvertently (6.2%), self-defense (5.4%), and victim randomly selected from a particular social group (5.4%). There were no open cases with the motivation killed by an authority figure.

Table 2 also lists motives by city. Some difference in motivation across cities can be seen.

Homicides in City B are more likely to involve more than one motive than homicides in the other three cities. Homicides in City C are less likely to be drug related but more likely to involve randomly selecting a victim from a particular social group. Homicides in City A are less likely to involve a conflict over money or an "other conflict" compared to the other cities, but more likely to involve the victim getting killed while committing a crime.

Table 3 lists the primary cause of death for all homicides, closed homicides, and open homicides. The majority of homicides involved being shot by a handgun (65.7%). This was distantly followed by being stabbed with a knife or other instrument (11.0%), being shot with other than a handgun (9.5%), and other causes of death (13.7%).

The primary cause of death for each city is also listed in Table 3. Three noticeable differences between cities can be seen. The primary cause of death is more likely to be a handgun in City A than in the other cities. Being shot with other than a handgun is more likely to occur in City B than in the other three cities. And homicides in City D are more likely to involve "other" (not shot or stabbed) causes of death.

Table 4 lists characteristics surrounding the homicides. Drugs were found at the scene for 16.2% of the homicides and alcohol was found at 16.5% of the homicide scenes. The homicide scenes were described as “drug market areas” in 27.9% of the cases. The police located at least one eyewitness for 61.5% of the homicides. The homicide occurred in a vehicle for 13.8% of the homicides. The taking or attempting to take property was involved in 18% of the homicides. The victim was killed while committing a crime 11.0% of the time.

Table 4 also reveals differences in homicide characteristics between cities. In City C, the homicide scene was identified as a drug market more often than in the other three cities. Additionally, the homicides in City C involved more gang or drug organization members.

Victim Information

Table 5 contains the number of victims and decedents in each homicide incident. The majority of the homicides (95.7%) involved one decedent. Two decedents were found in 3.9% of the cases and three deaths occurred in 0.4% (n = 3) of the cases. However, 75.3% of the cases involved one victim and 24.7% of the cases involved two or more victims. Therefore, a quarter of homicide incidents involved two or more victims, but less than 5% of homicide incidents involved two or more deaths.

The persons with the highest risk of being a homicide victim in our sample were young, black males. Table 6 presents the homicide rate by age, sex, and race. The victim was 24 years of age

or under in 39.8% of the cases. In 70.4% of the cases the victim was African American and 86.0% of the victims were male.

Alcohol was being used by 21.5% of the decedents at the time of their death, and 15.1% of the decedents were using drugs. Police identified 19.8% of the decedents as drug dealers and 13.6% of the decedents as drug buyers. The decedents were killed while buying drugs in 3.6% of the cases and killed while selling drugs in 6% of the cases.

Criminal record searches revealed 29.8% of the decedents had a prior record for drugs, 31.9% had a prior record for violent crimes, and 33.3% had a prior record for property crimes. In all, 48% of decedents had some type of prior record. At the time of the homicide, 15% of the decedents were in possession of a weapon.

Offender Information

The majority of homicides involve a lone offender. Two-offender homicides occurred in only 9.3% of the cases. Young, black males represent the majority of offenders in our sample. Table 7 displays the offenders' age, sex, and race. The offenders were 24 years old or younger in 53.7% of the cases. In 93.5% of the cases the offender was a male and in 74.8% of the cases the offender was an African American.

Police officers account for 1% (n = 8) of the "offenders" in our sample. In 7 of the 8 police

officer homicides in our sample, the officer was acting in the line of duty. In the eighth case, the officer was off duty and the homicide was not justifiable.

Alcohol was being used by 15.9% of the offenders at the time of the incident and 8.6% of the offenders were on drugs when they killed the victim. Police identified 2.5% of the offenders as drug buyers and 3.5% of them as drug sellers. A criminal records search revealed 24.8% of offenders had a prior record for a drug offense, 33.6% had previously committed a violent crime, and 31.5% had a prior record for a property crime. In all, some type of prior record was found for 45.1% of the offenders.

Table 8 lists the relationship, if any, between the victim and offender for all cases, closed cases, and open cases. The offender and victim were strangers prior to the homicide incident in 23.6% of the cases. In 53.1% of the cases they had known each other. In 23.3% of the cases the relationship between victim and offender was unknown. The victim and offender were members of the same family in 7.8% of the cases. They were related by blood in 4.7% of the cases and related by marriage in 2.3%. In 0.8% of the cases the victim and offender were related but their relationship was unspecified. They lived together in 8.6% of the cases. In 6.3% (n = 50) of the cases the victim and offender had a romantic relationship in either the immediate or distant past.

With regard to differences between cities, the victim and offender knew each other more often in City D than in the other cities. Also, City B and City D had a high percentage of cases in which

the victim and offender were members of the same family.

Investigative Process

This section describes the efforts made by the police in investigating the homicides. It also describes the evidence found at the scene, the amount of time it took to close the case, and the most important reason the case was open or closed.

The majority of homicide cases are handled by one or two detectives. One detective was assigned to 23.7% of the cases and two detectives were assigned to 41.6% of the cases. More than two detectives were assigned to 34.5% of the cases. However, 15.5% of those cases were handled by 11 homicide detectives and these cases were all from City D.

The detective assigned to the homicide went to the crime scene in 90.4% of the cases. The crime scene was a public place (street or park) in 52.4% of the cases. The homicides occurred in a private residence 34.2% of the time. The remainder of cases occurred in a commercial establishment. Only 2% of the homicides occurred in a bar or club.

A search warrant was necessary for the crime scene for 3.2% of the cases. A search warrant was issued for another location besides the crime scene in 14.9% of the cases. When a search warrant was issued for another location besides the crime scene, 68.9% (82 cases) of the time the location

was the suspect's home. A search warrant was issued for a total of 138 (17.2%) cases in our sample.

The crime scene was secured by the first officer on the scene in 87.1% of the cases. The first officer on the scene protected the scene, notified the homicide unit, notified the medic, notified the crime lab, and attempted to locate witnesses in over 90% of the cases. In over 70% of the cases the crime scene was secured within 10 minutes. The majority of crime scenes were kept secure for 2 to 5 hours.

Evidence technicians are responsible for collecting evidence at a crime scene. Some form of physical evidence was discovered in 72.8% (581) of the cases. In cases in which physical evidence was found, 8.8% of the time fingerprints were located. Of the 600 cases in which a gun was used, a bullet was found 33.7% (202 cases) of the time and shell casings were found 63.7% (382 cases) of the time.

A witness was found at the crime scene in 80.3% of the cases. In 19.4% of the cases no witnesses were found at the crime scene, and for 0.3% of the cases this information was missing. When witnesses were found at the crime scene, they were interviewed 97.5% of the time. In approximately 60% of the cases the witnesses were interviewed by both the first officer on the scene and the homicide detective assigned to the case. Of the cases in which witnesses were interviewed, 85.6% of the witnesses were interviewed at the police department and 13.8% were

interviewed at just the crime scene. The location for the interview was unknown for 0.6% of the cases. The interviews lasted less than 2 hours per witness for approximately 90% of the cases.

The witnesses at the scene provide valuable information to the police in 65% of the cases. A witness described the circumstances of the death 50.8% of the time and the motivation for the death 31% of the time. For 30.2% of the cases, a witness identified the physical characteristics of the offender and in 39.2% of the cases a witness identified the offender. The identification of the victim was provided by a witness for 27.4% of the cases. The location of the offender was discovered for 8.9% of the cases by way of a witness and a witness identified a vehicle connected with the homicide for 14.2% of the cases.

The police conducted a neighborhood survey in 61.2% of the homicide cases. A neighborhood survey consists of the police going door to door asking neighbors if they saw or heard anything. In our sample, as few as 1 officer and as many as 15 officers conducted the survey. However, the average number of officers who conducted a neighborhood survey was 2. When a neighborhood survey was conducted, 35.3% of the time the police discovered some form of valuable information.

In addition to conducting a neighborhood survey the police also interviewed family, friends, and coworkers of the deceased. Family members were interviewed in 54.4% of the cases, friends were interviewed in 46.4% of the cases, and coworkers were interviewed in 3.9% of the cases.

These interviews provided the circumstances of the death in 7.8% of the cases and the motivation for the death in 7.3% of the cases. An offender was identified in 7% of the cases and the characteristics of the offender were provided in 4% of the cases due to these interviews. These interviews also provided the identification of the victim in 31.7% of the cases, the location of an offender in 1.9% of the cases, and the description of a vehicle used in the homicide in 2.8% of the cases.

In addition to interviews, the police also conduct a computer check on the decedent; the suspect; witnesses; and any guns, shell casings, or vehicles involved in the homicide. A computer check for any prior criminal record was conducted 66.9% of the time for decedents, 64.9% of the time for suspects, and 38.3% of the time for witnesses. A computer check was run on guns 16.9% of the time when a gun was found. When shell casings were found, a computer check was conducted 22.7% of the time, and when a vehicle was involved, a check was run 46% of the time. These computer checks provided valuable information to the police in only 15.2% of the cases in our sample.

The police also use confidential informants, other officers, and surveillance in their quest to solve a case. A confidential informant was used in 12.8% of the cases. They provided valuable information in 65.7% of the cases in which they were used. Other police officers were used in 7.9% of the homicide cases. When another officer besides the detective assigned to the case provided information, 95.2% of the time the information proved valuable to the investigation.

Surveillance was used in 4.4% of the cases. Approximately 70% of the time the surveillance was used on a suspect, the suspect's residence, or possible locations of the suspect. The surveillance provided valuable information in 71.4% of the cases in which it was used.

In addition to actively looking for information, the police also accumulate information from witnesses who come forward on their own. In 31.3% of the homicides witnesses came forward on their own accord. When witnesses did come forward, they provided valuable information 87.6% of the time. Valuable information consists of circumstances of the death, motivation for the homicide, identifying the offender, providing characteristics of the offender, identifying the victim, identifying a vehicle used in the homicide, or providing the location of the offender. In 61.2% of the cases in which a witness provided valuable information, the witness either identified the offender or confirmed the offender's identity.

The detective assigned to the homicide was present at the postmortem examination in 58.4% of the cases. Specimens such as blood, hair, fibers, fingernail scrapings, and seminal fluid were collected in 76.3% of the cases. During the examination, projectiles were recovered in 83% of the cases in which a gun was used.

After detectives gather information during the initial stages of the investigation, they follow up on that information. In 91.7% of the cases the detective followed up on information provided by witnesses. The follow-up provided valuable information in 67% of the cases. In 42.9% of the

cases in which detectives followed up on information, the follow-up led to the identity of a suspect/offender. The location of the offender was discovered in 18% of the followed-up cases, and the motivation for the death was ascertained for 5% of the cases as a result of following up on witness information.

An arrest warrant was requested and issued for 59.4% of the suspects in our sample. An arrest warrant was served and the suspect was arrested in 57% of the cases. A suspect was identified but no warrant was issued for 16.1% of the cases. Of those cases, 50.8% of the suspects were already in custody so an arrest warrant was not necessary.

Table 9 lists the most important reasons in closing the case. A witness identifying the offender was the most prevalent reason in closing a case. In 47.7% of the closed cases a witness identifying the offender was the most significant reason in closing the case. An offender being arrested at or near the crime scene was the second most prevalent reason for closing a case. This occurred in 18% of the closed cases. In 11.9% of the closed cases, the crime was solved by the homicide detective identifying someone who identified the offender--for example, the police located a witness who left the homicide scene or found a friend/family member of the decedent who knew why someone would want to harm the decedent.

The time between the case being assigned to a detective and its closing is listed in Table 10. Approximately 50% of the closed cases were solved within a week and 88.1% were solved

within 6 months. Only 3.9% of the closed cases took longer than a year to solve.

Table 10 also lists the time it took to solve a case for each city. City C solved the fewest cases in one day. The other three cities solved 32% to 40% of their homicide cases within 24 hours. City C only solved 8.1% of its cases in the first 24 hours after the homicide. However, City C solved more of its homicide cases between 1 and 6 months than the other three cities.

Table 11 lists the most important reasons a case was still open. In 17.2% of the open cases, no physical evidence was found to link a suspect to the homicide. In 10% of the cases, the police were unable to identify a witness who saw the homicide take place. The majority of the homicide cases were not solved due to a myriad of reasons.

Variables Associated with Solving a Case

This section identifies the variables associated with closing a case. In all four cities, we considered a case closed when an arrest was made, the homicide was a murder/suicide situation, or the homicide was in self-defense. Logistic regression analysis was used, rather than ordinary least squares regression, because of the dichotomous nature of the dependent variable. A bivariate analysis was conducted on each of the 215 independent variables. The analysis identified variables that are significantly more likely to be present in closed cases. The following sections list the variables that have a significant effect on the closing of a case. Odds ratios are

also reported for the significant variables. Positive odds ratios indicate the case was more likely to be cleared and negative odds ratios indicate the case was less likely to be cleared.

Victim Variables

Table 12 lists the victim characteristics examined in the analysis for their effect on homicide clearance. Variables that had a significant effect on closing the case as well as those that did not have an effect are listed. The sex and race of the victim did not have a significant effect on closing the case. There were six variables, however, that had a significant ($p < .05$) effect.

The case was significantly more likely to be solved if the victim had no history of associating with drug dealers/users (odds ratio = 1.65), had no history of drug use (odds ratio = 1.85), or was not a drug buyer (odds ratio = 1.58). Additionally, the case was significantly more likely to be closed if the victim had no prior record for drugs (odds ratio = 1.53), violent crime (odds ratio = 1.63), or property crime (odds ratio = 1.58).

When the significance level is relaxed to $p < .10$, two other variables have an effect on closing the case. The homicide case was more likely to be solved if the victim was not selling drugs at the time of the incident (odds ratio = 1.77), but a case was less likely to be closed if the victim was not a gang or drug organization member (odds ratio = .15).

Offender Variables

Table 13 lists offender characteristics associated with closing a case. Table 13 shows two offender variables had a significant effect on closing the case at the $p < .05$ level and three variables had an effect at the $p < .10$ level. The two variables are race and whether the offender was a drug buyer. The case was less likely to be solved if the offender was Black compared to the offender being Hispanic (odds ratio = .4428). The case was more likely to close if the offender was not identified as a drug buyer (odds ratio = 2.33).

The three variables at the $p < .10$ level are sex, race, and prior record for property crime. A case was less likely to be solved if the offender was a male (odds ratio = .15) and if the offender was White rather than Hispanic (odds ratio = .38). Additionally, if the offender had a prior record for a property offense, the case was less likely to be solved (odds ratio = .51).

There was no significant difference between Black and White offenders in solving a case.

Weapon Variables

Variables related to the use of a weapon and closing a case are listed in Table 14. Eight variables had a significant effect on closing a case at the $p < .05$ level.

A case was more likely to be closed if the primary cause of death resulted from the use of a rifle (odds ratio = 3.31), knife (odds ratio = 2.14), or personal weapon (odds ratio = 5.52) compared to a handgun. However, the case was less likely to close if the primary cause of death was from

an unidentified weapon (odds ratio = .13) or an “other gun” (odds ratio = .07) compared to a handgun. (“Other gun” refers to a gun other than a handgun, rifle, or shotgun; e.g., an assault rifle such as an AK-47.) Additionally, a case was more likely to be solved when an “other gun” was not used compared to being used (odds ratio = 5.82).

If a weapon was not identified or suggested in the police report, the case was less likely to be solved (odds ratio = .32). Additionally, if the decedent was not in possession of a weapon at the time of death, the case was less likely to be solved (odds ratio = .52).

When the significance level is relaxed to $p < .10$, one additional variable has an effect on solving a case. A case was less likely to close if personal weapons (hands and feet) were not used in the homicide (odds ratio = .54).

Drug Variables

Table 15 lists drug variables and their effect on solving a case. Two drug variables, one at the $p < .05$ level and one at the $p < .10$ level, had a significant effect on closing a case. If drugs were not a circumstance in the homicide, the case was significantly ($p < .05$) more likely to be solved (odds ratio = 2.17). Additionally, the homicide was more likely to be solved if the incident did involve an effort to obtain money to buy drugs (odds ratio = 3.56).

General Circumstances

Table 16 lists five variables that had a significant ($p < .05$) effect on solving the case. If the police did not identify the homicide as drug related, the case was more likely to be solved (odds ratio = 2.17). If the homicide occurred in a private location, the case was more likely to be solved (odds ratio = 2.71). If the weather during the investigation was not “bad” (too hot, too cold, raining, or snowing), the case was more likely to close (odds ratio = 1.84). The case was more likely to be solved if the crime scene was not identified as a drug market area (odds ratio = 1.49). And the case was more likely to be solved if there was at least one witness (odds ratio = 1.85).

Motivation and Other Circumstances

Table 17 lists motivations for the homicide that had a significant effect on closing the case. Four motivations had a significant effect at the $p < .05$ level. If the homicide involved preemption for an anticipated retaliatory attack, the case was more likely to be solved (odds ratio = 4.54). If the homicide involved punishment for informing, the case was less likely to close (odds ratio = .17). The case was more likely to be solved if the homicide involved a conflict over money/property other than drugs (odds ratio = 2.55). If the offender was defending himself or herself, the case was more likely to be solved (odds ratio = 3.88).

When we relax the significance level to $p < .10$, two additional motivation variables become significant. If the victim was a bystander killed inadvertently by the offender, the case was more likely to be solved. Additionally, the case was more likely to be solved if the homicide involved an attempt to get money to buy drugs.

Detective Variables

Table 18 lists detective variables that have a significant effect on the closing of a case. The number of detectives assigned to a case has a significant ($p < .10$) effect on closing a case. A case was more likely to be solved if 3 (odds ratio = 2.21), 4 (odds ratio = 3.10), or 11 (odds ratio = 2.05) detectives were assigned to the case compared to just 1 detective. However, a case was less likely to close if 7 (odds ratio = .04) or 8 (odds ratio = .04) detectives were assigned to the case compared to 1 detective.

The amount of time it took the detective(s) assigned to the case to arrive on the scene after they were notified had a significant ($p < .05$) effect on the closing of the case. The case was less likely to be solved if it took the detectives 30 to 60 minutes (odds ratio = .38) or 60 to 120 minutes (odds ratio = .47) compared to the detectives arriving within 30 minutes.

If a detective followed up on witness information, the case was more likely to be solved (odds ratio = 2.17). Additionally, if the follow-up proved valuable, the case was more likely to be solved (odds ratio = 17.31).

Crime Scene Variables

Crime scene variables significant to solving the case are listed in Table 19. The homicide was less likely to be solved if the first officer on the scene did not notify the homicide unit (odds ratio = .44), the medical examiner (odds ratio = .43), or crime lab (odds ratio = .41). Additionally, the

case was less likely to be solved if the first officer on the scene did not attempt to locate witnesses (odds ratio = .41).

The homicide was less likely to be solved if the crime scene was not measured (odds ratio = .61). If a weapon was not found at the scene, the homicide was less likely to be solved (odds ratio = .35). When the significance level is relaxed to $p < .10$ one other crime scene variable becomes significant. If the homicide detective described the crime scene in notes (Table 18), the case was more likely to close (odds ratio = 2.90).

The crime scene itself also had a significant effect on closing the case. The crime was significantly ($p < .05$) more likely to be solved if the crime scene was a residence rather than a public area (odds ratio = 4.00). If the crime scene was a bar or club, the case was more likely to be solved compared to the scene being a public area (odds ratio = 4.25). A public area refers to a street or park.

Witness Variables

A case was less likely to be solved when no witnesses were at the crime scene (odds ratio = .39) (Table 20). However, when witnesses were at the crime scene and they provided valuable information, the case was more likely to be solved (odds ratio = 4.75). The homicide was significantly more likely to be solved if a witness provided the circumstances of death (odds ratio = 2.96), the motivation for death (odds ratio = 2.89), the identification of the offender (odds ratio

= 28.11), the identification of the victim (odds ratio = 1.63), or the location of the offender (odds ratio = 3.92). However, when a witness provided the characteristics of the offender, the case was significantly less likely to be solved (odds ratio = .37).

When a neighborhood survey provided valuable information, the case was more likely to close (odds ratio = 1.60). When neighbors of the victim were interviewed, the case was more likely to close (odds ratio = 1.66). However, when friends/ acquaintances of the victim were interviewed, the case was less likely to be solved (odds ratio = .67). When friends, family, coworkers, or neighbors provided valuable information to the police, the cases was more likely to be solved (odds ratio = 2.63).

Computer Check Variables

When computer checks were conducted on the decedent (odds ratio = .36) or witnesses (odds ratio = .64), the case was less likely to be solved (Table 21). However, when computer checks were conducted on suspects (odds ratio = 6.71) or guns (odds ratio = 2.24) the case was more likely to close. When computer checks provided valuable information, the homicide was more likely to be solved (odds ratio = 3.46).

When the Local Criminal Justice Information System (CJIS) was used, the case was more likely to be solved (odds ratio = 1.46). However, when the DRUG FIRE System was used, the case was less likely to close (odds ratio = .16).

Hospital Variables

Only one hospital variable proved significant in our analysis (Table 22). When the attending physician/medical personnel at the hospital were interviewed by police, the case was more likely to be solved (odds ratio = 2.01).

Medical Examiner's Office Variables

When the detective assigned to the case was present at the postmortem examination, the case was more likely to be closed (odds ratio = 1.90) (Table 23). When the medical examiner collected specimens (odds ratio = 1.45), recovered a projectile (odds ratio = 1.67), or prepared a body chart (odds ratio = 2.14), the case was more likely to be solved.

Source of Information Variables

The use of confidential informants did not have a significant effect on closing a case (Table 24). However, when confidential informants provided valuable information, the case was more likely to be solved (odds ratio = 3.64). The use of surveillance by police was more likely to result in the closing of a case (odds ratio = 2.81). Additionally, a case was more likely to be solved if witnesses came forward on their own (odds ratio = 1.65).

Summary of Variables Associated with Solving a Case

This section provides a summary of which variables affected the likelihood of closing a case

(Table 25) and suggestions for future research. The 226 logistic regression analyses conducted showed that 43 variables had a significant ($p < .05$) effect on the likelihood of closing a case.

When the significance level is relaxed to $p < .10$, an additional 9 variables had an effect.

Victim and offender attributes had an effect on the closing of a case. A case was more likely to be solved if the victim was not a drug user or buyer and had no criminal record. If the offender was Hispanic rather than Black, the case was more likely to be solved. Additionally, a case was more likely to be closed if the offender was not identified as a drug buyer.

The type of weapon used in the homicide also had an effect on the status of the case. Cases in which the victim was killed by the use of a rifle, knife, or personal weapon (hands or feet) were more likely to be solved than cases in which the victim was killed with a handgun. Furthermore, if the police identified the weapon used to kill the victim, the case was more likely to be solved.

The presence of drugs in a case had an effect on its closing. Cases in which drugs were a circumstance were significantly less likely to be closed.

Some general circumstances surrounding a homicide also had an effect on its closing. If the homicide occurred in a private location, if the weather was not bad, or if the crime scene was not identified as a drug scene, the case was more likely to be solved.

The motivation for the homicide had an effect on the status of the case. A case was less likely to be solved if the motivation was “punishment for informing.” Cases in which “preemption for an anticipated retaliatory attack” was the motive were more likely to be solved. If the homicide involved a conflict not involving drugs, the case was more likely to be solved.

The number of detectives assigned to a case and their actions had an effect on the closing of a case. A case was more likely to be solved if 3, 4, or 11 detectives were assigned to it as opposed to just 1 detective. City D, which has a high homicide clearance rate, was the only department to use 11 homicide detectives on a case. They used 11 detectives in 63% of the 200 cases in our sample. Cases in which 7 or 8 detectives were assigned were significantly less likely to be solved compared to cases in which 1 detective was assigned. Additionally, City D was the only city to assign 7 or 8 detectives to a case.

The amount of time it took detectives to arrive on the homicide scene also had an effect on closing the case. When the homicide detective arrived on the scene within 30 minutes, the case was more likely to be solved than when the detective took longer than 30 minutes to arrive on the scene. A case was also more likely to be solved when detectives followed up on witness information.

Some crime scene variables affected the closure of a case. When the first officer on the scene attempted to locate witnesses and notified the homicide unit, the medical examiner’s office, or

the crime lab, the homicide was more likely to be solved. Cases in which the homicide weapon was present at the crime scene were more likely to be solved. And when a crime scene was measured, the closure rate was higher than when a crime scene was not measured.

The presence of a witness at the crime scene increased the likelihood of solving the case. If the witness provided valuable information, the likelihood of solving the case increased. Additionally, when a neighborhood survey of the crime scene provided valuable information or the neighbors of the victim were interviewed, the crime was more likely to be solved. However, when friends of the victim were interviewed, the crime was less likely to be solved.

When computer checks were conducted on a suspect or a gun, the case was more likely to be solved, but when computer checks were conducted on the victim or witnesses, the case was less likely to be solved.

Cases in which the detective assigned to the homicide case was present at the postmortem examination were more likely to result in closure. When the medical examiner collected specimens, recovered a projectile or prepared a body chart, the case was more likely to be solved.

The sources of information had an impact on the closing of cases. When police used surveillance in a case, the case was more likely to be solved. Additionally, cases in which confidential informants provided valuable information or witnesses came forward on their own were more

likely to result in closing.

A substantial amount of police resources are devoted to the investigation of homicides. By identifying variables related to clearance rates, police could more efficiently use limited resources while increasing their ability to solve one of the most serious crimes.

Some of the variables that affect the likelihood of closing a case cannot be manipulated, such as victim and offender characteristics. However, some variables, such as the time it takes detectives to get to the crime scene, the number of detectives assigned to a case, following up on witness information, and the actions of the first officer on the scene, can be controlled. By adjusting these variables, it may be possible for a city to increase its homicide clearance rate.

Regression Analysis Models

We used the significant independent variables from the bivariate analysis to create eight regression analysis models. The eight models are for offender characteristics, victim characteristics, medical examiner variables, computer check variables, witness variables, crime scene variables, detective variables, and general circumstance variables. These eight models reveal the conditional probability of solving a case given the variables in the model.

After the eight models, one additional model is presented. This model includes the independent

variables that remained significant after having been included in the eight models. Obviously, some independent variables in the eight models lose their significance when controlling for the effects of the other independent variables in the model. For example, being a male offender had a significant effect on closing a homicide case in the bivariate analysis, but when placed in a model with three other independent variables that describe offender characteristics, it loses its significance.

Before we begin discussing the models, the reader should keep in mind that 74% of the cases in our sample have been solved. Therefore, a model with a conditional probability greater than the base rate of 74% would indicate an increase in the likelihood of solving a case. Conversely, a conditional probability lower than the base rate of 74% would indicate a decrease in the likelihood of solving a case.⁵

The first of the eight models is the offender characteristics model (Table 26). This model consists of four variables: offender is a male, offender identified as a drug buyer, offender arrested for prior property offense, and offender's race. This model actually consists of three models since being African American, Hispanic, or White had different effects on a case being solved. In this model when an offender is African American, there is a 90% chance the police will solve the case, an increase over the base rate of 74%. When the offender is Hispanic, there is a 63% chance the case will be closed, a decrease compared to the base rate. When the offender is White, there is a 78% chance of closing the case, a rate close to the base rate in our sample. Additionally,

being African American or being Hispanic were statistically significant at the $p < .05$ level.

The second model we looked at was the victim characteristics model (Table 27). This model consists of eight variables: victim was a gang or drug organization member, victim had a history with drug dealers/users, victim had a history of drug use, victim identified as a drug buyer, victim had a prior record for drugs, victim had a prior record for violence, victim had a prior record for property offense, and victim was selling drugs at the time of the homicide. When all these variables were present, there was a 63% chance the case would be solved. This is lower than the base rate of 74% for our sample. Only one variable remained statistically significant ($p < .10$): victim had a history of drug use.

The third model consisted of medical examiner variables (Table 28). The four variables were detective present at postmortem examination, specimens collected (i.e., blood, hair, fiber), projectile recovered, and a body chart of the victim was prepared. The only variable that remained statistically significant ($p < .05$) was body chart of the victim was prepared. When these four variables were present, there was a 90% chance of solving the case. This model represented an improvement over the base rate of 74%.

The fourth model consisted of computer checks conducted during the investigation (Table 29). The six variables in this model were computer check conducted on the decedent, computer check conducted on the suspect, computer check conducted on witnesses, computer check conducted on

guns, DRUG FIRE system used, and the local Criminal Justice Information System (CJIS) used. All these variables remained statistically significant ($p < .05$) when placed in the model except DRUG FIRE system used. When these six variables were present, there was an 87% chance the case would be solved, an improvement compared to the base rate of 74% in our sample.

The fifth model consisted of five witness variables (Table 30). The variables were: witness at scene interviewed, witness provided valuable information, witnesses found who were not at the scene, friends/acquaintances interviewed, and neighbors interviewed. Three of the variables were statistically significant ($p < .05$) when placed in this model. They were: witness provided valuable information, friends/acquaintances interviewed, and neighbors interviewed. There was a 95% chance of solving a case with these five variables present, an improvement over the base rate of 74%.

The sixth model involved crime scene variables (Table 31). The five variables in this model were: first officer on the scene notified the homicide unit, notified the medic, notified the crime lab, and attempted to locate witnesses; and the crime scene was measured. The actions of the first officer on the scene were important because the sooner the homicide unit, the medic, and the crime lab arrive on the scene, the sooner the investigation can begin. Additionally, by attempting to locate witnesses, the first officer can help the homicide detective begin the investigation. When these five variables were present, there was an 88% chance of solving the case. This is an

increase over the base rate of 74% in our sample. Only one variable remained statistically significant at the $p < .10$ level: first officer on scene attempted to locate witnesses.

These variables are within the control of the police. Therefore, we looked at the effects of removing each variable from the model. By removing any one variable from the model, the chance of solving the case fluctuates between 86% and 89%. Therefore, if only four out of the five variables in model six are present, there was at least a 86% chance of solving the case.

The seventh model examined consisted of detective variables (Table 32). The four variables in this model were: three or more detectives assigned to the case, detective arrived at the scene within 30 minutes of being notified of the homicide, detective described the crime scene in notes, and the detective followed up on all witness information. By having three or more detectives on the case, detectives will have more time to investigate the case more thoroughly. The sooner the detective arrives on the scene, the less likely the crime scene will be contaminated. When detectives describe the crime scene in their notes, this could indicate they paid more attention to the details of the scene. And by following up on all witness information, the detectives are more likely to find additional information that would lead to closing the case. When these four variables were present in a case, there was a 96% chance of solving a case, a large increase over the base rate of 74%. Three variables were statistically significant: three or more detectives assigned to the case ($p < .05$), detectives described the scene in their notes ($p < .10$), and detective followed up on all witness information ($p < .10$).

Since these four variables can be controlled by the police, we looked at the effects each variable had on the model. In removing any one variable from the model, there was still a 92% to 96% chance of solving the case. Therefore, if any three variables in model seven are present in a case, there is at least a 92% chance of solving the case.

The eighth model examined consisted of general circumstances surrounding the homicide (Table 33). The three variables in this model were: homicide occurred in a private residence, there was an eyewitness to the homicide, and the homicide was not drug related. All three variables remained statistically significant ($p < .05$) when placed in this model. When a case involved these three variables, there was a 98% chance the case would be solved, an improvement over the base rate of 74%.

The final model consisted of the 15 variables that remained significant, at the $p < .05$ level, when placed in one of the eight models above (Table 34). The 15 variables are: 1) offender was African American, 2) offender was Hispanic, 3) a body chart of the victim was prepared, 4) computer check on the decedent, 5) computer check on the suspect, 6) computer check on a witness, 7) a computer check on a gun, 8) used the local CJIS system, 9) witness at scene provided valuable information, 10) friends/acquaintances interviewed, 11) neighbors interviewed, 12) three or more detectives assigned to the case, 13) location of the homicide was private, 14) eyewitness to the homicide, and 15) not a drug-related homicide.

Since it was impossible to be both African American and Hispanic in our data, we ran two models, one model with African American and one model with Hispanic. These two models, therefore, consisted of only 14 variables. When a case involved these 14 variables, there was a 99% chance the case would be solved for both models. This was a vast improvement compared to 74% of the cases being solved in the sample.

Three variables remained significant, at the $p < .05$ level, when placed in the African-American model and the Hispanic model. They were: computer check on suspect, computer check on witnesses, and witness at scene provided valuable information. At the $p < .10$ level, three variables were significant for both models. They were: local CJIS system used, location of homicide was private, and homicide was not drug related. For the Hispanic model, the offender being Hispanic was significant at the $p < .10$ level.

Next we removed the nonsignificant variables, starting with the most nonsignificant, from the two final models until we were left with just a model with variables significant at the $p < .10$ level. This left us with a “trimmed” model, a model with only significant variables.

The trimmed African-American model consisted of 10 variables (Table 35). However, the offender being African American was not one of the variables. The 10 variables were: 1) computer check on the decedent, 2) computer check on the suspect, 3) computer check on a witness, 4) computer check on a gun, 5) three or more detectives assigned to the case, 6) location

of homicide was private, 7) a body chart of the victim was prepared, 8) not a drug-related homicide, 9) witness at scene provided valuable information, and 10) friend/acquaintances interviewed. All these variables were significant at the $p < .05$ level except location of homicide was private, computer check on a gun, and friends/acquaintances interviewed. Those three variables were significant at the $p < .10$ level. When a case consisted of all 10 variables, there was a 99% chance the case would be solved.

The Hispanic trimmed model consisted of nine variables (Table 36). The variables were: 1) computer check on the decedent, 2) computer check on the suspect, 3) computer check on a witness, 4) used local CJIS system, 5) location of homicide was private, 6) a body chart of the victim was prepared, 7) not a drug-related homicide, 8) offender was Hispanic, and 9) witness at scene provided valuable information. All of these variables were significant at the $p < .05$ level except for offender was Hispanic, which was significant at the $p < .10$ level. When a case consisted of these nine variables, there was a 98% chance the case would be solved.

Conclusions

We began this research to develop a better understanding than currently exists of the variables that are associated with the clearance of homicide cases. Previous literature suggested that two variables related to clearance were the level of drug-related homicides and the size of police departments. Drug-related homicides were thought to be associated with clearance rates because

they frequently lack the close relationship between victim and offender that facilitate clearance. Levels of policing were thought to be associated because they indicate the level of resources that could be devoted to homicide clearance. Our analysis of the 100 largest cities in the United States for the year 1993 suggested very modest associations between clearance levels and these variables. For drug-related homicides, we correlated the portion of homicides that were judged to be drug related with clearance rates in these cities and found the zero-order explained variation to be approximately 12%. The relationship between clearance and rate of police per index crime was even less (explained variation equals 3%). While drug-related homicides and overall policing levels may have some correlation with clearance, these relationships appear to be modest at best, and, more importantly, provide little policy guidance for law enforcement agencies as to how they should organize to improve clearance.

As we noted at the beginning of this paper, the clearance for homicides (and for all crimes) is fundamentally important for one of the underlying paradigms for law enforcement, deterrence. For that reason, we have focused on a more detailed consideration of homicide events and investigative practices to help us understand clearance. We identified approximately 250 characteristics of homicide events and investigative practices and determined that approximately 51 of those were statistically significant and positively associated with clearance. Of these 51, 37 were characteristics associated with police practices, with the remainder being characteristics associated with the homicide event. While we did find that drug-related homicides were more difficult to clear, it is our conclusion that there are substantial variations in homicide clearances

associated with police practices. Furthermore, although we selected our sample of cities to maximize variation in the clearance of homicides and total index crimes, we found that these differences between cities for homicide clearances disappeared for the most part when we controlled for characteristics of cases and characteristics of investigations. Only one of the cities, the one with the consistently highest level of clearance for homicides, appeared to have a level of clearance that was not explained by these characteristics of events and investigations. We will comment on this later.

In considering the implications we think this research has for law enforcement, we would point especially to the following observations. It appears that what happens at the crime scene by the initially responding officer(s) is important. The speed with which homicide detectives, evidence technicians, and medical examiners are notified and the time it takes them to respond to the scene are associated with clearance. The activities of the first responding officers to secure the scene, to identify potential witnesses, to preserve evidence, to initiate, when appropriate, neighborhood surveys, and to participate in neighborhood surveys appears critical. We find that the assignment of 3 or 4 detectives is optimal for clearing a case, but that increasing that number is not efficient until one reaches very large numbers of detectives (i.e., 11 or more). In the city that continued to have a significant city effect on homicide clearance after all other characteristics of the case and of the investigation were controlled (Table 37), the practice of assigning very large numbers of detectives was frequently employed. In addition, although our data were not able to assess this element, experienced homicide detectives with whom we discussed our research indicated that

another factor, in addition to the number of detectives, was the degree of autonomy that detectives were able to exercise at the crime scenes. Policies that require detectives to either seek approval for continuing past their regularly scheduled shift or that deny the possibility for overtime were identified by these detectives as significantly reducing their effectiveness in a case. These detectives suggested to us, and it would be consistent with our data, although we were not able to measure this directly, that policies that allow responding detectives to stay on the case as long as they think necessary without seeking approval is critical. In addition, our data indicate the importance of detectives arriving at the crime scene as quickly as possible and preferably in less than 30 minutes. Again, although we were not able to measure this directly with our data, experienced detectives tell us that a critical element in quickness of response is whether they have cars assigned to them on a 24-hour basis. If they do not and their assignment to a case occurs while they are off duty, it is impossible to respond as quickly as they think, and our data suggest, is necessary.

Our data also suggest the growing importance of computer checks of various types, particularly checks on guns, on suspects, and on victims. Our data suggest this even though the time frame of our sample meant we had cases in which the police were not asked to take full advantage of emerging information technology available to law enforcement. We also note the minimal impact of the defender and victim characteristics in clearance. Although there are some significant variables (for example, ethnicity), we do not find these to be critical variables in understanding clearance, nor are many other characteristics of the case in the investigation. While drug cases

continue to be the most difficult for police to solve, even when we restrict our analysis to this subset we find that police are able to clear these cases given the right allocation of resources. Overall, then, our analysis has led us to believe that practices and policies of law enforcement agencies can have a substantial impact on the clearance of homicide cases and that clearance of homicides could be increased if law enforcement agencies improved investigation policies and practices. Lawrence Sherman (1998) has recently written about the importance of evidence-based policing to draw attention to the fact that we have little evidence to guide most policing practices. We believe that the research reported in this paper is consistent with the idea of using research to assess strategies that will improve the ability of law enforcement agencies to effectuate arrest in very serious cases. While our analysis only applies to homicides cases, similar analyses of other types of serious crimes could assist police in structuring their response to improve apprehension.

The kind of research that we report here could be extremely useful in the area of police performance measurement as well. When we presented the preliminary results of this research at a National Institute of Justice conference, an experienced homicide police administrator observed that one of the values he saw for this research was to allow for the estimation of the difficulty of a case and to use that in weighing the effectiveness of detectives' performance. We concur. We think that homicide cases, and most other crimes, begin with different levels of "solvability." Our research suggests that homicides do differ in regard to the probability of an arrest, but, even more importantly, we think there are few homicide cases that given the right initial response, the right timing, and the right dedication of resources cannot be solved.

Finally, while we have described what we think are characteristics of investigations that increase the chance of clearance, our ability to recommend strategies for effective homicide investigation is limited by the fact that our data are drawn from a range of activities that police agencies have used in the past. The indication of the importance of information technology in computer checks on case closure leads us to believe that a wider range of information that could and should be more effectively utilized in the investigative process exists. For example, particularly for drug-related cases, access to data maintained by vice and drug squads within police departments in the region in which the crime occurs could prove extremely useful in identifying potential offenders. This information, particularly in drug-related crimes, could be vitally important and, if easily accessed through information technology, could be useful in focusing investigative priorities. Similarly, domestic violence data sets could prove useful. These examples suggest a broader set of information sources for law enforcement that could improve homicide and other investigations, mainly the rapid adoption of incident-based crime reporting in its fuller sense. Police would have access within their jurisdiction and other jurisdictions to a wide range of information that could be useful in identifying potential offenders for all cases. The future of evidence-based policing, and we think more successful policing, may well depend upon the degree to which law enforcement can take fuller advantage of the information technology age.

Future Research

By no means do we think we have solved the problem of homicide clearance. We do believe,

however, the approach we have taken is viable and that it offers suggestions for police agencies. At the same time, we believe that the range and number of law enforcement agencies included in research of this kind should be increased. We urge support for research covering a much larger number of cases and different types of agencies. In addition, we think the design of the research that we have completed should be done in multiple years for homicide cases to help us understand whether the change in homicide clearance rates over the last 10 to 15 years reflects changes in homicide events and/or homicide practice. Finally, we think that the design suggested here and its logic should be extended to other types of crimes, particularly to the crimes of rape, aggravated assault, and robbery. Providing detailed assessments of a variety of ways for law enforcement to respond to crime will allow us to conduct research that is far more relevant to the practice of policing than much of the research that has been conducted in the past.

References

- Beccaria, C. (1963). *On crimes and punishment*. (H. Paolucci, Trans.). New York: Bobbs-Merrill Co., Inc. (Original work published 1764).
- Cardarelli, A.P. & Cavanaugh, D. (1992, November). *Uncleared homicides in the United States: An exploratory study of trends and patterns*. Paper presented at the annual meeting of the American Society of Criminology, San Francisco, CA.
- Eck, J.E. (1992). Criminal investigation. In G.W. Cordner and D.C. Hale (Eds.), *What works in policing* (pp.19-34). Cincinnati: Anderson Publishing Co.
- Forst, B. (1982). *Arrest convictability as a measure of police performance*. Washington, DC: National Institute of Justice.
- Greenwood, P., Chaiken, J., & Petersilia, J. (1977). *The criminal investigation process*. Lexington, MA: Lexington Books.
- International Association of Chiefs of Police. (1995). *Murder in America: Recommendations from the IACP murder summit* (Available from John Firman, Coordinator for Research and Analysis at 1-800-THE-IACP).
- Maguire, K. & Pastore, A.L. (Eds.). (1995). Sourcebook of criminal justice statistics 1994. United States Department of Justice, Bureau of Justice Statistics. Publication No. NCJ-154591. Washington, DC: U.S. Government Printing Office.
- Maxwell, M.G. (1989). Circumstances in supplementary homicide reports. *Criminology*, 27, 671-695.
- Riedel, M. & Rinehart, A. (1994, March). *Clearance, missing data, and murder*. Paper presented at the annual meeting of the Academy of Criminal Justice Sciences, Chicago, IL.
- Sherman, L. (1998). *Ideas in American policing: Evidence-based policing*. Washington, D.C.: Police Foundation.
- Skolnick, J. (1966). *Justice without trial*. New York: John Wiley.
- Tonry, M. & Morris, N. (1992) *Modern policing*. Chicago: University of Chicago Press.

Endnotes

1. New York City was excluded due to the size and complexity of its homicide problem and homicide investigation system, and because it has recently experienced dramatic changes in its homicide rates.
2. Since the cities were chosen based on the UCR data, the reader should be cautioned about the inaccuracies of that data. Police departments have been accused of underreporting crimes to the FBI for the purpose of making their cities crime problem seem less serious.
3. Adapted from an instrument developed by Colin Loftin, Brian Wiersema, April Pattavina, Paul Mazerolle, and Adam Dobrin.
4. Data collectors differed by state and were supplied by each state's Statistical Analysis Center (SAC). Through contacts each SAC had with police departments in the four cities, it was arranged for data collectors to go to the homicide departments and read through the opened and closed homicide files. After reading a file, the data collectors completed a Homicide Attribute Coding Instrument and an Investigative Instrument for that file.
5. Conditional probabilities (\hat{p}) were calculated using the following formula from Logit Modeling Practical Applications by Alfred Demaris:

$$\hat{p} = \frac{e^{(B_0 + X_1B_1 + X_2B_2 + \dots + X_nB_n)}}{1 + e^{(B_0 + X_1B_1 + X_2B_2 + \dots + X_nB_n)}}$$

Appendix A

Tables

Table 1
 Homicide and Total Clearance Rate Levels, 1994,
 for 20 of the Largest Cities in the United States

Total Clearance Level	Homicide Clearance Level		
	High	Medium	Low
High	City A* Austin Dallas	Jacksonville Philadelphia San Jose	City C Boston
Medium	El Paso	Memphis Phoenix Seattle	San Diego Washington, D.C.
Low	City D	Columbus Houston	City B San Antonio San Francisco

*Cities A, B, C, and D are the cities selected for study.

Table 2

Motivations for the Homicide for All Cases

Motivation	Percent of Cases				All Cities
	City A	City B	City C	City D	
Motivation known to police	82.4	87.3	79.2	87.5	84.1
Single motivation for homicide	61.6	40.1	64.1	52.6	54.3
Retaliation	24.3	29.4	20.1	16.8	22.7
Drug related	33.4	30.0	16.0	26.5	26.4
Taking of property	16.6	21.2	14.7	20.0	18.1
Victim killed while committing a crime	20.1	12.1	5.6	6.5	11.1
Offender defending themselves	9.9	15.0	4.8	15.5	11.5
Victim was a bystander killed inadvertently	9.9	6.3	7.0	8.4	7.8
Conflict over money	5.3	23.8	14.7	16.8	15.7
Rivalry over a lover	7.6	9.4	4.1	7.1	7.2
Victim randomly selected from a particular social group	0.0	1.3	14.6	0.6	4.1
Killed by an authority figure	4.0	4.3	2.0	10.5	5.3
Other conflict (not money or drugs)	33.6	50.6	42.7	43.2	43.0
Combination of motives	38.4	59.9	35.9	47.4	45.7
Motive unknown to police	17.6	12.7	20.8	12.5	15.9

Motivations for the Homicide for Closed Cases

Motivation	Percent of Cases				All Cities
	City A	City B	City C	City D	
Motivation known to police	90.3	91.9	84.4	92.4	89.9
Single motivation for homicide	58.8	36.0	61.4	51.0	51.6
Retaliation	22.8	26.4	17.1	16.9	20.9
Drug related	28.2	25.6	13.4	24.0	23.0
Taking of property	15.2	18.2	17.0	20.0	17.7
Victim killed while committing a crime	22.8	9.4	6.7	7.6	11.6
Offender defending themselves	10.9	18.1	4.8	16.2	12.9
Victim was a bystander killed inadvertently	10.9	7.5	6.7	7.8	8.1
Conflict over money	6.3	24.8	16.2	18.3	16.7
Rivalry over a lover	7.2	9.1	4.8	7.1	7.1
Victim randomly selected from a particular social group	0.0	1.6	14.3	0.7	3.8
Killed by an authority figure	5.2	5.9	3.0	12.0	6.9
Other conflict (not money or drugs)	35.4	56.9	45.8	44.4	45.8
Combination of motives	41.2	64.0	38.6	49.0	48.4
Motive unknown to police	9.7	8.1	15.6	7.6	10.1

Motivations for the Homicide for Open Cases

Motivation	Percent of Cases				All Cities
	City A	City B	City C	City D	
Motivation known to police	61.1	77.0	67.7	60.0	67.6
Single motivation for homicide	72.7	51.1	71.4	66.7	64.3
Retaliation	28.0	38.5	28.5	15.5	30.4
Drug related	60.7	43.7	23.3	53.8	41.0
Taking of property	20.4	27.9	9.7	20.0	19.3
Victim killed while committing a crime	13.0	18.0	3.2	0.0	9.7
Offender defending themselves	4.6	5.2	5.2	7.6	5.4
Victim was a bystander killed inadvertently	4.6	2.5	7.8	15.5	6.2
Conflict over money	0.0	20.5	10.6	0.0	10.8
Rivalry over a lover	9.3	10.3	2.6	7.6	7.1
Victim randomly selected from a particular social group	0.0	0.0	15.5	0.0	5.4
Killed by an authority figure	0.0	0.0	0.0	0.0	0.0
Other conflict (not money or drugs)	23.9	30.8	34.2	30.7	30.6
Combination of motives	27.3	49.9	28.6	33.3	35.7
Motive unknown to police	38.9	23.0	32.3	40.0	32.4

Table 3

Primary Cause of Death for All Cases

Cause of Death	Percent of Cases				
	City A	City B	City C	City D	All Cities
Shot with a handgun	75.5	61.8	64.1	61.5	65.7
Shot with other than a handgun	3.0	19.0	11.6	4.5	9.5
Stabbed	9.5	8.0	12.6	14.0	11.0
Other	12.0	11.0	11.6	20.0	13.7
Missing	0.0	0.5	0.0	0.0	0.1

Primary Cause of Death for Closed Cases

Cause of Death	Percent of Cases				
	City A	City B	City C	City D	All Cities
Shot with a handgun	74.5	62.6	62.2	61.2	65.0
Shot with other than a handgun	2.8	17.3	11.9	3.5	8.5
Stabbed	10.3	7.9	13.3	15.9	12.1
Other	12.4	12.2	12.6	19.4	14.5
Missing	0.0	0.0	0.0	0.0	0.0

Primary Cause of Death for Open Cases

Cause of Death	Percent of Cases				
	City A	City B	City C	City D	All Cities
Shot with a handgun	78.2	59.0	68.3	63.3	67.5
Shot with other than a handgun	3.6	23.0	11.1	10.0	12.4
Stabbed	7.3	8.2	11.1	3.3	4.3
Other	10.9	9.8	9.5	23.2	11.5
Missing	0.0	1.6	0.0	0.0	0.5

Table 4

Characteristics of the Homicide

Characteristics	Percent of Cases				
	City A	City B	City C	City D	All Cities
Eyewitness found at scene	66.5	58.5	76.3	45.0	61.5
Scene identified as a "drug market"	10.0	19.5	68.2	14.5	27.9
Involved gang or drug organization member	6.0	26.0	51.0	16.5	24.8
Involved taking or attempting to take property	16.5	21.0	14.6	20.0	18.0
Alcohol found at scene	7.0	25.0	22.7	11.5	16.5
Drugs found at scene	15.0	21.5	9.1	19.0	16.2
Occurred in a vehicle	8.5	17.5	16.7	12.5	13.8
Victim killed while committing a crime	20.0	12.0	5.6	6.5	11.0
Victim killed by an authority figure (e.g., parent, babysitter)	2.5	3.0	2.0	6.0	3.4
Victim or offender involved in prostitution	1.0	4.0	1.5	3.0	2.4
Involved sexual assault	1.5	1.5	1.5	2.5	1.8

Table 5

Number of Victims per Homicide Incident

Number	<u>Victims</u>				
	(Percent/Number of Incidents)				
	City A	City B	City C	City D	All Cities
1	78.0 (156)	73.5 (147)	68.7 (136)	81.0 (162)	75.3 (601)
2	12.5 (25)	15.0 (30)	20.2 (40)	11.0 (22)	14.7 (117)
3 or more	9.5 (19)	11.0 (22)	11.1 (22)	8.0 (16)	9.9 (79)
Unknown	0.0 (--)	0.5 (1)	0.0 (--)	0.0 (--)	0.1 (1)

Number of Decedents per Homicide Incident

Number	<u>Decedents</u> (Percent/Number of Incidents)				
	City A	City B	City C	City D	All Cities
1	96.0 (192)	92.0 (184)	97.5 (193)	97.5 (195)	95.7 (764)
2	4.0 (8)	6.5 (13)	2.5 (5)	2.5 (5)	3.9 (31)
3 or more	0.0 (--)	1.5 (3)	0.0 (--)	0.0 (--)	0.4 (3)
Unknown	0.0 (--)	0.0 (--)	0.0 (--)	0.0 (--)	0.0 (--)

Table 6

Victim Characteristics (Age, Race, and Sex)

Age Group (years)	<u>Male</u> (Percent/Number of Cases)					<u>Female</u> (Percent/Number of Cases)					<u>All Cases</u>
	White	African American	Hispanic	Other	Missing	White	African American	Hispanic	Other	Missing	
0-14	0.2 (2)	1.8 (14)	0.5 (4)	0.0 (--)	0.0 (--)	0.1 (1)	1.3 (11)	0.0 (--)	0.0 (--)	0.1 (1)	4.1 (33)
15-24	1.1 (9)	22.8 (182)	7.4 (59)	0.6 (5)	0.2 (2)	0.4 (3)	2.3 (18)	0.5 (4)	0.2 (2)	0.1 (1)	35.7 (285)
25-34	2.6 (21)	19.7 (157)	3.5 (28)	0.2 (2)	0.4 (3)	0.0 (--)	3.1 (25)	0.1 (1)	0.0 (--)	0.0 (--)	29.7 (237)
35-44	2.6 (21)	10.0 (80)	1.9 (15)	0.5 (4)	0.0 (--)	0.4 (3)	2.1 (17)	0.4 (3)	0.2 (2)	0.0 (--)	18.2 (145)
45-64	1.1 (9)	4.1 (33)	0.8 (6)	0.2 (2)	0.0 (--)	0.2 (2)	0.4 (3)	0.1 (1)	0.0 (--)	0.0 (--)	7.0 (56)
65+	0.8 (6)	1.1 (9)	0.0 (--)	0.1 (1)	0.0 (--)	0.6 (5)	0.1 (1)	0.0 (--)	0.0 (--)	0.0 (--)	2.8 (22)
Missing	0.2 (2)	0.9 (7)	0.4 (3)	0.0 (--)	0.0 (--)	0.1 (1)	0.6 (5)	0.2 (2)	0.0 (--)	0.0 (--)	2.5 (20)
Total	8.8 (70)	60.4 (482)	14.4 (115)	1.8 (14)	0.6 (5)	1.9 (15)	10.0 (80)	1.3 (11)	0.5 (4)	0.2 (2)	100.0 (798)

Table 7

Offender Characteristics (Age, Race, and Sex)

Age Group (years)	Male (Percent/Number of Cases)					Female (Percent/Number of Cases)					<u>All Cases^a</u>
	White	African American	Hispanic	Other	Missing	White	African American	Hispanic	Other	Missing	
0-14	0.0 (--)	0.6 (4)	0.0 (--)	0.0 (--)	0.0 (--)	0.0 (--)	0.3 (2)	0.0 (--)	0.0 (--)	0.0 (--)	0.9 (6)
15-24	1.3 (9)	38.1 (257)	9.8 (66)	0.7 (5)	0.4 (3)	0.6 (4)	1.8 (12)	0.0 (--)	0.0 (--)	0.0 (--)	52.8 (356)
25-34	1.9 (13)	14.4 (97)	2.7 (18)	0.4 (3)	0.3 (2)	0.0 (--)	2.1 (14)	0.0 (--)	0.0 (--)	0.0 (--)	21.8 (147)
35-44	0.9 (6)	6.4 (43)	0.7 (5)	0.0 (--)	0.0 (--)	0.1 (1)	0.9 (6)	0.1 (1)	0.0 (--)	0.0 (--)	9.2 (62)
45-64	0.7 (5)	2.5 (17)	0.7 (5)	0.4 (3)	0.1 (1)	0.0 (--)	0.4 (3)	0.0 (--)	0.0 (--)	0.0 (--)	4.9 (33)
65+	0.1 (1)	0.3 (2)	0.0 (--)	0.0 (--)	0.0 (--)	0.0 (--)	0.0 (--)	0.0 (--)	0.0 (--)	0.0 (--)	0.4 (3)
Missing	0.3 (2)	7.1 (48)	2.5 (17)	0.0 (--)	0.0 (--)	0.0 (--)	0.0 (--)	0.0 (--)	0.0 (--)	0.0 (--)	9.9 (67)
Total	5.3 (36)	69.3 (468)	16.4 (111)	1.6 (11)	0.9 (6)	0.7 (5)	5.5 (37)	0.1 (1)	0.0 (--)	0.0 (--)	100 (675)

^aThere are 123 cases for which the race, gender, and age of the offender are unknown.

Table 8

Relationship Between Victim and Offender for All Cases

Relationship	Percent of Cases				
	City A	City B	City C	City D	All Cities
Victim knew offender	46.0	55.0	45.5	66.0	53.1
Member of the same family	4.0	13.0	3.5	10.5	7.8
Romantic relationship	6.5	7.0	3.5	8.0	6.3
Friendship/Circumstances	24.5	31.5	38.4	42.5	34.2
Strangers	28.0	18.0	28.3	20.0	23.6
Relationship unknown	26.0	27.0	26.3	14.0	23.3

Relationship Between Victim and Offender for Closed Cases

Relationship	Percent of Cases				
	City A	City B	City C	City D	All Cities
Victim knew offender	62.1	73.4	59.3	75.9	68.1
Member of the same family	5.5	18.0	5.2	12.4	10.4
Romantic relationship	9.0	10.1	4.4	9.4	8.3
Friendship/Circumstances	33.1	41.7	50.4	48.8	43.6
Strangers	37.2	22.3	39.3	23.5	30.2
Relationship unknown	0.7	4.3	1.5	0.6	1.7

Relationship Between Victim and Offender for Open Cases

Relationship	Percent of Cases				
	City A	City B	City C	City D	All Cities
Victim knew offender	3.6	13.1	15.9	10.0	11.0
Member of the same family	0.0	1.6	0.0	0.0	0.5
Romantic relationship	0.0	0.0	1.6	0.0	0.5
Friendship/Circumstances	1.8	8.2	12.7	6.7	7.7
Strangers	3.6	8.2	4.8	0.0	4.8
Relationship unknown	92.7	78.7	79.4	90.0	84.2

Table 9

Reasons for Closing the Case

Reason	Percent of Cases (N)				
	City A	City B	City C	City D	All Cities
Witnesses at scene identified the offender	45.5 (66)	50.4 (70)	57.0 (77)	40.0 (68)	47.7 (281)
Offender arrested at or near the scene	11.7 (17)	17.3 (24)	14.8 (20)	26.5 (45)	18.0 (106)
Investigator identified those who identified the offender	15.2 (22)	12.9 (18)	4.4 (6)	14.1 (24)	11.9 (70)
Method of crime linked to offender	11.7 (17)	5.8 (8)	5.2 (7)	14.7 (25)	9.7 (57)
Information supplied by others	13.1 (19)	9.4 (13)	0.0 (--)	1.8 (3)	6.3 (37)
Physical evidence collected at the scene	2.1 (3)	2.2 (3)	1.5 (2)	1.8 (3)	1.9 (11)
Offender dead at scene	0.7 (1)	1.4 (2)	3.7 (5)	1.2 (2)	1.7 (10)
Other	0.0 (--)	0.7 (1)	13.3 (18)	0.0 (--)	3.2 (19)

Table 10

Time Between Case Assignment and Closing

Length of Time	Percent of Cases (N)				
	City A	City B	City C	City D	All Cities
1 Day	31.7 (46)	31.7 (44)	8.1 (11)	40.0 (68)	28.7 (169)
2 Days to 1 Week	13.1 (19)	27.3 (38)	20.0 (27)	24.1 (41)	21.2 (125)
1 Week to 1 Month	25.5 (37)	7.9 (11)	20.7 (28)	13.5 (23)	16.8 (99)
1 Month to 6 Months	20.0 (29)	15.1 (21)	35.6 (48)	16.5 (28)	21.4 (126)
6 Months to 1 Year	4.1 (6)	5.8 (8)	7.4 (10)	2.4 (4)	4.8 (28)
Over 1 Year	5.5 (8)	1.4 (2)	5.9 (8)	2.9 (5)	3.9 (23)
Missing	0.0 (--)	10.8 (15)	2.2 (3)	0.6 (1)	3.2 (19)

Table 11

Reasons for Not Closing the Case

Reason	Percent of Cases (N)				
	City A	City B	City C	City D	All Cities
Absence of physical evidence	30.9 (17)	4.9 (3)	22.2 (14)	6.7 (2)	17.2 (36)
Witness not identified	12.7 (7)	8.2 (5)	12.7 (8)	3.3 (1)	10.0 (21)
Witness intimidated/refused to cooperate	10.9 (6)	8.2 (5)	4.8 (3)	3.3 (1)	7.7 (16)
Unable to determine circumstances of death	1.8 (1)	18.0 (11)	1.6 (1)	3.3 (1)	6.7 (14)
Unable to identify the victim	1.8 (1)	0.0 (--)	1.6 (1)	0.0 (--)	1.0 (2)
Other	41.8 (23)	55.7 (34)	52.4 (33)	80.0 (24)	54.5 (118)
Missing	0.0 (--)	4.9 (3)	4.8 (3)	3.3 (1)	3.3 (7)

Table 12

Victim Variables and Their Effect on Homicide Clearance

Variable	Percent Change ^a
Sex	
Race	
Police officer	
Gang or drug organization member *	582
Using alcohol at time of incident	
Witness to another crime	
Using drugs	
Possessing drugs at time of incident	
Possessing alcohol at time of incident	
History with drug dealers/users **	-40
History of drug use **	-46
History of alcohol use	
Identified as a drug dealer	

^aPercent change is presented for only statistically significant variables ($p < .10$).

* $p < .10$

** $p < .05$

Identified as a drug buyer **	-37
Prior record for drugs **	-35
Prior record for violence **	-39
Prior record for property crime **	-37
Buying drugs at time of incident	
Selling drugs at time of incident	-43
Alive at scene	

Table 13

Offender Variables and Their Effect on Homicide Clearance

Variable	Percent Change ^a
Sex (male) •	-85
Race	
White v. Hispanic •	166
Black v. Hispanic ••	-56
White v. Black	
Police officer	
Victim and offender strangers	
Victim and offender members of the same family	
Victim and offender related by blood	
Victim and offender related by marriage	
Romantic relationship between victim and offender	
Victim and offender friends	
Victim and offender live in same household	
Victim and offender communicated frequently	
Gang or drug organization member	
Drinking alcohol at time of incident	
Using drugs at time of incident	
Possessing drugs at time of incident	
Possessing alcohol at time of incident	
History with drug dealers/users	
History of drug abuse	
History of alcohol abuse	
Identified as a drug dealer	
Identified as a drug buyer ••	-57
Prior record for drug crime	
Prior record for violent crime	
Prior record for property crime •	-49
Buying drugs at time of incident	
Selling drugs at time of incident	
Killed at scene	

^aPercent change is presented for only statistically significant variables ($p < .10$).

• $p < .10$

•• $p < .05$

Table 14

Weapon Variables and Their Effect on Homicide Clearance

Variable	Percent Change ^a
Primary cause of death	
Rifle v. handgun **	231
Knife v. handgun **	114
Personal weapon v. handgun **	452
"Other gun" v. handgun **	-93
Unknown gun v. handgun **	-87
Weapon identified or suggested in police report **	217
Used handgun	
Used rifle	
Used shotgun	
Used "other gun" **	-83
Used nonstandard ammunition	
Used knife	
Used blunt object	
Used personal weapon *	87
Used fire	
Used asphyxiation, suffocation, drowning, or strangulation	
Decedent in possession of a weapon **	92
Distance between offender and victim	
Total number of wounds inflicted	

^aPercent change is presented for only statistically significant variables ($p < .10$).

* $p < .10$

** $p < .05$

Table 15

Drug Variables and Their Effect on Homicide Clearance

Variable	Percent Change ^a
Drugs not a circumstance *	117
Incident involved crack	
Incident involved powder cocaine	
Incident involved alcohol	
Incident involved marijuana	
Incident involved heroin	
Incident involved amphetamines	
Incident involved barbiturates	
Incident involved PCP	
Incident involved hallucinogens	
Incident involved other drugs	
Conflict over drug territory	
Robbery of drug dealer during drug deal	
Robbery of drug buyer during drug deal	
Violation of normative rules for sale or distribution of drugs	
Retaliation for earlier drug theft	
Conflict over quality, type, or amount of drugs	
Homicide resulted in an attempt to get money to buy drugs *	256
Failure to pay a drug debt	
Conflict over drug paraphernalia	
Conflict over drug-using etiquette	

^aPercent change is presented for only statistically significant variables ($p < .10$).

* $p < .10$

** $p < .05$

Table 16

General Circumstances Variables and Their Effect on Homicide Clearance

Variable	Percent Change ^a
Homicide identified as drug related **	-54
Day of week incident occurred	
Location (private v. public)**	171
Bad weather during the investigation **	-46
Drugs at scene	
Alcohol at scene	
Drug paraphernalia at scene	
Scene identified as drug market area **	-33
Number of eyewitnesses (at least 1 vs. 0)**	85
Gambling	
Sexual assault	
Penetration by use or threat of force	
Offender unlawfully entered a structure	
Homicide occurred in a vehicle	
Victim or offender involved in prostitution **	-85
Offender took or attempted to take property	
Offender committed or attempted to commit arson	

^aPercent change is presented for only statistically significant variables ($p < .10$).

* $p < .10$

** $p < .05$

Table 17

Motivation Variables and Their Effect on Homicide Clearance

Variable	Percent Change ^a
Preemption for anticipated retaliation **	354
Retaliation for prior victimization	
Punishment for informing **	-83
Conflict over money or property other than drugs **	155
Offender defending themselves **	288
Neglect of an authority figure	
Rivalry over a lover	
Victim randomly selected from a particular social group	
Victim was a bystander killed inadvertently •	103
Conflict over drug territory	
Robbery of drug dealer during a drug deal	
Robbery of a drug buyer during a drug deal	
Violation of normative rules for sale or distribution of drugs	
Retaliation for earlier drug theft	
Conflict over quality, type, or amount of drugs	
Attempt to get money to buy drugs •	256
Failure to pay drug debt	
Conflict over drug paraphernalia	
Conflict over drug-using etiquette	
Other drug-using conflict	

^aPercent change is presented for only statistically significant variables ($p < .10$).

• $p < .10$

** $p < .05$

Table 18

Detective and Investigative Variables and Their Effect on Homicide Clearance

Variable	Percent Change ^a
Number of detectives assigned to case	
3 v. 1 **	121
4 v. 1 *	210
7 v. 1 *	-96
8 v. 1 *	-96
11 v. 1 *	105
Time for detective to arrive on scene	
30 to 60 minutes v. <30 minutes **	-62
60 to 120 minutes v. <30 minutes **	-53
Other agencies involved	
Detective at scene during initial investigation	
Detective described crime scene in notes *	190
Search warrant necessary for scene	
Detective followed up on witness information **	117
Follow-up proved valuable **	1621
Most important reason in closing the case	
Time between assignment of case and closing	
Most important reason case not closed	

^aPercent change is presented for only statistically significant variables ($p < .10$).

* $p < .10$

** $p < .05$

Table 19

Crime Scene Variables and Their Effect on Homicide Clearance

Variable	Percent Change ^a
Crime scene	
Bar/club v. Public area (street or park)*	325
Residence v. Public area **	300
Scene secured by first officer on scene	
First officer protected scene	
First officer notified the homicide unit **	127
First officer notified medical examiner's office **	134
First officer notified crime lab **	146
First officer attempted to locate witnesses **	147
Time between report of homicide and crime scene secured	
Evidence technicians at the scene	
Length of time evidence technicians were at scene	
Number of evidence technicians at scene	
Searched for fingerprints/physical evidence	
Found fingerprints/physical evidence	
Photographed crime scene	
Sketched crime scene	
Measured crime scene **	63
Weapon found at crime scene **	189
Bullets found at crime scene	
Shell casings found at crime scene	
Fingerprints found at crime scene	
Drugs at crime scene	
Clothing found at crime scene	

^aPercent change is presented for only statistically significant variables ($p < .10$).

* $p < .10$

** $p < .05$

Table 20

Witness Variables and Their Effect on Homicide Clearance

Variable	Percent Change ^a
No witness at crime scene **	-61
Who interviewed witness (first officer on scene or detective)	
Time between notification of homicide and witness interviews	
Where witnesses were interviewed (crime scene or headquarters)	
Length of time witnesses were questioned	
Witness at scene provided valuable information **	375
Circumstances of death **	196
Motivation for death **	189
Identification of offender **	2711
Characteristics of offender **	-63
Identification of victim **	63
Location of offender **	292
Identification of vehicle	
Homicide captured on surveillance video	
Neighborhood survey conducted	
Number of officers who conducted the neighborhood survey	
Neighborhood survey provided valuable information **	60
Witness found who was not at crime scene (at least 1 v. 0)	32
Family members of victim interviewed	
Friends/acquaintances of victim interviewed **	-33
Coworkers of victim interviewed	
Roommates of victim interviewed	
Neighbors of victim interviewed **	66
Family members, friends, coworkers, roommates, or neighbors provide valuable information **	63

^aPercent change is presented for only statistically significant variables ($p < .10$).

* $p < .10$

** $p < .05$

Table 21

Computer Check Variables and Their Effect on Homicide Clearance

Variable	Percent Change ^a
Computer check conducted on decedent **	-64
Computer check conducted on suspect **	571
Computer check conducted on witness **	-36
Computer check conducted on guns **	124
Computer check conducted on shell/casings	
Computer check conducted on vehicles	
Computer check conducted on crime scene	
Computer check provided valuable information **	245
Computer system used	
Local Criminal Justice Information System (CJIS) **	46
State CJIS	
National Crime Information Center (NCIC)	
Alcohol, Tobacco, and Firearms (ATF)	
DRUG FIRE **	-84
Motor Vehicle Administration (MVA)	
WARRANTS	

^aPercent change is presented for only statistically significant variables ($p < .10$).

* $p < .10$

** $p < .05$

Table 22

Hospital Variables and Their Effect on Homicide Clearance

Variable	Percent Change ^a
Decedent went to the hospital	
Decedent's belongings submitted to evidence control	
Attending physician/medical personnel interviewed **	101
Witnesses found at hospital interviewed	
Provided valuable information	
Person who transported decedent to hospital interviewed	
Provided valuable information	

^aPercent change is presented for only statistically significant variables ($p < .10$).

* $p < .10$

** $p < .05$

Table 23

Medical Examiner's Office Variables and Their Effect on Homicide Clearance

Variable	Percent Change ^a
Detective present at postmortem examination **	90
Specimens collected from decedent **	45
Projectiles recovered from decedent **	67
Medical examiner prepared a body chart **	114

^aPercent change is presented for only statistically significant variables ($p < .10$).

* $p < .10$

** $p < .05$

Table 24

Source of Information Variables and Their Effect on Homicide Clearance

Variable	Percent Change ^a
Confidential informants used	
Provided valuable information	264
Other police officers used	
Surveillance used	181
Witnesses came forward on their own	65

^aPercent change is presented for only statistically significant variables ($p < .10$).

* $p < .10$

** $p < .05$

Table 25

Significant Variables and Their Effect on Homicide Clearance

Variable	Percent Change
Victim a gang or drug organization member **	582
White v. Hispanic .	166
Primary cause of death	
Rifle v. handgun **	231
Knife v. handgun **	114
Personal weapon v. handgun **	452
Weapon identified or suggested in police report **	217
Decedent in possession of a weapon **	92
Drugs not a circumstance *	117
Location (private v. public)**	171
Number of eyewitnesses (at least 1 vs. 0)**	85
Preemption for anticipated retaliation **	354
Conflict over money or property other than drugs **	155
Offender defending themselves **	288
Victim was a bystander killed inadvertently *	103
Attempt to get money to buy drugs *	256
Number of detectives assigned to case	
3 v. 1 **	121
4 v. 1 *	210
11 v. 1 *	105
Time for detective to arrive on scene	
30 to 60 minutes v. <30 minutes **	-62
Detective described crime scene in notes *	190
Detective followed up on witness information **	117

Warrant requested for a suspect **	4230
Crime scene	
Bar/club v. public area (street or park)*	325
Residence v. public area **	300
First officer notified the homicide unit **	127
First officer notified medical examiner's office **	134
First officer notified crime lab **	146
First officer attempted to locate witnesses **	147
Measured crime scene **	63
Weapon found at crime scene **	189
Witness at scene provided valuable information **	375
Circumstances of death **	196
Motivation for death **	189
Identification of offender **	2711
Identification of victim **	63
Location of offender **	292
Neighborhood survey provided valuable information **	60
Witness found who was not at crime scene (at least 1 v. 0)*	32
Neighbors of victim interviewed **	66
Family members, friends, coworkers, roommates, or neighbors provide valuable information **	163
Computer check conducted on suspect **	571
Computer check conducted on guns **	124
Computer check provided valuable information **	245
Computer system used	
Local Criminal Justice Information System (CJIS) **	46
Attending physician/medical personnel interviewed **	101
Detective present at postmortem examination **	90

Specimens collected from decedent **	45
Projectiles recovered from decedent **	67
Medical examiner prepared a body chart **	114
Confidential informants provided valuable information **	264
Surveillance used **	181
Witnesses came forward on their own **	65

* $p < .10$

** $p < .05$

Table 26

Effects of Offender Characteristics on Homicide Clearance

Variable	Percent Change ^a
Offender male	
Offender identified as a drug buyer	
Offender arrested for prior property offense	
Offender African American**	117
Chance of solving the case	90

Effects of Offender Characteristics on Homicide Clearance

Variable	Percent Change
Offender male	
Offender identified as a drug buyer	
Offender arrested for prior property offense	
Offender Hispanic**	-62
Chance of solving the case	63

Effects of Offender Characteristics on Homicide Clearance

Variable	Percent Change
Offender male	
Offender identified as a drug buyer	
Offender arrested for prior property offense	
Offender White	
Chance of solving the case	78

^aPercent change is presented for only statistically significant variables ($p < .10$).

• $p < .10$

•• $p < .05$

Table 27

Effects of Victim Characteristics on Homicide Clearance

Variable	Percent Change ^a
Victim a gang or drug organization member	
Victim had a history with drug dealers/users	
Victim had a history of drug use *	-40
Victim identified as a drug buyer	
Victim had prior record for drugs	
Victim had prior record for violence	
Victim had prior record for property offense	
Victim selling drugs at time of homicide	
Chance of solving the case	63

^aPercent change is presented for only statistically significant variables ($p < .10$).

* $p < .10$

** $p < .05$

Table 28

Effects of Medical Examiner Factors on Homicide Clearance

Variable	Percent Change ^a
Detective present at postmortem examination	
Specimens collected during postmortem (blood, hair, fiber)	
Projectile recovered during postmortem	
Body chart of victim prepared **	97
Chance of solving the case	90

^aPercent change is presented for only statistically significant variables ($p < .10$).

* $p < .10$

** $p < .05$

Table 29

Effects of Computer Checks on Homicide Clearance

Variable	Percent Change ^a
Computer check on decedent **	-63
Computer check on suspect **	1384
Computer check on witnesses **	-61
Computer check on guns **	212
Used DRUG FIRE system	
Used local Criminal Justice Information System (CJIS) **	92
Chance of solving the case	87

^aPercent change is presented for only statistically significant variables ($p < .10$).

* $p < .10$

** $p < .05$

Table 30

Effects of Witness Variables on Homicide Clearance

Variable	Percent Change ^a
Witness at scene interviewed	
Witness provided valuable information **	359
Witnesses found who were not at the scene	
Friends/acquaintances interviewed **	-41
Neighbors interviewed **	83
Chance of solving the case	95

^aPercent change is presented for only statistically significant variables ($p < .10$).

* $p < .10$

** $p < .05$

Table 31

Effects of Crime Scene Variables on Homicide Clearance

Variable	Percent Change ^a
First officer on scene notified the homicide unit	
First officer on scene notified the medic	
First officer on scene notified the crime lab	
First officer on scene attempted to locate witnesses *	83
Crime scene was measured	
Chance of solving the case	88

^aPercent change is presented for only statistically significant variables ($p < .10$).

* $p < .10$

** $p < .05$

Table 32

Effects of Detective Variables on Homicide Clearance

Variable	Percent Change ^a
Three or more detectives assigned to the case **	105
Detective arrived at the scene within 30 minutes	
Detective described the scene in notes *	393
Detective followed up on all witness information *	70
Chance of solving the case	96

^aPercent change is presented for only statistically significant variables ($p < .10$).

* $p < .10$

** $p < .05$

Table 33

Effects of General Circumstances on Homicide Clearance

Variable	Percent Change ^a
Homicide occurred in a private residence **	215
Eyewitness to the homicide **	111
Homicide was not drug related **	118
Chance of solving the case	98

^aPercent change is presented for only statistically significant variables ($p < .10$).

* $p < .10$

** $p < .05$

Table 34

Effects of Significant Variables from Models 1 through 8 on Homicide Clearance

Variable	Percent Change ^a
Offender African American	
Body chart of victim prepared	
Computer check on decedent	
Computer check on suspect **	428
Computer check on witnesses **	-55
Computer check on guns	
Used local Criminal Justice Information System (CJIS) *	122
Witness provided valuable information **	267
Friends/acquaintances interviewed	
Neighbors interviewed	
Three or more detectives assigned to the case	
Homicide occurred in a private residence *	120
Eyewitness to the homicide	
Homicide was not drug related *	93
Chance of solving the case	99

^aPercent change is presented for only statistically significant variables ($p < .10$).

* $p < .10$

** $p < .05$

Table 35

Effects of the African-American Trimmed Model on Homicide Clearance

Variable	Percent Change ^a
Body chart of victim prepared **	234
Computer check on decedent **	-68
Computer check on suspect **	808
Computer check on witnesses **	-70
Computer check on guns *	117
Witness provided valuable information **	434
Friends/acquaintances interviewed *	-40
Three or more detectives assigned to the case **	170
Homicide occurred in a private residence *	86
Homicide was not drug related **	150
Chance of solving the case	99

^aPercent change is presented for only statistically significant variables ($p < .10$).

* $p < .10$

** $p < .05$

Table 36

Effects of the Hispanic Trimmed Model on Homicide Clearance

Variable	Percent Change ^a
Offender was Hispanic *	-54
Body chart of victim prepared **	119
Computer check on decedent **	-61
Computer check on suspect **	458
Computer check on witnesses **	-55
Used local Criminal Justice Information System (CJIS) **	171
Witness provided valuable information **	263
Homicide occurred in a private residence **	152
Homicide was not drug related **	130
Chance of solving the case	98

^aPercent change is presented for only statistically significant variables ($p < .10$).

* $p < .10$

** $p < .05$

Table 37

City and Its Effect on Homicide Clearance

Variable	Percent Change ^a
City A v. City B	
City A v. City C	
City A v. City D **	-53
City B v. City A	
City B v. City C	
City B v City D **	-60
City C v. City A	
City C v. City B	
City C v. City D **	-63
City D v. City A **	115
City D v. City B **	149
City D v. City C **	164

^aPercent change is presented for only statistically significant variables ($p < .10$).

* $p < .10$

** $p < .05$

Effects of Significant Variables from Models 1 through 8 on Homicide Clearance

Variable	Percent Change ^b
Offender Hispanic *	-58
Body chart of victim prepared	
Computer check on decedent	
Computer check on suspect **	429
Computer check on witnesses **	-54
Computer check on guns	
Used local CJIS system *	135
Witness provided valuable information **	267
Friends/acquaintances interviewed	
Neighbors interviewed	
Three or more detectives assigned to the case	
Homicide occurred in a private residence *	114
Eyewitness to the homicide	
Homicide was not drug related *	103
Chance of solving the case	99

^bPercent change is presented for only statistically significant variables ($p < .10$).

* $p < .10$

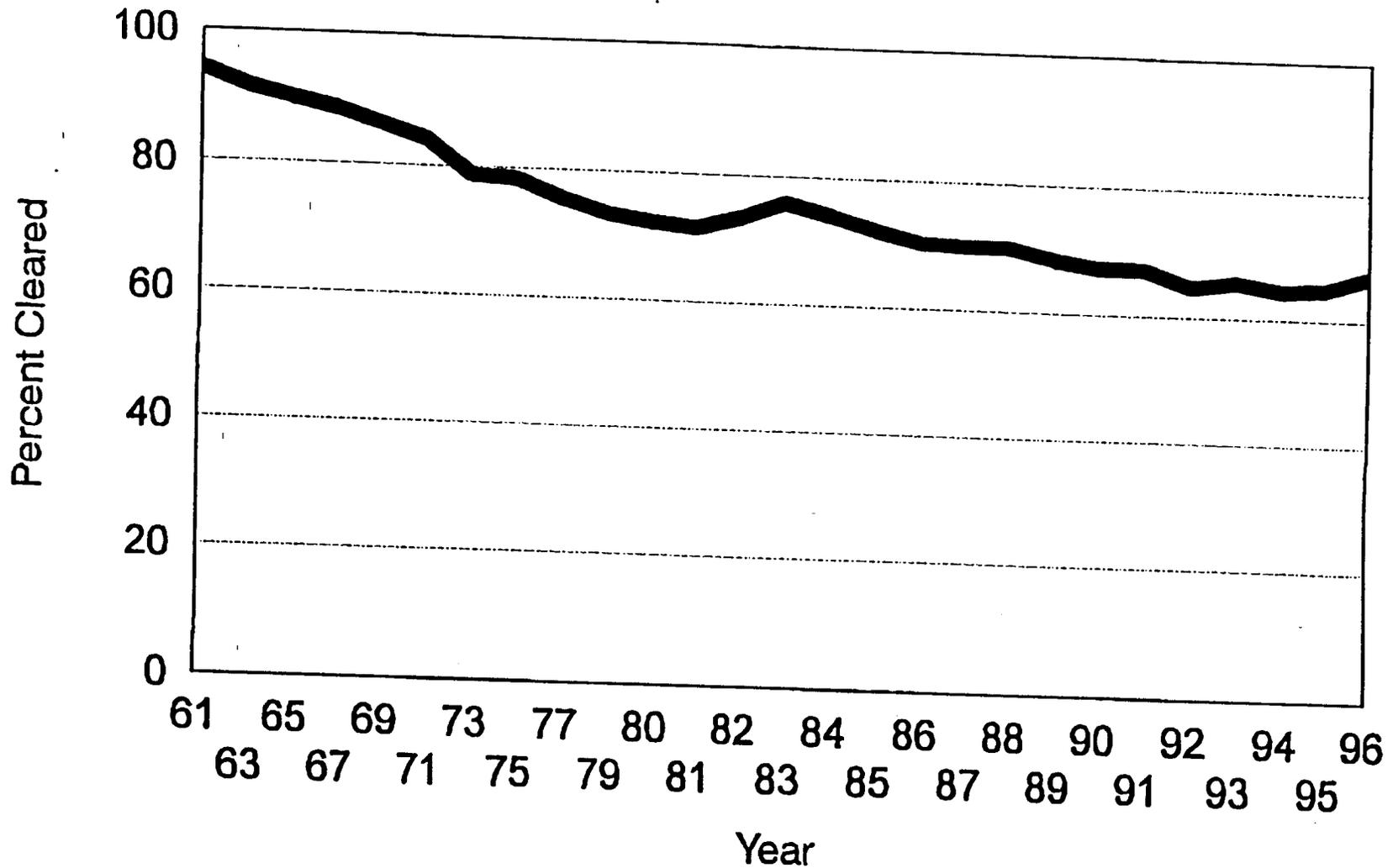
** $p < .05$

Appendix B

Figures

Figure 1

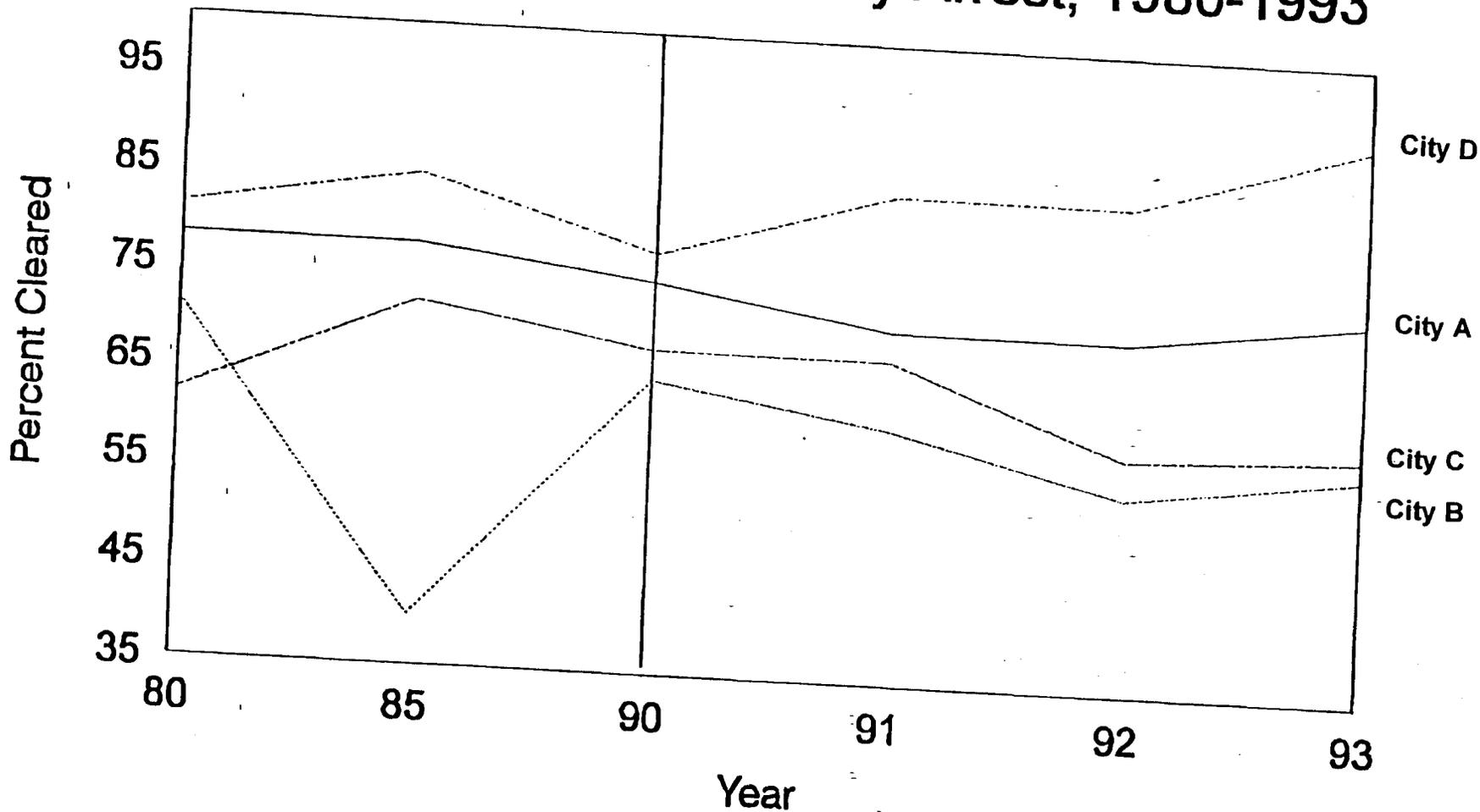
Percent of U.S. Homicides Cleared by Arrest, 1961-1996



Source: Annual Editions of the UCR

Figure 2

Percent of Homicides Cleared by Arrest, 1980-1993



— City A - - City B - - - City C ···· City D

Source: FBI

Appendix C

Instruments

JRSA HOMICIDE CLEARANCE RATE PROJECT

Investigative Instrument

Final Version

May 28, 1997

Investigative Instrument

Final Version

This instrument will be used to conduct a detailed analysis of the way in which the homicide investigation was conducted. Information for this instrument is to be gathered from case files and interviews with key individuals in the homicide unit who will be able to inform us of the nature of the investigation.

When selecting an appropriate response for the following variables, follow these rules:

- (1) YES = There is a definite statement in the file that the attribute is present.
- (2) NO = There is a definite statement in the file that the attribute is absent.
- (3) NO MENTION = There is no mention of it in the file.
- (4) SUSPECTED BUT UNCERTAIN = There is a statement in the file that this attribute is present, but the evidence is not definite or is contradicted by other evidence.

(9 or 99) MISSING = Form missing, or there is no suspected offender or witnesses.

"NO," "NO MENTION," and "MISSING" (no information) are very different. "MISSING" is a true missing data code that occurs when forms are missing or when there is no suspected offender or witnesses.

Coder id _____ Two digit id number assigned to you.

1. Control number: Assign a unique 4 digit number to each incident. Lead number represents city (1 = Baltimore, 2 = Detroit, 3 = Los Angeles, 4 = Milwaukee).
2. Police department: Enter department name. _____
3. Incident number: Enter incident number assigned by police. _____
4. Total number of homicide detectives assigned to the case. (Refers to total number working the case to date or before cleared.)

1 2 3 4 5 6 7 8 9 10 10+

5. What is the current status of the case?

- 1 = CLOSED
- 2 = ACTIVE WITH REGULAR HOMICIDE DETECTIVES
- 3 = ACTIVE WITH "COLD CASE" INVESTIGATORS
- 4 = INACTIVE

6. When were the homicide detectives informed of the crime?

DATE: _____ TIME: _____

7. How long after they were informed did they arrive at the crime scene?

- 1 = FIRST RESPONSE – Go to 9
- 2 = LESS THAN 30 MINUTES – Go to 9
- 3 = 30 - 60 MINUTES
- 4 = 61 - 120 MINUTES
- 5 = MORE THAN 120 MINUTES

8. If more than thirty minutes, why were they delayed?

9. Were other law enforcement agencies involved in the investigation?

- 1 = YES – GO TO 9A
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

9A. Which agencies (include task forces)?

9B. When were they involved?

9C. What did they do in the investigation?

10. What was the crime scene?

- 1 = COMMERCIAL ESTABLISHMENT OTHER THAN A BAR/CLUB
- 2 = BAR/CLUB
- 3 = RESIDENCE
- 4 = PUBLIC AREA (STREET OR PARK)
- 5 = OTHER, SPECIFY: _____

11. Did the assigned homicide detective go to the crime scene during the initial phase of the investigation?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

12. Was a search warrant necessary for the crime scene?

- 1 = YES
- 2 = NO – GO TO 14
- 3 = NO MENTION – Go to 14
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

13. When was the search warrant issued for the crime scene?

- 1 = WITHIN 24 HOURS
- 2 = WITHIN 48 HOURS
- 3 = WITHIN 72 HOURS
- 4 = OVER 72 HOURS
- 9 = MISSING

13A. How soon after issuance was the warrant executed?

14. Were search warrants necessary for any other locations where perpetrator or evidence may have been?

- 1 = YES
- 2 = NO – GO TO 17
- 3 = NO MENTION – GO TO 17
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

14A. How soon after issuance was the warrant served?

15. For what location was the search warrant issued? *(List all that apply.)*

16. When was the search warrant issued for the other locations?

	Location 1	Location 2	Location 3
1 = WITHIN 24 HOURS	_____	_____	_____
2 = WITHIN 48 HOURS	_____	_____	_____
3 = WITHIN 72 HOURS	_____	_____	_____
4 = OVER 72 HOURS	_____	_____	_____
9 = MISSING	_____	_____	_____

16A. How soon after issuance was each warrant executed?

	Location 1	Location 2	Location 3
1 = WITHIN 24 HOURS	_____	_____	_____
2 = WITHIN 48 HOURS	_____	_____	_____
3 = WITHIN 72 HOURS	_____	_____	_____
4 = OVER 72 HOURS	_____	_____	_____
9 = MISSING	_____	_____	_____

CRIME SCENE:

17. Was the crime scene secured by the first officer on the scene?

- 1 = YES
- 2 = NO – GO TO 19
- 3 = NO MENTION – GO TO 22
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

18. What did the officer do to secure the crime scene?

19. Who secured the crime scene?

20. How many minutes passed from the time the homicide was reported to the police until the crime scene was secured?

21. How long was the crime scene kept secure? *(Round up to the closest hour.)*

22. Were evidence technicians at the crime scene?

- 1 = YES
- 2 = NO – GO TO 26
- 3 = NO MENTION – GO TO 26
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

23. How long were evidence technicians on the scene? *(Round up to the closest hour.)*

24. How many evidence technicians were on the scene?

25. What did the evidence technicians do at the scene?

26. Was a search made for fingerprints or other physical evidence?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

27. Were fingerprints or other physical evidence found?

1 = YES, SPECIFY:

- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

28. Were photographs of the crime scene taken?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

29. Was a sketch of the crime scene made?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

30. Was the crime scene measured?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

31. Did the homicide detectives describe the scene in their notes?

- 1 = YES, GREAT DETAIL
- 2 = YES, BUT ONLY GENERALLY
- 3 = NO
- 4 = NO MENTION
- 5 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

32. What evidence was found at the crime scene? (*Itemize*)

33. Were witnesses found at the crime scene interviewed?

- 1 = YES – GO TO 35
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN – GO TO 35
- 5 = NO WITNESSES AT THE CRIME SCENE – GO TO 41
- 9 = MISSING

34. Why were the witnesses not interviewed? – GO TO 42

- 1 = REFUSED
- 2 = DENIED THEY WITNESSED THE EVENT
- 3 = LANGUAGE BARRIER
- 4 = LEFT SCENE COULD NOT BE LOCATED
- 5 = TOO YOUNG
- 6 = OTHER, SPECIFY: _____

35. Who interviewed the witnesses?

- 1 = HOMICIDE DETECTIVE
- 2 = PATROL OFFICER
- 3 = BOTH HOMICIDE DETECTIVE AND PATROL OFFICER
- 4 = OTHER, SPECIFY: _____

36. How long after the police were notified of the homicide were the witnesses interviewed?

37. Where were the witnesses interviewed?

- 1 = CRIME SCENE
- 2 = HEADQUARTERS
- 3 = BOTH CRIME SCENE AND HEADQUARTERS
- 4 = OTHER, SPECIFY: _____

38. How long were witnesses held for questioning? *If more than one witness, use the witness who was held the longest. (Round to the closest hour.)*

39. Did the witnesses provide valuable information?

- 1 = YES
- 2 = NO – GO TO 41
- 3 = NO MENTION – GO TO 41
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

40. What information was gathered from the witnesses? (Check all that apply.)

- 1 = CIRCUMSTANCES OF DEATH
- 2 = MOTIVATION FOR DEATH
- 3 = IDENTIFICATION OF OFFENDER
- 4 = CHARACTERISTICS OF OFFENDER
- 5 = IDENTIFICATION OF VICTIM
- 6 = LOCATION OF OFFENDER
- 7 = VEHICLE IDENTIFICATION
- 8 = OTHER, SPECIFY: _____

41. Was the event captured on any kind of surveillance or other video?

- 1 = YES, SPECIFY: _____
- 2 = NO
- 3 = NO MENTION

42. Was a neighborhood survey conducted to locate additional witnesses or gather relevant information?

- 1 = YES
- 2 = NO – GO TO 46
- 3 = NO MENTION – GO TO 46
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

43. How many officers conducted the neighborhood survey?

44. Was the information gathered from the neighborhood survey valuable?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

45. What information was found during the neighborhood survey?

46. How many witnesses were identified who were not at the crime scene?

47. Who else (other than witnesses) was interviewed during the investigation (check all that apply)?

- 1 = FAMILY MEMBERS (# _____)
 - 2 = FRIENDS/ACQUAINTANCES (# _____)
 - 3 = CO-WORKERS (# _____)
 - 4 = ROOMMATES (# _____)
 - 5 = NEIGHBORS (# _____)
 - 6 = OTHER, SPECIFY EACH AND NUMBER:
-

48. Did any of these provide valuable information?

- 1 = YES, SPECIFY: _____
- 2 = NO - GO TO 50
- 3 = NO MENTION - GO TO 50
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

49. What information did the next of kin provide? (Check all that apply.)

- 1 = CIRCUMSTANCES OF DEATH
- 2 = MOTIVATION FOR DEATH
- 3 = IDENTIFICATION OF OFFENDER
- 4 = CHARACTERISTICS OF OFFENDER
- 5 = IDENTIFICATION OF VICTIM
- 6 = LOCATION OF OFFENDER
- 7 = VEHICLE IDENTIFICATION
- 8 = OTHER, SPECIFY: _____

COMPUTER CHECKS:

50. Was a computer check conducted on the decedent?

- 1 = YES, SPECIFY: _____
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

51. Was a computer check conducted on any suspects?

- 1 = YES, SPECIFY: _____
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

52. Was a computer check conducted on any witnesses?

- 1 = YES, SPECIFY: _____
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

53. Was a computer check conducted on any guns?

- 1 = YES, SPECIFY: _____
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 5 = NO GUNS INVOLVED
- 9 = MISSING

54. Was a computer check conducted on any shells or casings?

- 1 = YES, SPECIFY: _____
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 5 = NO GUNS INVOLVED
- 9 = MISSING

55. Was a computer check conducted on any vehicles?

- 1 = YES, SPECIFY: _____
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 5 = NO VEHICLES INVOLVED
- 9 = MISSING

56. Was a computer check conducted on the crime scene location?

- 1 = YES, SPECIFY: _____
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

57. Did any of these computer checks provide valuable information?

- 1 = YES, SPECIFY: _____
- 2 = NO
- 3 = NO MENTION

58. Which of the following information systems were used? (Check all that apply.)

- 1 = LOCAL CJIS
- 2 = STATE CJIS
- 3 = NCIC
- 4 = ATF
- 5 = DRUG FIRE
- 6 = MVA
- 7 = WARRANTS
- 8 = OTHER, SPECIFY: _____

HOSPITAL:

59. Did decedent go to the hospital?

- 1 = YES
- 2 = NO – GO TO 72

60. Did an officer or detective collect the decedent's belongings from the hospital/morgue?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

61. What happened to the decedent's belongings?

62. Was a body chart of the decedent made?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

63. Was the attending physician or other medical personnel at the hospital interviewed? (If other than physician, specify _____).

- 1 = YES
- 2 = NO – GO TO 66
- 3 = NO MENTION – GO TO 66
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

64. Did the attending physician or other medical personnel provide valuable information? (If other than physician, specify _____).

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

65. What information was gathered from the physician or other medical personnel?

- 1 = CAUSE OF DEATH
- 2 = RETRIEVAL OF EVIDENCE, SPECIFY:

3 = OTHER, SPECIFY:

66. If witnesses were found at the hospital were they interviewed?

- 1 = YES
- 2 = NO – GO TO 69
- 3 = NO MENTION – GO TO 69
- 4 = SUSPECTED BUT UNCERTAIN
- 5 = NO WITNESSES FOUND – Go to 69
- 9 = MISSING

67. Did the witnesses at the hospital provide valuable information?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

68. What information was gathered from witnesses found at the hospital? (Check all that apply.)

- 1 = CIRCUMSTANCES OF DEATH
- 2 = MOTIVATION FOR DEATH
- 3 = IDENTIFICATION OF OFFENDER
- 4 = CHARACTERISTICS OF OFFENDER
- 5 = IDENTIFICATION OF VICTIM
- 6 = LOCATION OF OFFENDER
- 7 = VEHICLE IDENTIFICATION
- 8 = OTHER, SPECIFY: _____

69. Was the person who transported the decedent to the hospital interviewed?
(Specify person _____).

- 1 = YES
- 2 = NO - GO TO 72
- 3 = NO MENTION - GO TO 72
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

70. Did the person who transported the decedent to the hospital provide valuable information?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

71. What information was gathered from the person who transported the decedent to the hospital? (Check all that apply.)

- 1 = CIRCUMSTANCES OF DEATH
- 2 = MOTIVATION FOR DEATH
- 3 = IDENTIFICATION OF OFFENDER
- 4 = CHARACTERISTICS OF OFFENDER
- 5 = IDENTIFICATION OF VICTIM
- 6 = LOCATION OF OFFENDER
- 7 = VEHICLE IDENTIFICATION
- 8 = OTHER, SPECIFY: _____

MEDICAL EXAMINERS OFFICE:

72. Was homicide detective present at the post-mortem examination?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

73. Were specimens (blood, hair, fibers, fingernail scrapings, or seminal fluid) collected for analysis?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

74. If a gun or guns were used in the homicide, were projectiles recovered?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 5 = NO GUN USED
- 9 = MISSING

75. Did the homicide detective prepare a detailed body chart (one showing all wounds, abrasions, etc.) including the medical examiners findings?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

SOURCES OF INFORMATION:

76. Were confidential informants used?

- 1 = YES
- 2 = NO – GO TO 79
- 3 = NO MENTION – GO TO 79
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

77. Did the confidential informants provide valuable information?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

78. What information did the confidential informants provide? (Check all that apply.)

- 1 = CIRCUMSTANCES OF DEATH
- 2 = MOTIVATION FOR DEATH
- 3 = IDENTIFICATION OF OFFENDER
- 4 = CHARACTERISTICS OF OFFENDER
- 5 = IDENTIFICATION OF VICTIM
- 6 = LOCATION OF OFFENDER
- 7 = VEHICLE IDENTIFICATION
- 8 = OTHER, SPECIFY: _____

79. Did other police officers provide information? (e.g., had prior contact with decedent or decedent's friends)

- 1 = YES
- 2 = NO - GO TO 81
- 3 = NO MENTION - GO TO 81
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

80. What information did other officers provide? (Check all that apply.)

- 1 = CIRCUMSTANCES OF DEATH
- 2 = MOTIVATION FOR DEATH
- 3 = IDENTIFICATION OF OFFENDER
- 4 = CHARACTERISTICS OF OFFENDER
- 5 = IDENTIFICATION OF VICTIM
- 6 = LOCATION OF OFFENDER
- 7 = VEHICLE IDENTIFICATION
- 8 = OTHER, SPECIFY: _____

81. Was surveillance used?

- 1 = YES, SPECIFY: _____
- 2 = NO - GO TO 85
- 3 = NO MENTION - GO TO 85
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

82. What/Who was placed under surveillance?

83. Did the surveillance provide valuable information?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

84. What information was discovered from the surveillance? (Check all that apply.)

- 1 = CIRCUMSTANCES OF DEATH
- 2 = MOTIVATION FOR DEATH
- 3 = IDENTIFICATION OF OFFENDER
- 4 = CHARACTERISTICS OF OFFENDER
- 5 = IDENTIFICATION OF VICTIM
- 6 = LOCATION OF OFFENDER
- 7 = VEHICLE IDENTIFICATION
- 8 = OTHER, SPECIFY: _____

85. Did any witnesses come forward on their own?

- 1 = YES
- 2 = NO – GO TO 89
- 3 = NO MENTION – GO TO 89
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

86. Were any witnesses placed in protection?

- 1 = YES, (specify what and how long) _____
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

87. Did these witnesses provide valuable information?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

88. What information did these witnesses provide? (Check all that apply.)

- 1 = CIRCUMSTANCES OF DEATH
- 2 = MOTIVATION FOR DEATH
- 3 = IDENTIFICATION OF OFFENDER
- 4 = CHARACTERISTICS OF OFFENDER
- 5 = IDENTIFICATION OF VICTIM
- 6 = LOCATION OF OFFENDER
- 7 = VEHICLE IDENTIFICATION
- 8 = OTHER, SPECIFY: _____

OTHER INFORMATION:

89. Did the detective follow-up on all witness information?

- 1 = YES
- 2 = NO, SPECIFY WHY NOT: _____
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

90. Did the follow-up prove valuable?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

91. What was discovered from the follow-up?

92. Was a warrant requested for a suspect?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

93. Was a likely suspect identified but a warrant not requested?

- 1 = YES - GO TO 93A
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

93A. Why not?

94. Was a warrant issued for the arrest of a suspect?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

95. Was the warrant served and a suspect arrested?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

96. If the case has been closed, which of the following were most important in the closing?

- 1 = OFFENDER ARRESTED AT OR NEAR SCENE
- 2 = OFFENDER DEAD AT SCENE
- 3 = WITNESSES AT THE SCENE IDENTIFIED THE OFFENDER
- 4 = PHYSICAL EVIDENCE COLLECTED AT THE SCENE, SPECIFY:

- 5 = INVESTIGATOR IDENTIFIED THOSE WHO IDENTIFIED THE OFFENDER
- 6 = METHOD OF CRIME LINKED TO OFFENDER
- 7 = INFORMATION SUPPLIED BY OTHERS, SPECIFY WHO AND WHAT INFORMATION:

- 8 = OTHER, SPECIFY:

97. If the case has been closed, how long from assignment to homicide unit and closing?

98. If case has not been closed, which of the following is the most important reason why it has not been closed?

- 1 = WITNESSES NOT IDENTIFIED
- 2 = WITNESSES INTIMIDATED/REFUSE TO COOPERATE
- 3 = ABSENCE OF PHYSICAL EVIDENCE, SPECIFY:

- 4 = UNABLE TO IDENTIFY VICTIM
- 5 = UNABLE TO DETERMINE CIRCUMSTANCES OF DEATH
- 6 = OTHER, SPECIFY:

THE END

JRSA HOMICIDE CLEARANCE RATE PROJECT

Organizational Instrument

Organizational Instrument

This instrument will be used to create a detailed profile of the homicide department. The profile will reflect the resources, personnel, training, and management devoted to homicide investigations during the past 10 years.

Police department: Enter department name. _____

Resources:

1. Yearly budget for the homicide unit:

1988	_____
1989	_____
1990	_____
1991	_____
1992	_____
1993	_____
1994	_____
1995	_____
1996	_____
1997	_____

2. Number of vehicles assigned to the homicide unit:

1988	_____
1989	_____
1990	_____
1991	_____
1992	_____
1993	_____
1994	_____
1995	_____
1996	_____
1997	_____

3. Number of dollars spent on overtime for homicide detectives:

1988	_____
1989	_____
1990	_____
1991	_____
1992	_____
1993	_____
1994	_____
1995	_____
1996	_____
1997	_____

6. Do the homicide detectives have access to any other support staff besides clerical staff, medical examiners, and evidence technicians?

1 = YES, (specify who and what year support staff became available)

2 = NO

Personnel:

7. Number of personnel per year:

	Homicide Detectives	Clerical Staff	Medical Examiners	Evidence Techs.
1988	_____	_____	_____	_____
1989	_____	_____	_____	_____
1990	_____	_____	_____	_____
1991	_____	_____	_____	_____
1992	_____	_____	_____	_____
1993	_____	_____	_____	_____
1994	_____	_____	_____	_____
1995	_____	_____	_____	_____
1996	_____	_____	_____	_____
1997	_____	_____	_____	_____

8. List the Police Chiefs the department has had since 1988 and the number of terms they served?

Name	# of years
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

9. What police experience have the Police Chiefs had before becoming police chief? (E.G. experience in and out of homicide unit)

Name:

Experience:

10. Number of homicide detectives per shift:

1988	_____
1989	_____
1990	_____
1991	_____
1992	_____
1993	_____
1994	_____
1995	_____
1996	_____
1997	_____

11. Average number of years in homicide unit for detectives:

1988	_____
1989	_____
1990	_____
1991	_____
1992	_____
1993	_____
1994	_____
1995	_____
1996	_____
1997	_____

12. Number of new homicide detectives:

1988	_____
1989	_____
1990	_____
1991	_____
1992	_____
1993	_____
1994	_____
1995	_____
1996	_____
1997	_____

13. How are detectives chosen for the homicide unit?

14. How has the process by which homicide detectives are chosen changed since 1988?

15. Where do detectives come from before they are assigned to homicide?

16. In regards to question 15, how has this changed since 1988?

17. What is the average number of years in the department before becoming a detective?

18. How has the average number of years in the department, before becoming a homicide detective, changed since 1988?

19. Characteristics of homicide detectives:

# of	Black	Hispanic	White	Other	Males	Females
1988	_____	_____	_____	_____	_____	_____
1989	_____	_____	_____	_____	_____	_____
1990	_____	_____	_____	_____	_____	_____
1991	_____	_____	_____	_____	_____	_____
1992	_____	_____	_____	_____	_____	_____
1993	_____	_____	_____	_____	_____	_____
1994	_____	_____	_____	_____	_____	_____
1995	_____	_____	_____	_____	_____	_____
1996	_____	_____	_____	_____	_____	_____
1997	_____	_____	_____	_____	_____	_____

Training:

20. What type of training do homicide detective receive after becoming homicide detectives?

21. How long does the training last?

22. How has the training changed since 1988?

Management:

23. Number of homicide shifts:

1988	_____
1989	_____
1990	_____
1991	_____
1992	_____
1993	_____
1994	_____
1995	_____
1996	_____
1997	_____

24. What type of shift?

1 = Fixed, (specify how many shifts and the hours)

2 = Rotated, (specify how many shifts, the hours, and how they are rotated)

25. How have the shifts changed since 1988?

26. Number of detectives per shift:

1988	_____
1989	_____
1990	_____
1991	_____
1992	_____
1993	_____
1994	_____
1995	_____
1996	_____
1997	_____

27. Average number of detectives assigned to a case:

1988	_____
1989	_____
1990	_____
1991	_____
1992	_____
1993	_____
1994	_____
1995	_____
1996	_____
1997	_____

28. Average number of cases a detective investigates in a year:

1988	_____
1989	_____
1990	_____
1991	_____
1992	_____
1993	_____
1994	_____
1995	_____
1996	_____
1997	_____

29. How long is the principle investigator on the case?

- 1 = FOR THE SHIFT
- 2 = DETERMINED BY THE SUPERVISOR
- 3 = DETERMINED BY THE DETECTIVE

30. How has this changed since 1988?

31. When is a homicide turned over to the cold case squad?

32. How are detectives chosen for the cold case squad?

33. What is the car policy for the homicide unit? (E.G. do they have an assigned car or do they take whatever car is available)

34. What is the confidential informant policy? (E.G. do they have to be registered, how do they become C.I.'s, etc.)

Other:

35. What changes in police policies have occurred since 1988? (E.G. community policing)

36. In your opinion why are clearance rates for homicide and total crimes similar or dissimilar in this department?

JRSA HOMICIDE CLEARANCE RATE PROJECT¹

Homicide Attribute Coding

Final Version
May 28, 1997

Adapted from instrument developed by Colin Loftin, Brian Wiersema, April Pattavina, Paul Mazerolle, and Adam Dobrin.

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

I. Coding Instructions for Incident and Victim Information (Instructions for individual variables are in italics.)

The following are some general guidelines to be followed when coding information:

- (1) If the case files are unavailable and you are relying on other sources of information about the homicide incident, enter codes for variables only when information contained in these sources is sufficient for you to make a confident decision as to which code to enter. Otherwise leave space blank temporarily. If it is determined that the case file will not be available for the study, fill in with appropriate missing data code.
- (2) This codebook contains several skip patterns. In the codesheet, these variables are identified by an asterisk. If you skip, fill the remaining variables in that pattern with the number "8".
- (3) Names of individuals (victims, suspects, and officers) should not be entered anywhere on the codebook.
- (4) When selecting an appropriate response for the following variables, follow these rules:

- (1) YES = There is a definite statement in the file that the attribute is present.
- (2) NO = There is a definite statement in the file that the attribute is absent.
- (3) NO MENTION = There is no mention of it in the file.
- (4) SUSPECTED BUT UNCERTAIN = There is a statement in the file that this attribute is present, but the evidence is not definite or is contradicted by other evidence.
- (9 or 99) MISSING = Form missing, or there is no suspected offender or witnesses.

"NO," "NO MENTION," and "MISSING" (no information) are very different. "MISSING" is a true missing data code that occurs when forms are missing or when there is no suspected offender or witnesses.

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

INCIDENT IDENTIFICATION:

Coder id _____ *Two digit id number assigned to you.*

1. Control number: *Assign a unique 4 digit number to each incident. Lead number represents city (1=Baltimore, 2=Detroit, 3=Los Angeles, 4=Milwaukee).*
2. Police department: *Enter department name.*
3. Incident number: *Enter incident number assigned by police.*
4. Case identified by police as drug related homicide:

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

5. Date incident occurred: *month-day-year*

Note: This date may be different from the date the incident was reported to the police.

99-99-99 = MISSING (*Enter any part that is known.*)

6. Time incident occurred: (*Round up to the closest hour. Use military time. 1:00pm=1300 and 12:00am=2400*)

9999 = MISSING

7. Day of week incident occurred:

- 1 = SUNDAY
- 2 = MONDAY
- 3 = TUESDAY
- 4 = WEDNESDAY
- 5 = THURSDAY
- 6 = FRIDAY
- 7 = SATURDAY

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

8. Date of death: *month-day-year*

99-99-99 = MISSING (*Enter any part that is known.*)

9. Time of day death was reported: (*Round up to the closest hour. Use military time. 1:00pm=1300 and 12:00am=2400*)

9999 = MISSING

GENERAL CIRCUMSTANCES:

10. Location where injury occurred that led to homicide.

A private location is, by community standards, not open to the general public. All others are considered to be public.

- 1 = PUBLIC. SPECIFY: _____
- 2 = PRIVATE. SPECIFY: _____
- 9 = MISSING

11. Was the weather during the investigation "bad" (too hot, too cold, raining, snowing, etc.)?

- 1 = YES
- 2 = NO
- 3 = NO MENTION

12. How many offenders were involved in the criminal incident?

Count the number of offenders who were involved in the immediate criminal offense such as assault, robbery, rape, etc., not just the ones that inflicted lethal injuries.

- 1 = ONE
- 2 = TWO
- 3 = THREE OR MORE
- 4 = MORE THAN ONE. EXACT NUMBER UNKNOWN
- 9 = MISSING

13. In what police precinct did the incident occur? _____

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

14. How many victims were there in the criminal incident?

Count the number of victims of the immediate criminal offense such as assault, robbery, rape, etc., not just the homicide victims.

- 1 = ONE
- 2 = TWO
- 3 = THREE OR MORE
- 4 = MORE THAN ONE, EXACT NUMBER UNKNOWN
- 9 = MISSING

15. How many decedents (homicide victims) were there in the incident?

Count those who died in the incident or as a result of the incident.

16. Were illegal drugs present at the scene?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

17. Was alcohol present at the scene?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

18. Was drug paraphernalia present at the scene?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

19. Did the police indicate that the place of incident was recognized as drug market area?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN (e.g. known drug market area)

20. How many witnesses saw the lethal assault occur?

Count the number of witnesses that actually saw the lethal assault occur and were discovered by the police.

- 0 = NONE
- 1 = ONE
- 2 = TWO
- 3 = THREE OR MORE
- 4 = WITNESSES PRESENT. NUMBER UNKNOWN

VICTIM CIRCUMSTANCES: *[The following are to be answered on the basis of any information in the file (e.g., notes, reports, witness statements, rap sheets, etc..)]*

21. Decedent number: (5 digits)

The decedent number is the 4 digit control number followed by 1 to 9. Assign unique number to each victim resulting from the incident. If more than one decedent, complete more than one victim circumstances.

22. Decedent residence at time of death.

- 0 = NO FIXED ADDRESS
- 1 = PERMANENT
- 2 = TEMPORARY
- 9 = MISSING

23. Date of decedent's birth: (DOB) Month, Day, Year

99-99-99 = MISSING

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

24. Sex of decedent:

- 1 = MALE
- 2 = FEMALE
- 9 = MISSING

25. Race of decedent:

- 1 = WHITE (INCLUDES MEXICAN AMERICANS)
- 2 = BLACK
- 3 = AMERICAN INDIAN OR ALASKAN NATIVE
- 4 = ASIAN OR PACIFIC ISLANDER
- 9 = MISSING

26. Ethnicity of decedent:

- 1 = HISPANIC
- 2 = OTHER, SPECIFY _____
- 9 = MISSING

27. Was the decedent a police officer?

- 1 = YES
- 2 = NO
- 3 = NO MENTION — Go to 29.

28. Was the police officer acting in the line of duty?

- 1 = YES
- 2 = NO
- 3 = NO MENTION

29. Was the decedent a known gang member or part of a drug organization?

- 1 = YES
- 2 = YES, BUT NOT AT TIME OF DEATH
- 3 = NEVER
- 4 = NO
- 5 = NO MENTION

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

30. Was the decedent drinking alcohol at the time of the incident?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

31. Was the decedent a witness in another crime?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

32. Was the decedent consuming illegal drugs at the time of the incident?

- 1 = YES, SPECIFY: _____
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

33. Was the decedent in possession of illegal drugs at time of the incident?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

34. Was the decedent in possession of alcohol at time of the incident?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

35. Did the decedent have a history of association with drug dealers/users?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

36. Did the decedent have a history of drug abuse?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

37. Did the decedent have a history of alcohol abuse?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

38. Was the decedent identified by police as a drug dealer?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

39. Was the decedent identified by police as a drug buyer?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

40. Did the decedent have one or more prior arrests for drug offenses?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

41. Did the decedent have one or more prior arrests for violent offenses?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

42. Did the decedent have one or more prior arrests for property offenses?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

43. Was the decedent buying drugs at time of incident?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

44. Was the decedent selling drugs at time of incident?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

45. Was decedent alive or dead at scene?

- 1 = DEAD -- Go to 49
- 2 = ALIVE

46. Where did decedent die?

- 1 = ON WAY TO HOSPITAL
- 2 = HOSPITAL
- 3 = OTHER, SPECIFY: _____

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

47. If decedent was transported to the hospital or shock trauma, how was he/she transported?
- 1 = AMBULANCE (IF BY AMBULANCE, HOW LONG BEFORE IT ARRIVED AT THE SCENE? _____)
 - 2 = CAR; DROVE SELF
 - 3 = CAR; OTHER PERSON DROVE
 - 4 = OTHER (SPECIFY _____)

48. How long did it take to get to the hospital or shock trauma?

Number of minutes. _____

WEAPON USED BY OFFENDERS:

49. What was the primary cause of death?

Note: Primary cause of death refers to the injuries that were responsible for the death. Incidental, non-lethal injuries prior to death, and post-mortem mutilations are not a cause of death.

- 1 = SHOT, HANDGUN
- 2 = SHOT, RIFLE
- 3 = SHOT, SHOTGUN
- 4 = SHOT, OTHER GUN, SPECIFY: _____
- 5 = SHOT, UNKNOWN GUN
- 6 = STABBED, KNIFE
- 7 = STABBED, OTHER INSTRUMENT OR UNKNOWN
- 8 = BLUNT OBJECT (WOULD INCLUDE GUN, IF USED AS CLUB)
- 9 = PERSONAL WEAPON (E.G., HANDS, FEET)
- 10 = ASPHYXIATION, SUFFOCATION, DROWNING, STRANGULATION
- 11 = FIRE
- 12 = OTHER, SPECIFY: _____
- 99 = MISSING

50. Was a homicide weapon(s) identified or suggested in the police report?

- 1 = YES
- 2 = NO
- 3 = NO MENTION

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

51. Did any offender(s) use a firearm of a type that was not stated (does not include mechanics grease gun or caulking gun)?

"Any offender" refers to offenders who were involved in the immediate criminal offense such as assault, robbery, rape, etc., not just the ones that inflicted lethal injuries. Refer to item 10 above.

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

52. Did any offender(s) use a handgun - pistol, revolver, etc.?

- 1 = YES, SPECIFY TYPE OF WEAPON, CALIBER, AND USE:

- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN, SPECIFY WEAPON AND USE:

53. Did any offender(s) use a rifle?

- 1 = YES, SPECIFY TYPE OF WEAPON, CALIBER, AND USE:

- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN, SPECIFY WEAPON AND USE:

54. Did any offender(s) use a shotgun?

- 1 = YES, SPECIFY TYPE OF WEAPON, CALIBER, AND USE:

- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN, SPECIFY WEAPON AND USE:

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

55. Did any offender(s) use some other gun?

- 1 = YES, SPECIFY TYPE OF WEAPON, CALIBER, AND USE:

- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN, SPECIFY WEAPON AND USE:

55A. Is there any indication other than standard ammunition was used?

- 1 = YES (SPECIFY TYPE _____)
- 2 = NO

56. Did any offender(s) use a knife or cutting instrument?

- 1 = YES, SPECIFY TYPE OF WEAPON AND USE:

- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN, SPECIFY WEAPON AND USE:

57. Did any offender(s) use a blunt object - hammer, club, etc.?

- 1 = YES, SPECIFY WEAPON AND USE:

- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN, SPECIFY WEAPON AND USE:

58. Did any offender(s) use personal weapons - include beating by hands, feet, and/or other body members or use of teeth?

- 1 = YES, SPECIFY WEAPON AND USE:

- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN, SPECIFY WEAPON AND USE:

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

59. Did any offender(s) use fire?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

60. Did any offender(s) use asphyxiation, suffocation, drowning, strangulation?

- 1 = YES, SPECIFY WEAPON AND USE:

- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN, SPECIFY WEAPON AND USE:

61. Did any offender(s) use a weapon that has not previously been mentioned?

- 1 = YES, SPECIFY WEAPON AND USE:

- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN, SPECIFY WEAPON AND USE:

62. Did the decedent have a weapon at the homicide scene?

- 1 = YES
- 2 = NO -- Go to 68.
- 3 = NO MENTION -- Go to 68.
- 4 = SUSPECTED BUT UNCERTAIN

63. How close (physically) was the offender to the decedent at time of fatal attack?

- 1 = INCHES
- 2 = 1-2 FEET
- 3 = MORE THAN 2 FEET, LESS THAN 6
- 4 = MORE THAN 6 FEET
- 5 = NO INFORMATION ON DISTANCE

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

64. How many wounds did decedent incur?

1 = _____ #

65. Where were wounds? (Check all that apply.)

HEAD _____ # _____
NECK _____ # _____
TORSO _____ # _____
EXTREMITIES _____ # _____

66. What type of weapon did the decedent have:

- 1 = HANDGUN
- 2 = RIFLE
- 3 = SHOTGUN
- 4 = OTHER GUN, SPECIFY: _____
- 5 = KNIFE
- 6 = OTHER STABBING INSTRUMENT
- 7 = BLUNT OBJECT
- 8 = OTHER

67. Did the decedent *use* a weapon?

- 1 = YES, SPECIFY USE: _____
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN, SPECIFY USE: _____

Drug circumstances:

68. Were drugs a circumstance in the homicide incident?

- 1 = YES
- 2 = NO -- Go to 90.
- 3 = NO MENTION -- Go to 90.
- 4 = SUSPECTED BUT UNCERTAIN

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

69. Was a conflict over drug territory present?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

70. Did the homicide incident involve the robbery of a drug dealer that occurred during the selling of drugs?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

71. Did the homicide incident involve the robbery of a drug buyer that occurred during the purchase of drugs?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

72. Did the homicide incident involve punishment for violation of normative rules governing the distribution or sale of drugs (e.g. punishment of worker for violating standard procedures)?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

73. Did the homicide incident involve a conflict over drug theft that had occurred at an earlier time?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

74. Did the homicide incident involve a conflict over the quality, type or amount of drugs purchased?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

75. Did the homicide incident involve an effort to obtain money to purchase drugs?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

76. Did the homicide incident involve the failure to pay drug debt?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

77. Did the homicide incident involve a conflict over drug paraphernalia (i.e. needles, crack pipes)?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

78. Did the homicide incident involve a conflict over drug using etiquette (i.e. the equitable division of drugs among interested users):

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

79. Did the homicide incident involve other drug-related circumstance?

- 1 = YES. SPECIFY: _____
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN, SPECIFY: _____

Type of drug or drugs involved:

Circle all drugs that apply.

- 80. Crack
- 81. Cocaine powder
- 82. Alcohol
- 83. Marijuana (pot. grass, hash)
- 84. Heroin
- 85. Amphetamines
- 86. Barbiturates
- 87. PCP (angel dust)
- 88. Hallucinogen (acid, mescaline)
- 89. Other drug

Other circumstances:

90. Did the homicide incident involve preemption for anticipated retaliatory attack (i.e. offender feared that victim was going to retaliate for something the offender had done to victim in the past)?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

91. Did the homicide incident involve retaliation for prior victimization of individual or group member?

Note: this situation need not be drug related.

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

92. Did the homicide incident involve punishment for informing?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

93. Conflict over money/property other than drugs:

A dispute must involve an argument involving the exchange of words between the offender (s) and the victim.

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

94. Other conflict or incident:

A dispute must involve an argument involving the exchange of words between the offender (s) and the victim.

- 1 = YES, DESCRIBE _____
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN, DESCRIBE: _____

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

95. Gambling:

Gambling is wagering over games or competition. Involvement includes efforts to obtain money for gambling purposes, conflicts over the control of gambling enterprises or disputes arising from the games, wagers or outcomes.

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

96. Was the homicide gang or drug organization related?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

97. Did any offender sexually assault the victim?

Sexual assault includes any unwanted physical contact of a sexual nature.

- 1 = YES
- 2 = NO -- Go to 101.
- 3 = NO MENTION -- Go to 101.
- 4 = SUSPECTED BUT UNCERTAIN

98. Did any offender sexually penetrate the victim by the use of force or the threat of force?

Note: Penetration includes any object or body part that is used to sexually penetrate the victim. Force includes threat or weapons used to force the victim to submit to a sex act.

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

99. Did any offender sexually penetrate a victim who was incapable of consent (e.g. child, mentally retarded individual) without the use of force or the threat of force?

Note: Sexual crimes like statutory rape should be considered here.

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

100. Did any offender use force or the threat of force in an sexual assault in which no penetration occurred?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

101. Did any offender unlawfully enter a structure to commit a crime?

A structure would include a dwelling, garage, barn, public building, commercial establishment, or vehicle used as a dwelling.

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

102. Did the homicide incident occur in a vehicle?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

103. In what vehicle did the homicide incident occur?

- 1 = THE DECEDENT'S AUTOMOBILE
- 2 = THE SUSPECT'S AUTOMOBILE
- 3 = A BUS
- 4 = OTHER, SPECIFY: _____

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

104. Was any offender or the decedent engaging in prostitution at the time of the incident?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

105. Did any offender take or attempt to take property?

Include cases of unlawful entry where offender took or attempted to take property.

- 1 = YES -- SPECIFY: _____
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN SPECIFY: _____

106. Was force or the threat of force used in order to take the property by any offender?

Note: The fact that the victim was killed is not sufficient to code "yes". The issue is whether force or threat of force was used in order to take the property.

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

107. Was the taking of property incidental to the homicide? That is, did the offender kill the victim for reasons unrelated to the taking of property and then take the property?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

108. Did any offender commit or attempt to commit arson (willful or malicious burning of building or vehicle)?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

109. Was the decedent killed by an authority figure (e.g. parent, step-parent, guardian, elder sibling, legal guardian, baby sitter, etc.)?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

110. Was the decedent killed as a result of the authority figure's neglect of the child?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

111. Was the decedent mutilated and/or tortured before or after the homicide incident?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

112. Did the incident involve illegal acts not previously mentioned?

- 1 = YES, SPECIFY: _____
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

113. Did the incident involve rivalry over a lover?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

114. Was the decedent killed by an offender randomly selecting a victim from a particular social group?

- 1 = YES, SPECIFY GROUP: _____
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

115. Was the decedent intentionally killed by an offender randomly selecting a victim regardless of social group membership?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

116. Was the decedent a bystander killed inadvertently by the offender?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

117. Was the decedent killed while he/she was committing a crime?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

118. Was the decedent killed while he/she was planning a crime?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

119. At the time of the homicide incident, was the decedent the first to assault or threaten the offender or another person?

Note: Do not include earlier altercations or incidents in which the decedent may have assaulted or provoked the offender.

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

120. Judged by conventional standards, did the decedent's actions present a danger to the life of the offender or other persons at the time of the incident?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

121. Judged by conventional standards, did the homicide offender have a reasonable alternative to killing the decedent in order to avoid or avert an assault?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

OFFENDER IDENTIFICATION:

122. How was offender(s) identified/described by police in the report?

- 1 = NAME OF OFFENDER PROVIDED
- 2 = ONLY PHYSICAL DESCRIPTION OF OFFENDER PROVIDED
- 3 = NO INFORMATION ABOUT OFFENDER PROVIDED — Stop,
codebook is finished

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

II. Coding Instructions for Offender Information

Because of the felony rule, persons other than the one who did the killing may be charged with the homicide. For our purposes, we are interested in identifying the persons who *actually* did the killing as the offender(s).

1. Control number:

Assign same number as that used in incident identification.

2. Police department: *Enter department name.*

3. Incident number: *Enter incident number assigned by police.*

4. Offender number: *(6 digits)*

The offender number is the 4 digit control number followed by a 0 then 1 to 9. Assign a unique number to each offender involved in the incident. If more than one offender, complete more than one offender information sheet.

5. Offender Status:

- 1 = KNOWN, DEAD
- 2 = KNOWN AND ARRESTED
- 3 = KNOWN, WARRANT ISSUED
- 4 = SUSPECTED IDENTIFIED BUT NO WARRANT OR ARREST
- 5 = MISSING (IF NO INFORMATION ON OFFENDER COMPLETE Q 5-9 AND END DATA COLLECTION, UNLESS THERE IS OTHER RELEVANT OFFENDER INFORMATION IN FILE.)

6. Offender Residence

- 0 = NO FIXED ADDRESS
- 1 = PERMANENT
- 2 = TEMPORARY
- 9 = MISSING

7. Age of offender: *(DOB) Month, Day, Year*

99-99-99= MISSING

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

8. Sex of offender:

- 1 = MALE
- 2 = FEMALE
- 9 = MISSING

9. Race of offender:

- 1 = WHITE (INCLUDES MEXICAN AMERICANS)
- 2 = BLACK
- 3 = AMERICAN INDIAN OR ALASKAN NATIVE
- 4 = ASIAN OR PACIFIC ISLANDER
- 9 = MISSING

10. Ethnicity of offender:

- 1 = HISPANIC
- 2 = OTHER, SPECIFY _____
- 9 = MISSING

11. Was the offender a police officer?

- 1 = YES
- 2 = NO -- Go to 13.
- 3 = NO MENTION -- Go to 13.

12. Was the police officer acting in the line of duty?

- 1 = YES
- 2 = NO
- 3 = NO MENTION

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

RELATIONSHIP BETWEEN DECEDENT AND OFFENDER:

13. Prior to the incident in which the homicide occurred, were the decedent and offender strangers?

Note: A stranger is a person the decedent would not have recognize or recall having met.

- 1 = YES — Go to 24.
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN -- Go to 24.
- 9 = MISSING -- Go to 24.

14. Were the decedent and the offender members of the same family?

- 1 = YES
- 2 = NO -- Go to 18.
- 3 = NO MENTION -- Go to 18.
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

15. Was the decedent related to the offender by blood (consanguineously)?

- 1 = YES, DECEDENT WAS OFFENDER'S PARENT -- Go to 22.
- 2 = YES, DECEDENT WAS OFFENDER'S CHILD -- Go to 22.
- 3 = YES, DECEDENT WAS OFFENDER'S SIBLING -- Go to 22.
- 4 = YES, BUT NOT NUCLEAR FAMILY MEMBERS (SPECIFY RELATIONSHIP: _____) -- Go to 22.
- 5 = NO
- 6 = NO MENTION
- 9 = MISSING

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

16. Was the decedent related to the offender through marriage (affinally) or adoption? Include step-, foster, and in-law relatives.

- 1 = YES, MARRIED TO EACH OTHER (COMMON LAW INCLUDED) -- Go to 24.
- 2 = YES, LEGALLY SEPARATED/DIVORCED FROM EACH OTHER -- Go to 23.
- 3 = YES, DECEDENT WAS OFFENDER'S STEP-PARENT -- Go to 22.
- 4 = YES, DECEDENT WAS OFFENDER'S STEP-CHILD -- Go to 22.
- 5 = YES, DECEDENT WAS OFFENDER'S STEP-SIBLING -- Go to 22.
- 6 = YES, BUT NOT NUCLEAR FAMILY MEMBERS (SPECIFY RELATIONSHIP: _____) -- Go to 22.
- 7 = NO
- 8 = NO MENTION
- 9 = MISSING

17. If question 14 is "YES," but questions 15 and 16 are "NO" or "NO MENTION," how is the decedent related to the offender?

SPECIFY: _____

18. Did a romantic relationship exist between the decedent and offender in either immediate or distant past?

- 1 = YES -- Go to 22.
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

19. Was the relationship between the decedent and offender based on recurrent circumstances such as working in the same place, being in the same business (legal or illegal), living in the same neighborhood, using the same facilities (transportation, schools, parks, restaurants, etc.), or was it based on voluntary friendship, or both?

- 1 = CIRCUMSTANCES
- 2 = FRIENDSHIP -- Go to 22.
- 3 = BOTH
- 4 = NO MENTION -- Go to 21.
- 9 = MISSING -- Go to 22.

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

20. What circumstances brought the decedent and offender together?

SPECIFY: _____

21. Did the decedent have a type of relationship with the offender that has not been previously mentioned?

- 1 = YES, SPECIFY: _____
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN, SPECIFY: _____
- 9 = MISSING

22. Did the decedent reside in the same household as the offender at the time of the incident?

- 1 = YES -- Go to 24.
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN -- Go to 24
- 9 = MISSING

23. Did the decedent and offender communicate frequently (once a week or more over a period of at least three months), now or in the past?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = COMMUNICATED, BUT FREQUENCY UNKNOWN
- 9 = MISSING

OFFENDER CIRCUMSTANCES:

24. Was the offender a known gang or drug organization member?

- 1 = YES
- 2 = YES, BUT NOT CURRENTLY
- 3 = NO
- 4 = NO MENTION
- 5 = SUSPECTED BUT UNCERTAIN

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

25. Was the offender drinking alcohol at the time of the incident?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

26. Was the offender consuming illegal drugs at the time of the incident?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

27. Was the offender in possession of illegal drugs at time of the incident?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

28. Was the offender in possession of alcohol at time of the incident?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

29. Does the offender have a history of association with drug dealers/users?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

30. Does the offender have a history of drug abuse?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

31. Does the offender have a history of alcohol abuse?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

32. Was the offender identified by police as a drug dealer?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

33. Was the offender identified by police as a drug buyer?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

34. Does the offender have one or more prior arrests for drug offenses?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

35. Does the offender have one or more prior arrests for violent offenses?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

FINAL VERSION -- HOMICIDE ATTRIBUTE CODING

36. Does the offender have one or more prior arrests for property offenses?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN
- 9 = MISSING

37. Was the offender buying drugs at time of incident?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

38. Was the offender selling drugs at time of incident?

- 1 = YES
- 2 = NO
- 3 = NO MENTION
- 4 = SUSPECTED BUT UNCERTAIN

39. Was the offender killed at the scene of the crime?

- 1 = YES
- 2 = NO -- Stop

40. If offender was killed at the crime scene, who killed them:

- 1 = POLICE
- 2 = SELF
- 3 = DECEDENT
- 4 = OTHER, SPECIFY: _____

THE END

Appendix D

Tables for Variables not in Appendix A

Table A

Victim Information

Variable	Percent of Cases				
	City A	City B	City C	City D	Total
Permanent address	93.0	65.0	91.0	85.0	83.7
Gang or drug organization member	7.5	18.5	43.9	14.0	20.9
Drinking alcohol at time of death	15.0	23.0	27.3	20.5	21.4
Consuming drugs at time of death	18.0	16.0	11.6	14.5	15.0
Witness to another crime	2.0	0.5	1.0	0.0	0.9
Possessing drugs at time of death	10.5	20.0	11.1	16.0	14.4
Possessing alcohol at time of death	2.5	19.5	20.2	7.0	12.3
History with drug dealers	41.0	45.5	39.4	32.0	39.5
History of drug use	42.0	33.5	34.8	16.0	31.6
History of alcohol use	6.5	10.0	20.7	7.0	11.0
Drug dealer	17.5	22.5	22.7	16.5	19.8
Drug buyer	6.5	11.0	18.2	10.5	11.5
Prior record for drugs	40.0	33.0	34.8	11.5	29.8
Prior record for violent crime	37.5	40.5	38.4	11.0	31.8
Prior record for property crime	38.5	42.5	43.4	9.0	33.3
Buying drugs at time of death	2.0	4.0	2.0	6.5	3.6
Selling drugs at time of death	3.0	9.0	5.1	7.0	6.0
Possessing a weapon at time of death	12.5	18.5	10.6	18.5	15.0
Used a weapon at time of death	5.5	9.5	6.1	8.0	7.3

Table B

Offender Information

Variable	Percent of Cases				
	City A	City B	City C	City D	Total
Gang or drug organization member	8.5	12.5	48.0	13.5	20.3
Drinking alcohol at time of incident	6.5	20.5	15.7	21.0	15.9
Using drugs at time of incident	5.0	13.5	7.6	8.5	8.6
Possessing drugs at time of incident	2.0	17.0	3.5	9.5	8.0
Possessing alcohol at time of incident	3.5	17.0	9.6	5.0	8.8
History with drug dealers/users	35.0	38.0	37.9	28.5	34.5
History of drug abuse	33.0	22.5	29.8	11.5	24.2
History of alcohol abuse	4.5	7.0	15.7	8.5	8.9
Drug dealer	20.5	15.0	22.2	12.5	17.5
Drug buyer	6.0	5.0	20.2	8.5	9.9
Prior record for drugs	35.0	19.0	30.3	15.0	24.8
Prior record for violent crime	41.5	28.0	41.4	23.5	33.6
Prior record for property crime	35.0	30.0	41.9	19.0	31.5
Buying drugs at time of incident	1.0	2.5	2.5	4.0	2.5
Selling drugs at time of incident	1.0	7.0	2.0	4.0	3.5
Killed at scene	1.0	1.5	2.5	0.5	1.4

Table C

Day of Homicide

Day of Week	Percent of Cases				
	City A	City B	City C	City D	Total
Sunday	18.0	16.0	23.7	16.5	18.5
Monday	13.5	11.5	11.6	11.5	12.0
Tuesday	15.5	14.0	8.1	14.0	12.9
Wednesday	11.5	12.5	12.6	10.5	11.8
Thursday	14.5	14.5	9.1	12.0	12.5
Friday	11.0	12.5	14.6	15.5	13.4
Saturday	14.5	16.5	17.2	18.5	16.7
Missing	1.5	2.5	3.0	1.5	2.1

Table D

Homicide Incident Information

Variable	Percent of Cases				
	City A	City B	City C	City D	Total
Gambling	0.0	3.5	0.0	0.0	0.9
Offender unlawfully entered a structure	6.5	9.5	8.6	8.0	8.1
Offender took or attempted to take property	16.5	21.0	14.6	20.0	18.0
Offender used threat of force to take property	11.0	16.5	10.1	16.5	13.5
Taking of property incidental to homicide	1.0	3.5	4.5	5.5	3.6
Offender committed or attempted to commit arson	2.0	2.5	0.5	0.5	1.4
Victim mutilated or tortured before or after homicide	5.0	2.0	0.5	0.5	2.0
Victim first to assault or threaten offender	11.0	18.5	11.1	19.5	15.0
Victims actions were a danger to life of offender	6.5	12.0	3.5	12.0	8.5
Offender had a reasonable alternative to killing the victim	92.0	78.0	27.3	6.0	50.9
Weather bad during the investigation	13.0	11.5	5.1	0.5	7.5

Table E

Drugs Involved in Homicide Incident

Drug	Percent of Cases				
	City A	City B	City C	City D	Total
Drugs involved ^a	13.5	19.5	10.1	24.5	16.7
Crack	7.0	14.5	7.6	13.5	10.7
Cocaine powder	3.5	3.0	1.5	7.5	3.9
Marijuana	1.0	3.5	2.0	8.0	3.6
Heroin	3.0	2.5	1.0	1.0	1.9
Amphetamines	0.0	0.0	0.0	0.0	0.0
Barbiturates	0.0	0.0	0.0	0.0	0.0
PCP	0.0	0.0	0.0	0.0	0.0
Hallucinogens	0.0	0.0	0.0	0.0	0.0
Other drugs	0.0	0.0	0.0	0.0	0.0
No drugs involved	9.0	0.0	0.5	0.0	2.4
Missing	77.5	80.5	89.4	75.5	80.7

^aCategories are not mutually exclusive.

Table F

Time of Homicide Incident

Time	Percent of Cases				Total
	City A	City B	City C	City D	
12a.m.-3a.m.	18.5	20.0	23.3	20.0	20.5
3a.m.-6a.m.	5.0	8.0	10.1	8.5	8.0
6a.m.-9a.m.	3.0	3.5	3.5	2.0	3.0
9a.m.-12p.m.	4.0	8.0	5.5	6.0	5.9
12p.m.-3p.m.	8.5	5.0	6.0	9.0	7.2
3p.m.-6p.m.	10.5	8.0	9.6	9.5	9.4
6p.m.-9p.m.	17.0	10.5	17.2	14.5	14.8
9p.m.-12a.m.	27.0	25.0	23.3	25.5	25.1
Missing	6.5	11.5	1.5	5.0	6.1

Table G
Investigative Information

Variable	Percent of Cases				
	City A	City B	City C	City D	Total
Other agencies involved in the investigation	18.5	12.0	10.6	17.5	14.7
Scene secured by first officer on scene	95.5	82.0	87.9	78.0	85.8
First officer on scene attempted to locate witnesses	84.0	39.0	66.7	76.0	66.4
Evidence technicians at scene	97.0	94.0	30.8	91.5	78.4
Search for fingerprints or physical evidence	92.5	91.5	77.3	96.0	89.3
Found fingerprints or physical evidence	77.0	76.0	52.5	89.0	73.7
Sketch of scene made	83.0	90.5	97.0	95.0	91.4
Scene measured	71.5	59.5	94.4	91.5	79.2
Detective described scene	97.5	92.0	99.0	98.5	96.7
Witnesses at scene interviewed	68.5	79.5	77.3	88.0	78.3
No witnesses at scene	31.0	16.0	19.2	11.5	19.4
Witness at scene provided valuable information	58.0	70.5	66.2	65.0	64.9
Event on surveillance video	1.0	0.0	1.5	2.5	1.3
Family members interviewed	29.0	50.0	51.5	87.0	54.4
Friends/acquaintances interviewed	30.5	37.5	55.6	62.0	46.4
Coworkers interviewed	3.0	1.5	3.0	8.0	3.9
Roommates interviewed	0.5	1.0	1.0	1.5	1.0
Neighbors interviewed	14.5	25.0	36.9	58.0	33.6
Neighborhood survey conducted	40.0	59.5	69.7	75.5	61.2
Neighborhood survey provided valuable information	13.5	25.0	29.8	17.5	21.4
Followed up on witness information	90.5	85.0	90.4	95.5	90.4
Follow-up on witness information valuable	64.5	58.0	47.5	72.0	60.5

Table H

Computer Checks

Computer Checks On	Percent of Cases				
	City A	City B	City C	City D	Total
Decedent	84.0	74.0	91.9	18.0	66.9
Suspect	65.0	78.5	73.7	46.5	65.9
Witnesses	37.5	18.0	70.2	28.0	38.3
Guns	7.0	12.0	28.3	7.0	13.5
Shells/casings	6.5	20.0	46.0	0.5	18.2
Vehicles	13.0	29.0	47.5	24.5	28.4
Crime scene	1.5	5.5	8.6	4.5	5.0

Table I

Postmortem Examination

Variable	Percent of Cases				
	City A	City B	City C	City D	Total
Detective present at postmortem	28.5	33.0	90.9	81.5	58.4
Specimens collected	97.0	33.5	76.8	98.0	76.3
Projectiles recovered	67.5	60.5	67.7	55.5	62.8
Body chart prepared	53.5	69.0	92.4	85.0	74.9

Table J

Sources of Information

Source	Percent of Cases				
	City A	City B	City C	City D	Total
Confidential informants	4.5	9.5	10.6	26.5	12.8
Information valuable	2.0	9.0	9.6	13.0	8.4
Other police	6.5	13.0	5.1	7.0	7.9
Surveillance	7.5	7.5	1.5	1.0	4.4
Information valuable	4.0	7.5	1.0	0.0	3.1
Witnesses came forward on their own	25.0	39.0	32.8	28.5	31.3
Information valuable	21.0	36.5	30.3	22.0	27.4

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