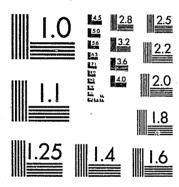
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LAW ENFORCEMENT STATISTICS:
THE STATE OF THE ART

bу

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ABSTRACT

This report describes the state of the art of law enforcement statistis. Of primary concern are those data that deal specifically with management, administration, and operations of law enforcement agencies throughout the country. The report is based primarily on an extensive review of the literature (particularly studies that collected and analyzed data from police agencies) and a careful scrutiny of existing statistics that are available on computer tapes or in manuscript form. In addition, two "users' surveys" were conducted to determine the usefulness and availability of law enforcement statistics to police administrators and academicians. Finally, recommendations are presented for a national level data collection effort.

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Gary Hayes, Executive Director, and Greg Thomas, Senior Research Associate, both of the Police Executive Research Forum developed the user survey of police departments. Forum staff members were responsible for compiling names and addresses and sending the questionnaires to the agencies.

Dennis Rogan, Research Assistant at the Institute of Criminal Justice and Criminology, University of Maryland provided the computer skills to analyze portions of the data.

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INTRODUCTION

Since its establishment in 1979, the Bureau of Justice Statistics (BJS) has consolidated federal statistical efforts dealing with crime and criminal justice. New statistical initiatives have begun so that a comprehensive statistical program describing the nature of crime and the operation of criminal justice systems could be created for the United States. Most notable among these statistical series are the National Crime Survey, National Prisoners Statistics, National Jail Census, Uniform Parole and Probation Reports, Law Enforcement Employment and Expenditure Data, Sourcebook of Criminal Justice Statistics, and National Court Statistics being developed by the National Center for State Courts. In addition, the bureau has provided substantial support for the development of state statistical analysis centers and state uniform crime reports programs and has aided in many other ways the Uniform Crime Reports series. Within the last three years (1982 to the present). the Bureau of Justice Statistics has sponsored two major redesign efforts. The National Crime Survey Redesign, conducted by a consortium led by the Bureau of Social Science Research, is a project that seeks to improve the National Crime Survey and to develop better ways to utilize the results of that survey. The BJS has also funded a consortium led by Abt. Inc. to work with the law enforcement community, the Federal Bureau of Investigation (FBI), and other interested parties to consider ways to improve the Uniform Crime Reports.

Currently the only continuing national statistical series dealing with the characteristics of law enforcement agencies is the annual survey conducted as part of the Uniform Crime Reports. In that survey, the FBI requests information on the number of police personnel, the

distribution of police personnel into sworn and non-sworn and uniformed and civilian categories, and the modes of uniformed personnel deployment. Data are also collected on injuries to and deaths of law enforcement personnel. While these data have proven useful, they are of limited scope given the primary focus of the Uniform Crime Reports on crimes known to police.

Overall, the collection of law enforcement management and administrative statistics on the national, statewide, or local level lags far behind other areas in the criminal justice system. Furthermore, it is unclear what has been collected in the past, by whom, and how reliable the available data are.

This state of the art report attempts to clarify the position of law enforcement statistics. This report gives added perspective and focus to problems of collecting and reporting law enforcement statistics and provides a foundation for a national police statistics project. The state of the art report also formulates recommendations and sets priorities for the types of statistics that should be collected and reported for the purposes of management control, planning, and research.

The report addresses basic questions relevant to police statistics. These questions include: What data have been collected in the past? What statistics are available now? How useful are these data to the police, researchers, and policymakers? What is the quality, reliability, and comparability of these statistics?

This study is divided into eight sections. In Section I, definitions are presented to give the reader a foundation in and understanding of law enforcement statistics. The BJS has divided law enforcement statistics into three major groups at the local, state, and

national levels of aggregation: input data (calls for service and crimes reported); process data (number of agencies, functions, personnel, expenditures, etc.); and output data (arrests, clearances, convictions, citizen attitudes, and use of deadly force). These groups of data are identified and clarified in Section I.

Section II examines the historical development of the collection of law enforcement statistics. This section looks at both crime and administrative statistics since the mid-mineteenth century and reports on the attempts at standardization of these data. This section also examines the national level data collection efforts conducted by the International City Manager's Association (ICMA), the International Association of Chiefs of Police (IACP), Fraternal Order of Police (FOP), Kansas City Police Department, Police Foundation, and Police Executive Research Forum (PERF).

Sections III, IV, and V discuss in detail the input, process, and output data. These sections look more closely at collection efforts and the subsequent research studies that made use of these data. Section VI summarizes the input, process, and output sections. It focuses upon the similarities and differences of the studies and discusses the problems with them.

Section VII reports the results of two users' surveys. The first survey, conducted by the Police Executive Research Forum (PERF), questioned 152 large police departments about the utility, availability, and sources of statistics to those agencies. The second survey, conducted by the Institute of Criminal Justice and Criminology at the University of Maryland, involved telephone interviews of researchers and policymakers concerning their particular uses of law enforcement

statistics.

Finally, in Section VIII conclusions and recommendations are presented for the collection of a national series on law enforcement statistis.

I. DEFINITIONS

To understand the area of law enforcement statistics, some common definitions and parameters are necessary. This section defines the terms that will be used throughout this report.

A Bureau of Justice Statistics white paper laid the foundation for this state of the art report by elucidating preliminary definitions of law enforcement and three types of data—input, process, and output. The <u>Dictionary of Criminal Justice Data Terminology</u> also provided some insight as to the definition of a law enforcement agency. The Dictionary defines law enforcement agency as "a federal, state, or local criminal justice agency or identifiable subunit of which the principal functions are the prevention, detection, and investigation of crime, and the apprehension of alleged offenders" (p.125). The BJS white paper also includes this terminology, but is more specific in that it addresses five parameters for the definition of law enforcement and applies them to statistics gathering.

First, the agency must be designated by law to have the powers of arrest. Second, the agency must have sufficient resources to warrant direct reporting to a central statistical agency at the state, regional, or federal level. In those instances where such conditions do not exist, a larger entity should provide the reporting for that evea. In particular, in rural areas where there may be one-person agencies the aggregation should be at the county level. Third, a reporting agency should have a clearly defined jurisdictional boundary in which it operates and the aggregation of data should be at an appropriate level. Campus police, state police, and federal agencies should be included in

the definition of a law enforcement agency in the development of this series. Fourth, private police agencies are not to be included. Fifth, jail related activities of law enforcement agencies are to be included in other BJS statistical programs. While these general characteristics will be easy to apply in a large percentage of the agencies, especially those that generate the bulk of statistical information on law enforcement, the application of these criteria to small agencies could present some problems.

Considerable attention has been given to the issue of the kinds of data to be collected at a national level on law enforcement agencies. In general, three major types of data currently exist that need to be gathered or organized. First, input data must be collected; that is, information describing the demands for service that are placed upon law enforcement agencies. Currently, such information for crime-related demands for service are collected by the Uniform Crime Reports. However, there are estimates that up to 85% of the services requested of law enforcement agencies are non-crime related. Therefore, the effort to characterize inputs should be expanded beyond crime data to capture more accurately the wider range of services demanded from law enforcement agencies. While such input measures or measures of demand for service will expand our understanding of the role of law enforcement agencies in society, it is recognized that many of the activities of law enforcement agencies will not be captured by a series that focuses on calls for services (e.g., police initiated activities such as crime prevention, public education and relations, etc.)

The second type of data involves process data--the characteristics and processes of law enforcement agencies. Currently, Uniform Crime

Report data and other series collected occasionally at a national level provide some information on these characteristics. The following enumerates some of the data that describe the function of law enforcement agencies:

- 1. Size of departments.
- 2. Functions/Duties/Resource Allocations
 - a. Patrol
 - b. Investigations
 - c. Support
 - d. Other functions

3. Personnel

- a. Sworn officers v. civilians
- b. Minimum educational requirements for officers
- c. Training requirements, in-service training
- d. Psychological testing, drug testing
- e. Demographic characteristics
- f. Length of service, retirement standards, disability pay
- g. Promotion practices

4. Expenditures

- a. Salary ranges
- b. Operating expenses
- c. Capital expenditures, including police equipment
- d. Police overtime
- e. Training costs
- f. Dispatch costs
- g. Investigations costs

- h. Trial appearance costs
- 5. Information Systems and Data Processing
 - a. Type of hardware
 - 1. Shared v. dedicated
 - b. LEIS
 - 1. POSSE, CASS, FMIS, IMIS, etc.
- 6. Number of beats
 - a. Foot patrol, car patrol (1 & 2 man cars)
 - b. K-9 patrols
- 7. Unions
 - a. Number of unions, number of members
- 8. Special equipment (helicopters, riot control, etc.)
- 9. Information on the socio-eonomic context in which the department operates

Finally, data concerning the performance of law enforcement agencies are included in the definition of law enforcement statistics. In particular, data that cover arrests made by police for crimes known to them and the outcomes of those arrests are placed in this category. In addition, other information on police outputs such as the number of deadly force incidents (firearm discharges, actual "hits", etc.), public attitudes toward the police, police attitudes toward the public, offenders, and courts, and number of civil suits against a department are included here. And lastly, consideration should be given to ways in which national data might be collected to assess the performance of law enforcement agencies with respect to the non-crime related services they provide, e.g., victim/witness programs, community service programs, and auxiliary service (ambulance, cross guards, etc.).

II. LAW ENFORCEMENT STATISTICS: AN HISTORICAL OVERVIEW

This section examines the history of the collection of law enforcement statistics. The accumulation of these data began at the local level through annual reports in the nineteenth century, developed into a national series as part of the Uniform Crime Reports in the 1930s, and eventually was conducted by a number of organizations which sought more information on police administrative practices than that which was available through the UCR. The history of the collection of these data is tied directly to the development of urban police departments in the United States. This chapter traces the growth of police statistics by examining the police from the 1850s to the present.

Most urban police departments were formed in the mid- to late-nineteenth century as a result of the growing concern over crime, disorder, and the influx of immigrants into the cities (see Richardson, 1970; Lane, 1967; Miller, 1977; Johnson, 1979; Levett, 1975; and Monkkonen, 1981). To measure the performance of these uniformed police, city councils and police administrators urged the collection of crime statistics (primarily arrests for various crimes) for inclusion into annual reports-1 Collection of statistics related to operations and administration, however, was minimal, confined primarily to personnel and expenditures. Input, process and output data as identified by the Bureau of Justice Statistics were not emphasized (nor deemed necessary) during the nineteenth century. The concern of police departments and

the public was generally directed toward crime and disorder rather than management of internal police affairs.

Toward the end of the nineteenth century problems in policing, particularly with corruption and inefficiency, began to surface (Fogelson, 1977). Urban reformers began to challenge the political machines that controlled city governments and police departments. In their efforts to bring changes into policing the reformers stressed managerial efficiency and professionalism, catchwords that heralded the development of the International Association of Chiefs of Police (IACP) in 1894, and the collection of law enforcement and crime statistics by independent municipal groups in the early 1900s (Walker, 1977).

To combat the problems of corruption and ineffectual police service, municipal reformers pressed for investigations of urban police departments throughout the country. A favorite mechanism for investigations was a state commission such as the Lexow Committee in New York. Another form was the independent research group, most notably, the Bureau of Municipal Research in New York City. As a part of the investigations, statistics on police administration and operations were gathered. The Bureau of Municipal Research was particularly concerned with the collection of such data. First organized in 1906, the bureau conducted research for New York City, and eventually evolved into a consulting firm with a national outlook. The Bureau used a "nonpartisan" and "scientific" approach to its research, a style that epitomized the Progressive Era in American history. The directors of the Bureau of Municipal Research defined their role as "applying the test of fact to the analysis of municipal problems and the applicability of scientific method to governmental procedures" (Dahlberg, 1966:20-21).

¹Crime statistics were collected as early as 1829 in the New York judicial system (Robinson, 1934:128). The police assumed that function in 1845. Other police agencies began collecting crime statistics in the latter half of the nineteenth century.

In terms of the police, the Bureau conducted extensive surveys of a number of departments throughout the country. Between 1913 and 1924 the Bureau examined police departments in at least 17 major cities including Rochester, Richmond, New Orleans, Denver, Milwaukee, San Francisco, and New York. These surveys included data relating to personnel, wages and salaries, deployment of officers (day and night patrol), types of hardware, location of stationhouses, training, supervision of officers, recordkeeping, jail management, and crime statistics. The bureau went beyond mere collection of data and made recommendations to the departments regarding administrative practices.

According to Walker (1977:60-61), the experts at the Bureau found essentially the same conditions in almost every city they examined. Usually the Bureau reported that the departments were a part of the political system, meaning that they were controlled by partisan affiliations which affected appointments, policies, progress, and efficiency. Thus, the Bureau of Municipal Research advanced the theme of police reform: eliminate partisan politics, guarantee job security of tenure to the chief, and use modern business management techniques.

The Bureau usually suggested that departments overhaul themselves completely. Rules and regulations needed updating, patrol officers required more supervision, training academies needed to be implemented, and the police station itself required renovations. While reforms were not readily made within the departments as a result of the Bureau's work, these reports established the model for the police survey that became a standard item in police administration by the 1920s and 1930s.

As police systems in general began to move toward professionalism, police administrators like August Vollmer and organizations like the

International Association of Chiefs of Police (IACP) urged departments to maintain records related to crime and operations. While police departments had collected data for their annual reports, few attempts were made to standardize those reports across police agencies and even fewer attempts were made to collect those data in an annual national series. While the IACP discussed criminal records and statistics at its annual meetings as early as 1895, it was not until 1922 that it endorsed a system of crime records for police departments (Mead, 1929).

By 1927 the organization of police chiefs appointed a committee to formulate a complete standard system of police statistics. This Committee on Uniform Crime Records outlined a system of record forms and forms on which local police could furnish data for state-wide and nation-wide compilation. The committee also recommended a standard annual report (Mead, 1929 and Timmerman, 1929). Among the committee's recommendations for collection of data were specific crime-related classes (crimes known to police, arrests and clearance rates), as well as those statistics linked with operations and administration. The Committee on Uniform Crime Records suggested that police show the numbers of the force classified by grade, the distribution of each grade among districts or precincts, special bureaus or other administrative units; and the salary range of each grade2 (Mead, 1929).

By 1933 August Vollmer could report in the Journal of Criminal Law

²Mead also mentions that "nation-wide statistics of city police personnel, classified by grade were formerly included in the annual reports on statistics of city governments, published by the Federal Bureau of the Census. These statistics were published annually from 1903 to 1907, but were eliminated, together with other non-financial data, when the scope of the report was narrowed to cover only financial statistics" (Mead, 1929:81).

and Criminology that "a complete and detailed system of records has been instituted ..." (Vollmer, 1933:161). Furthermore, he said, "These achievements are monumental, and it is assured that in the future police departments will furnish accurate information to a central agency, if not of their own volition, then through compulsion by legislative enactment" (1933:167).

ADMINISTRATIVE SURVEYS

With the development of the Uniform Crime Reports in the 1930s, the police and the FBI placed emphasis on the collection of crime statistics rather than law enforcement data. Though the UCR accumulated statistics on administrative and operational matters (mostly personnel-related), the primary focus was (and is) crime. Only a few attempts have been made to collect law enforcement data over the years, and these have been limited to survey questionnaires.

The first collection of operational and administrative data on a nation-wide level occurred in 1929 under the auspices of the Bureau of Municipal Research (Beyer and Toerring, 1929). The bureau surveyed 78 municipal police departments and all nine state police forces. Of the 78 city police, 36 were from the larger departments, with populations ranging from 114,000 to 5,900,000; while the remaining 42 departments were from smaller cities, ranging in population from 30,000 to 105,000 (see Appendix A for a listing of departments). The state police departments were Connecticut, Massachusetts, Michigan, New Jersey, New York, Pennsylvania, Rhode Island, Texas, and West Virginia.

The Bureau of Municipal Research sought and received information concerning wages and salaries of police, clothing reimbursement, room and board, sick-leave, vacation leave, pension funds, and stability of employment. Some of the findings of the bureau reflected the progress police had made since the corruption-filled years of the mineteenth century. Police work was increasingly recognized as a permanent career and most departments had begun to offer a wide range of fringe benefits. The survey revealed, for example, that it was "a fairly general practice to allow sick-leave with pay," that 57 of the 78 cities surveyed provided two weeks vacation with pay, and that all but seven of 78 cities maintained some form of pension plan. Employment in police work had stabilized significantly. The personnel turnover in the 78 cities averaged 4.17 percent a year (Beyer and Toerring, 1929:143-144). The Bureau's study concluded that differences existed between the municipal and state police agencies, primarily due to the fact that the state police lagged behind the city departments in benefits for their officers. But the Bureau was confident that with time the state police would have more provisions for the welfare of the individual officer.

In the decade of the 1930s the emphasis on statistics governing administrative practices gave way to crime statistics. As mentioned, the Uniform Crime Reports were concerned primarily with arrest data and as such collected only a few statistics on operations. However, a national series on law enforcement statistics data began in a limited fashion under the auspices of the International City Manager's (later Management) Association (ICMA) in 1939.

As part of its annual <u>Municipal Yearbook</u> series, the ICMA collected data on cities throughout the country. Initiated in 1934, the

Municipal Yearbook reported on most facets of city management -- from financial planning to the form of government. In its first year of publication (1934) the ICMA enlisted August Vollmer to write a report on the state of law enforcement. Vollmer's essay was similar to his article in the Journal of Criminal Law and Criminology in that both applauded the achievements of the police in the twentieth century. In the following nine years (1935-1943) the Yearbook published reports from Vollmer's chief disciple, O. W. Wilson, police chief of Wichita, Kansas. In conjunction with Wilson's appraisals of developments in police administration, in 1939 the ICMA began reporting statistics from police departments throughout the country. In that year, the Municipal Yearbook relied exclusively on the Uniform Crime Reports for its data, but by 1942 had begun administering a questionnaire of its own to all police departments in cities over 10,000 in population. In 1944 the Yearbook received information on the police from 1,060 cities. Statistics on police personnel, salaries, expenditures, retirement systems, method of appointing the chief, numbers of motor vehicles and radio facilities, and crime rates were collected and reported. By 1983 the Yearbook presented data from 6,943 jurisdictions, but had limited its variable list to personnel, salaries, and expenditures (see Section IV, Process Data, for a more detailed view).

In 1951 two more national level data collection efforts were undertaken. The Fraternal Order of Police (FOP) and the Kansas City, Missouri Police Department each sent questionnaires to police agencies requesting information regarding their administrative practices. Each organization published its data on an annual basis.

The publication of the Fraternal Order of Police emerged as a

result of interest in salaries and wages of police throughout the country. The National Lodge of the FOP was (and is) concerned with issues that directly affected the lives of individual police officers of all ranks. The National Lodge was an outgrowth of the local fraternal orders of police that were established in Philadelphia, Cincinnati, Cleveland, Detroit and other mid-Atlantic and mid-Western states in the period which roughly covered 1910 through the 1920s (Fogelson, 1977:196). In the period from 1920 to 1950 when unions were virtually unknown, unwanted or not allowed by police administrators, the FOPs provided insurance against sickness and death, sponsored picnics and parties, and otherwise looked out for the health and well-being of its members (Fogelson, 1977:197). As the demands for unions increased in the 1940s and 1950s the FOPs began to carry the rank-and-file's demands to the authorities and indirectly to the voters. The FOP's Survey of Salaries and Working Conditions grew out of this milieu.

From 1951 to the present the FOP has collected data through its state and subordinate lodges. In 1983 the organization received information from 1,065 departments and classified them according to population size. All of the data can be categorized as "process data", dealing primarily with salary information and fringe benefit packages.

The Kansas City, Missouri Police Department began its national level data collection in the same year as the FOP. For the next 22 years the department published the <u>General Administrative Survey of Police Practices</u>. The Kansas City survey, unlike the FOP's, was limited to the larger departments in the country — those that serviced cities with a population of 300,000 to 1,000,000. In 1973, its last year of publication under the sole auspices of the KCPD, the General

Administrative Survey reported statistics from 40 large departments. Like the FOP questionnaire, the Kansas City survey requested information on process data — salaries, wages, fringe benefits, etc. Unlike the FOP study, the KCPD asked a broader array of questions, requesting statistics on computer facilities, uniforms, sidearms, and vehicles. By 1973, budgetary considerations forced the department to cease publication. But the department continued to receive requests for the survey. As a result, department administrators decided in 1976 to conduct a scaled-down version of the survey, but no definite plans were made to continue this modified version on a permanent basis.

In early 1977 the Police Foundation approached the Kansas City police with the idea of a joint endeavor. The Foundation agreed to compensate the department for its costs in fielding the survey and tabulating the data. The Foundation took responsibility for analyzing and publishing the data. The scope of the survey was extended to include all departments serving cities with more than 250,000 people. Survey questionnaires were sent to 56 police departments. Fifty of these departments elected to participate. The Foundation made some changes in the survey's content, asking for more information on promotional policies, hours worked per shift, deployment of personnel, review board procedures, and distribution of personnel by unit. Another change in the Police Foundation version was the addition of an analysis section to "provide the reader with a frame of reference for interpreting individual statistics" (Heaphy, 1978). Data in the analysis section generally showed the range and median values of the responses of all participating agencies. Separate ranges and median values for various geographical regions and for various city population categories were also provided.

In November 1977 the Police Executive Research Forum (PERF) sent the Kansas City/Police Foundation survey to its members (47 large police departments) and published the <u>Survey of Police Operational and Administrative Practices — 1977</u>. The Forum's survey included departments that served populations of 100,000 or more and that were members of the association. So there was some overlap between the Kansas City/Police Foundation survey and the Forum's.

In 1981 the Police Foundation and PERF joined forces and published the <u>Survey of Police Operational and Administrative Practices — 1981.</u>

All departments serving a population of 100,000 or more and all PERF members were surveyed. A total of 155 questionnaires were sent out, with 122 departments responding with completed instruments. This joint endeavor revised the questionnaire of 1977. Questions were clarified based on comments of police executives. More information was requested especially in the areas of calls for service (input data) and in firearm discharges (output data). Unlike the previous reports, the 1981 publication did not attempt to analyze the data. It simply presented the raw data and summary tables.

The International Association of Chiefs of Police (IACP) worked with the Police Foundation and Educational Testing Service to collect data on police personnel practices in state and local governments. Terry Eisenberg, Deborah Ann Kent, and Charles R. Wall of the IACP published the results of their collaborative effort in 1973. Their survey sample included all state, county and municipal police agencies having fifty or more sworn police personnel. A total of 668 jurisdictions including 47 state agencies, 140 county departments, and

481 municipal agencies were sent questionnaires. Of the 668 jurisdictions, 493 agencies (74 percent) returned the survey instrument. The questionnaire form consisted of 50 questions, with a number of sections and sub-sections for each. These questions were organized into 13 categories: identification, number of employees, civil service/merit system, responsibilities of police personnel, recruitment, selection requirements, lateral entry, promotion, performance appraisal, appeals and grievances, organization and management, female personnel, and minority personnel. The data were analyzed in the aggregate, by the type of agency and by the size of the municipal agency. These topics will be covered in more detail in the section on process data.

The most recent collection effort involved Mark A. Cunniff, Executive Director of the National Association of Criminal Justice Planners, and the Bureau of Justice Statistics (Cunniff, 1983). Fifty-three agencies participated in the survey, the largest department serving a population of 945,141 and the smallest agency serving a population of 2,978. Unlike the other national level series where the data were presented in tabular form with little analysis, Cunniff's work involves a description and presentation of the data. In putting forth the data in tables, the participating agencies remained anonymous. The description of the statistics was limited to four areas -- calls for service (citizen initiated calls, screening policy, calls handled by phone and calls handled by dispatch), agency reports (i.e. traffic tickets, traffic accidents, crime incidents, arrests), investigations (i.e. the role of patrol, case screening and case disposition), and resources (i.e. budgets, staffing, recruits, and training). Cunniff selected these areas for discussion because they represented the best aspects of the data. The limited scope and depth of the data precluded an extensive analysis. Cunniff emphasized the problems inherent in gathering and analyzing such data: Administrative discretion creates variation in law enforcement practices, consequently producing a non-standardized input-process-output procedure and lessened validity and reliability of statistics.

THE POLICE SERVICES STUDIES

The most extensive data collection on administrative statistics occurred ten years ago under the direction of Elinor Ostrom and her colleagues at the Workshop in Political Theory and Policy Analysis at Indiana University. Ostrom et al. collected data on police services through a grant from the National Science Foundation. The police services study was one of four projects that examined the organization of service delivery in metropolitan areas. (The other three involved fire protection, public health and solid waste). All four projects chose the Standard Metropolitan Statistical Area (SMSA) as the unit of analysis. The sampling frame from which 80 SMSAs were selected for the police services project included all SMSAs (200) that were wholly contained inside one state and contained a population of less than 1.5 million people. The researchers wished to focus on the less studied areas of the country and to determine the impact of state laws and policies on metropolitan policing. The original research design of the police services project included five major clusters of variables: 1) service conditions, 2) the legal structure, 3) organizational arrangements, 4) manpower levels, and 5) expenditure levels. Patrol, traffic control, criminal investigations, radio communications, adult pre-trial detention, entry level training, and crime laboratory analysis were the specific services that concerned the researchers.

The analysis conducted by Ostrom et al. (1978) was based upon the concepts of service producers and consumers. The producers were the police agencies with functions and duties that may have overlapped with other jurisdictions. Within the 80 SMSAs, information was collected from 1,761 producers. The areas served were mutually exclusive geographical divisions of each SMSA. The total number of consuming units was 1,885.

To collect the data, the researchers used a mixed strategy. Information was obtained from state records, from the county sheriffs' offices and larger police agencies in each metropolitan area, and from individual producers themselves. The researchers conducted in-person interviews as well as mail and telephone interviews.

A second phase of funding was initiated in 1977 to examine police behavior across a wide range of police departments that varied in terms of certain organizational properties, primarily organizational size. In Phase II, three metropolitan areas were studied in detail. Rochester, New York; St. Louis, Missouri; and Tampa-St. Petersburg, Florida provided regional diversification and the opportunity to select specific police departments of various sizes within each metropolitan area.

Data from these three areas were not confined to administrative statistics. Observational data on various aspects of police-suspect encounters; data on characteristics of the neighborhoods in which the encounters occurred; data on organizational characteristics of the police agencies; and data from interviews with samples of police officers were collected.

With these data, Ostrom and her colleagues described the services of metropolitan police departments. At least 18 technical reports were published through the Workshop in Political Theory and in 1978 Patterns of Metropolitan Policing appeared in book form. A number of journal articles have also been published in recent years that specifically use the data from Phase II (see e.g., McIver and Parks, 1983; Mastrofski, 1981a, 1981b, and 1983). Two recent dissertations have used data from Phases I and II. Douglas A. Smith, assistant professor at the Institute of Criminal Justice and Criminology, University of Maryland relied on data from Phase II data for his thesis on decisions to arrest (1982). Robert Langworthy, assistant professor of Criminal Justice at the University of Alabama Birmingham used data from Phase I and the Kansas City General Administrative Survey to study the structure of police organizations (1983).

CONCLUSION

This section examined the roots of law enforcement statistics and showed the development of those data over time. One of the striking features of this historical examination is the sporadic and inconsistent nature of the collection of law enforcement statistics. Two national series currently exist, both of which are limited in scope. The Fraternal Order of Police concerns itself with salaries and working conditions, while the ICMA confines its collection to data aimed at city managers whose concerns are primarily financial. The extensive surveys developed by the Kansas City Police, Police Foundation, Police Executive Research Forum, Ostrom et al., the National Association of Criminal Justice Planners, and the IACP provide a variety of methods and data

that require further investigation. In subsequent sections we look more directly at the types of data gathered and analyzed.

III. INPUT DATA

This section examines input data — statistics that describe the demands for service on police agencies. Of particular concern in this area is the call for service to a police department. For this state of the art report we look first at two important studies on calls for service— The Kansas City Police Department's Response Time Analysis (1977) and the Police Executive Research Forum's Calling the Police (1981). Second, we investigate the types of data collected on calls for service. Specifically, we examine statistics reported by Mark Cunniff in his BJS funded study (1983) and by the Police Foundation and the Police Executive Research Forum in their collaborative effort Survey of Police Operational and Administrative Practices (1981).

KANSAS CITY RESPONSE TIME ANALYSIS STUDY

The Kansas City Response Time Analysis Study was undertaken in an effort to evaluate the effect of rapid police response on arrest, on the availability of witnesses, on citizen satisfaction with response time, and on the severity and frequency of injuries incurred by citizens. It also sought to assess the effect of citizen delay in reporting crime on police response time. Prior to this study, the police assumed that increases in the rapidity of police response to citizen calls would result in a higher arrest rate, more witnesses, fewer injuries to citizens, and greater citizen satisfaction with regard to police service. Little consideration was given to delays by citizens in reporting crimes and the resulting effects on police response time.

METHODOLOGY

The Kansas City Police Department studied 56 beat-watches (8 hour tours of duty in geographically defined areas) within its jurisdiction. The areas selected had high rates of Part I crimes, specifically robberies and aggravated assaults. The researchers thought that areas with high rates of violent Part I crimes would yield high rates of non-violent Part I crimes, thereby providing adequate numbers for study.

Data collection consisted of three components. Observers gathered "travel time" data by riding with field officers. "Dispatch time" data were collected by analysts from tape recordings issued from the Communications Unit. Interviewers amassed "citizen reporting time" data from victims and others who had made reports to the police. Combining these data provided the total response time for any call, starting from the initial call and ending with the conclusion of the officer's investigation. In addition, social characteristics of the victims, witnesses and other callers were taken by the interviewers to determine the effects of such variables as race, sex, length of residency, etc. on response time and on citizen satisfaction with that response.

FINDINGS

The researchers found that a large proportion of Part I Crimes (62.3%) were "discovery crimes"—those offenses discovered after the fact. As a result, rapid response time did little to enhance the chances of apprehending a suspect or locating witnesses. The remaining 37.7% of Part I Crimes were "involvement crimes"—crimes in which a victim or witness participated. The outcome of these incidents hinged

largely upon the time required for the citizen to report. An inverse relationship existed between on-the-scene arrest/witness availability and citizen reporting time: the longer it took for a citizen to report a crime, the less likely an arrest of a suspect or the location of witnesses.

The researchers also discovered that reporting delays could be categorized as decision making delays on the part of citizens or as resulting from other problems. In the case of the former, the lag in reporting time was attributable to several factors. Some citizens found it necessary to seek advice from others on how to proceed. Others lingered to observe the incident or investigate the scene. Uncertainty existed as to whether the situation warranted police intervention. Delays resulted from chasing the suspect. In some instances, security personnel were contacted first. Apathy—primarily the belief that the police are incapable of doing anything anyway— also caused reporting delays. Other problems included difficulties in telephoning (unknown police or emergency number, broken phone), fear of reprisals, injury, and difficulties in communicating with police complaint takers.

IMPLICATIONS

For the researchers with the Kansas City Police Department, the unanticipated effects of citizen reporting delay on police response time suggested interesting implications for police policy. Efforts to hasten police response time through allocation and redeployment of human resources and through the introduction of technological innovations were deemed questionable since the research determined that the primary delay was citizen based. Instead, the researchers recommended that improved

methods of discrimination between emergency and non-emergency situations would lead to a more productive use of police personnel and improved outcomes. Response by non-dispatched officers to robbery scenes was ineffective in achieving a response-related arrest. Finally, the researchers recommended that more research was required to explain reporting delays and develop methods to overcome them.

The data for the Kansas City Response Time Analysis are available through the Criminal Justice Archive and Information Network of the Inter-University Consortium for Political and Social Research (ICPSR). The data are stored in 46 files with information on crime and non-crime relted calls, interviews with police, victims, and witnesses, and observational data.

CALLING THE POLICE

The second major study on calls for service was conducted by William Spelman and Dale K. Brown of the Police Executive Research Forum (PERF). They replicated the Kansas City Police Department Study, focusing on citizen reporting of crime. They, too, found that the speed of police response is only one variable to be considered when researching response time.

METHODOLOGY

Four cities were involved in the study: Jacksonville, Florida; Peoria, Illinois; Rochester, New York; and San Diego, California. Data were collected on incidents involving the Part I offenses of burglary, robbery, aggravated assault, motor vehicle theft and theft. Rape was included in all cities except San Diego. As in the Kansas City Study,

the sample of crimes drawn from each of the cities was divided into two categories: discovery crimes and involvement crimes. Involvement crimes and crimes resulting in on-the-scene arrests were subject to oversampling in order to ensure that a sufficient number of such incidents was available for analysis.

Data for the study were collected from the following sources:

- 1. police incident reports;
- arrest reports;
- 3. telephone communication tapes;
- 4. dispatch cards and printouts; and
- 5. interviews with those involved in the

incidents.

Interviews were conducted both by telephone and in person with victims, witnesses and bystanders who notified the police of the incident. These individuals were contacted as soon after the incident as possible. A questionnaire drawn from the type used in Kansas City was used to structure the interview.

FINDINGS

Spelman and Brown found that, as in Kansas City, response related arrests were low. This was due to the fact that 75% of serious crimes were discovery crimes in which a quick response made little difference. Therefore, in only 25% of serious crimes (involvement crimes) could quick response time make a difference in arrests. The key to these on-the-scene arrests appeared to be the speed, or lack thereof, on the part of the citizen to report crime. The longer the delay, the greater the opportunity for the suspect to escape. A crime reported while in

2

progress had a 35% chance of response-related arrest. A report made within one minute after the incident occurred added an additional 18% chance for an arrest. By contrast, crimes reported between one and five minutes after the crime resulted in a 7% chance of arrest. This meant a substantial reduction in apprehension capacity.

Three basic reasons were given for citizen delay. First, the citizen hesitated in calling the police because of a need to resolve ambiguity in the situation, that is, to ascertain if a crime actually had been committed. Citizens observed the scene, investigated the situation, and then spoke with others in order to gain more information. Second, citizens left the scene or spoke with someone in order to gain support. They pursued the suspect and, in some instances, sustained or cared for injuries. Third, citizens encountered personal conflicts over the decision to call the police. They questioned whether the situation warranted such a call. On the other hand, when citizens decided to report, additional reasons for delay arose. Telephones were not available or the police number was not known. The caller also may have encountered difficulty relating the information to the police complaint taker.

IMPLICATIONS

The Spelman and Brown study suggested several courses of action for the police that would reduce the delay in citizen reporting of crime. The first recommendation involved reducing the conflict experienced by the public in deciding to call the police. The emotional and financial costs of reporting were symptoms that needed to be addressed by the police. Spelman and Brown suggested that the police

educate victims and witnesses in crime prevention techniques and to place emphasis on the benefits resulting from these practices. Because the citizen fears reprisals from the offender, the police should provide protection and reassurance to that individual. Spelman and Brown also recommended that the police emergency number be widely distributed and publicized. Where access to that number is not possible, the police should encourage citizens to dial telephone operators when an emergency occurs in order to avoid the delay of searching through phone directories. In addition, the authors suggested that police operators be trained to screen calls for service in an effort to reduce communications problems with reporting citizens and to prioritize calls according to the seriousness of the crime and the urgency of the police response.

Another course of action suggested by the Police Executive Research Forum involved the implementation of community-based neighborhood anti-crime programs. Spelman and Brown saw these programs as methods to increase the level of understanding of what a crime looks like and where it is most likely to occur. Such efforts would reduce the delay in reporting and increase response-related arrests.

BEYOND CRIME: LAW ENFORCEMENT OPERATIONAL AND COST DATA

Mark Cunniff's study, Beyond Crime: Law Enforcement Operational and Cost Data, devoted one section to calls for service. The number of calls, the percent of citizen initiated calls, screening policy, the percent of calls handled by phone, and the percent of calls resulting in dispatch were the variables that he considered. Several characteristics of dispatches were also examined in some detail, particularly

SELECTED CHARACTERISTICS OF DISPATCHES

	٠.	OTAL	DISPATCHES	NUMBER OF DISPATCHES INVOLVING		PRIOR	ITY C	A L L S		
	HUM	BER OF	PER 1000	MORE THAN ONE CAR	PRICRITY	response Time	TIME	TOTAL TIME FOR PRICEITY	POPULATION PER SO MILE	PRESENCE OF 911/CAD
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	<u>A</u>	9897	1164 748	0.25	0.16	1.66	15.00		5956	91.1
	3	2228	/40	0.23	91.49	2.00	10.00		3100	911
	C			0.50		3.25	H.A.		1741	911
	D R	15020	626	0.05		4.50	18.00		5455	911
		53178	1251	0.40	0.01	2.17	15.00		3469	911
	g G	10600	982	0.50	0.07	3.17	20.00		407	
	H	3456	524	0.20	0.13	3.00	10.00	13.00	1100	
	Ī	9500		0.60	0.08	5.50	15.00		1176	
	ĵ	7361		*****	- 0.04	2.60	12.00	14.60	173	911
	K	11284	882	0.20		2.30	59.20		4000	
	L	4150		0.40		. 1.33	9.50		1519	CAD
	M	8012		0.23	0.44	2.83	19.50		1177	
	N	3068		0.30		2.20	30.00			
	ō	20330		0.41		4.05	23.26		5846	
	ř	14789	•	0.05		2.18	35.00		3778	
	Q	17883		0:10		3.25	12.0			
	S.	18972		0.13		3.20	- 17.5			CAD/91
	8		2554	0.25		3.50	45.00			
	Ī	71798	1680	0.18		2.94	7.6			
	ů	2100		0.01		2.12	11.13			
	v	17536		0.70		2.75	20.0			
	¥	9400		0.35		1.58	15.0	16.58		
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AVERAG										
POR AL	بيال	12555	0 715	0.3	i 0.1	5 4.32	2 23.4	64 28.3	a 435	4

*Reprinted from Table 3 of M. Cunniff, Beyond Crime: Law Enforcement Operational and Cost Data, 1983 (Washington: Bureau of Justice Statistics).

information on response time for priority calls and the presence of 911 emergency numbers.

The study found that 911 numbers elicited a faster response time. Those agencies with 911 capabilities required nearly one minute less than those agencies without such capabilities in taking information from the caller and relaying it to the dispatcher (Table 1). This, in turn, led to a faster arrival of an officer at the scene of the incident. Agencies serving populations of less than 100,000 which had 911 systems evidenced a higher number of service calls per 1,000 persons that those without systems. Agencies serving populations of 100,000 or more which have 911 systems averaged fewer calls for service than those without these systems. Thus, there appeared to be a positive relationship between the emergency system and dispatches only as long as population parameters remain under 100,000.

THE SURVEY OF POLICE OPERATIONS AND ADMINISTRATIVE PRACTICES

The Police Foundation and Police Executive Research Forum's 1981 survey of police agencies collected information on calls for service. The data were presented in tabular form in the joint publication, The Survey of Police Operations and Administrative Practices — 1981. No analysis of these data was given, though some comments need to be made with regard to the statistics.

The Police Foundation/PERF survey asked the following questions regarding calls for service:

How many citizen calls did you receive by telephone last year (including information requests)?

Of those calls, how many were calls for service that were responded to by the dispatch of one or more police units?

How many were calls for service that were handled by some other

method than the dispatch of a unit (i.e., telephone report-taking, mail-in reports requiring citizens to come to a police station)?

How many were calls for information only?

If you use other categories of citizen calls not included in a,b and c above, please specify the categories and number of calls in each.

Put more simply, the survey asked for the total number of calls, the number of calls handled by a dispatched unit, the number of calls handled by other methods, the number of calls for information, and the number of calls not included in the three categories given.

The information provided by police departments in this section was incomplete at best. Usually, the department provided the total number of calls received, but could not distinguish among the calls. Information was unavailable or missing for the number of calls handled by methods other than dispatch, information calls, and "other" calls. More specifically, 40% of the departments in the survey indicated that the number of calls handled by methods other than dispatch were unavailable. The number of information calls were unavailable in 70% of the departments, and the number of calls categorized as "other" were unavailable in 73% of the agencies.

IV. PROCESS DATA

Process data -- the characteristics and processes of law enforcement agencies -- are discussed in this section. These types of data include personnel, expenditures, computer use, equipment, etc. In this part of the report we examine in closer detail the statistics gathered by the International City Management Association (ICMA), the Fraternal Order of Police (FOP), the Kansas City Police Department, the Police Foundation, the Police Executive Research Forum (PERF), the International Association of Chiefs of Police (IACP), and the data collected by Elinor Ostrom et al. in their efforts in 1974-1975. We also examine statistics collected by state agencies through Statistical Analysis Centers (SACs).

The data collected by the Fraternal Order of Police (1951 to the present), the Kansas City Police Department (1951-1973), and the International City Management Association (1934 to the present) are limited to administrative and operational data. The most recent publication of the FOP (1983), A Survey of 1983 Salaries and Working Conditions of the Police Departments in the United States, contains statistics for 1,065 police agencies. For each department, information on the salaries of police chief to patrolman, fringe benefits (including health, pension, disability, and survivor's benefit), education, and legal aid are presented. No attempt is made to analyze the data. The information is presented in raw form, with each department listed with its appropriate numbers alongside (see Table 2).

The Kansas City Police Department published its data in similar fashion. In 1973, its final year of publication, the department

TABLE 2*
SALARIES AND WORKING CONDITIONS

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	No. of Unit	· MI	HAX	MEN	MAX	Mari	MAX	MRM .	MAX ·	MAN	MAX	Make	MAX	Years Jahn to Mare	Hours Per W	Overtime Co	Number of F Rate of Pay	Personal Days	Annual Vaca (Deys - Man	Annual Sick Meximum A	Sick Lasvs B	Shirt Differential Evening/Night	Annual Clothing	Cothing Mass
	POPULATION 50,000 to 100,000 (C							-	•															
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	Arvada, CO. 110 *Asheville, NC. 133 *Bayonne, NJ. 181 Bellevue, WA. 111 Bellingham, WA. X	38,5 63,3	00 -	- 20,332 - 27,400 5 35,052	25,974	17,550 25,119 29,052	22,438 31,152	15,984 22,900	20,332	15,184 14,528 24,000	18,480 20,362 27,360	11,908 14,228 19,752	25,824 18,460 20,062 27,360 25,176	4 6 5 3½ 8	40 40 40 40	Y Y Y Y	19/1 8/X 8/1 11/1 11/1	X VAR	12-20 12-15 5-20 13-32 10-21	12/X 15/UNL UNL 6m 12/60	60d X —	- - -	FURN \$500 \$450 \$315P \$325P	ALL Y —
	Berwyn, IL	25,1	- 32,72 10 27,36 - 51,50	18,750	26,909 21,000 37,900	18 250	24,540 20,500 33,878	17 300	23,042 20,200 30,816	-	Rank	14,352 18,200 22,164	24,241 20,788 18,850 29,285 18,605	10 X 10 15 4	40 40 37½ 40 40	Y Y Y Y	11/1 11/X 13/2 10/2 11/1½	- 3 - -	7-32 X 12-20 10-25 10-30	12/36 12/X UNL 12/— 120/NA	x = =	VAR .20 	\$300 \$370 \$850 \$325 \$350	= = =
n n	Bossier City, LA. 97 *Bristol, CT. 91 *Brownsville, TX. X *Buena Park, CA. 92 Carnden, NJ. 282	22,0 32,8 36,8	00 40,00 84	23,982 21,006 33,720	25,680	19,427 30,288	22,929	19,118 17,992 24,804	20,472	21,312	18,595 26,748	18,499 13,168 20,712	17,160 26,148	10 2 4 31/2 5	40 37½ 40 40 40	Y Y Y Y	6/2 13/1 10/1½ 10/1½ 14/1	XXX	15-30 10-20 15 10-20 15-25	12/X 5/150 30/X 12/X 18/X	35% 50% 50%	Y 	\$320 \$350 \$360 \$325 \$600	- X - - \$250
•.	Canton, OH. 191 *Casper, WY. 86 *Charleston, WV. 14 *Cheyenne, WY. 84 *Chicopee, MA. 102	34,6 34,6	68 42,13 29.68	31,668 25,248	25 530	29,160 22,090 23,916	22 630	27,324 19,977 22,596	20 807		_	18,480 15,491 14,880	20,000 24,756 19,977 23,916 16,448	2 5 18 7	40 40 40 40 371/2	Y Y Y Y	10/11/2 11/11/2 13/11/2 12/11/2 2/11/2	1 5 X - 3	7-42 18-20 15-20 10-25 10-28	7/365 18/UNL 15/45 604 15/X	100% 45d 50% \$1,750	.15/.22	\$510 \$300 \$400 \$720P \$300	
	*Chula Vista, CA. 93 Cicero, R. 90 *Clearwater, FL. 185 *Ciriton, NJ. 135 *Columbia, MO. 90	29.3	32,000 48,446 32 38 116	26,835 24 118	29,000 31,045 31,355	25,603 21,676	26,940 29,580 28,436	24,390 22,575	25,328 27,497 25,700	19,015	20,921 +350	19,015 15,618 18,001	23,774	4½ 19 5 5 VAR	40 40 40 38¼ 40	YYY	7/1½ 10/X 9/2 8/1½ 6/1½	3 2 3	10-20 14-35 10-20 14-22 10-20	96/UNL 45/ 15/ 15/UNL 18/UNL	25d 50%	N 544/794 .265/.265	\$500 \$350 \$720	\$200 UNL ALL
	Costa Mesa, CA 123 *Council Bluffs, IA 56 *Cranston, Pl 135 *Decatur, IL 125 *Des Ptaines, IL 95	27 6	- 35,533 - 30,673	22,092	25,284 25,594	20,088	22,980 21,660	18,264	20,862 19,692	~	19,560 19,692	18,057	15,636 18,056	4 25 3 4 6	40 40 37½ 40 40	YYYY	11/1 11/1 12/2 11/1 10/4/1	=	11/1-231/1 10-25 16-26 10-20 10-25	12/90 (1807) 20/120 12/135 12/90+	20% \$5/d 50%	\$150y	\$286 \$600 100% \$300 \$390	X \$425 X
	*Dothan, AL	0p 46,8 27,9	n Oper 72 56,964 96 33,945	18,688 37,596 22,360 24,865	25,868 45,708 26,478	16,120 30,127 21,413	22,314 37,322	13,500 27,069 19,698 19,799	18,693 33,532	24,988 20,858	30,956 21,930 19,397	10,977 22,450	15,195 27,812 20,709 19,038	VAR 3½ 4 4 6	40 40 40 38 40	Y	9/1 11/1½ 10/2 11/1 13/1	1 1 X X	12-18 10-20 10-25 5-25 16-21	18/90 12/UNL 12/120 15/UNL X	50% 50% 50%L	.10/.15	\$400P FURN \$250 \$200 \$400	 \$120
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TABLE 2 (cont.)

İ			H	IEALTH I	BENEFIT	rs					PEN	SION	•			DISABIL	лү	SURVIVO BENEF	DA'S TT		EDU	CATION	AL	1	LEGAI			
•	Pais Hospitelization	Maximum Days Coverage	Major Medical Maximum	Paid Basic Dental	Paid Other Dental	Orthodontics Limit	Pakii Vision	Pald Prescription	After 20 Years	After 25 Veers	Alter 30 Years	Atter 35 Years	Minimum Age Minimum Years	Menimum Years For Vesting	Compusory Petinement Age	Service Retained Minimum Years % of Salery	Non-Service Menimum Years % of Salary	Service Paterad	Non-Service	Social Security % of Write-Off Against Pension	80 Cradits	120 Credits	Master's Degree	Amount of Life insurance Provided by Employer	Choice of Counsel	Civil Service Status	Collective Bargaining Bosistency Recuirement	MUNICIPALITY CONTROLL
	78% 100% 50%	- 30 365 120	\$1 MILL. 100% \$20,400	80% 100%	80% 100%	\$600 -	<u>x</u>	80% 82D	35% 4 50% 50%	50% 13.75% 50% 60%	7546 52.546 6 5046 7046	75% 31.25% 50% 75%	50/25 /20 55/X 50/20	10 (10) X (70 85	-/50% /60% /65%	10/50%L _ (ALL: 1-9):55 10/50%	25% 50% . 25%, 10 yrs. 509 65%	50%	N — Y — N =	\$90 X \$200 X	\$80 X \$450 X	10% \$	\$15,000 15,000+ \$15,000 X	N N Y	X Y X N X Y	' N '	Y N Y Y
	90% 100% 100% 100% 100%	45 X 120 None X	\$250,000 Y \$1 MILL. Nons X	70% X 100% 100% 90%	50% X 50% — X	\$1,000 X	\$25 X — 100% 90%	80% 100% 90%	5046 X 4046 4046	6544 6046 5046 5046	65% 31/2% 65% 60% 60%	65% 312% 70% 60% 60%	55/25 55/30 X/25 50/5 50/5	10 (20 (15 (5 (87 85	/50% /70% /40% /50%+ /50%	/50% X/3½% 5/40% /50% + /50%	50% 50% ½ PENS. 50% 50%	50% X 1/2 PENS. 50% 50%	N X	X \$69	3125 —	\$125	\$6,000 \$2,000 \$10,000	M A. M	M Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	N	N Y Y N
	100% Y 75% 100% 100%	X X UNL —	X Y UNL —	N 75% 80% 25%		-	X — 50%	Y 	50% 50% 50% 43%	60% 60% 50%	70% 70% 53%	75% 75% 53%	50/20 62/X 41/20 50/20 /25	20 20	80 62 85 70	-/65% X -/55% 1/50%	10/50% X /55% 1/50%	- 65% X 55% 25%	50% X 55% 25%	N - X N - X N - N	- - -	<u>x</u>	×	\$10,000 X \$11,000 \$12,000 \$10,000	N T	N Y X Y N N X Y	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Y N Y N Y
3	100% 100% 100% \$100 Y	X X — VAR 365	None \$100,000 \$1 Mill. VAR		50% X	- - x -	<u>x</u>	80% 100% 80% X Y	3%y 40% X (Ca	396y 5096 X Mif. Highw 6096	396y 5096 X xay Patro 6599	3%y 50% X ol Plan) 65%	50/20 43/25 55/15 50/55 /	10 20	70 X	X/60% X X/66 ⁷ / ₂ % X 5/66 ² / ₂ %	10/21416y X — X 5/40%	967/446 509/6 (1 yr. X	\$200m X Salary)	N N Y 13.4% N N	X \$15 \$30	X \$30 \$60 \$10	_x _x _x	10,000 + \$8,000 X \$7,500	N N Y Y	X Y N N N Y Y N	N 1 Y 1 Y 1 Y 1 Y 1	N Y Y N
	100% 80% 100% 100% 50%	365 365 X 365 120	\$5,123 \$100,000	50%	-	50%	1 1 1	80% 80% \$1000 90%	30% 50% 60% 50% 2.0%		67/446 62.5% 70% 2.5%	72% 62.5% 70% 	48/25 41/20 50/20 41/20 55/20	10	 65 60 65	-/72% -/62.5% 5/60% -/62.5% X/72%	5/60% 5/60% /50%	16½% 	18½% 30% 50%	N N N N	\$40 \$30 X 10%	\$60 \$50 X 20%	\$60 \$60 X 25%	\$10,000 100% \$10,000 1xSAL \$2,000	N N Y N	H Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	/ N / N / N / N / N / N / N / N / N / N	Y N Y N
	100% 100% 100% 100% 100%	UNL 45 X 120 70	\$1 MILL. \$250,000	50% 70%		\$1,000	=	80% 100% 100%	50% 50% 50% 40%	50% 60% 62.5% 60% 50%	50% 70% 75% 65%	50% 75% 87.5% 65%	50/15 50/20 /20 /25 /25	X 10 15	65 63 — 85 70	/50% 10/50% /75% /662/4% 1/50%	5/X -10/2½% 5/40% 1/50%	25% X 75% 50% 50%	25% X 2½% — 50%		21/2% \$60 \$1,200 \$1,099	5% \$130 \$4,780		\$3,000 \$5,000 \$20,000 \$10,000 11/2xSAL	X N N	X Y X X X X X X X X X X X X X X X X X X	(Y)	N Y N Y
	20% 75% 100% 100% 100%	365 180 365 120 120	\$250,000 90%	100%	50%	\$1,500 	- - -	90% 90%	40% X 50% 50%	50% 50% 60% 80%	80% 50% 70% 70% 70%	7046 5046 7046 7546 7546	50/10 55/22 /15 50/20 60/20	15 20 10	60 65 65 62 70	1/55% 5/66% /50% /65% /65%	1/65% 5/40% /50% 10/50%	VAR - 50% 887/16 85% 50%	VAR 25% 66%% 50% 50%	N	\$48 \$2,000	\$70 \$110 \$3,000 —	_	\$AL \$5,900 \$10,000 \$5,000 110,000+	M M M	M A A A A A M M M M M M M M M M M M M M	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	N Y N Y
	8546 10046 10046 X 10046	385 100	\$250,000 \$250	100% 80% 25%	70% 50%	\$500 \$50	100%	100% 100%	2%y 42% 2%y 40%	50% 2.7%y 50% 50% 60%	55,544 7544 5044 8046 6546	60.546 5046 7046 6546	55/25 50/20 55/15 /25 X/25	5 15 15 10	60 65	/100% /50% /56% /50% 5/567///	10/296y 5/1.846y 5/4096 5/X 5/4096	(Pensid 50% 50% 50%	on Contrib.) — 50% 50% 2%yL	N H N X	5%	5W%	51/296	\$5,000 \$4,000 \$9,000 \$15,000	N		, A	M
•	100%	365 X		100%	X	50%	100%	100%	50%	80% 80%	7046 8546	70% 65%	/20 X/25	10 15		-/5674Mi 5/6544	10/25% 5/38%	50% 50%	20-50% 25%		\$2,000 \$900		\$3,500 —	\$10,000 V±xSAL	Ä	N Y		N N

received data from 40 agencies with populations ranging from 300,000 to 1,000,000. Like the FOP, the Kansas City General Administrative Survey chose not to analyze the data, but simply presented the statistics in raw form and in summary tables. The Kansas City survey included more data than the FOP survey, for not only are salaries, benefits, and educational requirements included, but vehicles, computer services, personnel deployment, review boards, promotional policies, patrol shifts, and total budgets per capita are given.

The ICMA's <u>Municipal Yearbook</u> presents police data alongside two other public safety related fields—the fire department and sanitation department. In general the ICMA briefly summarizes the data and presents the information in tabular form. Statistics are limited in scope, usually confined to budgets, numbers of sworn and civilian personnel, and some fringe benefit information (though not itemized to the degree of other surveys). Compared to the FOP and Kansas City surveys, the ICMA survey is less comprehensive.

On occasion, however, the ICMA will publish results of broader surveys along with an analysis of the data. The most recent report appeared in 1982, entitled "Police Personnel Practices" and written by James J. Fyfe, Associate Professor of Justice at the American University. The data were collected through a mail survey by the ICMA in the summer of 1982. Questionnaires were sent to municipal police chiefs in all cities 10,000 and over in population. A second request was sent to cities that did not respond to the first questionnaire. Table 3 shows a breakdown of cities surveyed by population, region, division, metro status, and form of government. A total of 2,585 cities were surveyed, with 1,267 (49%) responding. Fyfe's analysis focused

TABLE 3*
SURVEY RESPONSE

	No. of cities		mber onding
Classification	surveyed (A)	No.	% of (A)
Total, all cities	2,585	1,267	49.0
Population group			
Over 1,000,000	6	2	33.3
500,000-1,000,000	17	10	58.8
250,000- 499,999	34	18	52.9
100,000- 249,999	113	75	66.4
50,000- 99,999	277	134	48.4
25,000- 49,999	611	322	52.7
10,000- 24,999	1,527	706	46.2
Geographic region 1			
Northeast	748	297	39.7
North Central	744	393	52.8
South	654	323	49.4
West	439	254	57.9
Geographic division			
New England	310	121	39.0
Mid-Atlantic	438	176	40.2
East North Central	535	271	50.7
West North Central	209	122	58.4
South Atlantic	272	156	57.4
East South Central	135	58	43.0
West South Central	247	109	44.1
Mountain	112	73	65.2
Pacific Coast	327	181	55.4
Metro status			
Central	431	242	56.1
Suburban	1,542	717	46.5
Independent	612	308	50.3
Form of government			
Mayor-council	1,096	470	42.9
Council-manager	1,240	697	56.2
Commission	104	50	48.1
Town meeting	100	31	31.0
Rep. town meeting	45	19	42.2

Geographic regions: Northeast-the New England and Mid-Atlantic Divisions; North Central-the East and West North Central Division; South-the South Atlantic and East and West South Central Division; West-the Mountain and Pacific Coast Division. See Table 1, footnote 4, for states included in the regions.

^{*}Reprinted from Table 13 of J. Fyfe, "Police Personnel Practices," Baseline
Data Report, Vol. 15. January.

upon the problems departments face with regard to budget cuts. Fyfe demonstrated that police departments in the 1980s are "hit hard by inflation" (p. 2). He showed that nearly two-thirds (65.3%) of the police departments that responded to the ICMA survey reported that their budgets had not kept pace with the rate of inflation over the previous three years. Furthermore, he indicated that of the departments that did not keep pace with inflation, 588 suffered actual losses in budgets or have lost other sources of funding (see Table 4).

Fyfe also examined personnel strength, selection criteria, residency requirements, training, and other personnel issues. He found that minorities and women remain underrepresented in policing: that of the departments that responded to the survey, the minority composition of departments averaged 7.6% and the female composition averaged 3.6% (Table 5). In terms of selection criteria, 78% of the cities reporting used written exams, 58.1% used physical performance tests, 99% used background investigations, and 98% employed medical exams. Only three departments of the 1,087 departments that responded to the question about minimum educational standards reported requiring a four-year college degree, and the great majority (79.5%) required a high school or general equivalency diploma. Overall, Fyfe's appraisal of police personnel practices appears gloomy given the problems with budget cuts in recent years. He leaves open the question of how deep and long-lasting the effects of these cuts will have on the future of policing.

In 1977 the Police Foundation continued the Kansas City survey by publishing Police Practices: The General Administrative Survey, edited by John Heaphy, an assistant director at the Foundation. The Foundation

Impact of Inflation on Departments' Budgets

				t budget has with inflation			If budget no has it actual	ot kept pace ly been cut		
	No of cities		res	1	No		Yes		No	
Classification	reporting (A)	No.	% of (A)	No. (B)	% of (A)	No.	% of (B)	No.	% oi (B)	
Total, all cities3	1,239	430	34.7	809	65.3	58 8	72.7	195	24.1	
Population group										
Over 1,000,000	2	1	50.0	1	50.0	1	100.0	0	0.0	
500,000-1,000,000	10	2	20.0	B	80.0	7	87.5	ĭ	12.5	
250,000- 499,999	18	7	38.9	11	61.1	9	81.8	1	9,1	
100,000- 249,999	73	20	27.4	53	72.6	41	77.4	10	18.9	
50,000- 99,999	133	39	29.3	94	70.7	79	84.0	14	14.9	
25,000- 49,999	316	118	37.3	198	62.7	141	71.2	52	26.3	
10,000~ 24,999	687	243	35.4	444	64.6	310	69,8	117	26.4	
Geographic division ⁴										
New England	121	40	33.1	81	66.9	67	82.7	10	12.3	
Mid-Atlantic	171	62	36.3	109	63.7	89	81.7	14	12.8	
East North Central	263	76	28.9	187	71.1	147	78.6	35	18.7	
Wast North Central	118	39	33.1	79	66.9	58	73.4	17	21.5	
South Atlantic	152	57	37.5	95	62.5	53	55.8	41	43.2	
East South Central	58	17	29.3	41	70.7	23	56.1	15	36.6	
West South Central	109	48	44.0	61	56.0	27	44.3	32	52.5	
Mountain	73	28	38.4	45	61.6	34	75.6	10	22.2	
Pacific Coast	174	63	36.2	111	63.8	90	81.1	21	18.9	
Metro status ⁵										
Central	238	61	25.6	177	74.4	146	82.5	26	14.7	
Suburban	698	264	37.8	434	62.2	313	72.1	108	24.9	
Independent	303	105	34.7	198	65.3	129	65.2	61	30.8	
Form of government ⁶										
Mayor-council	459	143	31.2	316	68.8	240	75.9	63	19.9	
Council-manager	630	259	38.1	421	61.9	300	71.3	113	26.8	
Commission	50	14	28.0	36	72.0	18	50.0	15	41.7	
Town meeting	32	8	25.0	24	75.0	19	79.2	3	12.5	
Rep. town meeting	18	6	33.3	12	66.7	11	91.7	1	8.3	

Respondents were asked "Has your departmental budget kept up with infistion {i.e., yearly percentage increases have equaled or exceeded the rate of inflation) for the past three years?" and "If No, has your police department had any budget cuts and/or other sources of funding cut back in the last three years?"

Percentages do not total 100% because 26 departments did not specify whether their budgets had been cut.
 The term cities is used in this and the following tables to refer

5 Metro status: Central—the city(res) actually appearing in the standard metropolitan statistics: area (SMSA) title; Suburban—the city(res) located within an SMSA; Independent—the city(res) not located within an SMSA.

to othes, villages, towns, townships, and boroughs.

*Geographic divisions: New England—the states of Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont, Mid-Allantic—the states of New Jersey, New York, and Pennsylvania; East North Central—the states of Illinois, Indiana, Michigan, Ohio, and Wisconsin; West North Central—the states of Iowa, Kansas, Minnesota, Missouri, Nobraska, North Dakota, and South Dakota; South Allantic—the states of Delaware, Florida, Georgia, Maryland, North Carolina, South Carolina, Virginia, and West Virginia, plus the District of Columbia; East South Central—the states of Alabarra, Kentucky, Mississippi, and Tennesses, West South

Cantral—the states of Arkansas, Louisiana, Oklahoma, and Texas; Mountain—the states of Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming; Pacific Coast—the states of Alaska, California, Hawaii, Oregon, and Washington.

Forms of government. Mayor-council—an elected council serves as the legislative body with a separately elected head of government; Council-manager—the mayor and council make policy and an appointed administrator is responsible for the administration of the city; Commission—a board of selected commissioners serves as the legislative body and each commissioner is responsible for administration of one or more departments; Town meeting—qualified voters meet to make basic policy and choose a board of selectmen to carry out the policy; Representative town meeting—representatives selected by citizens vote at meetings, which may be attended by all ottizens.

^{*}Reprinted from Table 1 of J. Fyfe, "Police Personnel Practices," Baseline Data Report, Vol. 15 January.

TABLE 5*

Minorities and Women in the Police Service

·	Percent fi paid sworn that are m	personnei	Percent full-time paid swom personnel that are women				
Classification	No. of cities reporting	Mean (%)	No. of cities reporting	Mean (%)			
Total, all cities	1,173	7.6	1,173	3.6			
Population group							
Over 1,000.000	2	26.5	2	7.5			
500,000-1,009,000	10	24.5	10	5,9			
250,000- 499,999	18	16.8	18	7.3			
100,000- 249,999	68	11.1	67	5.1			
50,000- 99,999	123	9.3	123	3.9			
25,000- 49,999	294	6.9	304	3.4			
10,000- 24,999	658	6.8	649	3.2			
Geographic division							
New England	110	3.0	109	2.5			
Mid-Atlantic	166	3.8	167	1.2			
East North-Central	251	4.0	. 255	2.4			
West North-Central	112	2.5	111	3.6			
South Atlantic	142	11.2	140	5.7			
East South-Central	57	12.6	54	4.6			
West South-Central	105	17.7	105	5.9			
Mountain	69	9.3	71	5.1			
Pacific Coast	161	11.9	161	4.2			
Metro status							
Central	225	11.8	224	5.0			
Suburban	659	5.5	663	2.9			
Independent	289	9.2	. 286	4.0			
Form of government							
Mayor-council	442	6.1	446	3.0			
Council-manager	641	9.1	637	4,1			
Commission	45	6.8	45	3.3			
Town meeting	28	2.2	28	1.8			
Rep. town meeting	17	2.8	17	2.2			

*Reprinted from Table 5 of J. Fyfe, "Police Personnel Practices," Baseline Data Report, Vol. 15, January.

broadened the scope of the Kansas City publication in three ways. First, it included more questions in the survey. Information on minorities, women, educational levels, calls for service, and firearms incidents was sought. Second, the Foundation requested statistics from departments that served jurisdictions of more than 250,000 in population. (The original Kansas City survey limited its requests to those departments that served 300,000 to 1,000,000.) And third, as editor, John Heaphy analyzed part of the data. In his analysis, Heaphy briefly examined seven sections of the data: 1.) Administration: finance; 2.) Administration: benefits; 3.) Personnel: Distribution; 4.) Personnel: Composition and Promotion; 5.) Equipment; 6.) Police Review; and 7.) Special Programs. In each section, ranges and medians were used to describe the data. For example, Table 6 shows the range and median numbers of women officers by rank. Forty of 49 departments responded to the question about female officers. Heaphy reported that "because of the great variability in these numbers, the range of the middle 50 percent of the responding police departments is indicated, as well as the low, median, and high numbers of female officers. Only 22 of the 40 responding departments report women at the rank of sergeant, only four report women at the rank of captain, and none report women at the ranks above captain" (p.13). Another example includes the discussion on equipment. In Table 7, the number of marked units per 100 sworn officers is presented. It indicates that the number of marked police vehicles per 100 sworn officers varies considerably, from a low of 4.5 to a high of 46.6. The medians for the three groups of departments are much more consistent however, falling in the range of 11.9 to 16.4 marked units per 100 sworn officers.

TABLE 6*

RANGE AND MEDIAN NUMBERS
OF WOMEN OFFICERS, BY RANK^a

RANK	No. of Depts			er of Officers	
		Low	Median	High	Range of Middle 50 Percent
Police Officer	39	1	24	625	16-46
Inspector/ Detective	12	1	5.5	17	2-8
Sergeant	22	1 .	1.5	32	1-2
Lieutenant	9	1	1	15	1-2
Captain	4	1	1	4	1
Other Law Enforcement Officers	1		1		

^aOnly the 40 departments that reported any women officers at all are included in the table, and only those ranks for which there are women in those departments.

TABLE 7*

NUMBER OF UNMARKED UNITS

PER 100 SWORN OFFICERS

City Size	No. of Depts.		s		
		Low	Median	High	Range of Middle 50 Percent
More than 1,000,000	3	6.41	9.74	34.04	
500,000- 999,999	. 17	0.20	12.83	39.67	6.57-17.33
250,000- 499,999	25	2.91	14.56	31.78	10.65-19.42

^{*} Reprinted from Table 24 in J. Heaphy, <u>Police Practices: The General Administrative Survey</u>, 1978 (Washington: Police Foundation).

^{*} Reprinted from Table 33 in J. Heaphy, Police Practices: The General Administrative Survey, 1978 (Washington: Police Foundation).

Heaphy gives three cautions on the interpretation and use of data. First, he says that "no suggestion is made or implied that these data are in any way normative." Second, Heaphy warns that definitions for many of the terms used in the survey were not standardized. For example, the title "inspector" may be used in one department to denote an individual who functions as a detective, while in another it refers to a high ranking command person. No attempts were made to clarify all of these distinctions. Third, the variation in administrative data systems gives problems to the report. A universally comparable system of record-keeping among police departments is non-existent and as a result some departments may keep better records than others and uniformity might be lost.

The Police Executive Research Forum's <u>Survey of Police Operational</u> and <u>Administrative Practices — 1977</u> can be viewed as an extension of the Police Foundation's <u>General Administrative Survey</u>. Both used the same questionnaire, and both presented their data in similar fashion. One distinction that emerges is that the Police Executive Research Forum sent its survey to its membership rather than cities in a certain population group. PERF members include departments whose chief has a college degree and serves a jurisdiction of over 100,000 in population.

The PERF publication included summary tables, raw data, and a partial analysis of some variables. Four areas were covered in the analysis section — administration, personnel distribution, equipment, and complaints and firearms incidents. In the administration area, the Forum found a wide variation in per capita costs of policing. The southern cities consistently had the lowest median per capita costs, and the northeast/north central region had the highest per capita costs.

The analysis of personnel distribution included discussions of motor and foot patrol shifts; the percentage of civilians, women and minorities in Forum departments; and the college requirements for police officers. Descriptions of computer services and vehicle use were part of the equipment section. Complaints against the police, the number investigated, and the number substantiated were examined in the last section. The Forum reported a wide variation in the complaints received and the complaints substantiated. Without a more detailed study and analysis of individual departments, however, the Forum could not determine the reasons for the high levels of complaints in some agencies and the low levels in others.

The Forum publication also pointed out a number of important caveats and problems of the dataset. First, Forum staff made no attempt to verify or validate each department's specific survey responses. Second, the definitions of various terms used in the survey varied significantly among departments. Third, the level and quality of administrative data, varied substantially across the departments. Fourth, "the exigencies of publication made it necessary to provide highly abbreviated summaries of very complex practices" (p.3). And finally, the Forum warned that the report was purely descriptive in nature, and that "it would be erroneous to assume, that the median reflects good practice, or that those departments which fall above or below the median are somehow succeeding or failing in achieving professional standards of policing. With no standards for measuring acceptable police operational or administrative practices, these data must be taken as simply a picture of the state of the art in 47 police departments taken at one moment in time" (p.4).

The IACP collected and analyzed a particular aspect of process data -- the personnel selection criteria and standards of police at the state and local levels. Eisenberg et al. (1973) surveyed 493 agencies with 50 or more sworn police personnel and focused on selection and promotion procedures. The researchers found a number of differences and similarities across department size and jurisdiction. For example, while both county and municipal agencies indicated a greater extent of employment of minorities, state agencies more frequently reported the use of special recruiting and/or selection procedures for minorities. Minorities tend to be employed more often as sworn personnel in county agencies and as nonsworn personnel in municipal departments. Recruitment techniques, provisions for lateral entry, promotional factors, performance appraisal systems, and procedures for appeals and grievances were all generally similar across types and sizes of agencies, although larger departments appeared to use more varied and formal procedures. Awards or commendations and peer ratings were infrequently used across agency type and size, and civilian review boards were virtually non-existent.

In the Police Services Study, Elinor Ostrom, Roger Parks and Gordon Whitaker describe the services of police agencies throughout the United States. The authors used an industry approach to their study. That is, they used concepts of producers and consumers of police services, which contrast with traditional research based on an organizational approach. The industry approach permitted an exploration of "interorganizational" arrangements for service delivery. The areas studied by Ostrom et al. were Standard Metropolitan Statistical Areas (SMSAs) under 1.5 million in population and lying within only one state.

A random sample of 80 SMSAs was selected from 200, thus making the results more generalizable to the population. Data were collected from state sources and from individual police agencies during the last half of 1974 and 1975. Interviews, either in-person or telephone, mail surveys, and mixed methods were used to confirm their data. Ostrom et al. describe the quality or the climate of the interviews as well, giving further confidence to the general quality of their data. In all 1,761 producers of police services in the 80 SMSAs participated in this study.

The Police Services dataset is currently on-line and available on computer tape through the Criminal Justice Archive and Information Network (CJAIN) which is a part of the Inter-University Consortium for Political and Social Research (ICPSK). The Police Services dataset for 1974-75 contains three files. The first contains information for the 1,761 producers. The second file contains information for 1,885 consuming units. The third file involves the relationship between the producers and the consumers and is summarized in matrix form. The first file on producers is of primary concern to this report, for it involves process data.

Fourteen areas involving administrative and operational practices that we define as process data are delineated in the first file. Geographical information, organizational structure, number of officers by rank, number of precincts and autos, collective bargaining, eligibility requirements, salary, training, traffic control, criminal investigation, dispatching, emergency services, miscellaneous services, cooperative arrangements, and financial information are included (see Appendix B for the complete variable list.)

In their analysis, published by Ballinger in 1978 as <u>Patterns of Metropolitan Policing</u>, Ostrom et al. describe four areas that involve process data: general area patrol, traffic control services, criminal investigation, and auxiliary services (radio communications, adult pretrial detention, entry level training, and crime laboratory analysis.)

Ostrom et al. found that municipal and county police agencies conducted the bulk of patrol work in most SMSAs. Campus police, military police, and other special district police were important in some SMSAs. General area patrol duties occupied the largest number of personnel in most local police agencies. Data on the agencies conducting patrol service, the operational organization of patrol agencies, patrol deployment and citizen-to-patrol officer ratios, variations in patrol practices, and the relationship between agency size and operational structure were presented in tabular form.

Ostrom et al. found that traffic control services were conducted primarily by local police agencies, though state police and highway patrols made important contributions. Cooperation among the agencies was common especially in areas where major thoroughfares crossed jurisdictions. In terms of criminal investigations, the researchers found that local police agencies investigated more residential burglaries than homicides. Small municipal, campus, and special district police agencies were least likely to investigate homicides. Often smaller agencies coordinated their efforts with those of detectives from another department.

Auxiliary services (radio communications, adult pretrial detention, entry level training, and crime laboratory analysis) were

designed to serve police agencies, and therefore viewed differently from police services supplied directly to citizens. The researchers found that with the exception of radio communications, the proportion of direct service producers who also produced their own auxiliary services was quite low. That is, the smaller agencies that supply direct services seldom had detention facilities, training academies, and crime labs of their own and therefore shared with others. The large direct service agencies were more likely to produce their own auxiliary services; yet Ostrom et al. could find only one of the 1,454 local producers in the 80 SMSAs that supplied all the services studied.

Overall, Ostrom et al. found considerable interdepartmental communication and coordination of services. They discovered a rich network of interrelationships among agencies especially with regard to the auxiliary services. The researchers also broadened the scope of law enforcement statistics by concretely demonstrating that the data could be used for day-to-day administrative decisionmaking.

STATE AGENCIES -- STATISTICAL ANALYSIS CENTERS

State agencies also collect law enforcement statistics, primarily process data. According to the Criminal Justice Statistics Association, six states currently collect and publish data through their respective Statistical Analysis Centers (SACs). Iowa, Idaho, North Carolina, North Dakota, New Hampshire, and Ohio gather statistics on a limited basis. The most extensive state-wide collection occurs in Iowa, where Marcia Cohan has accumulated data from sheriff's departments and municipal departments for the past six years (1979- present). Data from the Iowa police agencies usually include salries, benefits, budgets, personnel

TABLE 8*

departmental policies, training, and educational information, requirements.

The Iowa SAC works with the state associations of chiefs of police and sheriffs to determine the type of data that the police want annually. The chiefs and sheriffs prioritize their needs, and based on an evaluation of those priorities, the Iowa SAC modifies its questionnaire (see Appendix C). Data that are not needed on an annual basis, such as statistics on departmental policies and training are eliminated. Table 8 shows the data collected by the Iowa SAC for 1981, 1983, and 1984. The table illustrates the type of statistics gathered and not gathered based on the demands for them by the chiefs.

By working cooperatively, the response rate for the survey is particularly high (for sheriff's departments the rate was 98 responses out of 99 surveys). In addition, the results are published on a timely basis, without the delays that are endemic to a number of collection efforts.

DATA COLLECTED BY SAC ON IOWA POLICE DEPARTMENTS

Salaries	FY	81	FY	'83	FY '	84
Low & high by rank Grouped acc'd. to ranges	•	x x		x . x	x x	
Personnel Benefits					••	•
Types of benefits offered	•	x		x	×	
Vacation, sick & holidays Comp. time & paid overtime .	•	X		×	x	
Second job allowance	•	x		X	x	
Restriction on second job		x x		X	X	
Pension system	•	x .		×	x x	
Departmental Budget						
Appropriations by category		x		x	x	
Federal funds	•	x ·		x.	X	
Manpower Strength						
Authorized, full-time		×		_	_	
Newly created, full-time	•	 X		-	_	
Filled, full-time by rank		x		x	x	
Filled, part-time (paid)	•	x		_		
Filled, part=time (unpaid)	•	x .			_	
Auxiliaries - auth. & filled .	•	x		x	×	
Employee Characteristics						
. Length of law enf. service		v	•			
Age ranges	•	Λ. Υ		•	×	
Sex and race (by rank)	•	r. X		x	-	
Education (by rank)		 X		.	X	
Currently enrolled in ed. prgm		 Х		_	×	
Types of ed. benefits offered	:				×	
Turnover and vacancies				-	x	
Departmental Policies						
Entrance requirements	. :	ic		_		
Educational requirements				- -	-	
Promotional requirements	. :	ĸ		-	_	
Entry-Level Training		~		. -		
Instructors	. ,					
Type of training		·• C		-		
Average number of hours						
Depts. requiring ILEA trng.				_	_	
before one-man car					-	
assignment	_		_			

^{*} Distributed by the Iowa Police Department from the Statistical Analysis Center 52

In-Service Training	FY '81	FY '83	FY '84
Required or optional Average number of hours	x	- - - -	x x - x x
Equipment			
Caliber of weapon Types of equipment Number of vehicles Replacement schedule Computerized operations .	x	- - - -	x x x - x
Activities			
Calls for service Investigations Function of staff	x	х х -	х х -
Crime Prevention			
Depts. with programs Types of programs Depts. planning prgms	x	- - -	х х х
Jail contracts			
Depts. under contract Daily cost/prisoner			· · · ·
Collective Bargaining			
Types of units		x x	x x

V. OUTPUT DATA

Output data are defined as statistics concerned with the performance of law enforcement agencies. Within this category we included arrests, clearance rates, convictions, citizen attitudes, use of force (by police and by citizens against the police), civil liability cases, and non-crime related services.

The Uniform Crime Reports are the most widely known national level data series on crimes known, arrests, and clearance rates. These data are collected annually through the FBI. Assessments of the strengths and weaknesses of the statistics are well-documented elsewhere, are the focus of the UCR redesign effort funded by BJS, and need not be addressed here.

USE OF DEADLY FORCE

The use of deadly force by the police and against the police has become a controversial topic over the last decade. One might expect that the importance of police violence would give incidents of shootings and assaults such visibility that counting them would not present a major challenge for research. But that has not been the case for data on violence by and against the police. Researchers and police administrators do not know the extent of shootings by the police on a national or state level. Information on the frequency of officers who are killed or injured are available in limited fashion from the FBI. The FBI has collected data on police officers killed in the line of duty since 1960 in the annual Uniform Crime Reports (see, e.g., FBI, 1981),

as well as figures on assaults and woundings. Data on civilians who have died at the hands of the police through shootings, chokeholds, or other methods have been publicly accessible through coroners' records, although questions have been raised about the completeness of these records (Sherman and Langworthy, 1979).

Historically, official records on use of deadly force by police were uncompiled or off-limits to outsiders (see Geller, 1979). In the last few years, however, a number of city police departments (e.g., Chicago, New York, Kansas City, Los Angeles, Washington, D.C.) have been willing to reveal data on police-involved shootings to researchers and the public generally. Studies by the Police Foundation (Milton et al., 1977), James J. Fyfe (1978), William Geller and Kevin Karales (1981), Marshall Meyer (1980), Mark Blumberg (1983), Craig D. Uchida (1982), and Kenneth Matulia (1982) disclose pertinent information about police shootings using official records.

Many of the empirical researchers have tried to explain patterns of shootings, within or across police departments. A number of factors have been examined to help determine the number and type of shootings — community characteristics, state law and administrative guidelines, situational variables, and individual characteristics. These studies have found that cities vary considerably in the number of shootings they experience. Another important finding in the literature suggests that a number of civilians are shot by police while engaging in conduct that does not imperil life. This finding is often linked to the problems associated with the "any felony" guideline of the common law.

The empirical studies of individual departments give clues to the type of data that need to be collected on a national level. Only two

studies have collected data nationally on deadly force, and only one of those two works have analyzed the data. Kenneth Matulia (1982) collected and analyzed data through a National Institute of Justice grant. With the IACP, Matulia conducted a survey of 57 police departments to determine the character of justifiable and unjustifiable homicides committed by the police. Matulia's work was a one-time-only study and did not reveal information on non-fatal exercises of deadly force (injuries, misses and accidentals).

The <u>Survey of Police perational and Administrative Practices</u> (Police Foundation and PERF, 1981) was the only other national survey that collected some data on the use of deadly force by police. These data were limited to four variables — the number of officers who discharged a weapon, the number of incidents that involved a firearm, firearm incidents that involved injury, and firearm incidents that involved a fatality. Of the 122 police departments that participated in the survey, 105 reported figures for each of the four questions. This suggests that large departments (those that serve jurisdictions of over 100,000) currently maintain statistics on deadly force and show some willingness to divulge that information.

CIVIL LITIGATION CASES

According to a survey conducted by the IACP on behalf of the Americans for Effective Law Enforcement, the number of civil suits brought against the police throughout the United States doubled between 1967 and 1971 (Schmidt, 1974). About 20 percent of the suits were filed in federal court, primarily under the Civil Rights Act of 1871

(specifically, section 1983). The majority of the suits (67.8 percent) alleged false arrest or brutality. Of the total number of suits initiated against the police in 1967-1971 only 3.8 percent were "lost" by police defendants.

During the period covered by the IACP survey, civil rights misconduct cases were brought against individual officers rather than the police department itself. This occurred because of the Supreme Court's ruling in Monroe v. Pape in 1961. In this case, the Court refused to hold the Chicago Police Department liable for a warrantless search and ransacking of a family's home and the illegal detention of the head of the household. The court stated that the proper avenue of citizen redress was against individual police officers rather than the police department because municipalities were categorically immune from liability.

In 1978, however, the Supreme Court broke with Pape in its landmark decision, Monell v. Department of Social Services of New York City. In Monell the court ruled that local governments have no absolute immunity from damage suits for civil rights violations under section 1983 of the Civil Rights Act. The decision opened the door for suing police departments and other municipal agencies. The Monell ruling will make it easier to bring and win civil rights suits against police departments and other units of local government. The decision may also encourage citizens, to sue the department rather than individual patrol officers or police administrators because of the lucrative incentive for doing so. The case may also prompt police departments to establish legally defensible written policies covering a wide range of ministerial and discretionary patrol practices, fearing that failure to specify

standards of performance may make them more vulnerable to successful civil rights suits.

No information is currently available on civil litigation cases. Data on the cases, the circumstances that led to them and their dispositions would be useful to the police, government officials, and researchers.

NON-CRIME RELATED SERVICES

Police involvement in non-crime related services includes dealing with community watch programs, emergency services (ambulance service), schools, and public health. For the most part, these areas have been neglected in collection efforts, with the exception of Ostrom et al. Their Polices Services Studies included information on school crossing guards, ambulance services, coroner services, parking meter collection, animal roundups, and civil process serving.

VI. SUMMARIZATION OF DATA

To sum up the three sections on input, process, and output data we have developed a table that compares the data collection efforts across a number of items (Table 9). For this comparative table, the most recent publications for the Fraternal Order of Police (FOP), International City Management Association (ICMA), and Kansas City Police Department (KCPD) were used.

Overall, these data collection efforts vary in breadth and depth depending upon the priorities and needs of the collectors. All of the enterprises used survey questionnaires to gather data, with the Ostrom group using additional methods to validate their information. The content of the questionnaires also differed. The Police Executive Research Forum (PERF), the Police Foundation (PF), and the joint PERF/PF endeavor included input, process, and output data. The Fraternal Order of Police (FOP) and ICMA requested only process information.

Some studies asked more detailed questions than others. For example, Ostrom et al. requested financial information not only on salaries and budgets (as did KCPD, PERF, PF and PERF/PF), but also on the sources of revenue and the amounts of contributions to pensions.

Most of the reports identified the departments that participated in the surveys, though the International Association of Chiefs of Police (IACP) and the National Association of Criminal Justice Planners (NACJP) chose to allow the agencies to remain anonymous for purposes of confidentiality.

Analysis of the data ranged from no analysis (FOP, KCPD, PERF/PF) to selective interpretation (ICMA, PERF, PF, IACP, NACJP), to

TABLE 9 COMPARISON OF DATASETS BY DESCRIPTIVE VARIABLES

	FOP	ICMA	KCPD	PERF	PF	PERF/PF	IACP	NACJP/BJS	OSTROM:	IOWA SAC
Sample size	N=1,065 state & municipal police depts.	N=6,943 ⁸ municipalities	N=40 municipal	N=45 municipal & county	N=50 municipal	N=122 municipal	N=493 state, municip & count		N=1,761 "producers"	N=202 municipal
Population sizes in (1000)	10,000 to 1,000,000+	2,500 to 1,000,000	300,000 to 1,000,000+	75,000 to 500,000+	250,000 to 1,000,000+	50,000 to 500,000+	NA	2,978 to 1,000,000+	NA	5003 to 191,003
Survey method	q*	Q	Q	Q	Q	Q	Q	Q	mixed	Q
Analysis	N	Y	N	Y	Y	N	Y	Y	Y	Y
Publication dates	1951 -	1939 -	1951-73	1978	1978	1981	1973	1983	1978	1979 -
ut Data:		-				•				
Calls for service	N N	N	N	Y	Y	Y	N	Y	N	Y
Crimes known to police	N	N	N	N	n	N	N	Y	N	N
cess Data:	4. · · · · · · · · · · · · · · · · · · ·			and the second second second second		-				, , , , , , , , , , , , , , , , , , , ,
Budget: salary by dept.	N	Y	Y	Y	. У	Y	N	Y	Y	Y
salary by rank	Ý	N	Y	Y	Y	Y	yf	N	Y	Y

a - 6,588 cities and other urban places 2,500 and over in population, 355 council manager and general management places under 2,500 population.
 b - reported anonymously
 f - new police officers only
 † Questionnaire

		FOP	ICMA	KCPD	PERF	PF	PERF/PF	IACP	NACJP/BJS	OSTROM	IOWA SAC
Process Da	ata (cont.) -										
Benefit Life	ts: e/death	Y	y c	Y	Y	Y	Y	N	N	N	Y
Disa	ability	Y	y c	Y	Y	Y	Y	N	N	Уc	Y
Pens	sion	Y	Υ .c	Y	Y	Y	Y	N	, N	Y	Y
Surv	vivors	, у	y ^c	Y	Y	Y	Y	N	N	Уc	N
Paid	d Leave	Y	y. c	Y	Y	, Y	Y	N	Y ^c	Y	Y
Person	nel: tribution	N	N	N	`Y	Y	Y	Y	Y	Y	Y
	ber of sworn civilian	Υ ^e	γ ^e	Y	Y	Y	Y	Y	Ý	Y	Y
6 Min	ority (race)	N	n ^d	N	Y	Y	Y	Y	N	N	Υg
·	ority (women)	N	N ^d	N	Y	Y	Y	Yg	N	N	Y
Entranc requ	ce: uirements	Y	N	N	Y	Y	Y	Y	N	Y	y ¹
late	eral entry	N	N	N	Y	Y	Y	Y	Ň	N	N
Educat: requ	ion: uirements	N	N	Y	Y	Y	Y	Y	N	Y	ĀŢ
leve	el of dept.	N	N	N	Y	Y	Y	N	N	N	Y

c - not itemized
d - aggregated only
e - civilian personnel not included
g - race not specified
i - for FY 1981 only

	FOP	ICMA	KCPD	PERF	PF	PERF/PF	IACP	NACJP/BJS	OSTROM	IOWA SAC
Education (cont.): Incentive pay	Y	N	Y	Y	Y	Y	N	N	Y	Υ ⁱ
Other: Training	N	N	N	N	N	N	N	. У	Y	Y
Traffic control	N	N	y ^h	Y ^h	Y ^h	Yh	N	Y	Y	N
Criminal investigation	N	N . :	y ^h	y ^h	Yh	γ ^h	N	Y	Y	Y
Promotional policy	N	И	Y	Y	Y	Y	Y	N	Y	γi
Shifts	N	N	Y	Y	Y	Y	N	N	N	N
Computer capability	N	N	Y	Y	Y	Y	N	Y	Y	Y
Vehicles	N	N	Y	Y	Y	Y	N	Y	Y	Y
Output Data: Appeals and grievances	N	N	Y	Y	Y	Y	N	N	N	N
Review boards	N	N	Y	Ÿ	Y	Y	N	N	N	N
Collective bargaining	Y	N	N	N	N	N	Y	N	. Y	Y
Legal support	Y	N	N	N	N	N	N	N	N	N
Firearms incidents	N	N	N	Y	Y	· Y	N	N	N	N

h - numbers of personnel only i - for FY 1981 only

Output Data (cont.): -	FOP	ICMA	KCPD	PERF	PF	PERF/PF	TACP			IOWA
State police	Y	N	N				LACE	NACJP/BJS	OSTROM	SAC
Emergency services			•1	N	N	N	Y	N	N	N
(ambulance)	N	n .	N	N						
Miscellaneous					N	N	N	N	Y	N
services (crossing guard, meter collection)	N N	N	. * N	N	N	N	N	Y		
									1	N

comprehensive analysis (Ostrom et al. and the Iowa Statistical Analysis Center).

METHODOLOGICAL ISSUES

A number of methodological issues were raised within these studies. Sampling, validity, reliability, uniformity, and comparability were addressed explicitly or implicitly.

All of the efforts used different criteria for their sample selection procedures. The ICMA sent questionnaires to all municipalities with 2,500 or more in population. The Kansas City Police Department was more selective, choosing the larger cities (300,000 to 1,000,000) for its work. The Police Foundation's version of the KCPD survey included all cities with 250,000 or more citizens. The PERF study in 1978 requested data from its membership of police chiefs and the FOP asked its state, local and subordinate lodges for information. Ostrom et al. randomly sampled 80 SMSAs from a pool of 200 SMSAs in the country with populations of less than 1.5 million and that were included within one state boundary. The IACP chose a different route entirely. The police chief organization sent questionnaires to departments with 50 or more sworn personnel. The Iowa SAC used similar criteria; it requested data from all municipal agencies in Iowa that had at least one full-time sworn officer (313 departments). The PERF/PF endeavor used 100,000 or more in population and PERF members (some were under 100,000) as their criteria. The NACJP study did not indicate its sampling technique.

An implicit problem within these studies is the validity of the

survey instruments. Most of the data collection efforts did not validate their questionnaires. That is, they did not insure that their instruments measured what they wanted to measure. It is unclear whether the data are good indicators of the abstract concepts under investigation. Only Ostrom et al. attempted to validate their data by drawing upon a number of sources for similar information. Ostrom et al. used survey questionnaires, reviewed state and local records, and conducted interviews with key personnel to measure police services. (This procedure also helped to ensure the reliability of their data).

Most of the other collection efforts acknowledged that validation did not take place. The Police Executive Research Forum wrote a statement that typified statistics gathering efforts: "Forum staff made no attempt to validate each department's specific survey responses. For this reason, the data are presented as they were reported by the participating Forum departments" (Farmer, 1978:2).

Another aspect of the validity issue involves the uniformity of statistics. Police departments do not use the same definitions and classifications of certain items, making statistical comparison difficult. For instance the Police Foundation reports that "such phrases as 'team policing' and 'complaints unsubstantiated' can have very different meanings in different departments." Furthermore, titles like "inspector" may denote an individual who functions as a detective in one department, while in another it refers to a high-ranking command person (Heaphy, 1978:2). Without a uniform reporting procedure, the likelihood of erroneous comparative analysis increases.

Another important problem involves reliability of the police statistics. Reliability refers to the extent to which a measuring

procedure yields the same results on repeated trials. Consistency and accuracy are important components of reliability. For law enforcement statistics reliability requires the consistent reporting of valid data by each department from year to year. To achieve consistency, police statistics must be accurate, complete, and timely.

The accuracy of law enforcement statistics varies by department and by compilers of the data. That is, some police agencies may have highly sophisticated and efficient methods of recording data, while others may not. Police statistics are gathered by a variety of individuals and accuracy is endangered because of it. Errors creep into reported data because personnel may fail to read available instructions, may fill out forms in haste, or may make simple counting mistakes. For example, in the PERF/PF publication in 1981 errors in addition, in key-punching and in tables were discovered after the manuscript went to press. Some changes were made, but others remain. These inaccuracies were attributable to the police who reported the figures, the computer key-punchers and the editors of the publication. The IACP study in 1973 tried to eliminate errors of accuracy and inconsistency by establishing a nationwide network of regional coordinators who checked the data obtained from local agencies. Twenty-one coordinators were "provided wih a checklist of questions and combinations of questions to review to insure accuracy, consistency, and completeness" (Eisenberg et al., 1973:3). Once the regional coordinators checked the data, the IACP project staff verified the information, once again resolving inconsistencies or omissions.

The other studies were not as careful. The FOP noted that "We cannot attest to the accuracy of the figures used in this survey as they

are compiled from information received from various police agencies" (FOP, 1983).

CONCLUSION

Because of the inconsistencies within all of the previous collection efforts, it becomes increasingly clear that a research plan include a solid methodological foundation. Sampling designs, validity and reliability concerns, and uniformity and comparability issues need to be addressed more fully if a national collection of law enforcement statistics is to take place.

VII. USERS' SURVEYS

Two surveys were conducted to determine the usefulness and availability of law enforcement statistics. The Police Executive Research Forum (PERF) was contracted to survey large police departments. The Institute of Criminal Justice and Criminology conducted a telephone survey of researchers and policymakers to ascertain their priorities and needs. This section reports the results of those surveys.

The Police Executive Research Forum distributed a 77-item questionnaire based on questions from the <u>Survey of Police Operational</u> and <u>Administrative Practices -- 1981</u> (see Appendix D). The questionnaire was sent to all police departments with 100,000 or more in population and all PERF members, for a total of 153 agencies. Ninety agencies (59 percent) responded to the survey.

The survey was designed to answer three questions about police administrative and operational information. The first question concerned utility. The Forum asked, "How useful or important is it that you have comparative, up-to-date information on the practices of agencies similar to your own?" The second question dealt with the availability of data: "How easy or difficult is it for your agency to provide the information in the requested categories or format?" The third question concerned the availability of the same or similar information from sources other than the Kansas City/Police Executive Research Forum/Police Foundation reports. For the question of utility, four responses were possible: high, medium, low or none. For the question on availability, possible responses included: available, modification (data were available, but some modification was necessary),

difficult, or not available. For the question on alternate sources of similar information, two answers were possible: "other" (the item is readily available from other alternative sources) or "unique" (the item was only available through the Kansas City/PERF/Police Foundation reports). Four open-ended questions allowed the police to discuss their preferences in the frequency of collection and publication of data; the unit of analysis; the format (printed report, computer tape, diskette); and additional statistics they would like to see.

The results of this survey allowed us to determine the priorities and availability of data within large police agencies. Overall, we found that input data were particularly useful to the police. The utility of process data ranged from low to high, and output data were of "medium" use. As for availability of the data, departments indicated that statistics were available either in the format requested or through modification. The open-ended questions showed that police supported annual collection and publication of statistics. The police preferred printed reports that used population and agency size as the units of analysis. The police also recommended about 50 additional variables that would be useful to them.

Table 10 illustrates the degree of usefulness of specific variables to the police. We have collapsed the 77 items on the PERF questionnaire to coincide with our comparative chart (Table 9, p. 47) in the previous chapter. Calls for service (input data) rated high in usefulness. The number of citizen calls by telephone; the number of calls responded to by dispatching a unit; the type of screening process for calls; and the number of calls handled by other methods received a majority or plurality of marks in the high utility column. One variable

TABLE 10
Utility of Statistics to Large Police Departments

(based on PERF survey)

USE

		0011						
Input data		l l	li Med	Lo	None			
Calls for se Crimes known		2	Not	available				
Process data								
Budgets:	Salary by dept. Salary by rank	1	X X					
Benefits:	Life/death Disability Pension Survivors Paid leave		X X X X					
Personnel:	Distribution No. sworn & civilian Minority (race) Minority (women)		X X X X					
Entrance:	Requirements Lateral entry			X				
Education:	Requirements Level of dept.		XX					
Other:	Incentive pay Training Traffic Crim. invest. Promotion Shifts (assignment) Computer Vehicles		X X X X	available available				
Output data	Civil liability		X					
	Appeals & grievances Review boards Collective bargaining Legal support Firearm's incidents State police Emergency services Miscellaneous		X Not Not X Not	available available available available available				

was rated low in usefulness and in availability -- the number of calls for information only.

For process data, budget (salary by department and by rank), employee compensation (including incentive pay), and promotion information rated high. Benefits, personnel, education, criminal investigation, shift assignment, computer operations, vehicles, and civil liability received medium ratings. Entrance requirements and lateral entry received low rankings for usefulness. Under output data, firearms discharge and review board information were seen as having medium use.

In terms of availability only two specific items (of 71 measured items) could not be readily obtained by a <u>majority</u> of police agencies. The dollar amount of civil liability payments (item 35 on the questionnaire) was available in 44 percent of the agencies, was available with modification in 23 percent, and was difficult to obtain or not available in 27 percent of the departments responding to the questionnaire. The lowest scores on availability came from item 21, the number of calls for information only. Figures for this variable were as follows: available in 23 percent of the agencies, available with modification in 14 percent, and difficult to obtain or not available in 59 percent of the departments. These scores contrast markedly with the overall availability of data, as all other items were at least obtainable in 62 percent of the agencies.

A number of departments recommended additional statistics for collection. More information was requested on training programs, especially topics taught, time devoted to each, and the type of in-service training provided. More data on response times for

emergency/non-emergency calls was sought. Output data, particularly citizen complaints (procedures, dispositions, and analysis) and the effectiveness of community watch programs were suggested.

In general, the Forum survey provided useful information on the statistics deemed important by the larger police agencies in the country. Unfortunately, the results of the survey may not apply to the smaller departments (those that serve jurisdictions of less than 100,000), so we cannot generalize to the entire population of police agencies. One conclusion that can be made from the survey is that we cannot eliminate any of the questions that have been asked in previous questionnaires. In fact, it appears that additional variables need to be added to our list to satisfy the major departments in the country.

TELEPHONE INTERVIEWS

Telephone interviews were conducted with police, researchers and policymakers in an effort to assess the usefulness and availability of law enforcement statistics (see Appendix E). The questions (see Appendix F for the questionnaire) addressed their areas of interest with regard to these statistics, the availability and accessibility of this information, the types of information lacking at present and the demands by the public for statistical reports (asked of police only).

In-depth interviews were conducted with three "progressive" police departments. Their primary areas of interest were similar to our findings from the PERF survey. Those interests focused on response time, calls for service, crime rates, workloads, assignments and budgets. The majority of this information is generated by each agency for its own use. Data which are unavailable from the individual agency's

records (computerized, for the most part) are sought from other sources: the UCR; the Sourcebook of Criminal Justice Statistics; surveys published by organizations such as PERF and the Police Foundation; and other police agencies. These sources provide a basis for regional and nationwide comparisons of budgetary information and promotional policies.

The police departments which were contacted were quite confident in their ability to generate the statistics necessary to meet the demands placed upon them for reports or for research. Several of these agencies produce statistical reports for distribution to the public covering such subjects as high/low crime areas and calls for service. Consequently, they felt no need for additions or deletions from the statistical reports available to them, nor did they feel that a change in the reports' formats was in order. Not all the information contained in the reports was of interest to each department.

Academicians and policymakers expressed interest in more specific areas, including:

- 1. deadly force (killings by and of police);
- 2. officer characteristics (race, rank,
 change over time);
- 3. arrest characteristics;
- 4. offense type and incidence:
- 5. spacial indicators (location of crime);
- 6. cities as units of analysis;
- 7. personnel figures; and
- 8. victimization and self reported crimes.

Academicians, like the police, tend to seek original sources for their information. Contacts within agencies provide the statistics. The UCR and the Sourcebook also provide invaluable information. PERF and Police Foundation-type reports do not rate as highly in their estimation due to the lack of accuracy in the data. However, the information contained therein is considered by some to be the best available for comparative and evaluative purposes.

Several suggestions were made as to the method to improve the present availability and accessibility of law enforcement statistics. Of premier importance is an exhaustive index of the data currently available. This index should contain statistics on deadly force (number of civilians shot by the police; dates pf death; jurisdiction of officer and officer status), arrest patterns and rates, police personnel characteristics (officer race by rank), crime clearances (on the spot arrests vs. arrests resulting from investigation), the incidence of "stop and frisk", stolen property (amount recovered vs. amount returned), and separate (not aggregate) offense categories. (Note: an interest was expressed in international comparative crime statistics. It was not addressed in this report because the sources under scrutiny are national in character and do not direct themselves to this topic.)

The findings from the telephone survey indicate that not surprisingly, researchers and policymakers have different priorities than the police, though some overlap does occur. Personnel figures, cities as units of analysis, officer characteristics are important to both the police and researchers. But academicians place a higher priority on crime information, particularly the arrest/non-arrest characteristics; offense type and location; victimization; and the use of deadly force.

VIII. RECOMMENDATIONS

This section presents recommendations for obtaining law enforcement administrative statistics on a national scale. From our historical overview and examination of existing datasets, we have found that data collection efforts are inconsistent at best and non-existent at worst. Complete and comprehensive statistics need to be collected nationally and on a regular basis. Based on findings from the users' surveys and from our literature review we recommend that work on the development of a national level series continue with the expectation that a collection effort would commence in the near future. Prior to the implementation of the series we recommend the following:

RECOMMENDATION 1: Setting Priorities.

We must determine exactly which statistics are essential and establish priorities for the types of statistics that should be collected and reported. Indications of priorities were partially established through the user's survey, but we need to expand on it to include smaller agencies. We recommend that another survey be sent to a random sample of smaller departments to determine their priorities, and that further analyses be conducted of the responses to the surveys so that more precise priority rankings can be established.

RECOMMENDATION 2: Establishing Working Definitions.

Once priorities are set up, uniform definitions and operationalization procedures are needed. All police agencies must consistently report their data using the same definitions and

classifications. A uniform reporting procedure makes it possible to determine areas where statistical comparison is valid and thus reduce the likelihood of erroneous comparative analysis.

For the purposes of a national collection effort, we recommend that the definition of a law enforcement agency delineated on page 5 of this report be adopted. Briefly stated, a law enforcement agency includes the following components: 1. the power to arrest; 2. sufficient resources to warrant direct reporting of data to a central statistical agency; and 3. clearly defined jurisdictional boundaries. Statistics on private police and on jail-related duties should be excluded.

Overall, uniform definitions, classifications and operationalizations for police statistics are not readily available. The <u>Dictionary of Criminal Justice Data Terminology</u> defines a broad range of definitions, but excludes key terms like calls for service, dispatch, use of deadly force, firearms discharges, and civilian complaints. A partial solution to the dilemma of uniformity would be to use definitions and standards developed by the Commission on Accreditation of Law Enforcement Agencies. Further work must be completed on definitions and measurement procedures.

RECOMMENDATION 3: Determining the Type of Collection Instruments.

To collect the data, an appropriate methodology is necessary for valid and reliable statistics. The first step involves the development of a collection instrument. Survey questionnaires are clearly the most efficient and cost-effective method of acquiring data, but problems of validity and reliability within the questionnaires themselves and in the

collections have hindered the full use of the data. To enhance validity and reliability, the survey instrument should be pretested and supplemented with other methods along the lines of the Ostrom collection effort. (Ostrom et al. used state and local records, in-person and telephone interviews, and mail surveys to verify their data).

Based on the Iowa Statistical Analysis Center's evaluation, we further recommend that consideration be given to the use of at least two surveys: an initial survey that would gather the full range of statistical information available ("long-form"), and a second survey which would be of more limited range ("short-form"). The second survey would select a limited number of representative items that could be monitored in a more cost-effective way. By using two surveys we would maintain the ability to identify trends in law enforcement and preserve continuity between reporting periods, while cutting costs. In addition, this procedure would allow us to collect data on an annual basis for statistics that the police deem important. We recommend that the "long-form" be used every three years, with the "short-form" used in the years in-between.

RECOMMENDATION 4: Sampling Procedures.

More consideration should be given to the costs and benefits of sampling schemes. In the past, sampling has been conducted in a rather haphazard manner with little regard for scientific considerations. Attention should be directed to the benefits of sound sampling practices. Substantial research must be completed to determine the more difficult sampling strategies.

RECOMMENDATION 5: Timeliness.

Three issues of timeliness emerge. First, we must insure that the police report data that are current and up-to-date. Second, the statistics must be disseminated in a timely fashion. No matter how accurate the data, statistics which are not available within a reasonable time period will be of limited value to police administrators and government officials. Third, we recommend that national level collection efforts take place annually using the short-form, and every three years using the long-form.

RECOMMENDATION 6: Feedback Mechanisms.

A feedback or evaluation mechanism should be introduced to allow comments and recommendations within the collection instrument.

RECOMMENDATION 7: Pretest.

We recommend that a pretest of the entire mechanism take place to iron out difficulties and to determine the feasibility of the plan.

RECOMMENDATION 8: Conduct National Level Collection.

Once the pretest has proven that the questionnaire and other components are acceptable a national level collection of law enforcement statistics should take place.

Our review and analyses indicate that it is entirely feasible to launch a research program to develop a national series on law enforcement administration/management statistics. We believe that a 12-18 month research effort would produce the information needed to finalize the design of such a series. The Institute of Criminal Justice

and Criminology is ready to continue its research in this area so that a national series could be launched in 1985-1986.

APPENDICES

APPENDIX A

BUREAU OF MUNICIPAL RESEARCH (1929 STUDY)

LARGER CITIES (114,000 - 5,900,000 : 1928)

New York	Chicago	Philadelphia
Detroit	Cleveland	St. Louis
Baltimore	Boston	Los Angeles
Pittsburgh	San Francisco	Buffalo
Washington, DC	Milwaukee	Newark
Minneapolis	New Orleans	Cincinnati
Kansas City, MO	Seattle	Indianapolis
Rochester	Jersey City	Akron
Toledo	Portland, OR	Columbus
St. Paul	Syracuse	Dayton
Des Moines	Trenton	Fall River
Wilmington	New Bedford	Duluth

SMALLER CITIES (30,000 to 105,000)

Knoxville	Schenectady	Sioux City
Winscon-Salem	Portland, ME	Sacramento

APPENDIX A

SMALLER CITIES (cont'd)

Racine Chester Springfield, OH Lincoln Berkeley Niagara Falls Quincy Pasadena Pontiac Lancaster Cedar Rapids Oak Park Kenosha Atlantic City Mount Vernon, NY Columbia Madison Elmira Bay City New Rochelle Jamestown, NY Brookline San Jose Austin Hamilton Stamford Rock Island Dubuque Wilmington, NC Lynchburg Waterloo Moline Sheboygan Oshkosh Superior La Crosse

APPENDIX B

OSTROM VARIABLE DESCRIPTION LIST

```
VARIABLE DESCRIPTION LIST
           VAR.
           NO.
                                                                                         **POLICE PRODUCERS**
                                   ISPSR STUDY NUMBER 7427
                                  SMSA CODE
                                 PRODUCER ID
                                   RECORD TYPE
                                                                          GEOGRAPHICAL INFORMATION
                               IN OR OUT OF X-MET DATA BASE FIRST STATE IN WHICH SMSA IS LOCATED SECOND STATE IN WHICH SMSA IS LOCATED THIRD STATE IN WHICH SMSA IS LOCATED THIRD STATE IN WHICH SMSA IS LOCATED THE SMSA
                                FIRST COUNTY CONTAINED IN THE JURISDICTION INVOLVED THIRD COUNTY CONTAINED IN THE JURISDICTION INVOLVED FOURTH COUNTY CONTAINED IN THE JURISDICTION INVOLVED
                               TYPE OF PRODUCER UNIT

IS PRODUCER IN CENTRAL COUNTY OF NOT
RANDOM ORDER OF SMSA'S WITHIN EACH LEAA REGION
                              TYPE OF SMSA
TYPE OF PLACE
                              CENSUS BUREAU CODE
IS PRODUCER LOCATED IN SMSA OR ELSEWHERE?
LEAA REGION NUMBER
                            NAME OF UNIT
100% POPULATION COUNT FROM MEDLIST
FIRST MINOR CIVIL DIVISION (MD) OR CENSUS CIVIL DIVI-
SION (CCD) INCLUDED IN PLACE
POPULATION OF FIRST MINOR CIVIL DIVISION (MCD) OR CEN-
                            POPULATION OF FIRST MINOR CIVIL DIVISOR SUS CIVIL DIVISION (CCD)
SECOND MCD OR CCD INCLUDED IN PLACE POPULATION OF SECOND MCD OR CCD THIRD MCD OR CCD INCLUDED IN PLACE POPULATION OF THIRD MCD OR CCD FOURTH MCD OR CCD INCLUDED IN PLACE POPULATION OF FOURTH MCD OR CCD FIFTH MCD OR CCD INCLUDED IN PLACE POPULATION OF FITH MCD OR CCD SIXTH MCD OR CCD INCLUDED IN PLACE POPULATION OF SIXTH MCD OR CCD SEVENTH MCD OR CCD INCLUDED IN PLACE POPULATION OF SIXTH MCD OR CCD SEVENTH MCD OR CCD INCLUDED IN PLACE
                             SEVENTH MCD OR CCD INCLUDED IN PLACE POPULATION OF SEVENTH MCD OR CCD EIGHT MCD OR CCD INCLUDED IN PLACE
                               POPULATION OF EIGHTH MCD OR CCD
                                                                      INTERVIEW INFORMATION
                             INTERVIEWER ID NUMBER
                             MONTH, DAY, AND YEAR OF INTERVIEW-
LENGTH OF INTERVIEW IN MINUTES
DESCRIPTION OF RESPONDENT'S ATTITUDE
                                WERE THE RESPONSES CAUTIOUS
                            TYPE-OF INTERVIEW
            45 -TITLE OF PERSON INTERVIEWED
                                                                     WARIABLE DESCRIPTION LIST .
VAR.
      NO.
                                                  ORGANIZATIONAL STRUCTURE OF DEPARTMENT
                             NUMBER OF FULL-TIME SWORN OFFICERS NUMBER OF FULL-TIME CIVILIANS
```

NUMBER OF FULL-TIME PERSONNEL CURRENTLY ASSIGNED TO PATROL DUTIES NUMBER OF FULL-TIME PERSONNEL WITH RANK HIGHER THAN PATROLMAN ON PATROL
NUMBER OF CIVILIANS ASSIGNED TO PARTOL DUTIES
NUMBER OF FULL-TIME PERSONNEL CURRENTLY ASSIGNED TO

TRAFFIC DUTIES
NUMBER OF FULL-TIME PERSONNEL WITH RANK HIGHER THAN
PATROLMAN ON TRAFFIC DUTY
NUMBER OF CIVILIANS ASSIGNED TO TRAFFIC DUTIES 52 NUMBER OF FULL-TIME PERSONNEL CURRENTLY ASSIGNED TO

55

CRIMINAL INVESTIGATION
NUMBER OF FULL-TIME PERSONNEL WITH RANK HIGHER THAN
PATROLMAN ON CRIMINAL INVESTIGATION
NUMBER OF CIVILIANS ASSIGNED TO CRIMINAL INVESTIGATION
NUMBER OF FULL-TIME PERSONNEL CURRENTLY ASSIGNED TO
JUVENILE RELATED DUTIES

NUMBER OF FULL-TIME PERSONNEL WITH RANK HIGHER THAN

```
PATROLMAN ON JUVENILE RELATED DUTY
 NUMBER OF CIVILIANS ASSIGNED TO JUVENILE RELATED
   DUTIES
 NUMBER OF FULL-TIME PERSONNEL CURRENTLY ASSIGNED TO
    DISPATCHING
  NUMBER OF FULL-TIME PERSONNEL WITH RANK HIGHER THAN
 PATROLMAN DISPATCHING
NUMBER OF CIVILIANS ASSIGNED TO DISPATCHING
NUMBER OF FULL-TIME PERSONNEL CURRENTLY ASSIGNED TO
   CRIME LAB DUTIES
  NUMBER OF FULL-TIME PERSONNEL WITH RANK HIGHER THAN
 PATROLMAN WITH CRIME LAB DUTY
NUMBER OF CIVILIANS ASSIGNED TO CRIME LAB DUTIES
 NUMBER OF FULL-TIME PERSONNEL CURRENTLY ASSIGNED TO
  JAIL DUTIES
 NUMBER OF FULL-TIME PERSONNEL WITH RANK HIGHER THAN PATROLMAN WITH JAIL DUTY NUMBER OF CIVILIANS ASSIGNED TO JAIL DUTIES NUMBER OF FULL-TIME PERSONNEL CURRENTLY ASSIGNED TO
   TRAINING
 NUMBER OF FULL TIME PERSONNEL WITH RANK HIGHER THAN
   PATROLMAN ON TRAINING
  NUMBER OF CIVILIANS ASSIGNED TO TRAINING
 NUMBER OF FULL-TIME PERSONNEL CURRENTLY ASSIGNED TO
    OTHER DIVISIONS
NUMBER OF FULL-TIME PERSONNEL WITH RANK HIGHER THAN PATROLMAN IN OTHER DIVISIONS NUMBER OF CIVILIANS ASSIGNED TO OTHER DIVISIONS
```

```
VARIABLE DESCRIPTION LIST
VAR.
NO.
       AS OF DECEMBER, 1973, NUMBER OF FULL-TIME SWORN
           OFFICERS
         NUMBER OF FULL-TIME CIVILIANS
NUMBER OF FULL-TIME PERSONNEL ASSIGNED TO PATROL
       NUMBER OF FULL-TIME PERSONNEL WITH RANK HIGHER THAN
         PATROLMAN ON PATROL
NUMBER OF CIVILIANS ASSIGNED TO PATROL DUTIES
NUMBER OF FULL-TIME PERSONNEL ASSIGNED TO TRAFFIC
        NUMBER OF FULL-TIME PERSONNEL WITH RANK HIGHER THAN PATROLMAN ON TRAFFIC DUTY NUMBER OF CIVILIANS ASSIGNED TO TRAFFIC DUTIES
         NUMBER OF FULL-TIME PERSONNEL ASSIGNED TO CRIMINAL
            INVESTIGATION
         NUMBER OF FULL-TIME PERSONNEL WITH RANK HIGHER THAN PATROLMAN ON CRIMINAL INVESTIGATION NUMBER OF CIVILIANS ASSIGNED TO CRIMINAL INVESTIGATION NUMBER OF FULL-TIME PERSONNEL ASSIGNED TO JUVENILE
           RELATED DUTIES
         NUMBER OF FULL-TIME PERSONNEL WITH RANK HIGHER THAN FATROLMAN ON JUVENILE RELATED DUTIES
         NUMBER OF CIVILIANS ASSIGNED TO JUVENILE RELATED
           DUTIES
         NUMBER OF FULL-TIME PERSONNEL ASSIGNED TO DISPATCHING NUMBER OF FULL-TIME PERSONNEL WITH RANK HIGHER THAN
           PATROLMAN ON DISPATCHING
         NUMBER OF CIVILIANS ASSIGNED TO DISPATCHING NUMBER OF FULL-TIME PERSONNEL ASSIGNED TO CRIME LAB
           DUTIES
        NUMBER OF FULL-TIME PERSONNEL WITH RANK HIGHER THAN PATROLMAN WITH CRIME LAB NUMBER OF CIVILIANS ASSIGNED TO CRIME LAB DUTIES NUMBER OF FULL-TIME PERSONNEL ASSIGNED TO JAIL DUTIES NUMBER OF FULL-TIME PERSONNEL WITH RANK HIGHER THAN PATROLMAN WITH JAIL DUTY
```

NUMBER OF CIVILIANS ASSIGNED TO JAIL DUTIES NUMBER OF FULL-TIME PERSONNEL ASSIGNED TO TRAINING NUMBER OF FULL-TIME PERSONNEL WITH RANK HIGHER THAN PATROLMAN ON TRAINING

NUMBER OF CIVILIANS ASSIGNED TO TRAINING NUMBER OF FULL-TIME PERSONNEL ASSIGNED TO OTHER

_ - -

```
DIVISIONS
NUMBER OF FULL-TIME PERSONNEL WITH RANK HIGHER THAN
         PATROLMAN IN OTHER DIVISIONS
      NUMBER OF CIVILIANS ASSIGNED TO OTHER DIVISIONS
                    VARIABLE DESCRIPTION LIST
VAR.
          NUMBER OF OFFICERS IN DEPARTMENT BY RANK
       DEPUTY OR ASSISTANT CHIEF
       COLONEL
       LIEUTENANT COLONEL
107
       MAJOR
108
       CAPTAIN
100
       LIEUTENANT
       SERGEANT
       DETECTIVE (FORMAL RANK ONLY)
      CORPORAL
112
       PATROLMAN
     NUMBER OF PART-TIME PAID OFFICERS
AVERAGE NUMBER OF HOURS PER MONTH FOR PART-TIME
115
116
       PART-TIME OFFICER'S HOURLY PAY RATE
NUMBER OF PART-TIME VOLUNTARY OFFICERS
AVERAGE NUMBER OF HOURS PER MONTH FOR PART-TIME
         VOLUNTARY OFFICERS
       COMPENSATION FOR VOLUNTEER OFFICERS
       PART-TIME CIVILIAN PERSONNEL
       SOURCE OF MANPOWER DATA FOR 1973
SOURCE OF CURRENT MANPOWER DATA
                           PRECINCTS AND AUTOS
       DOES DEPARTMENT HAVE PRECINCT STATIONS, SUBSTATIONS OR
      DISTRICT HEADQUARTERS
NUMBER OF PRECINCT STATIONS
NUMBER OF AUTOMOBILES OWNED BY DEPARTMENT
                          COLLECTIVE BARGAINING
       IS THERE A COLLECTIVE BARGAINING ASSOCIATION
       WHAT DOES IT BARGAIN FOR PERCENT OF AGENCY'S OFFICERS WHO ARE MEMBERS OF "A"
         ASSOCIATION
       PERCENT OF AGENCY'S OFFICERS WHO ARE MEMBERS OF 'B'
         ASSOCIATION
131
       PERCENT OF AGENCY'S OFFICERS WHO ARE MEMBERS OF 'C'
         A'SSOCIATION
     DOES LOCAL ASSOCIATION REPRESENT OTHER POLICE AGENCIES
132
                   VARIABLE DESCRIPTION LIST
VAR.
NO.
            ELIGIBILITY REQUIREMENTS AND INCENTIVES
       IS THERE A RESIDENCY REQUIREMENT IS IT STRICTLY ENFORCED
       RESIDENCY REQUIRED PRIOR TO EMPLOYMENT
ARE THERE DEPARTMENTAL INCENTIVES FOR RESIDENCY
IS DEPARTMENTAL HIRING CONDUCTED UNDER CIVIL SERVICE
IS THIS A STATE, A COUNTY-WIDE OR A LOCAL PROGRAM
ARE PROMOTIONS WITHIN THE DEPARTMENT BASED ON CIVIL
135
136
137
138
      SERVICE
IS THIS A STATE, A COUNTY-WIDE OR A LOCAL PROGRAM
FORMAL EDUCATION REQUIREMENT
ADDITIONAL EDUCATION REQUIREMENT FOR SUPERVISORY RANKS
DEPARTMENTAL INCENTIVES FOR FURTHER EDUCATION
PAY FOR TIME OFF AS INCENTIVE
SALARY DIFFERENTIAL FOR EDUCATIONAL DEGREE
```

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AMOUNT OF SALARY DIFFERENTIAL IN DOLLARS PER YEAR SALARY DIFFERENTIAL PER CREDIT HOUR SALARY DIFFERENTIAL IN DOLLARS PER YEAR
       DOES DEPARTMENT PAY TUITION
       DOES DEPARTMENT PAY FOR BOOKS
LOCAL FUNDS PAY FOR INCENTIVES
STATE APPROPRIATIONS PAY FOR INCENTIVES
150
151
152
153
        FEDERAL GRANTS PAY FOR INCENTIVES
       OTHER MONIES PAY FOR INCENTIVES
                                    SALARY
       NUMBER OF HOURS IN OFFICERS' LEGAL WORKWEEK HOW ARE PATROLMEN COMPENSATED FOR OVERTIME WORK
       NUMBER OF HOURS OF OVERTIME
BEGINNING SALARY FOR PATROLMAN -- DECEMBER, 1973
CURRENT BEGINNING SALARY FOR PATROLMAN
TOP SALARY EARNED BY PATROLMAN -- DECEMBER, 1973
       CURRENT TOP SALARY FOR PATROLMAN HIGHEST SALARY -- DECEMBER, 1973
        CURRENT HIGHEST SALARY
       POSITION OF CHIEF ELECTED, APPOINTED OR CIVIL SERVICE
164
       CHIEF OF POLICE FULL-TIME OR PART-TIME
                    VARIABLE DESCRIPTION LIST
VAR.
NO.
                                     TRAINING
       MUST RECRUITS HAVE MINIMUM NUMBER OF HOURS OF TRAINING HOW MANY HOURS
        HOW SOON MUST RECRUIT COMPLETE THIS TRAINING
       ANY OFFICERS WHO HAVE NOT NEEDED ENTRY LEVEL TRAINING
```

RECRUITS RECEIVE ENTRY LEVEL TRAINING ON THE JOB RECRUITS RECEIVE ENTRY LEVEL TRAINING IN DEPARTMENT'S OWN ACADEMY

RECRUITS RECEIVE ENTRY LEVEL TRAINING IN ANOTHER DEPARTMENT'S ACADEMY RECRUITS RECEIVE ENTRY LEVEL TRAINING IN PEGIONAL 172

ACADEMY RECRUITS RECEIVE ENTRY LEVEL TRAINING IN STATE

RECRUITS RECEIVE ENTRY LEVEL TRAINING IN PRIVATE ACADEMY

RECRUITS RECEIVE ENTRY LEVEL TRAINING IN COMMUNITY COLLEGE OR UNIVERSITY RECRUITS RECEIVE ENTRY LEVEL TRAINING IN ANOTHER

TRAINING INSTITUTION

DOES DEPARTMENT PROVIDE ENTRY LEVEL TRAINING FOR OTHER DEPARTMENTS

DEPARTMENT TRAINS OTHERS TO QUALITY FOR STATE OR

FEDERAL GRANT
DEPARTMENT TRAINS OTHERS TO SATISFY A MANDATED

REQUIREMENT OF THE STATE DEPARTMENT TRAINS OTHERS IN RESPONSE TO REQUESTS OF OTHER POLICE AGENCIES

DEPARTMENT TRAINS OTHERS FOR OTHER REASONS

AREA DEPARTMENTS COORDINATE ENTRY LEVEL TRAINING

DEPARTMENT SENDS OFFICERS ELSEWHERE FOR TRAINING TO QUALIFY FOR STATE OR FEDERAL GRANT DEPARTMENT SENDS OFFICERS ELSEWHERE FOR TRAINING

TO SATISFY A MANDATED REQUIREMENT OF THE STATE DEPARTMENT SENDS OFFICERS ELSEWHERE FOR TRAINING TO OBTAIN TRAINING NOT AVAILABLE HERE DEPARTMENT SENDS OFFICERS ELSEWHERE FOR TRAINING FOR

OTHER REASONS

VARIABLE DESCRIPTION LIST

```
VAR.
NO.
                                          TRAFFIC CONTROL
          DOES DEPARTMENT PROVIDE TRAFFIC CONTROL
PART OF GENERAL PATROL OR SPECIALIZED TRAFFIC PATROL
PROVIDE TRAFFIC PATROL IN AREAS OUTSIDE JURISDICTION
DEPARTMENT INVESTIGATE ACCIDENTS
DEPARTMENT PROVIDE PATROL SERVICES ON 24-HOUR BASIS
DO ANY PUBLIC OR PRIVATE AGENCIES PROVIDE PATROL
SERVICE IN THIS JURISDICTION
189
190
           STARTING TIME FOR PATROL
           ENDING TIME FOR PATROL
           STARTING TIME (IF SECOND TIME PERIOD) ENDING TIME (IF SECOND TIME PERIOD)
          NUMBER OF CARS ON PATROL AT 10:00 A.M. ON A WEEKDAY NUMBER OF TWO-MAN PATROL CAPS NUMBER OF MEN ON FOOT AT THIS TIME
           NUMBER OF CARS ON PATROL AT 10:00 P.M. ON A WEEKDAY
201
             NIGHT
           NUMBER OF TWO-MAN PATROL CARS
            NUMBER OF MEN ON FOOT AT THIS TIME
            PEAK PATROL ON MONDAY
          PEAK PATROL ON TURSDAY
PEAK PATROL ON TURSDAY
PEAK PATROL ON THURSDAY
PEAK PATROL ON FRIDAY
PEAK PATROL ON SATURDAY
PEAK PATROL ON SUNDAY
           STARTING TIME FOR PEAK PATROL ENDING TIME FOR PEAK PATROL
211
          HOW MANY CARS WOULD BE ON PATROL
HOW MANY WOULD BE TWO-MAN PATROL CARS
HOW MANY MEN WOULD BE ON FOOT
SPECIAL CONDITIONS WHICH INFLUENCE THE WORKLOAD
215
                              VARIABLE DESCRIPTION LIST
VAR.
NO.
                                   CRIMINAL INVESTIGATION
           PATROLMAN INVESTIGATE BURGLARY
          PATROLMAN INVESTIGATE HOMICIDE
IS THERE A NARCOTICS TASK FORCE IN THE AREA
INVESTIGATIVE SPECIALISTS MEET
DOES DEPARTMENT MAINTAIN A CRIME LAB
                DETENTION AND DETOXIFICATION FACILITIES
            JAIL CAPACITY
          IS THERE A DETOXIFICATION CENTER FOR ALCOHOLICS DO YOU USE THIS FACILITY IS THIS PART OF AN ORGANIZED AREA-WIDE ALCOHOLIC
              TREATMENT CENTER
                                          DISPATCHING
           DO YOU SHARE THE SERVICES OF YOUR DISPATCHER IS THERE A WRITTEN PROCEDURE THAT YOUR DISPATCHERS USE
          DOES DEPARTMENT HANDLE NON-CRIMINAL ASSISTANCE CALLS IS RADIO FREQUENCY SHARED DO YOU HAVE AN ALTERNATE FREQUENCY WHICH YOU SHARE DOES AGENCY MONITOR OTHER DEPARTMENTS FREQUENCY MONITOR LOCATED ON DISPATCHER'S DESK MONITOR LOCATED IN CHIEF'S OFFICE MONITOR LOCATED IN A SPECIFIC PATROL CAR OR CARS
```

```
MONITOR LOCATED IN ALL PATROL CARS MONITOR LOCATED IN OTHER LOCATIONS
         IS THERE A COMPUTERIZED INFORMATION CENTER
IS THERE A SPECIAL EMERGENCY NUMBER
IS THIS AN AREA-WIDE SYSTEM
ARE HERE SERIOUS COMMUNICATIONS DELAYS WHEN USING
THIS SYSTEM
                                    EMERGENCY SERVICES
         ARE EMERGENCY AMBULANCE SERVICES PROVIDED BY THIS
            POLICE AGENCY
         ARE EMERGENCY AMBULANCE SERVICES PROVIDED BY FIRE
            DEPARTMENT
         ARE EMERGENCY AMBULANCE SERVICES PROVIDED BY VOLUNTEER
            AMBULANCE CREW
         ARE EMERGENCY AMBULANCE SERVICES PROVIDED BY PRIVATE AMBULANCE COMPANY
         ARE EMERGENCY AMBULANCE SERVICES PROVIDED BY FUNERAL
          - HOME
        ARE EMERGENCY AMBULANCE SERVICES PROVIDED BY OTHER DO YOU EVER PROVIDE EMERGENCY SERVICE TO OTHER AREAS WOULD YOU SEND A PATROL CAR TO EMERGENCY
           MEDICAL SITUATION
         WOULD YOU DISPATCH A PATROL CAR TO TAKE AN EMERGENCY
            MEDICAL CASE TO THE HOSPITAL
                         VARIABLE DESCRIPTION LIST
VAR.
NO.
                               MISCELLANEOUS SERVICES
         DOES AGENCY PROVIDE SCHOOL CROSSING GUARDS DOES AGENCY PROVIDE CORONER SERVICES
       DOES AGENCY PROVIDE CORONER SERVICES
DOES AGENCY PROVIDE CIVIL PROCESS SERVING
DOES AGENCY PROVIDE PARKING METER COLLECTION
DOES AGENCY PROVIDE GUARDS IN THE LOCAL SCHOOLS
DOES AGENCY PROVIDE GUARDS FOR PUBLIC FACILITIES
DOES AGENCY PROVIDE GUARDS FOR PUBLIC HOUSING
DOES AGENCY PROVIDE ARSON SQUAD
DOES AGENCY PROVIDE ANIMAL ROUNDUP OR RABIES UNITS
DO OTHER AGENCIES PROVIDE CORONER SERVICES
DO OTHER AGENCIES PROVIDE CORONER SERVICES
DO OTHER AGENCIES PROVIDE CIVIL PROCESS SERVING
DO OTHER AGENCIES PROVIDE GUARDS IN THE LOCAL
SCHOOLS
264
         DO OTHER AGENCIES PROVIDE GUARDS FOR PUBLIC
         DO OTHER AGENCIES PROVIDE GUARDS FOR PUBLIC
           HOUSING
         DC-OTHER AGENCIES PROVIDE ARSON SQUAD DO OTHER AGENCIES PROVIDE ANIMAL ROUNDUP OR RABIES
```

COOPERATIVE ARRANGEMENTS

DO LOCAL CHIEFS MEET REGULARLY TO DISCUSS-LAW ENFORCEMENT HAS YOUR DEPARTMENT PURCHASED ANY EQUIPMENT WITH AN-OTHER AGENCY PROPORTION OF DEPARTMENT'S VEHICLES PURCHASED JOINTLY PROPORTION OF DEPARTMENT'S GASOLINE PURCHASED PROPORTION OF DEPARTMENT'S COMMUNICATIONS PURCHASED

PROPORTION OF OTHER PURCHASES PURCHASED JOINTLY ARE ANY OFFICERS DEPUTIZED BY OTHER POLICE AGENCY HAS THIS DEPARTMENT DEPUTIZED POLICE OFFICERS FROM ANY OTHER POLICE AGENCY

DOES YOUR DEPARTMENT BORROW OR LEND EQUIPMENT OR FACILITIES
ARE YOU PRIMARILY A BORROWER OR A LENDER
DO YOUR OFFICERS EVER AID OTHER DEPARTMENTS
DO THEY GO ONLY IN RESPONSE TO A FORMAL REQUEST

```
DO OFFICERS FROM OTHER DEPARTMENTS AID YOUR FORCE DO THEY COME ONLY IN RESPONSE TO A REQUEST FOR AID ARE THERE TIMES WHEN MUTUAL AID NEEDED BUT NOT
              DOES DEPARTMENT HAVE MUTUAL AID AGREEMENTS
                                        VARIABLE DESCRIPTION LIST
VAR.
NO.
                                       FINANCIAL INFORMATION
              BEGINNING OF BOOKKEEPING YEAR END OF BOOKKEEPING YEAR
               TOTAL EXPENDITURES FOR POLICE AGENCY - 1973
               TOTAL EXPENDITURES FOR SALARIES AND WAGES OF ALL
                   PERSONNEL - 1973
             TOTAL EXPENDITURES FOR SALARIES AND WAGES FOR SWORN OFFICERS — 1974

ARE EMPLOYEES COVERED BY SOCIAL SECURITY EMPLOYER CONTRIBUTION TO SOCIAL SECURITY ARE EMPLOYEES ENROLLED IN PENSIONS PROGRAM EMPLOYER CONTRIBUTION TO RETIRED OFFICERS PENSION FUND EMPLOYER CONTRIBUTION TO ACTIVE OFFICERS PENSION FUND
              ARE EMPLOYEES COVERED BY OTHER BENEFITS
EMPLOYER CONTRIBUTION TO EMPLOYEE BENEFITS
TOTAL EXPENDITURES MADE WITH FEDERAL REVENUE SHARING
            FUNDS
SALARY AND WAGE EXPENDITURES MADE WITH FEDERAL REVENUE
SHARING FUNDS
ARE WAGE AND SALARY EXPENDITURES MADE WITH FEDERAL
REVENUE SHARING FUNDS INCLUDED IN TOTAL EXPENDITURES
FOR SALARIES AND WAGES OF ALL PERSONNEL - 1973
TOTAL EXPENDITURES MADE WITH FEDERAL GRANTS
SALARY AND WAGE EXPENDITURES MADE WITH FEDERAL
GRANTS INCLUDED IN TOTAL EXPENDITURES FOR SALARIES
AND WAGES OF ALL PERSONNEL - 1973
TOTAL EXPENDITURES MADE WITH STATE GRANTS
SALARY AND WAGE EXPENDITURES MADE WITH STATE GRANTS
SALARY AND WAGE EXPENDITURES MADE WITH STATE GRANTS
ARE SALARY AND WAGE EXPENDITURES FOR SÁLARIES
AND WAGES OF ALL PERSONNEL - 1973
TOTAL EXPENDITURES MADE WITH OTHER GRANTS
SALARY AND WAGE EXPENDITURES FOR SÁLARIES
AND WAGES OF ALL PERSONNEL - 1973
TOTAL EXPENDITURES MADE WITH OTHER GRANTS
SALARY AND WAGE EXPENDITURES MADE WITH OTHER
GRANTS INCLUDED IN TOTAL EXPENDITURES FOR SALARIES
AND WAGES OF ALL PERSONNEL - 1973
                AND WAGES OF ALL PERSONNEL - 1973
              IS PRINCIPAL SOURCE OF REVENUE GENERAL FUND IS PRINCIPAL SOURCE OF REVENUE LOCAL TAX FOR LAW
                   ENFORCEMENT
               IS PRINCIPAL SOURCE OF REVENUE STATE TAX FOR LAW
                   ENFORCEMENT
              IS PRINCIPAL SOURCE OF REVENUE CONTRACTS
IS PRINCIPAL SOURCE OF REVENUE FEES AND FINES
IS PRINCIPAL SOURCE OF REVENUE SOME OTHER PROPERTY TAX
                                        VARIABLE DESCRIPTION LIST
VAR.
NO.
                                              FINANCIAL INFORMATION (CONTINUED)
               SOURCE FOR GENERAL FUND: LOCAL REAL PROPERTY TAX SOURCE FOR GENERAL FUND: LOCAL OTHER PROPERTY TAX
               SOURCE FOR GENERAL FUND: LOCAL SALES TAX SOURCE FOR GENERAL FUND: LOCAL INCOME TAX
              SOURCE FOR GENERAL FUND: STATE DISTRIBUTED TAX SOURCE FOR GENERAL FUND: OTHER ARE THERE LEGAL LIMITS ON ABILLTY TO INCREASE REVENUE IS AGENCY AT LEGAL LIMIT ON 12/73
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SERVICE 87 -- ENTRY LEVEL TRAINING

SERVICE 99 -- TRAFFIC PATROL

SERVICE 97 -- TRAFFIC INVESTIGATION

SERVICE 95 -- PATROL

SERVICE 94 -- PATROL

SERVICE 94 -- PATROL

SERVICE 95 -- CRIMINAL INVESTIGATION: BURGLARY

SERVICE 90 -- CRIMINAL INVESTIGATION: HOMICIDE

SERVICE 90 -- CRIMINAL INVESTIGATION: HOMICIDE

SERVICE 92 -- CRIMINAL INVESTIGATION: HOMICIDE

SERVICE 93 -- CRIMINAL INVESTIGATION: HOMICIDE

SERVICE 85 -- NARCOTICS

SERVICE 85 -- NARCOTICS

SERVICE 85 -- CRIME LAB: CHEMICAL

SERVICE 80 -- DETENTION

SERVICE 81 -- DETENTION

SERVICE 81 -- DETENTION

SERVICE 89 -- DISPATCHING

SERVICE 89 -- DISPATCHING

INFORMATION OBTAINED FROM INTERVIEWS WITH PRODUCER

PRODUCERS

INFORMATION OBTAINED FROM INTERVIEWS WITH OTHER

PRODUCERS

SERVICERS

SERVICE 89 -- DISPATCHING

INFORMATION OBTAINED FROM DOCUMENTS
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SERVICES SUMMARY

APPENDIX C

EVALUATION OF SAC REPORTS

TO: EXECUTIVE BOARD, IA. ASSN. OF CHIEFS OF POLICE AND PEACE OFFICERS, INC.

FROM: MARCIA COHAN, STATISTICAL ANALYSIS CENTER (SAC), O.P.P.

SUBJECT: EVALUATION OF SAC REPORTS ON IOWA POLICE DEPARTMENTS

DATE: APRIL 14, 1984

Comments were received from 133 police chiefs regarding the FY 1984 Reports on lowa Police Departments (Volumes I and II). Of the 67 departments cited in Volume I, 55 (82%) provided feedback. Another 78 (57%) of the 137 agencies in Volume II also gave their opinions about the reports. The following is a brief summary of their responses.

		•		
GENERAL REA	Extremely Favorable Somewhat Favorable Neutral Somewhat Unfavorable	9 (16%)	(VOL. II) Smaller Cities 55 (71%) 20 (26%) 2 (3%) 0 -	TOTAL 99 (75%) 29 (22%) 4 (3%) 0 -
	Extremely Unfavorable		_0 -	_0 -
	TOTAL	55	77	132
POTENTIALLY	USE INFORMATION IN CURRENT REPO	RTS		
		Larger <u>Cities</u>	Smaller <u>Cities</u>	TOTAL
• .	Yes, to a Great Extent Yes, Somewhat No	26 (47%)	42 (54%) 33 (42%) <u>3</u> (4%)	71 (54%) 59 (44%) <u>3</u> (2%)
	TOTAL	55	78	133
•		-		· -
ALREADY USE	INFORMATION IN PREVIOUS REPORTS			
		Larger <u>Cities</u>	Smaller Cities	TOTAL
	Yes, to a Great Extent Yes, Somewhat No	30 (54%) <u>1</u> (2%)	26 (35%) 39 (53%) <u>9</u> (12%)	50 (39%) 69 (53%) 10 (8%)
	_ TOTAL	55	74	129
	- -			
INFORMATION	I IN REPORTS IS COMPLETELY COVEREI			
TO YOUR SAT	ISFACTION ()	Larger Cities	Smaller Cities	TOTAL
	Yes		71 (95%) 4 (5%)	124 (96%) 5 (4%)

TOTAL.....54

129

75

FISCAL YEAR REPORTS OF IOWA POLICE DEPARTMENTS

EVALUATION FORM

As you may recall, the Iowa Association of Chiefs of Police and Peace Officers, Inc. in cooperation with the Iowa Statistical Analysis Center, have been surveying all police departments throughout the state on a yearly basis (since 1979). The results of these efforts--data collected regarding salaries, benefits, budgets, manpower, etc. -- are published in fiscal year reports which, in turn, are distributed to all police chiefs participating in the survey. (The FY '84 report is attached for your review.)

To assist us in evaluating the quality of these reports, please complete this very

1. What is your general reaction to these reports? a. Extremely Favorable b. Somewhat Favorable c. Neutral d. Somewhat Unfavorable e. Extremely Unfavorable 2. Are you in a position to potentially use information contained in these reports. Are, to a great extent b. Yes, somewhat c. No (Skip to somewhat c. No som	tions.
 What is your general reaction to these reports? a. Extremely Favorable b. Somewhat Favorable c. Neutral d. Somewhat Unfavorable Are you in a position to potentially use information contained in these reports a. Yes, to a great extent b. Yes, somewhat c. No (Skip to a. Yes, frequently d. Yes, somewhat d. No In your opinion, is the information contained in these reports covered composite to the composition of the contained in these reports covered compositions. Yes d. Yes d. No 	
d. Somewhat Unfavorable e. Extremely Unfavorable 2. Are you in a position to potentially use information contained in these reparts. Are you in a position to potentially use information contained in these reparts. Yes, to a great extent b. Yes, somewhat c. No (Skip to a. Yes, frequently b. Yes, somewhat c. No 4. In your opinion, is the information contained in these reports covered comparts. Yes b. No 5. If there are other topics which you would like to see addressed in future results.	
 Are you in a position to potentially use information contained in these reports. Yes, to a great extent b. Yes, somewhat c. No (Skip to contained in past reports. If YES (to Q. 2), have you already used information contained in past reports. Yes, frequently b. Yes, somewhat c. No In your opinion, is the information contained in these reports covered composite. Yes b. No If there are other topics which you would like to see addressed in future resources. 	•
 a. Yes, to a great extent b. Yes, somewhat c. No (Skip to 3. If YES (to Q. 2), have you already used information contained in past reportant a. Yes, frequently b. Yes, somewhat c. No 4. In your opinion, is the information contained in these reports covered compandation. Yes b. No 5. If there are other topics which you would like to see addressed in future respectively. 	
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 4. In your opinion, is the information contained in these reports covered composite a. Yes b. No 5. If there are other topics which you would like to see addressed in future respectively. 	ports?
 a. Yes b. No 5. If there are other topics which you would like to see addressed in future remarks. 	
5. If there are other topics which you would like to see addressed in future r	ompletely?
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APPENDIX D

FORUM ADMINISTRATIVE QUESTIONNAIRE

(Police Department)

(Name of Chief of Police)

AGENCY NAME:
ADDRESS:
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NAME OF THE PERSON COMPLETING THE QUESTIONNAIRE:
TELEPHONE NUMBER OF THE PERSON COMPLETING THE QUESTIONNAIRE: A.C. (), #
ENDORSEMENT OF THE CHIEF EXECUTIVE: (Signature)
(Printed name and title)
(Date)

FORUM ADMINISTRATIVE QUESTIONNAIRE

This questionnaire should be completed by the executive head of the agency or completed by the manager(s) within the agency most familiar with its record systems and procedures, then reviewed by the agency head prior to his endorsement and submission to the Forum.

The survey is designed to answer three questions about police administrative, and operational information. The first question is one of utility; that is, how useful or important is it that you have comparative, up-to-date information on the practices of agencies similar to your own. The second question is how easy or difficult it is for your agency to provide the information in the requested categories or format. The third question concerns the availability of the same or similar information from sources other than the Kansas City/Police Executive Research Forum/Police Foundation reports. On the right-hand side of each page of the questionnaire are 10 columns, 4 for each of the first two questions and 2 for the last question. The definitions for the coded responses are as follows:

A. For the question of utility, the responses are:

"HIGH" (check column 1) - This item is of direct and immediate use to this agency.

"MEDIUM" (check column 2) - This item is useful, but not critical, to this agency.

"LOW" (check column 3) - This item is not regularly used.

"NONE" (check column 4) - This item is not used at all by this agency.

B. For the question on availability within your agency, the coded responses are:

"AVAILABLE" (check column 5) - This item is readily available in current departmental records and documents. "MODIFICATION" (check column 6) - This item is available with some modification (i.e., retotalling or retitling some elements).
"DIFFICULT" (check column 7) - This item requires extensive analysis or addition of new data collection to prepare. "NOT AVAILABLE" (check column 8) - The information base for this item does not exist in current agency records.

C. For the question on alternative sources of similar information about agencies similar to yours.

"OTHER" - This item is readily available from other alternative sources.
"UNIQUE" - This item is only available through the Kansas City/Police Executive Research Forum/Police Foundation Administrative Report series.

For each item in each of the areas, please place a check mark (\checkmark) in the appropriate column that most nearly reflects your agencies views on the A) utility, B) availability, and C) alternative sources for the same information. If the same information is available from another source, please indicate the title and source agency on the comments page.

Additionally, feel free to comment on any element and reference your observations on the comment page by item number.

BUDGET AND ASSIGNMENT

- Total police department budget for last fiscal year excluding any federal, state, or private funds.
- 2. Police department salary budget for last fiscal year.
- 3. Overtime hours worked by all employees last fiscal year, court-related overtime, other overtime, total overtime.
- 4. Number of police stations or substations including headquarters.
- 5. Number of regular duty hours worked by each officer each week.
- 6. Total number of regular one officer and two officer motor beats per shift.
- 7. Total number of regular one officer and two officer foot beats per shift.
- 8. Patrol bureau deployment of personnel. Number of personnel by rank and shift:
- 9. Number of accident investigation personnel per shift.
- 10. Number of mobile evidence technicians per shift.
- Number of traffic enforcement personnel: sworn/civilian; solo motorcycles, 3-wheel motorcycles, scooters, radar.
- 12. Number of investigations personnel, headquarters/decentralized, vice, intelligence, hit and run, burglary, robbery, sex crimes, homicides, other.

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- 13. Distribution of all departmental personnel by unit and rank/ title.
- 14. Distribution of all departmental personnel by rank/title, sex, and race/ethnicity.
- 15. Does your department utilize rotation of patrol shifts?
- 16. What type of rotation is used? Fixed, weekly, monthly, quarterly, other.
- 17. How is an officer selected for his shift? Officer's choice, department assignment, seniority, other.

*CALLS FOR SERVICE

- 18. How many citizen calls did you receive by telephone last year?
- 19. Of those calls, how many were calls for service that were responded to by the dispatch of one or more police units?
- 20. How many were calls for service that were handled by some other method than the dispatch of a unit, that is, by telephone report-taking, by mail-in reports, or by requiring citizens to come to a police station?
- 21. How many were calls for information only?
- 22. Does your department have a screening procedure whereby cases with a low probability of solution are closed? If yes, what kinds of offenses are screened?

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★ COMPUTER OPERATIONS

- 23. Which of the following best describes the use of computers in your department, i.e., none, dedicated, shared, shared and dedicated?
- 24. What functional operations are part of the computer's systems, i.e., arrests, wants and warrants, payroll, etc?
- 25. Does your department have an operating computer aided dispatch system?
- 26. If no, are you in the process of implementing such a system?
- 27. Does your department have an operational 911 emergency telephone system?

VEHICLE FLEET

- 28. Police vehicles:
 - a. Number and make of motorcycles.
 - b. Number and make of scooters.
 - c. Number of patrol wagons.
 - d. Number of cars (marked, unmarked).
 - e. Number and type of aircraft.
- 29. Are aircraft deployed for patrol, traffic, search and rescue, other?

MAINTENANCE AND LIABILITY

30. Who is responsible for maintenance of police motor vehicle fleet, i.e., city garage, police garage, contract garage, etc.

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- 31. Liability insurance on police vehicles furnished by:
 - a. City/county
 - b. Department
 - c. Officer
 - d. Other
- 32. Is your city/county self-insured?
- 33. Number of lawsuits brought against the agency in the last year?
- 34. Number of lawsuits settled last year?
- 35. Total amount of payments to settle questions of civil liability?
- 36. Does your department issue marked vehicles for off-duty use?
- PERSONAL EQUIPMENT
- 37. Does the officer or the department furnish leather and uniforms?
- 38. Yearly clothing allowance to officers for leather and uniforms?
- 39. Sidearms furnished by officer or department?
- 40. If sidearm is furnished by the department, what type, make, model, and caliber?
- 41. Type of issued service ammunition used by your department?

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♥FIREARMS USE AND POLICY

- 42. Does your department have a policy on officers being armed off duty? If so, what is it?
- 43. Number of officers who discharged a weapon last year.
- 44. Number of incidents last year in which a firearm was discharged at a person by a member of the department, on-duty or off-duty, within or outside the jurisdiction.
- 45. Number of firearm incidents in which an injury occurred to either a citizen or an officer.
- 46. Number of firearm incidents which resulted in one or more fatalities to either a citizen or an officer.

REVIEW BOARD

- 47. Does your department have some type of police review board for reviewing citizen complaints about officer conduct?
- 48. Is this board limited to reviewing incidents involving shootings?
- 49. What is the makeup of the police review board which handles citizens' complaints against police officers.?

COMPENSATION

50. Base annual salary (minimum and maximum) for all sworn positions by rank.

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- 51. At what rate does your department compensate for the court time and overtime, i.e., time and a half, double time, compensatory time, other.
- 52. Does your department provide additional pay for any of the following? For example, longevity, hazardous duty, specialty, other.
- 53. Does the department provide additional pay for the increasing levels of higher education and if yes, how much?

EMPLOYEE BENEFITS

- 54. Number of days of paid sick leave annually and maximum number of days of paid sick leave which can be accumulated.
- 55. Number of days of vacation leave received annually and increases in annual vacation days received due to length of service.
- 56. Number of paid holidays per year.
- 57. What percentage of the following health costs for officers is paid by the department for injuries on duty and off-duty; hospitalization, medical, surgical.
- 58. What percentage of Group Health Insurance premium is paid by department?
- 59. Does your department have a dental plan? If yes, what percentage of Dental Insurance premium is paid by the department.

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- 60. What is the annual contribution to retirement by the officer and by the agency?
- 61. What are the minimum and maximum retirement provisions in terms of years of service and age?
- 62. What are the minimum and maximum retirement benefits?
- 63. What are the specific nonserviceconnected disability benefits and the specific service-connected disability benefits (e.g., 70% of average salary computed over highest 3 year's salaries)?
- 64. What are the other death benefits, i.e., widows pension, surviving children, other?
- 65. Insurance for natural death or line-of- duty death, if yes, how much?

CONDITIONS FOR EMPLOYMENT

- 66. Does your department have a residency requirement for:
 - a. All employees?
 - b. All sworn personnel?
 - c. All new recruits?
 - d. Other (please specify)?

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- 67. For what positions, if any, can your department accept for employment people from other departments or similar agencies with sworn experience for sworn police positions?
- 68. What educational requirements, if any, Does your department have educational requirements for its entry level, supervisory, or command ranks?

PROMOTION PROCESS

- 69. What types of evaluations are necessary for promotion to sergeant, to lieutenant, and to captain in your department, i.e., written exam, oral board, assessment center, etc.?
- 70. What agency is the source of your departments' written promotional examinations?
- 71. Have your promotional exams been formally validated?
- 72. Time-in grade (in years) required for eligibility to next higher rank i.e., police officer to sergeant, sergeant to lieutenant, police officer to detective, police officer to corporal, detective to sergeant, corporal to sergeant, lieutenant to captain.
- 73. What is the current educational level of personnel, both civilian and sworn, in your department?

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74.	What presentation medium for police administration statistics would be most useful for you, i.e., printed report, computer tape, floppy diskette, other medium?
75.	What levels of segmentation and aggregation make the most sense for your use of police administration data, i.e., by agency size, by size of population served, city vs. county, by state and region, or any other breakdown?
·76.	If the Bureau of Justice Statistics was to support the regular collection and publication of police administrative statistics, then in your opinion, how often should it be done, i.e., every year, every other year, every 3 years, or some other period of time.
77	Please list below and on the following comment page other administrative police data, not mentioned in this questionnaire, that you would find useful if included in a national police administrative survey.
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Further	comments:				
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APPENDIX E

INTERVIEW QUESTIONS

- 1. What types of law enforcement statistics are of interest?
- 2. How often is there need for them?
- 3. Is the type of information sought readily accessible?
- 4. What is the primary source of statistical information?
- 5. How much of the data available through publications (PERF, IACP, etc.) is of use?
- 6. What format of these data is preferred?
- 7. Are there areas that these statistics fail to address?
- 8. Is there information provided that is of little or no use?
- 9. What kinds of demands for information (i.e., from press, public) are there? Who furnishes this data? (Asked of police departments.)
- 10. Do controversies arise (i.e., brutality, force) that require the dispensing of information? (Asked of police departments.)

APPENDIX F

LIST OF INTERVIEWEES

NAME AND AFFILIATION	DATE
Professor Scott Decker	
University of St. Louis	April 4, 1984
Professor Egon Bittner	
Brandeis University	April 4, 1984
Professor James Fyfe	
American University	April 4, 1984
Professor James Q. Wilson	
Harvard University	April 12, 1984
Professor Richard Bennett	
American University	April 4, 1984
Professor David Bayley	
University of Denver	April 5, 1984
Kenneth Matulia	
IACP	April 5, 1984
Officer Thomas Melvin	
Dade County Police Department	April 4, 1984

Cindy Peterson

Minneapolis Police Department

March 30, 1984

Captain Hauf

Baltimore County Police Department

March 29, 1984

Officer Colleton

Peoria Police Department

March 30, 1984

James Hayden

Fairfax County Police Department

March 30, 1984

Esther O'Brien

San Jose Police Department

March 30, 1984

FORUM SURVEY SITES

1. Akron, OH 26. Cincinnati, OH 2. Alexandria, VA 27. Clearwater, FL 3. Allentown, PA 28. Cleveland, OH 4. Albuquerque, NM 29. Colorado Springs, CO 5. Anchorage, AK 30. Columbus, GA 6: Ann Arbor, MI 31. Columbus, OH 7. Arlington, Co., VA 32. Cook Co., IL 8. Arlington, TX 33. Corpus Cristi, TX 9. Atlanta, GA 34. Dade Co., FL 10. Aurora, CO 35. Dallas, TX 11. Austin, TX 36. Davenport, IA 12. Baltimore Co., MD 37. Dayton, OH 13. Baltimore, MD 38. DeKalb Co., GA 14. Baton Rouge, LA 39. Denver, CO 15. Berkeley, CA 40. Des Moines, IA 16. Birmingham, AL 41. Detroit, MI 17. Boise, ID 42. El Paso, TX 18. Boston, MA 43. Eugene, OR 19. Buffalo, NY 44. Evanston, IL 20. Cambridge, MA 45. Fairfax Co., VA 21. Chattanooga, TN 46. Flint, MI

25. Chicago, IL

22. Charleston, SC

23. Charlotte, NC

24. Chesapeake, VA

49. Fremont, CA

50. Fresno, CA

48. Fort Worth, TX

47. Fort Lauderdale, FL

APPENDIX G

FORUM SURVEY SITES

51. Garden Grove, CA	77. Lubbock, TX
52. Garland, TX	78. Macon, GA
53. Genesee Co., MI	79. Madison, WI
54. Gravel Rapids, MI	80. Memphis, TN
55. Greensboro, NC	81. Miami, FL
56. Hampton, VA	82. Minneapolis, MN
57. Hartford, CT	83. Montgomery, AL
58. Hayward, CA	84. Montgomery Co., MD
59. Hialeah, FL	85. Multnomah Co., OR
60. Hollywood, FL	86. Nashville-Davidson Co., TN
61. Honolulu, HI	87. Newark, NJ
62. Houston, TX	88. New Haven, CT
63. Huntington Beach, CA	89. New Orleans, LA
64. Huntsville, AL	90. Newport News, VA
65. Indianapolis, IN	91. New Rochelle, NY
66. Jacksonville, FL	92. New York, NY
67. Jersey City, NJ	93. Norfolk, VA
68. Kalamazoo, MI	94. Oakland, CA
69. Kansas City, KS	95. Oklahoma City, OK
70. Kansas City, MO	96. Omaha, NE
71. Lakewood, CO	97. Orange Co., CA
72. Lansing, MI	98. Orlando, FL
73. Las Vegas, NV	99. Paterson, NJ
74. Lexington-Fayette Co., KY	100. Peoria, IL
75. Long Beach, CA	101. Philadelphia, PA
76. Los Angeles Co., CA	102. Phoenix, AZ

103. Pittsburgh, PA	128. Seattle, WA
104. Portland, OR	129. South Bend, IN
105. Portsmouth, VA	130. Southfield, MI
106. Prince Georges Co., MD	131. Spokane, WA
107. Racine, WI	132. Springfield, IL
108. Raleigh, NC	133. Stamford, CT
109. Reno, NV	134. Stockton, CA
110. Richmond, VA	135. Sunnyvale, CA
111. Roanoke, VA	136. Tacoma, WA
112. Rochester, NY	137. Tampa, FL
113. Rockford, IL	138. Tallahassee, FL
114. Sacramento, CA	139. Toledo, OH
115. St. Louis, MO	140. Topeka, KS
116. St. Paul, MN	141. Torrance, CA
117. St. Petersburg, FL	142. Tucson, AZ
118. Salem, OR	143. Tulsa, OK
119. San Antonio, TX	144. Virginia Beach, VA
120. San Bernardino, CA	145. Warren, MI
121. San Diego, CA	146. Washington, DC
122. San Diego Co., CA	147. Waterbury, CT
123. San Francisco, CA	148. Westchester Co., NY
124. San Jose, CA	149. White Plains, NY
125. Santa Ana, CA	150. Wichita, KS
126. Santa Monica, CA	151. Winston-Salem, NC
127. Savannah, GA	152. Yonkers, NY

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