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ICPSR Inter-university Consortium for Political and Social Research

Violence and Crime in Cross-National Perspective, 1900-1972



Dane Archer and Rosemary Gartner

ICPSR 8612

and

Violence & Crime in Cross-National Perspective, 1900/1972 —

(ICPSR 8612)

Principal Investigator

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NCJRS

MAY 7 1987

ACQUISITIONS

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Acknowledgement of Assistance

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The data (and tabulations) utilized in this (publication) were made available (in part) by the Inter-university Consortium for Political and Social Research. The data for VIOLENCE & CRIME IN CROSS-NATIONAL PERSPECTIVE, 1900-1972 LIST, 1985 [UNITED STATES] were collected by Dane Archer and Rosemary Gartner. Neither the collectors of the original data nor the Consortium bear any responsibility for the analyses or interpretations presented here.

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Archer, Dane and Rosemary Gartner

VIOLENCE & CRIME IN CROSS-NATIONAL PERSPECTIVE, 1900-1972 (ICPSR 8612)

SUMMARY: The purpose of this data collection was to provide comparative, cross-national, longitudinal data on rates of violent and non-violent crimes for every country in the world over a period of 72 years. The study was designed to supply both comparative breadth and historical depth. Information is included on murder, rape, robbery, assault, and thefts. CLASS IV

UNIVERSE: All countries in the world.

NOTE: The machine-readable documentation includes two FORTRAN command files which can be used in conjunction with the data files to output crime rates and raw crime figures for each country. The only documentation provided for these files is the comment statements included in the files.

RESTRICTIONS: Users are asked to send copies of articles based on the data to: Dane Archer, Stevenson College, Univ. of Calif., Santa Cruz, CA 95064 (408) 429-2555 or (408) 426-1186

EXTENT OF COLLECTION: 2 data files + machine-readable documentation DATA FORMAT: Card Image

PART 1: Crime File

FILE STRUCTURE: rectangular

CASES: 4568

VARIABLES: 12

RECORD LENGTH: 80

RECORDS PER CASE: 1

PART 2: Eight Crime File

FILE STRUCTURE: rectangular

CASES: 3520

VARIABLES: 11

RECORD LENGTH: 80

RECORDS PER CASE: 1

RELATED PUBLICATIONS:

Archer, Dane, and Rosemary Gartner. VIOLENCE AND CRIME IN A CROSS-NATIONAL PERSPECTIVE. New Haven: Yale University Press, 1984

Comparative Crime Data File

VARIABLE NAME	COLUMN LOCATION
Country Code	1-3
Year (eg. "62" for 1962)	45
Constant Value "1" (unused)	6-7
Number of Murders	8-13
Number of Manslaughters	14-19
Number of Homicides	20-25
Number of Rapes	26-31
Number of Assaults	32-38
Number of Robberies	39-45
Number of Thefts	46-53
Population (in thousands)	54-59
Missing Data Code	-1

COUNTRIES	CODE
Aden	56
Argentina	15
Australia	20
Austria	25
Bahrain	30
Belgium	35
Bermuda	40
Bolivia	45
Botswana	50
Brunei	55
Bulgaria	60
Burma	65
Cameroon	70
Canada	75
Central African Republic	80
Chad	90
Chile	95
China	100
Columbia	105
Congo	110
Cuba	115
Cyprus	120
Dahomey	125
Denmark	130
Dominican Republic	135
Egypt	140
El Salvador	145

COUNTRIES	CODE
England and Wales	150
Ethiopia	155
Fiji	160
Finland	165
France	170
Germany	175
Gahana	180
Greece	185
Guam	195
Guyana	190
Hong Kong	200
Hungary	205
Iceland	210
India	225
Indonesia	230
Iran	215
Iraq	220
Ireland	235
Israel	240
Italy	245
Ivory Coast	250
Jamaica	255
Japan	260
Jordan	265
Kenya	270
Khmer Republic (Cambodia)	275
Korea	280

COUNTRIES	CODE
Kuwait	285
Laos	290
Lebanon	295
Libya	300
Luxemburg	305
Malagasy Republic	310
Malawi	315
Malaya	320
Mauritania	325
Mauritius	330
Mexico	335
Monaco	340
Morocco	345
Nepa1	350
Netherlands	355
Netherlands Antilles	360
New Zealand	365
Nigeria	370
Northern Ireland	375
Norway	380
Pakistan	385
Panama	390
Peru	395
Phillipines	400
Poland	405
Portugal	410
Puerto Rico	415

COUNTRIES	CODE
Qatar	417
Rhodesia	420
Rumania	425
Scotland	430
Senegal	435
Sierra Leone	440
Singapore	445
Solomon Islands	450
South Africa	455
Spain	460
Sri Lanka	85
Sudan	465
Surinam	470
Swaziland	475
Sweden	480
Switzerland	485
Syria	490
Tangiers	495
Tanzania	500
Thailand	505
Trinidad	510
Tunisia	515
Turkey	520
Uganda	525
United States	530
Venezuela	540
Vietnam, South	545

West Indies (British)	550
Yugoslavia	555
Zambia	560

CODE

COUNTRIES

CITIES	CODE
Accra, Ghana	505
Amsterdam, Netherlands	595
	600
Athens, (reece	605
Beirut, Lebanon	610
Belfast, Northern Ireland	615
Bombay, India	620
Brussels, Belgium	625
Calcutta, India	635
Caracas, Venezuela	638
Colombo City, Sri Lanka (Ceylon)	630
Doha City, Qatar	640
Dublin, Ireland	645
Freetown, Sierra	648
Georgetown, Guyana	650
Glasgow, Scotland	655
Helsinki, Finland	660
Istanbul, Turkey	665
Jerusalem, Isreal	670
Johannesburg, South Africa	675
Khartoum, Sudan	680
Kuwait City, Kuwait	683
Lagus City, Nigeria	685
Madrid, Spain	690
Manilla, Philippines	700
Mexico City, Mexico	705
Montevideo, Uruguay	695
Munich, Germany	710

<u>CITIES</u>	CODE
여러분 생물을 모르는 것이 되는 것이 하는 것도 되는 것도 말을 많은 경험을 많아 있는 것은 것은 것은 것이 있다.	
Nairobi City, Kenya	715
New York City, U.S.A.	720
Oslo, Norway	725
Panama City, Panama	730
Paris, France	73 5
Port of Spain, Trinidad and Tobago	740
Queson City, Philippines	745
Salisbury, Rhodesia	7 50
Seoul, Korea	760
Stockholm, Sweden	763
Sydney, Australia	765
Tananarive, Madagascar	770
Tokyo, Japan	775
Vienna, Austria	780
Warsaw, Poland	783
Wellington, New Zealand	785
Zurich, Switzerland	790

TWO

The Comparative Crime Data File (CCDF): A History and Description

In assembling the Comparative Crime Data File, we sought to create an archive with both comparative breadth and historical depth. Although the CCDF eventually grew to include 110 national and 44 urban entries, with data for roughly 1900–70, we undertook the project with no idea that the archive would reach this size. Data collection occurred over approximately five years. We pursued several methods of obtaining information, particularly early in this period. While some methods proved generally more effective than others, certain approaches were appropriate for certain societies. Given the great variety of nations and cities for which we hoped to assemble data, it was perhaps inevitable that no single technique would prove adequate in all cases.

The principal sources from which the homicide data were collected were (1) correspondence with national and metropolitan government sources in virtually all nations in the world; (2) a painstaking search through annual statistical reports and other official documents of those nations which have (at least at some time) published annual crime data; and (3) secondary examination of the records kept by various national and international agencies.

Although all three methods generated entries for the CCDF, the first strategy was the most productive and also the most interesting. Our initial procedure was to contact the consulates and embassies that most nations maintain in the United States. Personnel in some of these offices were able to refer us to authorities or specific agencies in their home nations. When references of this kind were not obtainable, our next procedure was to send "blind" (i.e., not addressed to named individuals) letters to various ministries in each country. In general, we invented the names of specific government agencies (e.g., "the Department of Justice") without knowing whether they existed. Each letter explained that we were interested in studying changing levels of five specific offenses in several nations during the twentieth century. Our inquiry asked whether the recipient of the letter could provide or direct us to annual data on the offenses of homicide, assault, robbery, theft, and rape or other sex offenses between 1900 and 1970.

Our inquiry stressed that the offenses we listed might be American or Western categories and that their own records might well be organized under different headings. We emphasized that we were interested in seeing their recording categories in their original form. In addition to national data, the letter requested parallel data for a specific major city in the same country. The letter expressed our appreciation for any help the recipient could provide and offered to pay any photocopying costs incurred by our request.

In many cases, our initial inquiry produced a reply directing us to another agency; we then sent our request letter to the suggested source. In some cases, the initial letter failed to produce a response, even after several months. In these instances, we invented the name of a different agency and sent our request letter again. Because of this need for a second (and in many cases a third or fourth) letter, we sent out many successive waves of requests, totaling perhaps five hundred letters. In most nations, the individuals we managed to contact were extremely cooperative and generous with their time, resources, and information. Many of them responded promptly with the information we had requested, and several sent more than we had asked for. Because our first contact rarely had information for both the nation and the large city, additional inquiries were usually necessary to obtain the urban data. In some cases, months passed without word, and then, unexpectedly, the information arrived. Agencies in a few nations placed us on the mailing list for their government's statistical annuals, and some of these publications continued to arrive years after our initial request for information.

Over a period of five years, the responses to our letters arrived from around the world in a seemingly limitless variety of shapes, sizes, languages, alphabets, letterheads, envelopes, and stamps. The data themselves took equally varied forms—booklets, penciled charts, entire volumes of national yearbooks, photocopies of published or unpublished lists, and massive typed or handwritten tables which unfolded like roadmaps. The variety reflected in the data was impressive, and the project quickly taught us how little we knew about political geography. We wrote to and received data from nations whose existence had been unknown to us prior to the project. In other cases, our ignorance about the situations of individual societies was underlined—when, for example, our correspondent referred to a set of data as for the "mainland" only. Without the aid of a political atlas, many of these comments would have been incomprehensible.

In some cases, the requested information arrived paired with a provocative national or political sentiment. For example, the Philippines Department of Justice letterhead read: "An orderly people make an enduring nation." Swaziland's envelope bore the legend: "Umhlaba

Uyimpilo Yetfhu—Wonge!" This was accompanied, fortunately, by the translation: "The soil is our greatest asset—help conserve it!" Many of the agencies responding to our inquiry furnished, in addition to the requested data, clarifications of their reporting procedures, informational pamphlets about their institutions and systems of justice, and various cautions about aspects of the data and their appropriate interpretation. Finally, almost all of our correspondents expressed great interest in our undertaking, and many asked to be informed of our results.

For many societies, there were indications that the information we received was not only unpublished but also untabulated prior to our request. The data we received from these societies were in the form of individually typed or even handwritten tables. Many correspondents were kind enough to construct their replies in English, and we began to appreciate just how difficult this must have been for some of them when we began receiving a flood of replies in a bewildering array of languages. In many of the letters we received, the only thing we could read was our own address at the top of the letter.

For the more frequently encountered languages, we were able to benefit from translations provided by helpful colleagues at the University of California. Less familiar languages posed greater problems; there were cases in which we could not recognize a single character in the entire correspondence. In these instances, we asked for and generally received assistance from appropriate embassy and consulate officials in the United States. Even after translation had been completed, some terminological problems remained. For example, it was often necessary to group the unique categories used by a nation under a more general rubric—for instance, a society might have as many as twelve distinct recording categories for homicides. Obviously, classifications of this kind can be difficult even when the literal meaning of a nation's recording categories has been translated.

Our primary goal, of course, was to assemble an orderly file of quantitative data on crime and violence to facilitate previously impossible comparative research. It is our expectation that much of the research which the CCDF makes possible will use the data in some form of aggregate analysis—that is, in a relatively dispassionate manner which emphasizes the data themselves more than the special characteristics of the historical period in which they were generated. This approach is, of course, an indispensable feature of most empirical research.

It seems vital to remember, however, that these comparative crime data were recorded across the moving history of changing societies. In some cases, this history spanned gradual changes in the political and social conditions of a nation. In other cases, it encompassed transformations so acute that it seems arguable whether the same nation existed before and after. When these historical events have been extremely dramatic or abrupt, it seems appropriate to consider whether and how the relatively fragile process of producing social indicators like crime data has been perturbed.

The letters and information we received with the requested crime records were an unanticipated but fascinating dividend of the data collection process. These documents provide an intriguing window on the histories of individual nations. Our correspondents sometimes volunteered information and opinions about the ways in which various national crises and changes could have altered the data they sent us. Some of these comments about dramatic events were made in a manner which seemed, to us, curiously understated. For example, our correspondent in Brunei wrote that some gaps in that nation's data were "due to various factors including a rebellion in 1962." Our correspondent in Denmark wrote, almost as an aside, a single sentence about what must have been one of the most desperate periods in his nation's long history: "We wish to add that the Danish police statistics date back to 1921 but are missing as far as the years 1944 and 1945, 'the policeless years,' are concerned." Similarly, our correspondent from West Germany noted that although other types of crime statistics had been maintained for an extended period, the police began making their own record of crimes for the first time under the German Reich in 1936.

Correspondents in other societies also commented on long-term changes which had affected or even transformed their nations. Some of this information was indispensable to understanding the data they sent us. Our Hungarian correspondent, for example, drew our attention to the Treaty of Trianon, which in 1920 stripped his nation of two-thirds of its area and population. Officials in other nations commented on the impact of chronic political conflict on records of crime. For example, the commander of Israel's Criminal Investigation Department commented on the periodic wars and guerrilla actions that his nation had experienced: "Even if a record had been kept of all incidents of murder, manslaughter, assault, robbery, etc., during the relevant [wartime] period, it is still extremely doubtful whether it would be possible to differentiate between incidents of a political or criminal motivation." Similarly, the crime data from Belfast and Northern Ireland arrived with an "x" noted before several years in the table and the following legend: "An 'x' denotes years in which subversive elements were to the fore in the Province."

The comments of a few correspondents also revealed, perhaps un-

wittingly, the potential interplay between political changes and a nation's recorded rates of crime. In one Asian nation, for example, our correspondent commented that his nation had a "stormy history full of ups and downs" and gave the following account of its recent experience:

In our nation, violence is apt to be exercised by groups or with the backup of some groups. From 1968 to 1970, prosecution intensified control of these villain groups and tried to reform them by organizing the national land construction corps to work on the irrigation and reclamation projects. However, these projects could not last so long because they were financed by the government. New minor gangsters sprang up like mushrooms both in the capital and in the countryside.

The case of another nation, whose civil liberties practices are a matter of current debate, provides a more chilling illustration of the ways in which crime data can sometimes be brazenly conscripted to serve political ends.² Our correspondent commented on recent trends in his nation's crime rates, asserting—without any apparent foundation in the data he himself sent us—that these rates had recently returned to the level of the 1950s after a long and steady increase. It is his analysis of this alleged change, however, that is of greatest interest:

This drastic reduction in the crime volume is due to various improvements in police service instituted by our government to improve peace and order which is one of the notable achievements in the new order in our country that have helped evolve a new concept in police work since the imposition of martial law in [date]. As a result, other syndicated crimes like smuggling, counterfeiting, and trafficking in illicit drugs have also been greatly reduced not only in [the major city] but throughout [the nation].

A European correspondent also commented on his nation's recent trends in various offenses and loyally attributed what he saw as improvements to the successes of the current regime. These three correspondents were the only ones, out of all those we contacted, who attempted to extract partisan political meanings from the data they sent us.

It is possible, of course, that many other nations also try to use crime rate fluctuations for domestic political purposes—to use "good" trends to justify the current administration or "bad" trends to provide a mandate for the next. Our work does not indicate how frequently crime data are politicized; we do know that letters from only three of our correspondents openly reflected this tendency. Naturally, to the degree that the data in a given society have direct political consequences, researchers must be concerned about possible pressures and temptations to create fraudulent records. This is true of any potentially political social indicator—housing conditions, infant mortality, life expectancy, median income, and so forth—and is not unique to crime data.

In summary, almost all the agencies and officials who responded to our request did so generously. Indeed, since the only reward for providing information was the altruistic satisfaction one might conceivably feel at assisting the halting progress of knowledge, the spirited cooperation we received was particularly impressive. Even when a correspondent reported that he did not possess the requested data, he generally expressed interest in our project and tried to suggest alternate sources.

In a project of this scale, some exceptions to this general pattern of remarkable cooperation were perhaps inevitable. In the case of a small number of countries, none of our letters was ever returned or answered, even after repeated requests. These nations, unfortunately, included the U.S.S.R. and several other Eastern European societies. Other nations usually thought of as Soviet bloc states—such as Hungary and Poland—readily provided data in response to our request. All our letters to the People's Republic of China were returned unopened, although various postmarks indicated that the letters had in fact reached Peking.

There were also a number of curious responses. In a few nations, for example, our first correspondents asserted that the data we requested had never been collected or had been lost—only to have other agencies in the same society send us these very data in response to a follow-up letter. In one industrialized society, this contradiction occurred between two agencies located in the same city. In these cases, it was only our persistence in sending additional letters to new addresses that secured the data for these nations.

We interpret these cases as additional evidence that, in some nations, historical crime records have not been the sole responsibility of any single agency. This kind of administrative diffusion poses the obvious danger that irreplaceable data can be lost—indeed, we assume that this has already happened for some of the nations missing from the CCDF. The obvious fragility of historical records of this kind seemed to us to lend added urgency to our efforts at collection and preservation.

As we have noted, direct correspondence with multiple agencies in other countries was by far the most successful of the various methods we used in assembling the CCDF. Correspondence produced data series which were longer, more complete, and more annotated than the series obtained in any other way. However, we also obtained information for some nations in two other ways.

One of these involved perusing hundreds of national statistical annuals. In general, these were of limited usefulness. Many nations do not include crime data in their statistical publications—although information on the nation's annual output of "pork bellies" or any other monetized commodity is abundantly available. This selective accounting may say something about the aspects of national life which individual societies

regard as worth recording. Statistical annuals are problematic for technical reasons as well. They tend, quite reasonably, to be printed exclusively in the nation's primary language, and they also present data without explanation or annotation. This makes it difficult to know which offenses are classified under various categories and also whether changes in law or recording practices have occurred. Despite these obstacles, we did obtain data for quite a number of societies from statistical annuals.

The third and final method we used was by far the least satisfactory. The International Criminal Police Organization (Interpol) maintains some crime records on member nations, and we examined all the annual volumes it had published through 1970. The most glaring disadvantage of this source for our purposes is that Interpol began assembling and publishing crime data only in 1953—and this makes the analysis of long-term trends impossible using these data. In addition, Interpol records begin with only 40 nations and do not report separate data for cities. Despite these problems, we included these data in the CCDF when all other methods failed to provide alternative records.

There are several other Interpol practices which further reduce the usefulness of its data, and these should be kept in mind in any analysis relying on Interpol statistics. For one thing, since Interpol depends on annual submissions of data by member nations, its records are frequently discontinuous. Interpol records are also virtually unannotated, leaving the reader completely uninformed about national changes in practice, law, reporting, or definition. Interpol also reports a summary index of the "total number of offenses." This index is apparently modeled on the kind of aggregate index favored by the U.S. Federal Bureau of Investigation's *Uniform Crime Reports*; this index sums across all offenses and is therefore analytically meaningless.

The most serious problem with Interpol data, in our view, is both simple and insurmountable. The data are collected using a standardized form of Interpol's own invention. This form includes six offense categories intended to "cover certain broad categories of ordinary law crimes which are recognized and punished in the criminal laws of almost all countries." These are murder, sex offenses, larceny, fraud, counterfeit currency offenses, and drug offenses. However, the scope of these categories appears to have changed slightly even during the short period in which Interpol has collected data. The murder category excludes "accidental manslaughter" in 1953, but by 1969 it excludes all "manslaughter." In addition, the adjective "illicit" was added to the drug offense description sometime between 1953 and 1969.

The use of a rigid, inflexible set of recording categories seems to us highly problematic because these offense types are rather arbitrary impositions on Interpol's member nations. These allegedly universal categories seem certain to obscure each nation's actual experience of crime and violence. Interpol deliberately redefines the "native" terms, categories, and classifications used by individual nations. For example, the 1969–70 volume notes:

The General Secretariat simply reproduces the information given on [the standard Interpol] forms from each country. It is not possible to extract data from official statistics compiled by countries on the basis of criteria other than those of the I.C.P.O.-Interpol international form. The information contained in the report is unsophisticated but uniform.

The motive behind Interpol's interest in uniformity is understandable but, we feel, ill conceived. The probable goal of uniform categories was to facilitate direct cross-sectional comparisons—for example, does nation A have more of a specific crime than nation B? The problem with this approach is that direct comparisons of this kind may be justified for the offense of homicide but are almost certainly unwarranted in the case of other offenses (this issue is discussed in detail in the next chapter).

Even if these crude comparisons were Interpol's goal, its own instructions to member nations seem more likely to produce erratic changes than uniform reporting. As just one example, Interpol's many instructions to member nations include the following (emphasis added): "If a case includes several offenses which are not directly connected with one another, each offense should be counted separately; if the offenses are directly related, only the most serious one should be counted." Since these distinctions are surely a matter of some judgment, they introduce a new source of systematic error—different nations seem certain to implement this and other Interpol directives differently.

A simpler and much superior procedure, in our opinion, would be to record "native" categories as they occur. This is in general the method we have followed in assembling our own Comparative Crime Data File. Instead of insisting on its own set of invariant categories, Interpol could have collated crime records exactly as the reporting nations recorded them, along with any necessary details on each nation's definitions and changes in law and practice. This would have minimized the errors which are inevitably produced when external categories are imposed on a nation's necessarily idiosyncratic experience.

This approach also seems more appropriate scientifically since, as discussed in the next chapter, longitudinal analyses within nations are more valid than the kinds of direct cross-sectional comparisons for which Interpol data have typically been used. For longitudinal analyses, the most important quality of a data set is the consistency with which it has been generated over time—and Interpol's arbitrary modifications of each nation's data seem certain to have reduced this consistency in unknown

ways. Finally, it is also surprising that none of the international agencies we contacted either referred us to Interpol's publications or acknowledged their existence. This omission seems especially striking since, presumably, Interpol must interact with these same international agencies to obtain the records it publishes.

Having indicated the ways in which the data were collected, it is also appropriate to note some of the data collection strategies that proved fruitless. For one thing, some international agencies and institutions which might be expected to record and furnish crime data have not done so. For example, the United Nations publishes an impressive quantity of social indicators which enable a researcher to study a wide range of national characteristics, from the number of physicians per 100,000 population to the number of radios. The United Nations does not, however, furnish any detailed, longitudinal data on crime rates, although it once made an effort in this direction. For example, in the late 1940s, the United Nations did report an index of the number of offenses known to the police for a small number of member nations. This index did not refer to specific types of crimes and was only a summary of "major" and "minor" offenses. Various U.N. publications also reported juvenile court conviction data intermittently during the period 1946–56.

In general, however, data on crime and violence have been omitted from the United Nations' published interest in its member nations. This is somewhat surprising in view of the exhaustive detail which U.N. publications present for other indicators of far less apparent significance. There are indirect indications, however, that the U.N. does not publish crime data at least in part because it regards these data as potentially embarrassing to member nations—perhaps because the publication of comparative data would expose those nations with unusually high rates of crime and violence.

This interpretation was given additional credibility by the United Nations' curious and seemingly contradictory responses to our inquiries about whether it maintained crime data. Our first inquiry prompted a response from the assistant director of the "Crime Prevention and Criminal Justice Section," which said simply, "I am afraid that we are not in a position to provide you with the material you require." Since we assumed that this was a reference to the time and effort involved, we offered to go to New York to examine the records ourselves. We also offered to reciprocate by providing the United Nations with the considerable archive of data we had collected on our own. The reply we received informed us that "any information available here is for member states." We wrote again asking whether or not the United Nations in fact had the data we were seeking and, if so, whether these data were considered classified information. In reply, we received the following

single sentence: "The answer to your questions is that information here is not available to the public or to individual researchers." This curious and rather secretive episode lent support to our belief that the U.N. does not publish crime data because they are regarded as politically sensitive. At any rate, the United Nations' secrecy was ultimately unimportant since our own methods of data collection proved successful.

A number of scholarly collections of "world indicators" have also omitted data on crime and violence. The two best-known collections of these indicators are the works of the World Data Analysis Program at Yale University (Russett, Alker, Deutsch, and Lasswell, 1964; Taylor and Hudson, 1972). Neither of these handbooks of social indicators has any information on crime. The omission of crime data in these social indicator volumes is perhaps understandable since both works depend heavily on U.N. publications. In any case, these two handbooks of world social indicators are only cross-sectional, so that longitudinal research designs are impossible with these data. Even if it is unpreventable, the absence of data on crime and violence from social indicator collections remains somewhat ironic, as Jouvenal (1966) observed:

The indisputable pioneer of social indicators is Quetelet. A large part of his work deals with the frequency of crimes of violence which he tried to correlate with various social characteristics. It is strange that [the authors of the social indicator volumes] who pay homage to Quetelet do not give us this measurement which he considered so important.

In summary, international agencies and previous scholarly efforts have failed to provide historical records on the rates of crime for a large sample of societies. The uncharted character of international crime rates made our own program of research seem well worth the effort required.

PREPARING THE CCDF

The finished array of data in the completed Comparative Crime Data File exhibits an orderliness which the original records obviously did not possess. Since the information arrived in a great variety of forms, it was necessary for us to make a series of procedural decisions before entering each nation's data set in the archive. In all these decisions, our general goal was to understand and, as much as possible, preserve the unique or "native" meaning the data sets carried within the society in which they were generated. We felt that this approach would minimize the risk of arbitrary interference with the data, and we wanted to avoid imposing a specific viewpoint, methodological fashion, or perspective. At the same time, we tried to be zealous about detecting any potential problems with each data set. Our approach, in short, was to try to maximize the external

intelligibility of each nation's data without compromising their original meaning.

Since many data sets arrived in need of an English translation, this was our first priority. In many cases, idiosyncratic terminology was a problem—and this was generally unaffected by translation. We ran across a great many terms which were completely mysterious to us. In these cases, we wrote to our international correspondents asking for clarification. The distinction between problems of translation and those posed by obscure terms can be illustrated with the specific cases of Hungary and India. Language, not terminology, was the problem in the Hungarian case, while terminology, not language, was the problem in the Indian data. The Hungarian information arrived in six large (11" × 16") hand-typed tables accompanied by a four-page letter. Not one word was in English, but, with the aid of a native speaker, we learned the difference between *emberoles* (murder) and *testi sertes* (assault).

The Indian data, by contrast, arrived in English. There were a number of terms, however, which were both unknown to us and unexplained. For example, all the offenses were listed in terms of the "volume of crime per one lakh of population," and listed next to robbery was the crime of dacoity. In search of an explanation, we wrote to the director of the Bureau of Police Research and Development in India, who informed us that a lakh was equal to 100,000 people. He quoted the definition of dacoity from the Indian Penal Code:

When five or more persons conjointly commit or attempt to commit a robbery, or where the whole number of persons conjointly committing or attempting to commit a robbery, and persons present and aiding such commission or attempt, amount to five or more, every person so committing, attempting or aiding, is said to commit "dacoity."

Translation and repeated correspondence were, therefore, the tools with which we tried to understand the internal meaning of the data sets. Although preserving the original qualities of the national data sets was our guiding principle, preparing these data for analysis made it necessary to establish and follow a series of conventions to maximize the validity and usefulness of this diverse archive. These conventions were as follows:

I. Offense Categories

National data were recorded in their original offense categories. For this purpose, we established three distinct categories of homicide data: murder, manslaughter, and homicide. Each nation's data were tabled under the label with which they arrived. Some nations record data in more than one of these categories, and other nations record only a single combined category such as "murder and manslaughter." A few nations

recorded one series (e.g., "murder") only until a given year, and then a different series (e.g., "homicide") after that time. In all cases, we constructed footnotes to indicate our best understanding of the exact nature of each nation's indicators.

2. Multiple Indicators

In some cases, more than a single indicator was identified for the same offense for the same period—for instance, homicide "offenses known" and also homicide "convictions." Parallel indicators of this kind were sometimes received from relatively independent sources, such as a Bureau of Police Statistics and a Department of Justice. The three distinct homicide categories in the CCDF made it possible for us to include more than one homicide series. We recorded these indicators in separate categories even though the same case could conceivably be present in both series—as an offense known and, later, as a conviction. The existence of these potentially redundant homicide series made it possible for us to address a classic methodological question about the reliability and validity of crime indicators, and this analysis is described in the next chapter. In cases where multiple indicators were available for the same offense, we again used footnotes to indicate the precise nature of each indicator.

3. Unique Indicators

In some cases, the original category labels used by individual nations were not identical to any of the general CCDF categories. In these cases, we used the closest equivalent and recorded the original offense name in a footnote. For example, Scotland's "culpable homicide" was tabled under homicide; Caracas's undifferentiated "violent crimes" was listed in place of homicide; and India's "dacoity" was included with conventional robberies.

4. Aggregate Indicators

In a few cases, space considerations made it necessary to collapse some of the detailed distinctions preserved in the original data. In these cases, we tabled the resulting aggregate under a single CCDF category. In the case of France, for example, we combined meurtre, assassinat, parricide, and empoisonnement into the single offense category of murder. Aggregations of this kind were, again, explained in footnotes.

5. Raw and Rate Data

We decided to present data on both the raw number of offenses and the offense rate per 100,000 population. For any systematic analysis, of course, data in raw form are useless, and virtually all the research re-

ported in this volume is based on rates. In some societies, however, a change as small as a single offense can produce a misleadingly dramatic change in the offense rate. In New Zealand, for example, the homicide rate doubled from 1946 to 1947—but the raw number of homicides increased from only two to four! We decided to present both raw and rate data in the CCDF to provide the kind of context and perspective that may be invisible with rate data alone.

6. National Populations

The data from some nations arrived in both raw and rate form. For many societies, however, we received only raw data. In these cases, it was necessary to obtain annual data on the population of these nations. We did this by consulting a variety of secondary statistical publications, including the *U.N. Demographic Yearbook*, using these population figures to generate the offense rates per 100,000 persons.

Even when a nation's data were received in both raw and rate form, we compared the same secondary population sources to the population figures the nations themselves had used in their own rate calculations. When differences were found, we preferred the secondary data and used them to recalculate the rates the nations had reported. The rationale for this preference was simple: the calculation of rates in noncensus years requires the use of population estimates based only on the single most recent census, while retrospective population series are based on interpolations between two known census figures. For this reason, we believe that we have used the best population estimates available. Since the CCDF presents both raw and rate data, however, future users of the file will be able to recalculate a nation's rates using any population data the researcher prefers.

7. Measure Changes

For each nation and city in the CCDF, we sought to determine whether the series contained any discontinuities which could not meaningfully be crossed. This was of obvious importance, since certain types of changes would render the before-and-after data incomparable. This could present major problems for longitudinal designs. It should be mentioned that only the data from some nations in the CCDF have problematic change points of this kind. Some of these changes, ironically, were produced when nations improved their statistical practices. The most frequent improvement of this kind involved a nation's decision to report the number of "offenses known" rather than another indicator from later in the "career" of an offense—for instance, arrests, indictments, convictions, incarcerations, or even prison populations.

The number of offenses known has been regarded as the optimal indicator for several decades although, as will be seen in the next chapter,

we have discovered that several other indicators are equally valid indices of offense trends. At different points in this century, however, a number of nations have discarded a less optimal indicator in favor of the number of offenses known. Although these changes were obviously well intended, they have sometimes done a disservice to researchers since some nations have abandoned their old indicator entirely instead of recording both the old and the new together.

The single most common indicator change in the CCDF has been from data on convictions to statistics on the number of offenses known. Finland made this change in 1927, Indonesia in 1929, and Australia as late as 1963. The effect of these measure changes on a nation's data is, not surprisingly, dramatic. Since the number of convictions is generally no more than a fraction of the number of known offenses, this change in indicators produces an enormous paper "increase" in the data—although this increase is of course an artifact. For example, after Australia changed from convictions to offenses known, in 1963, the homicide data almost tripled and the assault data increased more than tenfold. Most of our correspondents in individual nations were quick to draw our attention to these indicator changes when they had occurred.

Other measure changes were more subtle. For example, our Hungarian correspondent informed us that his nation began including cases of intent to commit murder in its murder data after 1962. We felt it was imperative to include cautions about all such measure changes, whether or not they appeared to have any discernible effect on the series. In Hungary, for example, no effect is apparent. In the case of all measure changes, then, we have tried to alert potential users of the CCDF to the danger of crossing—at least unwittingly—these change points. In the CCDF data set, all measure changes are explained in the data for each nation or city.

Finally, some data sets show interruptions because of wars, coups d'état, national emergencies, or bureaucratic lapses. When these interruptions produce a gap in the data for a particular nation, the effect is to produce more than one series of data for a given offense.

8. Political Changes

A few of our correspondents drew our attention to political changes which had altered the borders and populations of their nations. These changes reflect history and the vagaries of national fortunes. For example, the CCDF contains data for "Germany" from 1900 to 1930, but only data for West Germany after 1953. Similar political changes are reflected in the offense data of a few other nations: the partition of Hungary in 1920, the carving of Northern Ireland out of a formerly undivided state in the same year, and so on.

The net effect of changes of this kind is to create more than one

independent series within a single entry in the CCDF. For example, the file contains a series for an undivided Ireland from 1900 to 1912 and then, after an interruption, data for only the smaller Republic of Ireland beginning in 1923. A separate listing of data for Northern Ireland begins in 1922. Political changes of this nature are also explained in footnotes in the CCDF.

9. Data Quality

In any undertaking of this scale, when the original statistics are generated by hundreds of different agencies around the world, it seems necessary to assume that the quality of the data is variable. Because the issue of data quality in crime indicators is rather complex, a detailed discussion of these issues is presented in the next chapter rather than here. Since these concerns did affect the way in which we assembled the CCDF, however, their impact on our procedures deserves a brief explanation.

Some of these issues reflect differences among various offenses. As discussed in the next chapter, we restricted most of our attention to homicide because there is evidence that homicide data are more valid than data on other offenses. This difference explains our decision to record up to three different indicators of homicide offenses but only a single indicator of each other offense.

Other concerns about data quality refer to variation across different indicators of the same offense. As noted earlier, the indicator of offenses known has been preferred in the past over data on arrests, convictions, sentencings, or prison populations. It should again be emphasized that this classic concern about differences among indicators appears to be much less important for longitudinal analyses. The CCDF does contain a fairly wide range of indicator types. In the "C" section alone, Cameroon records "number of offenses reported," Canada records "convictions," and Colombia records "number arrested." Because of this diversity, the entries in the CCDF label the specific indicators which individual nations and cities have reported. This information is potentially useful for researchers who decide to limit their analyses to only those cases with the offenses known indicator, on the assumption that this restriction will maximize the validity of a given analysis.

The indicator label in the CCDF files also makes it possible for a researcher to test a hypothesis using progressive "waves" of data—that is, first using nations with the "best" indicator, then using nations with other indicators. A data quality control procedure of this kind allows a researcher to learn what effect, if any, data presumed to differ in quality have upon the conclusion one would draw from a given analysis. This procedure is ideally suited to cross-national research with large numbers of cases. In addition, data quality control is easily incorporated into most

research designs and can greatly increase rigor and precision. The usefulness of data quality control for the CCDF is illustrated in chapter 4, on the effects of war. In summary, since indicator quality is a recurring concern in cross-national research, each entry in the CCDF carries an indicator label. Individual researchers can use this label in sampling and research designs of their choice.

10. National Qualifications

As noted earlier, a number of our correspondents sent us certain cautions along with their nations' data. Some of these referred to specific gaps in the crime data, unusual time periods, or even a specific year. We recorded these qualifications in footnotes in the CCDF. In addition, we received cautions of a more general nature from a few correspondents. For example, some of them appeared to be concerned, rightfully, about the appropriateness of direct international comparisons of the absolute "amount" of a given crime. Thus, our New Zealand correspondent asked whether national differences in crime definition and reporting made exact international comparisons possible. These national differences are indeed problematic in direct cross-sectional comparisons, but they are controlled for in the longitudinal designs which constitute the largest part of our work.

Similarly, our correspondent in Scotland felt confident that his nation's data for both murder and culpable homicide were solidly comparable across the entire period from 1900 to 1973, but he wondered whether less serious offenses had been affected over this long period as much by variations in recording practices as by variations in the actual incidence of crime. We had also anticipated this concern, and it is reflected in our decision to focus primarily on homicide rather than less grievous offenses. In most cases, then, we had anticipated these general concerns in our choice of research designs.

Even nonhomicide offenses can be useful in a variety of longitudinal designs. For example, one could use the data on rape rates to identify the years in which reported rape appears to have increased in each of a sample of nations. This increase can be of considerable interest—perhaps in a study of the ways in which increased societal concern or police cooperation can affect offense reporting, even if one flatly assumes that no actual increase in the "real" rate has occurred. One might study changes in the willingness to report rape as an index of emergent concern about women's rights, as a measure of the effectiveness of reforms in police practice and jurisprudence, or as a reflection of other social changes. In addition, changes in the reported incidence of rape might occur in an interesting temporal order in various societies.

An understanding of these and other methodological issues is ob-

viously of pivotal importance to an informed use of the data in the CCDF. For this reason, any researcher interested in using this archive to answer a question of his or her own is strongly urged to become familiar with the discussion and caveats presented in the following chapter.

THE CCDF: AN OVERVIEW

Once the data for a nation or city had been prepared for analysis according to the ten conventions listed above, we used them to construct an entry for the CCDF. These entries were computerized and the complete file was printed in the format shown in the last part of this volume. A total of 110 nations and 44 international cities are listed in the archive. An overview of the contents of the CCDF is given in tables just prior to the entries themselves. This information can be used to select individual cases according to the needs of a given researcher. The tables indicate the total number of years for each entry in the CCDF and the approximate time period for each. Entries marked by one, two, or three asterisks contain a minimum of ten, twenty, or thirty years of continuous coverage independent of measure changes and gaps. Abbreviations are used to show which specific offenses are included for each nation and city.

NOTES

- Since we asked the recipients to go to considerable lengths on our behalf, we felt
 that an individually typed letter would be more effective than a form solicitation,
 despite the large number of requests involved. Our solution to this problem was to
 use word processing. A general form of our request letter (in English or Spanish)
 was programmed, and each individual request letter was generated by adding the
 name of an individual agency, city, and nation. The resulting letters were indistinguishable from a manually typed letter.
- In this and the preceding example, we have not identified the nation so as to protect
 our correspondent from possible reprisals. In at least one case, our correspondent
 wrote that he had tried for over a month to obtain his Director's approval to send
 the letter to us—without success. Despite this, our correspondent decided on his own
 to send us the letter and data.
- 3. International Crime Statistics (Saint-Cloud, France: Interpol, 1969-70), p. ix.
- 4. Even in the case of shifts and discontinuities, approximate longitudinal analyses are in some cases possible. If two series overlap for at least some period, it is possible to test for a relationship between the two series. If a strong relationship exists, the researcher can generate estimated values for the interrupted series. Even when the change is from one homicide indicator (convictions) to another (offenses known), we have found that the two indicators are highly colinear, as discussed in the next chapter. In theory, this would allow a researcher to project estimates for the missing values in either series when one has terminated. This kind of analysis is common in econometrics but until recently has been infrequently used in the other social sciences.
- Data quality control was pioneered by Raoul Naroll. The concept and procedure are described in his book Data Quality Control: A New Research Technique (New York: Free Press, 1962) and in later work (Naroll, Michik, and Naroll, 1980).

THREE

Problems and Prospects in Comparative Crime Research

INTRODUCTION TO THE ISSUES

Over the past two decades, researchers have raised important questions about possible sources of inaccuracy, incompleteness, and bias in official crime statistics. Although these critics have focused on a wide range of potential problems, the net effect of this close scrutiny has been to impugn the validity and usefulness of these records (Kitsuse and Cicourel, 1963; Wolfgang, 1963; Nettler, 1974; and Skogan, 1977). In the case of American statistics, the most frequent criticism is that these records reflect only a proportion of all crime because they fail to include unreported offenses. This problem has been given various names but is most frequently called *underreporting*.

While most research on underreporting has examined American crime data, the issue is presumably generic to official crime statistics from any society. The specter of missing or inaccurate data is of obvious significance for a data archive such as the CCDF. If massive underreporting is a factor in international crime statistics, the resulting ambiguities could be fatal to certain types of comparisons. Underreporting could hopelessly confound "real" changes in crime with "paper" changes—meaningless differences reflecting only variation or changes in reporting practices. Because this potential artifact clearly threatens some uses of international crime statistics, it is important to understand the precise nature and implications of underreporting.

A second problem concerns definitions and procedures. In the case of international statistics, it is said that cross-national comparisons are not tenable because different societies often use different indicators of crime—for example, offenses known, arrests, court cases, convictions, incarcerations, or even prison populations. If two societies maintain different indicators of the same offense, it is obvious that direct comparisons of the volume of the offense are problematic or impossible. While there may be other questions about crime data quality, the problems of underreporting and different indicators have caused the greatest methodological concern.

IMPLICATIONS FOR COMPARATIVE RESEARCH

In this chapter, an effort is made to assess the implications for comparative research of these two sources of potential invalidity or incomparability in official crime statistics. Our central goal is to identify (1) what kinds of research designs are jeopardized or even invalidated by these data quality problems, and (2) what research designs are valid despite them. By means of this analysis, we hope to provide potential comparative researchers with a highly practical guide to the relative validity of a range of research designs. Our basic theoretical approach is to treat various methodological concerns as hypotheses and subject them to empirical test or, if an empirical test is not possible, to try to identify what design types are most immune to the error and invalidity which would be produced if a critical hypothesis of this kind was, in fact, correct.

In our view, a sophisticated approach requires that one eschew both a blanket indictment of the usefulness of crime statistics and a naive or unthinking faith in their direct interpretability. Both of these approaches, we believe, are equally reckless and unwarranted. In addition, as this chapter makes clear, neither approach is supported by the existing evidence. Our intent is to try to identify the precise implications of several potential problems, and our approach is, wherever possible, empirical. We assume that official crime statistics may well contain sources of error but, in addition, we assume that these types of error pose a unique and variable jeopardy for different research designs.

For these reasons, it is our view that one of the best models for these methodological issues is a typology which examines the unique impact each potential problem poses for different research designs. Recent evidence on the problems of underreporting and nonstandardized indicators suggests that the degree to which they are problematic is a function of the specific comparisons one wishes to make. These two problems will be considered separately. Some recent evidence, particularly on the problem of underreporting, uses surveys of crime victims to generate unofficial estimates of crime rates. These "victimization" crime rates are then compared with official police statistics to estimate the "hidden figure" of unreported crime. Other research, particularly on the problem of different indicators, is now possible for the first time because of the CCDF. On the basis of this analysis, four different comparative research designs are compared in a summary typology which appraises the rulnerability of each design to these two data quality problems.

PROBLEM I: UNDERREPORTING

Few criticisms of official crime statistics have received more attention than underreporting, and few have been seen as potentially more important. The interest in this issue is scarcely surprising. It is difficult to think of any area of research on crime and violence—with the possible exception of ethnographic, descriptive, or case study approaches—in which the numerical *incidence* of crime is not of central concern. Studies of trends in crime, ecological differences, offender and victim populations, and virtually all other topics in the study of crime and violence depend at least in part on knowledge of the frequency and extent of the offense under study. The keen interest with which underreporting research has been greeted is due to the fact that measurement of the incidence of offenses is indispensable to empirical research on crime and violence.

Perhaps because empirical, quantitative research on crime statistics has been pursued with more enthusiasm in the United States than in many other nations, research on underreporting has centered upon American crime data. In addition, the crime records of other societies may be of higher quality than American data and, as a consequence, underreporting may be more of a problem in American crime statistics than in international data. This argument has been made by several scholars (e.g., Mulvihill and Tumin, 1969; Skogan, 1976) and also by a U.S. Presidential Task Force which concluded:

The United States is today, in the era of the high speed computer, trying to keep track of crime and criminals with a system that was less than adequate in the days of the horse and buggy.... In some respects the present system is not as good as that used in some European countries 100 years ago. (Task Force Report: Crime and Its Impact—An Assessment, President's Commission on Law Enforcement and the Administration of Justice, 1967: 123)

The principal reason for this criticism, at least in the United States, is that for approximately a half century this nation's official crime statistics have been drawn from police records, reflecting the number of complaints to and arrests made by individual police departments. The data from these departments are then forwarded to the Federal Bureau of Investigation which aggregates the data and publishes them as the *Uniform Crime Reports* (UCR). It may be that every system of recording crime statistics has a weakness, but the weakness of this particular system is particularly disquieting. Unless one is willing to assume that citizens are never reluctant or unmotivated to report crimes, it seems clear that these official police statistics are diminished by underreporting. As a consequence, it seems reasonable to be concerned that what appear to be characteristics of crime (e.g., an increase in rape) are in fact characteristics of underreporting (e.g., an increase in citizen willingness to report rape).

Underreporting has drawn attention to the "dark" or "hidden" figure of crime—that is, the unknown volume of offenses which never appear

in official American crime statistics. The sources and dangers of underreporting have been addressed by Wolfgang (1963) and Skogan (1976, 1977, and 1981) among other scholars. The hidden figure of crime is in many ways an empirical question, and the past fifteen years have seen a bewildering number of "victimization" surveys designed to estimate the magnitude and characteristics of the underreporting problem (Biderman, 1967; Biderman and Reiss, 1967; Ennis, 1967; Santarelli, Work, and Velde, 1974; Hindelang, 1976; Skogan, 1977 and 1981). Victimization surveys have even captured the imagination of the federal government; the United States conducts a periodic *National Crime Survey* to provide survey-based estimates of national crime rates.

The basic paradigm of victimization surveys involves the use of classical sample survey methods to produce estimates of the incidence of a variety of offenses. In a typical victimization survey, the respondent is asked whether he or she or anyone else in the household was the victim of a given crime within a specified time period, usually the previous twelve months. Depending on the sampling method used, the marginal incidence of the offense is then used to project a national rate for this particular crime. When these survey-based rates are compared to the rates based on the FBI's police statistics, the survey-based rates generally produce much higher estimates of crime rates.

The size of the hidden figure of crime appears to vary from offense to offense. In one study, for example, it was estimated that police statistics had recorded about one-third of all the burglaries and about half of the robberies, aggravated assaults, and rapes (Hindelang, 1976). Victimization surveys generally find that roughly half the respondents who mention an offense to the interviewer admit that they did not report it to the police, generally out of fear of reprisal, general cynicism, unwillingness to get the offender in trouble, or distrust of the police and judicial system. Underreporting also stems from the failure of the police to detect some crimes, to make arrests in some of the crimes they do detect, or to record some of the crimes that are reported to them—for instance, police "unfounding" procedures dismiss some reported offenses as false. Still other offenses may be lost if, in cases where an individual commits multiple offenses, only the most serious is recorded.

It has been suggested that underreporting may be an important social process in its own right, not merely a source of methodological contamination for crime statistics. Kitsuse and Cicourel (1963) have drawn attention to the role social definition plays in the reporting process, suggesting that crime statistics can be interpreted as indicators of official concern rather than as objective measures of the true volume of illegal acts. One researcher (Wheeler, 1967) has proposed that researchers examine the ways in which offenders, victims, and police interact to pro-

duce official crime statistics. A number of researchers have, in fact, approached the phenomenon of underreporting by direct observation of the differences between police records and the actual behaviors of delinquents, gang members, and young men generally (Murphy et al., 1946; McCord and McCord, 1959; Piliavin and Briar, 1964; Miller, 1967). In general, these observational or "field" studies concur with the general conclusion of victimization surveys that significant numbers of offenses are never recorded in official police statistics.

Most research on underreporting has, however, been undertaken to provide estimates of the "true" incidence of an offense and the magnitude of the underreporting proportion—the ratio of officially recorded offenses to the total number of offenses reported in victimization surveys. Direct comparisons between survey-based crime rates and official crime statistics are sometimes difficult because of differences in coverage, and a number of researchers have argued against direct comparison (e.g., Velde, Work, and Holtzman, 1975). Many surveys limit the age of their sample (e.g., to those over 12) while police statistics nominally include individuals of all ages; many surveys do not include homicide, white collar crimes, shoplifting, and other offenses included in police statistics.

It should be mentioned that victimization surveys are not without problems of their own if one's objective is an unbiased estimate of the "real" volume of crime. For example, just as police statistics may be diminished by underreporting, victimization surveys may also miss those offenses which respondents are reluctant to reveal to an interviewer. Certain offenses, such as rape by an acquaintance or a family member, are perhaps as unlikely to be reported in a survey as they are unlikely to reach police statistics (Skogan, 1976: 139). This problem has led to the suggestion that, at least for certain offenses, there is a "doubly dark" figure of crime—that is, offenses which are not reported to the police or to an interviewer in a victimization survey (Skogan, 1977b: 45).

Victimization surveys are also subject to a number of specific methodological problems. One of these has been called "telescoping"—the tendency of some respondents to report crimes that actually occurred before the time period covered in the survey. There may also be certain social class differences in the tendency to recall or report crime during an interview. This has been called the problem of "differential productivity of respondents" (Skogan, 1981).

In addition, problems intrinsic to survey research may also affect victimization studies. For example, Maltz (1977) reports that some of the National Crime Panel survey data show disquieting variance across interviewers—that is, some interviewers produce high rates of reported criminal victimization while other interviewers produce low rates. It is

difficult to know the precise reasons for this differential response, although it suggests that respondents are encouraged by or willing to confide in some interviewers more than others. Finally, there is some evidence that the structure of the victimization interview may also affect the likelihood that crimes will be recalled or remembered. In one study, respondents were more likely to recall a crime if they were first asked about their attitudes toward crime and the police; they were less likely to recall an offense if these attitude items were omitted (Maltz, 1977).

Despite these problems, it seems clear that the method of victimization research can produce useful information about crime and official statistics. This method also allows us to investigate the phenomenon of admitted underreporting—that is, the circumstances which characterize a victim's decision not to report an offense to the police. At least three variables in the offense itself appear to play a role in the decision to report the offense to the police: (1) in the case of thefts, the higher the value of the stolen items, the more likely the victim is to report the loss; (2) in the case of assaultive crimes, the victim is more likely to report the offense if a weapon is present; and (3) if the victim and offenders are strangers, the offense is more likely to be reported to police (Skogan, 1977). Existing research suggests that many victim characteristics, such as race, do not affect underreporting. Age, however, appears to be an important variable. Victimization surveys indicate that people under the age of twenty are much less likely than older people to report crimes to the police.

The seriousness of the offense is by far the most important determinant of whether or not it is reported. This has led to a tempering of what appeared to be, early in victimization research, somewhat revolutionary expectations. The finding in early victimization surveys that large numbers of offenses were missing from police statistics led some to assume that the "crime problem"—which already seemed grievous when judged from police statistics—was in fact a great deal worse than had been imagined. If only a third or a half of the crimes committed were being reported, according to this reasoning, then the actual rates of crime were in fact many times higher than the (already high) official crime rates.

New evidence suggests that this concern was exaggerated. While it is true that large numbers of crimes never reach police statistics, the importance of these unreported offenses is highly debatable. It is now recognized that most unreported crime consists of minor property offenses (Skogan, 1977b: 49). This finding has changed our understanding of the hidden figure of crime:

The reservoir of unreported crime contains a disproportionate number of less serious incidents involving small financial loss, little serious injury, and (infrequent) use of weapons. (Skogan, 1977b: 41.)

Contrary to considerable speculation about the portentous implications of unreported crime, these data indicate that the vast pool of incidents which do not come to the attention of the police does not conceal a large amount of serious crime. (Skogan, 1977b: 46)

It now appears, therefore, that while official American crime statistics do underenumerate, the degree of underenumeration varies inversely with the seriousness of the offense. With the possible exception of certain offenses such as rape, in which reporting could embarrass or stigmatize the victim, it seems reasonable to assume that the official data provide a reasonably accurate record of serious offenses. This new evidence restores to official crime statistics some important forms of usefulness.

The finding that serious offenses are relatively immune to underreporting has particular significance for the offense of homicide. At this time, there is no evidence that homicide data suffer from underreporting; in fact, there are strong reasons to believe that this particular violent crime is fully enumerated in official crime statistics. For example, a presidential crime commission concluded that, compared to other offenses, homicide was an especially valid indicator because it appeared to be invulnerable to police misclassification (Mulvihill and Tumin, 1969). Historians of crime and violence also have urged attention to this offense precisely because it appears to have been relatively invariant in definition and tabulation. Crime historians have been particularly sensitive to the risk of confusing mere definition or measurement changes with actual crime rate changes and, in general, they have concluded that this risk

is more serious for certain kinds of crimes than for others. For example, it is unlikely that there has been significant change over the last hundred years in the way in which murder has been defined or murderers apprehended. (Ferdinand, 1967: 86)

There is other evidence on this question as well. Researchers on homicide have concluded that the overwhelming majority of homicides are cleared by arrest and that, as a result, police statistics fully enumerate this offense. Other researchers have concluded that the FBI's *Uniform Crime Report* is accurate for the offenses of murder and non-negligent manslaughter (Hindelang, 1974). In most victimization surveys, including the National Crime Panel Survey, the offense of homicide is not even included because it is believed to be fully enumerated (Skogan, 1977b: 45).

In the victimization survey by Ennis (1967), however, respondents were asked to note any homicides of which they were aware. In this study, the data indicated that official crime statistics on this offense were accurate and valid. Thus, evidence on this question appears to be consistent and persuasive: homicide is the most valid of offense indicators in that official statistics on this offense are immune to underreporting.¹

Since the majority of victimization surveys have been done in the United States, the effect of underreporting on international crime data is less well understood. As indicated earlier, there is a widespread belief that the official crime statistics of the United States are in many ways inferior to those of other industrial nations. At the same time, the few cross-national victimization surveys that have been done suggest that underreporting also occurs in other societies and that the pattern of decreasing underreporting with the increasing severity of an offense is similar to that in the United States (e.g., Sparks, 1976; Sparks, Genn, and Dodd, 1977).

In cross-national records on homicide, it appears to be the case—as in the United States—that underreporting is simply not an issue. Existing evidence suggests that homicides are fully enumerated (Phillipson, 1974; Verkko, 1953 and 1956). These findings indicate, again, that data on homicide are superior to other offense data in terms of their resistance to underreporting. As a result, as will be discussed below, homicide data can be presumed to be valid for a wide range of research designs—only some of which are appropriate for data on less serious offenses.

Underreporting and Levels of Crime

These findings that not all offenses are reflected in official crime statistics and, at the same time, that the most serious offenses—particularly homicides—are fully enumerated have nontrivial implications for the validity of research on crime and violence. These implications, clearly, vary depending upon the specific offense examined and the uses to which official crime data are applied.

The research designs most vulnerable to the problem of underreporting are those which address the absolute volume or level of an offense. The basic problem with this sort of analysis is that one cannot assume a priori that the "underreporting proportion"—the ratio of reported offenses to total offenses—is invariant. For example, a study using official crime statistics to compare the levels of burglary in two cities (or two nations) will be jeopardized or even invalidated if the underreporting proportions in these two units differ. Similarly, a study comparing the level of burglary in a city (or nation) in 1960 and 1970 will produce spurious results if the underreporting proportion has changed during this decade. This problem is not limited to comparisons: it also affects one-sample studies—for example, a simple estimate of the probability that a home in a given city or nation will be burglarized in a given year will be inaccurate if the underreporting proportion for this offense is low.

The generic problem in such research designs is that the "real" crime rate and the underreporting proportion are hopelessly confounded. If

official statistics show that city A has a higher rate of burglary than city B, we can conclude either that city A really has a higher burglary rate or that city A does not have a higher burglary rate but merely a more complete enumeration of this offense. This uncertainty is irreducible for certain uses of official crime statistics. In some cases, of course, one could do victimization surveys to answer these questions—but, quite apart from the different set of problems which characterize victimization surveys, the expense and time required would severely restrict the number and range of possible investigations.

There are a number of possible solutions to this problem of the confounding of offense levels and underreporting proportions. Each of these solutions carries a different form of threat to the validity of the inferences a researcher might hope to draw. The most conservative solution is to renounce all comparisons of the levels of various offenses. One might argue that the confounding effects of underreporting proportions make the "real" level or volume of an offense fatally ambiguous and, therefore, useless to the investigator.

While we are not unsympathetic with this conclusion, our own inclinations are to take a somewhat less conservative approach. This purist argument is highly persuasive, in our view, for a particular combination of indicators and designs which we believe may well be generally invalidated by underreporting: analyses of the absolute level of nonhomicide offenses. Instances of this research design abound in both American and cross-national research—for example, contrasting the robbery rate in California and New York, estimating the frequency of assault in Chicago, calculating the "clearance rate" (arrests/number of offenses) for burglary in the United States, and comparing rape rates in the United States and Britain. Such studies require us to believe that official statistics provide valid estimate of the real level of these offenses—and the evidence from underreporting research makes this belief generally untenable.

In some cases, these questions may have empirical answers. For example, before making the comparisons of crime levels mentioned above, one could examine victimization survey data from the affected jurisdictions to determine whether the underreporting proportions differ in the jurisdictions to be compared. If the underreporting proportions do not differ, the evidence from the victimization research could be reported as empirical justification for using offical crime statistics in a direct comparison of crime levels.

On the other hand, if the underreporting proportions do differ in the jurisdictions one wishes to compare, a weighting procedure might be appropriate. This procedure can be illustrated using one of the hypothetical comparisons listed above—a design which contrasts the robbery rate in California and New York. Suppose that official statistics show the

robbery rates of these two states to be, respectively, 100 and 65 offenses per 100,000 population. Suppose further that victimization surveys have shown the respective underreporting proportions to be .80 to .50—i.e., that 80% of all robberies are reported to the police in California but only 50% of all robberies are reported to the police in New York.

One can use this information to produce new estimates of the robbery rates in the two jurisdictions. In this example, the "corrected" or "adjusted" robbery rates (i.e., the official rate divided by the underreporting proportion) are 125 and 130. Contrary to the impression produced by official statistics, therefore, New York would have a higher robbery rate than California when the official statistics are corrected for underreporting.

In summary, research on the *levels* of one or more crimes requires that certain assumptions be made about the underreporting proportions which characterize the offenses under study. Two reporting units (cities, states, or nations) can be compared on the level of an offense only if one or more of the following conditions are met: (1) underreporting is not a problem for this offense; (2) underreporting proportions for this crime are known and are essentially equal for both reporting units; or (3) underreporting proportions for this crime are unequal but can be used as weights to correct the official rates for this offense.

These conditions are clearly stringent. At present, there is only a single offense for which underreporting can be assumed to be no problem: homicide.² For this reason, comparisons of the *level* of homicide in different jurisdictions can reasonably be assumed to be immune to underreporting and therefore valid. There are, of course, other considerations which affect cross-national comparisons—for instance, statutory differences between nations in the way this offense is defined, an example being the distinction between homicide and manslaughter.

In general, however, homicide is an offense which appears valid for virtually all comparative research designs because all existing evidence suggests that this offense is fully enumerated. Research designs on the levels of nonhomicide offenses must therefore meet at least one of the remaining two conditions, both of which require estimates of the underreporting proportions for the jursidictional units in the research design. For cross-national comparisons of the levels of an offense, these two conditions cannot be met at present since little or no empirical research has been done on underreporting proportions in other societies. Although the prevailing belief among many social scientists is that underreporting is not a problem in many other nations, this assumption has not been widely documented with victimization research in a large sample of nations.

With the exception of the fully reported offense of homicide, there-

fore, simple cross-national comparisons of the levels of a crime are at present imprudent or even unwarranted. In the absence of empirical estimates of underreporting proportions in the societies under study, such comparisons would require the seemingly indefensible assumption that the two unknown proportions are equal.

The prospects for the comparisons of crime levels within the United States may be somewhat brighter, if only because more victimization surveys have been done. If one examines a number of victimization surveys, it appears that—even though underreporting certainly exists—the underreporting proportions are fairly stable across different jurisdictions. A number of such surveys are listed in table 3.1, and the underreporting proportions uncovered in these surveys are indicated. For the offense of robbery, for example, table 3.1 indicates that the mean

Table 3.1. Comparison of Independent Estimates of Underreporting Proportions for Five Offenses

Offense	Five-city st	udy≖	Eight-city s	tudy ⁶	Thirteen- city study ^c		UCR/ Ennis ^d
	Mean proportion	Range	Mean proportion	Range	Mean proportion	Range	
Robbery	.51	(.4760)	.52	(.4457)	.53	(.4465)	.65
Simple					•	100	
Assault	.33	(.2837)	.33	(.2739)	.33	(.2945)	,e
Aggravated							
Assault	.53	(.5157)	.51	(.4660)	.48	(.4155)	.49
Aggravated							
Assault							
with	.66	(.57–.73)	.58	(.5263)	.58	(.46–.77)	e
Injury Rape		(.37–.73) (.46–.61)		(.3558)		(.34–.65)	
		•		•		• •	
Burglary Household	.54	(.52–.57)	.54	(.5057)	.53	(.46–.58)	.31
Larceny	.24	(.2226)	.27	(.2032)	.25	(.1932)	.44

Notes: The underreporting proportions in the five-, eight- and thirteen-city studies are the ratio of two self-report figures: (1) the number of crimes respondents said they reported to police and (2) the total number of crimes respondents said they experienced. The UCR/Ennis proportion, however, compares self-report data to the actual police statistics compiled in the FBI's Uniform Crime Report.

- Means calculated from Table 8 of Santarelli et al. (1974b).
- b Means calculated from Table 8 of Santarelli et al. (1974a).
- e Means calculated from the thirteen different Table 6's of Velde et al. (1975).
- ⁴ Underreporting proportion calculated from Table 1 of Ennis (1967), using the UCR rates for individuals and residencies.
- * The Ennis survey did not report rates for these assault categories.

underreporting proportion was .51 in a five-city survey, .52 in an eight-city survey, and .53 in a thirteen-city survey. Table 3.1 also presents the range of underreporting proportions—for example, in the five-city survey, the robbery underreporting proportion varied from .47 to .60.3

It is apparent from table 3.1 that underreporting varies from offense to offense—for instance, household larcenies appear to be reported relatively infrequently while robbery and aggravated assault with injury appear to be enumerated much more fully. Despite the variation across offenses, the range of the underreporting proportions within each offense category appears to be narrow, at least for some offenses. Since sampling errors occur in any survey, it may not be unreasonable to assume that ranges of this magnitude could be accounted for merely by the standard error of the mean. At any rate, it does not appear to be the case—at least for some offenses—that the underreporting proportions vary widely from city to city. This stability is perhaps particularly impressive since the twenty-six cities included in this comparison vary greatly in size and other characteristics.

For these twenty-six cities, then, valid comparisons of the absolute level of certain crimes, particularly the more serious offenses of aggravated assault and robbery, may be possible. The jurisdictional stability of underreporting in this analysis supports the conclusion that underreporting may be due to the nature of the offense rather than to a wide range of variables which vary unpredictably from city to city. This information could be used in diverse ways. If underreporting proportions appear highly stable across jurisdictions—as they do for the offense of robbery—then one would feel encouraged to compare directly official statistics on the robbery rates in these cities.

For other offenses, one could even compute how different the underreporting proportions would have to be to produce spurious offense rate differences of an observed size. For example, suppose city A reports an aggravated assault rate of 200 (per 100,000 persons), while city B reports an aggravated assault rate of 400. For this difference to be spurious (i.e., due to inter-city variation in underreporting), the underreporting proportions in the two cities would have to differ by a factor of at least 2:1. For example, the underreporting proportions would have to be something like .40 in city A and .80 in city B. An examination of table 3.1 shows that, across all twenty-six cities in the comparison, the offense of aggravated assault varied only from .41 to .60. This suggests that a 2:1 ratio between the underreporting proportions of city A and city B is extremely unlikely and that the observed higher assault rate in city B is real rather than spurious.

This analysis can be stated in more general form. The relative stability of the underreporting proportion can be used to determine how likely

it is that an observed difference in the official offense rates of two jurisdictions is only an artifact of differential reporting. The general form of this informal "spuriousness test" might be stated as follows:

If two jurisdictions have rates of the same offense which have a ratio of x/y, this difference in offense rates is (other things being equal) genuine unless one is willing to assume that the underreporting proportions in the two jurisdictions have a ratio which is as large as or larger than y/x.

This spuriousness test has the obvious implication that large differences are affected less by underreporting artifacts than are small differences. For example, if two cities have burglary rates of 3000 and 1000 (per 100,000 population), these rates make a ratio of 3:1. The underreporting proportion in the city with the apparently higher burglary rate would have to be *three* times higher (e.g., .31 vs .93) for this crime rate difference to be an artifact due to underreporting. As the data for burglary in table 3.1 indicate, differences of this magnitude in underreporting proportions seem extremely unlikely.

A smaller difference in observed offense rates would, of course, be more vulnerable to underreporting. If two jurisdictions had reported rape rates of 20 and 30 (per 100,000 population), for example, this difference could be an artifact if the underreporting proportions in the two jurisdictions had a ratio of 3:2—e.g., .60 and .40. As can be seen from table 3.1, this difference is—unlike previous examples—within the apparent range of underreporting for the offense of rape. As a result, it might be judicious in this instance to conclude that the comparison is indeterminate. The difference between the two jurisdictions could be genuine, but it could as easily be an artifact of differential underreporting in the two jurisdictions.

In summary, studies of the level of an offense are vulnerable to underreporting. In particular, the following conclusions appear warranted: (1) in the case of homicide, underreporting appears to be negligible or nonexistent, and studies of the levels of this offense are therefore not problematic; (2) for other offenses, it appears that the most serious offenses are well enumerated—that is, most are reported; (3) less serious offenses are more often underreported; (4) in cases where the magnitude of the underreporting of an offense can be estimated, this estimate can be used to produce weighted or corrected estimates of the offense rate; (5) even for the less serious offenses, underreporting proportions appear to be fairly stable, at least in the United States; and (6) in comparisons of crime rates in two jurisdictions, one can determine whether observed differences in crime rates are likely to be genuine or an artifact of differential underreporting in the two jurisdictions. Some of these conclusions, while warranted in terms of available evidence from U.S. crime

statistics, have not been examined using cross-national data. For this reason, some caution seems appropriate before assuming that these conclusions also apply to the data of other nations.

From the above analysis, it appears that underreporting proportions are reasonably stable across different jurisdictions. This stability provides indirect encouragement for comparisons of offense levels in the same jurisdiction at two or more points in time. Longitudinal research designs examine changes in an offense rate over time. This type of design seems warranted on theoretical grounds, since most of the factors which produce underreporting seem likely to be relatively enduring in nature. This assumption about the temporal stability of underreporting proportions is addressed in the next section of this chapter.

Underreporting and Trends of Crime

In the previous section, we examined the implications of underreporting for studies of the level of an offense. For reasons which will be indicated in this section, studies of *trends* of an offense are almost certainly less vulnerable to underreporting. This is because many of the idiosyncratic ways in which a nation generates offense rates—definition, record keeping, social or cultural attitudes about the seriousness of different offenses, etc.—are relatively durable over time. Studies of offense trends therefore hold these idiosyncrasies—and the underreporting proportions they produce—constant.

A comparison of how German and American assault rates changed after World War I would, for example, be unaffected by national differences in underreporting proportions as long as the proportions remained consistent. This comparison would not require that the underreporting proportions be the same in both countries, only that they be stable within each country. As an extreme example, one could make this comparison even if 80% of all assaults were reported to the police in Germany (i.e., an underreporting proportion of .80) but only 20% of the American assaults were reported. This very large difference would have no effect on the study of assault rate changes after World War I—as long as these proportions were stable within both societies. Similarly, a comparison of the relationship between unemployment fluctuations and trends in robbery in the United States and England would be unaffected by different underreporting proportions in these nations, as long as the proportions remained internally consistent.

While studies of offense levels are strongly affected by underreporting, studies of offense trends are relatively unaffected because trend research does not require the assumption that underreporting proportions are the same in the jurisdictions to be compared. The importance of this distinction between studies of offense levels and studies of offense trends

has been recognized for some time, although its implications for the problem of underreporting have not been generally recognized. More than forty years ago, however, the difference between offense levels and offense trends was noted by the celebrated historian of crime Leon Radzinowicz:

The impossibility of determining numerically the static aspect of criminality need not be any bar to a determination of its dynamic aspect—i.e., the changes taking place in the course of time. (1939: 275)

Trend designs are relatively invulnerable to underreporting because, unlike studies of offense levels, they require only a single condition or assumption: that reported offenses are related to the real number of offenses by some constant, which can be known or unknown. For example, if roughly 50% of a nation's robberies are consistently reported to the police, then official statistics on this offense are a perfectly valid index of *trends* in robbery—even though the official statistics greatly underestimate the actual incidence of this offense.⁵

In trend designs, it is unnecessary to use weighting to correct for underreporting proportions or even to know what these proportions are—as long as a researcher is willing to assume that these proportions are stable over time. Trend designs are even valid if some types of variation occur in the underreporting proportion over time. If this proportion fluctuates randomly around some mean value, then trend designs would suffer only from random (or "benign") error and not biased (or "malignant") error (Naroll, 1962). Random error has been called "benign" because it generally affects a research design only in a conservative direction—that is, it can decrease a researcher's chance of discovering a relationship in a data set but is unlikely to produce a spurious finding. In the case of crime trend research, this is because random errors inflate the nonmeaningful variance or "noise" in the offense rate. The effect of this "noise" upon research is called "attenuation," a reduction in the researcher's chance of identifying an important change or a relationship between two variables.

Spurious findings, by contrast, occur in cases of biased or malignant error—e.g., cases in which the error in the underreporting proportion over time is correlated, directly or indirectly, with an independent variable in a research design. For example, an urban police department's announced "crackdown" on street robberies could have the paradoxical effect of increasing the official robbery rate if the announcement somehow increases the likelihood that victims will report robberies, thus changing the underreporting proportion. The research designs in greatest jeopardy of spurious findings of this kind are, of course, studies designed to evaluate some intervention or policy change.

In general, trend designs require only the minimal assumption that underreporting proportions are stable over time, or at least stable with only random fluctuations. In theory, at least, this is an eminently testable assumption. In the case of American offense data, for example, one could test the temporal stability of underreporting proportions by means of consecutive replications of victimization surveys in the same jurisdictions—for example, by replicating in serial fashion the surveys of Santarelli et al. (1974a and 1974b) and Velde et al. (1975). Longitudinal victimization surveys of this kind could indicate whether underreporting proportions are stable over time. At the present time, however, definitive evidence on this question does not exist. For example, Skogan (1977b: 50) concluded that there were no data upon which to estimate the temporal relationship between reported and unreported offenses. At the same time, the existence of a National Crime Panel presupposes serial victimization surveys and, from a purely methodological perspective, this would be one of the most important contributions victimization research could make.

Lacking victimization surveys which are comparable over long periods of time, a number of less satisfactory approximations are available. For example, one of the reports of the National Crime Panel survey (Velde, McQuade, Wormeli, Bratt, and Renshaw, 1976) compared underreporting proportions in the 1973 and 1974 surveys; another (Velde, Wormeli, Bratt, and Renshaw, 1977) compared underreporting in the 1974 and 1975 victimization surveys. These comparisons do not provide ideal tests because they compare data from consecutive years rather than from longer intervals. But we have examined these data to see whether there are any changes in reporting over time and, if there are, whether these changes are any greater than the random fluctuations one would expect from sampling error alone in any survey.

In the study comparing the 1973 and 1974 data, the median percent change in reporting (offenses victims say they reported to police/all offenses victims say occurred) was +2.8% over 33 different offense categories. This figure was roughly half the median standard error (5.7%) for these 33 offense categories—that is, this 2.8% change in reporting appears to be due to sampling differences alone. In the comparison of the 1974 and 1975 data, the median change in reporting was +1.9% over 33 offense categories. This figure was, again, much smaller than the median standard error in these surveys (5.3%). In these two studies, therefore, the reporting proportions appear to be impressively stable, with no evidence of overall changes in underreporting.⁶

There is also some indirect evidence which offers grounds for considerable optimism on this point. The underreporting proportions for the twenty-six cities in table 3.1, for example, show generally impressive

consistency within a given crime category. This cross-sectional evidence suggests that the magnitude of underreporting may be firmly linked to the nature of specific offenses rather than to the (presumably changing) conditions of individual cities.

In summary, the study of offense trends is notably less problematic than research on offense levels. Although much research remains to be done, existing evidence suggests that underreporting proportions are reasonably stable over time, at least for the more serious offenses. This relative stability may be because underreporting is a function primarily of the seriousness of an offense rather than of other, more transitory factors. As discussed earlier, data on homicide are immune to the effects of underreporting and therefore are a valid basis for comparative analyses of both levels of and trends in this offense.

PROBLEM 2: DIFFERENT INDICATORS

A persistent concern of researchers on crime and violence has been the relative merits of different indicators of the "real" level or rate of various offenses. There is a variety of potential indicators inherent in any criminal justice system: (1) the number of criminal acts known to the police ("offenses known"); (2) the number of suspected offenders detained ("arrests"); (3) the number of persons brought to trial ("indictments"); (4) the number of individuals found guilty of an offense ("convictions"); (5) the number of people sent to prison or some other institution ("incarcerations"); and even (6) the total number of persons incarcerated at any one time ("prison population").

Each of these indicators can provide a reflection of how much of a given offense is occurring in a society although, obviously, not all these reflections would be of equal size or accuracy. Various indicators occur at different distances from the offense itself, so that one would expect to observe roughly declining sums at successive points in the justice system: fewer arrests than offenses, fewer indictments than arrests, fewer convictions than indictments, and so on. This pattern of diminishing numbers has been called "criminal case mortality" (Van Vechten, 1942). One of the most famous dicta in the study of crime concerns this issue: "The value of a crime for index purposes decreases as the distance from the crime itself in terms of procedure increases" (Sellin, 1931: 346).

It is for this reason that the number of offenses known is considered to be the most accurate official measure of actual criminal behavior. It can be argued, of course, that victimization surveys are even closer to the offense than *any* of these official indicators (Maltz, 1977: 35). As a result, some researchers have concluded that, except for the fully enumerated offense of homicide, no official statistic will correspond directly to the number of criminal acts in society (Nettler, 1974: 44). At the same

time, it is certainly the case that not all official statistics are equally accurate, and the number of known offenses is considered highly preferable to other indicators (Clinard and Abbott, 1973: 22).

Although less desirable as measures of the volume of crime, other indicators still have potential uses. For example, one could use the indicator of the prison population to see whether conviction and sentencing patterns are affected by crowding or vacancies in a society's prisons. It might be that judicial discretion in sentencing (e.g., suspended vs. served sentences) is highly sensitive to the prison space available. If so, one would expect to find that the severity of judicial sentencing would correlate with, but lag behind, fluctuations in indicators of the prison population.

For research designs in which the incidence of an offense is theoretically important, however, many researchers have assumed that valid analyses are impossible with measures other than the number of offenses known. This is a methodologically rather "purist" position and, although it appears to be widely held, an analysis presented later in this chapter suggests that this position greatly understates the validity and usefulness of other types of indicators. Whether or not the offenses-known indicator is available, however, it seems clear that many types of direct comparisons are not meaningful unless one has at least the *same* indicator in the jurisdictions one wishes to compare.

Different Indicators and Levels of Crimes

The problems posed by different indicators are particularly important for comparisons of the absolute level of an offense in a number of jurisdictions. These difficulties become acute in cross-national research because it cannot be assumed that the magnitudes of "case mortality" (e.g., attrition from the number of known offenses to the number of convictions) are similar across nations. Direct comparison using different indicators is vulnerable to potentially gross differences in the efficiency of national systems of criminal justice. It might be the case that 80% of all robberies are cleared by arrest in one society but only 25% in another nation. In this instance, national differences in the incidence of the offense would be hopelessly confounded with national differences in the clearance rate for this offense.

The hazards posed by this indicator problem are easy to illustrate concretely. Suppose, for example, that one wished to make a comparison of the absolute level of the homicide rates in the United States and Canada in 1970. This comparison would be impossible if only convictions data were available for the United States and only offenses known data for Canada. In some cases, the availability of additional data can solve

this problem. If both indicators can be obtained for a sample jurisdiction or sample time period in one of these societies, one can determine the ratio of the two indicators and, on this basis, generate an estimate of the value of the missing indicator.

For example, if sample data show that homicide convictions in the United States are consistently .8 (4/5) times the number of known offenses, the convictions data could be weighted by 1.25 (5/4) to estimate the number of known offenses. This estimated number of known offenses in the United States in 1970 can then be compared with the reported number of known offenses in Canada in 1970. In the absence of a sample of simultaneous indicators for at least one society, however, a simple comparison across two different indicators would produce a spurious elevation in the estimate of the homicide rate in Canada.

The problem of different indicators has implications for research with the CCDF since our data file includes a variety of indicators. For most nations in the file, the preferred indicator of known offenses is available. For a few nations in the file, only a less desirable indicator, such as convictions, is available. For some of the nations in the CCDF, two indicators are available for the same years. Nations with multiple indicators can be used to assess the value of even poor indicators for certain research designs, and this analysis is presented below.

Different Indicators and Trends of Crime

As discussed above, different types of indicators are of variable quality for estimating the "true" incidence of an offense. However, even imperfect indicators of the volume of an offense can still be useful indices of the *trends* in an offense if they can be assumed or shown to be related to the number of known offenses over time by some constant function. If this can be demonstrated, then fluctuations in these imperfect indicators (arrests, convictions, etc.) can still be used as indices of fluctuations in the incidence of known offenses. If indicators of different quality were found to bear a linear relationship to the number of known offenses, in short, it would be possible to use imperfect indicators to estimate trends in a good indicator which is not available.

Thus the critical empirical question concerns the relationship between good and imperfect indicators. Using data from the CCDF, we were able to assess the degree to which several different indicators manifest the same trends over time. The results of this analysis, using sixteen cases in the CCDF for which two indicators are available, are presented in table 3.2.

The evidence in table 3.2 strongly suggests that even poor indicators can serve as valid indicators of offense trends. This finding has nontrivial

Table 3.2. Correlations between Good and Imperfect Indicators of the Same Offense

		Correlation betwee indicators for each o		
Australia	1964-1972	(1) Crimes known	Murder and	
		(2) Crimes	manslaughter	1.00*
		cleared	Assault	1.00-
			Rape	.98
			Robbery	.96
Canada	1919-1943	(1) Offenses	Offenses against	
		known	the person; mur-	
		(2) Convictions	der, manslaughter	
			and assault	.90
			Offenses against	
	,		property with vio-	
			lence; robbery and	
			burglary	.93
			Offenses against	
			property without	
			violence; theft	.94
Canada	1952-1967	(1) Charges	Homicide	.82
		(2) Convictions	Assault	.96
			Robbery	1.00=
			Theft	.93
			Offenses against	
			women	.98
Denmark	1933-1947	(1) Crimes known	Homicide	.95
		(2) Crimes	Assault	.96
		cleared	Rape	.90
			Robbery	.91
			Theft	.97
Denmark	1948-1959	(1) Crimes known	Homicide	.92
		(2) Crimes	Assault	.92
		cleared	Robbery	.91
			Theft	.87
			Rape	.81
Finland	1913–1924	(1) Offenses reported (2) Prosecutions	Homicide	.84
		(1) Offenses reported (2) Convictions	Homicide	.74
		,_,		•

Table 3.2. (continued)

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00
98
.42
.92
.97
.42

Table 3.2. (continued)

			Correlation between two		
Nation	Years	Indicators	indicators for each	offense	
Sweden	1959-1966	(1) Offenses	Homicide	.89	
		reported	Robbery	.86	
		(2) Offenses	Burglary	.48	
		cleared	Rape	.82	
Tanzania	1962-1972	(1) Crimes known	Murder and		
		(2) Convictions	manslaughter	60	
			Assault	52	
			Robbery	.74	
			Theft	39	
Thailand	1945–1962	(1) Crimes known (2) Convictions	All offenses	1.00*	
U.S.	1933-1971	(1) UCR murder and non- negligent manslaughter (2) Rates of death caused by homicides— vital statistics of U.S.b	Homicide	.85	
		Median correlation	across		
		all cases:			
			r and manslaughter	.85	
		Rape		.86	
		Assault		.92	
		Robbery, property	y offenses with		
		violence		.90	
		Theft		.90	
· · · · · · · · · · · · · · · · · · ·		All offenses (3 cas	ses)	.98	

^a Correlation is .995 or greater

implications for cross-national research because of the inevitable heterogeneity in the criminal justice systems of different nations. The analyses summarized in table 3.2 substantially expand the number of comparative research designs which appear warranted. The general conclusion which emerges is that offense indicators from various stages of criminal justice processing "covary" over time—that is, they appear to trace similar trends over time. This finding suggests that while the notion of "criminal case mortality" is well founded, this "mortality" appears to

be crudely linear—e.g., the proportionate reduction from crimes reported to police to convictions in a given society is approximately constant.

The correlational analysis in table 3.2 indicates that good and imperfect indicators of an offense provide a consistent picture of the trends in the incidence of this offense. For the offense of homicide, for example, the median correlation between good and poor indicators for the sixteen cases is .85. This suggests the existence of an extremely strong relationship, over time, between a good indicator—know offenses—and less optimal indicators such as offenses cleared, prosecutions, convictions, etc. Although there is some variation across various societies, in general, the pattern of the relationships is both clear and strong. If one is interested in the *trend* of an offense, it appears that many different indicators—not merely the "best" indicator of known offenses—provide a valid index.

The pattern appears to be equally encouraging for offenses other than homicide, to judge by the median correlations between good and poor indicators in table 3.2: rape (.86), assault (.92), robbery (.90), theft (.87), and "all offenses" (.98). By the standards of measurement reliability in the social sciences, these values are extremely high. For example, intelligence tests and other measures in wide use in psychology tend to have reliabilities in the range of .60–.75. Attitude scales commonly have reliabilities which are lower still. Purely from the perspective of social science measurement, therefore, the fact that imperfect indicators are correlated with the best measure in the range of .85–.95 is impressive.8

This analysis suggests that, at least for some types of research designs, the widespread belief that indicators other than offenses known are unusable is unwarranted. Criminal case mortality has clear implications for studies of offense levels—some indicators are suitable for research on offense levels while others are not. But for trend designs, in which one seeks to characterize the direction and degree of change in an offense, it seems clear that a variety of indicators can provide a valid measure. In addition, trend estimates from imperfect indicators appear to be equally valid for homicide and less serious offenses.

On the basis of this analysis, we have concluded that data which cannot support certain research designs are entirely valid for other designs. If one has available only data on homicide convictions for Sri Lanka, for example, it is not possible to compare the absolute number of homicide offenses in Sri Lanka and another nation with only records on the number of known offenses. But the convictions indicator is valid if one wishes, for example, to (1) compare long-term trends in homicide in Sri Lanka and some other nation, (2) determine the effect of employment changes on homicide rates in Sri Lanka, or (3) test for the possible changes in the homicide rate if Sri Lanka abolishes capital punishment.

^b Vital statistics section of U.S. Statistical Abstract

In our view, this analysis argues for a design-specific methodology which reconceives the potential validity of data on crime and violence in terms of the research design to which these data are to be applied. This design specificity is important since many of the research designs in greatest demand in the social sciences are, explicitly or not, trend designs in which an investigator is concerned with whether an offense rate goes up, remains stable, or goes down. In a great many cases, we believe it is possible to answer these questions about trends and changes with a high level of confidence even if the indicator available does not allow us to know the precise level of this offense at any one time.⁹

In summary, the problems of underreporting and different indicators clearly have selective effects rather than general effects. These problems jeopardize certain research designs while affecting other designs not at all. The analysis presented thus far can be summarized in typological form in table 3.3. This typology presents four generic comparative designs created from the combinations of two dichotomies: (1) offense levels vs. offense trends, and (2) homicide vs. other offenses. This typology subsumes a substantial proportion of all comparative research on crime and violence.

Because these four generic research designs are differentially susceptible to the problems of underreporting and different indicators, the typology provides a useful summary of the methodological issues addressed in this chapter. Because it provides a succinct summary of the relative vulnerability of these different designs, this typology is analogous to the comparisons which Campbell and Stanley (1966) published for nonexperimental research in general. Since table 3.3 addresses some of the unique problems inherent in comparative designs using crime data, it is intended to be both more concrete and directly applicable to this particular research domain.

It is clear from the table that not all designs are equally immune to methodological problems. Type IV designs—which involve comparisons of changes or trends in homicide rates—are unaffected by either underreporting or the problem of different indicators. For these reasons, they are preferable in terms of validity to all other research designs on crime and violence. At the other end of the validity spectrum, Type I designs—which seek to compare the levels of lesser offenses in different jurisdictions—are likely to be invalidated by both these serious methodological problems. For these reasons, it is difficult to imagine circumstances under which Type I research designs can be justified on the basis of official statistics alone. 10

The other two research designs have methodological weaknesses which are complementary. Type II designs, which examine the levels of hom-

icide in different jurisdictions, are invulnerable to underreporting but are problematic if different indicators (arrests vs. convictions, etc.) are used in these jurisdictions. Type III designs, by contrast, are vulnerable to the possibility of different underreporting proportions in different jurisdictions. But if one is willing to make the assumption that underreporting proportions are comparable in two jurisdictions (or can use victimization surveys to produce corrected offense rates), then these designs are probably valid even if different indicators are reported for these jurisdictions.

As indicated by this typology, the four generic research designs vary greatly in terms of the degree to which they are methodologically vulnerable. For this reason, it does not appear to be meaningful to discuss, in general terms, whether "research on crime statistics" is valid. Instead, this discussion needs to be design-specific rather than global. While certain generic research designs are almost certainly insupportable (at least on the basis of official statistics alone), others are both valid and unproblematic.

Table 3.3. Comparative Research Design Typology: Implications of Two Data Problems in Each of Four Designs

	Offense Type	
Type of Comparison	Nonhomicide offenses	Homicide offenses
	Type I (-,-)	Type II (+,-)
Levels	parisons of levels of lesser offenses cannot be made until the ratio (offenses reported/total offenses)	Underreporting (+): Not a problem in U.S. homicide data; probably not a problem in comparative data.
	has been estimated for each jurisdiction to be compared.	Different indicators (-): Comparisons of homicide rate levels in different jurisdictions cannot be made
	Different indicators (-): Comparisons of levels of lesser offenses are not possible if different indicators are present unless (1) underreporting proportions are known (above) and (2) the relationship between different indicators can be estimated.	if different indicators are reported unless an indicator ratio (e.g., convictions/all homicides) can be estimated for one jurisdiction to produce a common indicator for comparison across jurisdictions.

Table 3.3. (continued)

COMPARATIVE EVIDENCE ON PATTERNS AND CAUSES OF CRIME

	Offense Type	
Type of Comparison	Nonhomicide offenses	Homicide offenses
	Type III (-,+)	Type IV (+,+)
Trends	Underreporting (-): Comparisons of trends of lesser offenses can only be made if one can assume or show that the ratio (offenses) is a constant over time (with no more than random fluctuations) in each jurisdiction compared. Different indicators (+): Comparisons of trends in lesser offenses are possible if one assumes a constant underreporting proportion (above) since different indicators of the same offense are strongly correlated over time.	problem in U.S. homicide data; probably not a problem in comparative data. Different indicators (+): Not

CONTROLLING DATA QUALITY

The evidence reviewed above suggests that considerable variation exists (1) between indicators of different crimes, with indicators of homicide having the greatest validity, and (2) between different indicators of the same crime, with the indicator of offenses known the best index of the actual volume of crime. If one's research design calls for a comparison of the levels of violent crime in several jurisdictions, therefore, one might try to include these known differences in data quality in the research design. This might be done, for example, by limiting comparisons to those cases with data on the number of homicide offenses known.

It has been recognized for some time that it should be possible to include in a research design information about the variable quality of different data. The idea of "data quality control" was first suggested by Naroll (1962; Naroll and Cohen, 1970) as a method for dealing with large data archives in which some of the data can be assumed to be of higher quality than others. The basic principle of data quality control is a simple one: one should include in comparative research known data quality differences as a variable in the analysis.

There are a number of ways in which this might be done, but perhaps the simplest involves analyzing the data in sequential waves—the first wave would include only the data sets of highest quality, the second wave cases of average quality, and the third wave cases of the most doubtful quality. In this way, an investigator can estimate a result or test a hypothesis within each level of data quality. This procedure eliminates the possibility that spurious findings could be produced by comparing indicators of different quality.

For some uses of the data in the CCDF, data quality control may be appropriate and useful. In chapter 4, we present a study of the effects of wars upon violent crime rates in postwar societies. Using the CCDF, it was possible to identify for this analysis a large number of "nationwars" (one nation in one war) and a number of control societies uninvolved in war. As a test of the effect of wars upon violent crime, the homicide rates of combatant and noncombatant nations were compared before and after the war years. As a part of the analysis, a data quality control procedure was used. In the first analysis, all the cases for which any homicide indicator could be obtained were included in the analysis. The second analysis, however, included only those cases for which the best homicide indicator (offenses known) was available. In this instance, both analyses pointed to the same conclusion about the effect of wars.

By making variations in data quality an explicit part of the analysis, data quality control excludes the possibility of spurious results due to complex interactions between the antecedent or causal variable and the type of indicator used in the analysis. In our study of the effect of wars, for example, data quality control eliminates the methodological danger that wars could produce increases in the actual level of homicide (offenses known) but decreases in the willingness of judges and juries to sentence offenders to prison (convictions and incarcerations). If this were the case, one might observe homicide increases in nations with the indicator of known offenses but apparent "decreases" in nations with the indicator of convictions.¹² In a large data set, complex interactions like this simple example would be invisible to the researcher without a data quality control procedure.

Whether or not a data quality control procedure should be used in a given study is largely a matter of the researcher's judgment. Most of the CCDF entries have a good indicator for homicide, for example, and studies of this offense may therefore not require data quality controls. The general attraction of a data quality control procedure, however, is that this simple method allows the researcher to examine a relationship or test a hypothesis while holding constant known or presumed variation in the validity of various data sets.

SUMMARY AND CONCLUSIONS

The premise guiding the methodological discussions in this chapter has been that the validity of research on crime and violence is design-specific. As a result of a number of specific methodological problems, some research designs are not defensible on the basis of official statistics alone, while others are demonstrably unaffected by these same problems. As a result of this analysis, we believe that an undifferentiated approach to crime statistics is methodologically unjustifiable. It cannot be argued persuasively that these data are either suitable or unsuitable for all purposes. It should be emphasized that we are not arguing that the validity of research with crime statistics is in any way indeterminate. Instead, the analysis presented in this chapter demonstrates that great variation exists across different research designs. Some research designs are perhaps fatally flawed, while others can be presumed to be valid.

In addition to the general finding that these methodological problems are design-specific in their implications, a number of specific conclusions appear warranted on the basis of existing research and additional analyses of data from the CCDF:

- 1. Homicide Data in All Designs. There is no evidence that official statistics on homicides underenumerate the actual incidence of this offense. As a result, homicide data constitute a valid basis for comparative research on both the levels and trends of this violent crime.
- 2. Nonhomicide Offenses in Level Designs. Research on the level of non-homicide offenses involves some threats to validity because official statistics on these crimes are subject to underreporting. While the magnitude and consistency of the underreporting proportions for these offenses are not known for all jurisdictions and time periods, it appears that offense seriousness and underreporting are inversely related—that is, most serious offenses are reported. In addition, one can use information presented in this chapter to test for the likelihood that an observed difference in offense levels between two jurisdictions could be an artifact of differential underreporting.
- 3. Nonhomicide Offenses in Trend Designs. Research on trends in nonhomicide offenses is somewhat less problematic than research on offense levels. In these designs, it is not necessary to know the real level of an offense. The only methodological assumption necessary is that the underreporting proportion remains constant with no more than random fluctuations. In addition, one can use information presented in this chap-

ter to test for the likelihood that an apparent change in an offense rate could be an artifact of differential reporting.

- 4. Different Indicators in Level Designs. In attempting direct comparisons of offense levels in two jurisdictions, it is obviously essential that both jurisdictions report the same indicator. If each jurisdiction reports a different indicator, comparisons of levels of an offense are possible only if one has a sample of two overlapping indicators for the same period for at least one of the two jurisdictions.
- 5. Different Indicators in Trend Designs. While it is true that the indicator of known offenses is preferable to other indicators as a measure of the level of a given offense, a wide variety of indicators appear to be equally valid in research on trends or changes in an offense. As shown in this chapter, good and imperfect indicators are strongly correlated over time and may be considered substitutive in research on offense trends. This finding expands considerably the number of comparisons of offense rate trends and changes which are possible.
- 6. Data Quality Control. In a data set like the CCDF, considerable variation exists across individual cases. This variation includes differences in the indicator used, in the type of offense reported (e.g., "violent crimes" or different violent crimes listed separately), and almost certainly in the quality of the data themselves. These differences can be included in a research design by using a data quality control procedure described in this chapter.

One of the conclusions of the design-specific model is that some research designs are more conservative than others. Since the offense of homicide is fully enumerated, the most conservative comparative research design is to limit comparisons to levels and trends in this offense. In addition, the indicator of offenses known is widely regarded as the most valid offense indicator, so an even more conservative design would be to limit comparisons only to those nations with this particular homicide indicator.

While this research design is certainly unimpeachable, it is our view that nonhomicide data and other indicators are still useful and valid in certain types of research designs. In general, our approach in this chapter has been to examine the strengths and limits of these designs. In many cases, there appears to be strong empirical support for certain less conservative research designs. For example, evidence indicates that a large number of indicators provide an index of crime trends as valid as that provided by the offenses-known indicator. This finding provides strong support for the essentially substitutive nature of different indicators in trend designs.

In other cases, the appropriateness of the less conservative research designs is more a matter of indirect evidence. For example, comparisons of nonhomicide offenses can *include* the likelihood that differences in underreporting could explain an observed difference in offense rates. In this instance, one may want to approach less conservative research designs in a probabilistic manner. Using information like that presented in this chapter, it is possible in some cases to assess the relative likelihood that an observed difference could be spuriously produced by artifacts like reporting differences or, alternately, that the observed difference is genuine.

In the final analysis, of course, the researcher is best served by all possible efforts to assess the validity of the data in any given analysis. As indicated in this chapter, however, a great many research designs are viable. Certain designs are immune to serious methodologial problems while others are less conservative but still valid for specific comparative purposes. While this chapter has attempted to indicate the nature of major methodological pitfalls, the prospect for many forms of comparative research is clearly auspicious.

NOTES

- While this conclusion appears to be true, it should not be taken to mean that there
 are no unknown homicides. There are cases, for example, in which a homicide is
 discovered only long after the fact—for example, when the bodies of long-dead victims
 are unearthed. Prior to discovery, these victims may have been classified as "missing
 persons," "runaways," etc. One suspects that hidden homicides of this kind are more
 common in societies like the United States in which homicides are unusually common.
- 2. Traditional lore among crime researchers has held that the offense of auto theft is also fully enumerated because most insurance policies require that a loss be reported as a prerequisite to compensation. Some victimization surveys have found that this offense is fully enumerated (e.g., Ennis, 1967), while other surveys suggest that the underreporting proportion is at least .90, though less than 1.00 (Velde, Work, and Holtzman, 1975: 61; Skogan, 1977).
- 3. The underreporting proportion can be estimated in different ways. In the city surveys summarized in table 3.1, the underreporting proportions are the ratio of two self-report figures: (1) the number of crimes respondents said they reported to police, and (2) the total number of crimes respondents said they experienced. The UCR/Ennis proportion, however, compares self-report data to the actual police statistics compiled in the FBI's Uniform Crime Report.
- 4. There are some circumstances, however, which can produce a "paper" crime wave merely by sudden increases in the underreporting proportion. An example might be a wave of prostitution or gambling arrests just prior to an election. A celebrated case of changing underreporting proportions involved New York City crime statistics in 1950 (Leonard, 1952; Wolfgang, 1963: 715; President's Commission on Law Enforcement and the Administration of Justice, 1967: 22-23). Before 1950, New York's statistics for several offenses were suspiciously low—for example, the city reported an absolute number of robberies smaller than that for the city of Chicago, yet Chicago's population was half the size of New York's. Under pressure from the FBI's Uniform

Crime Reports, New York initiated a centralized reporting system. This innovation radically changed the city's underreporting proportion and produced a "paper" crime wave—reported robberies rose about 400% and burglaries increased 1300%.

- 5. The importance of this issue was first recognized by researchers in the early nineteenth century (Wolfgang, 1963: 713; President's Commission on Law Enforcement and the Administration of Justice, 1967: 21). The assumption that reported offenses bear a constant relation to actual offenses has been an expressed part of the rationale for the interpretability of the records on serious offenses maintained in the FBI's Uniform Crime Reports (Wolfgang, 1963: 709). Most researchers interested in comparative research also have concluded that underreporting proportions in other nations are stable over time (Verkko, 1953; Wolf, 1971).
- 6. Naturally, these comparisons assume that similar questions, question sequences, and interview formats are used. Surveys that used different descriptions of what constitutes "assault" would, of course, produce different levels of self-reported victimization. For this reason, a standardization of victimization survey methods is of obvious importance.
- 7. It should be emphasized that the "true" incidence of an offense, by definition, can never be known. As discussed earlier, even victimization surveys may omit offenses, particularly those which are either trivial or highly sensitive. In addition, victimization surveys are merely another estimate of the offense rate, and the absence of a palpable, perfect record of offense incidence makes it impossible to know precisely how accurate this estimate is. As a result, except in the case of the fully enumerated offense of homicide, all research on crime deals in estimates rather than the real incidence of an offense.
- 8. The obtained correlations in the range of .85-.95 can be seen either as measures of reliability (in the test-retest sense where the true volume of an offense is unknown) or as measures of validity (if one assumes that the good measure is a reasonably error-free index of the true volume of an offense).
- 9. The essential argument in this analysis is that one indicator can serve as a proxy for another indicator which happens to be unavailable. In this case, the evidence suggests that an imperfect indicator like convictions can be used as a proxy for the missing indicator of offenses known in a trend design. As will be discussed in a later chapter, other types of proxy indicators are possible—e.g., using trends in urban homicide data to estimate national trends in cases where the national data are unavailable. The use of proxy variables is not recommended, of course, unless one has empirical evidence that the proxy variables are likely to bear a strong relationship to the missing variable. In addition, although most social science research is concerned with trends, some studies involve an interest in residuals, short-term fluctuations which remain when time-series data have been "detrended." It is our view that this issue is less central to research on crime and violence, and we have not attempted it here. This question could be addressed using CCDF data, of course, simply by "detrending" a good and a poor indicator and then correlating the residuals (Kendall, 1973; Johnston, 1972).
- 10. Type I designs are possible, however, if one has available certain types of additional information. One would need estimates of the underreporting proportions for each jurisdiction to be compared and, in cases where different indicators are also involved, one would also need to be able to estimate the relationships among these different indicators (e.g., convictions/offenses known). While this additional information is not impossible to obtain, it cannot be estimated from official statistics alone.
- 11. This comparison is possible, of course, if one can estimate the relationship, within one of the societies, between the given indicator and the missing indicator. In the case of a society which reports only homicide convictions, for example, analysis of official archives might make it possible to learn for a sample of years how many homicide cases had produced the number of convictions reported. This would allow one to

- estimate the convictions/known offenses ratio, and this ratio could be used to transform convictions data into estimates of the number of known offenses.
- 12. It should be noted that the mathematical possibility of interactions of this nature varies inversely with the degree to which different indicators of the same offense are correlated over time. The evidence reviewed earlier in this chapter suggests that different indicators (offenses known, convictions, etc.) are in fact highly correlated over time. As a result, it is improbable that homicide offenses and homicide convictions would show contradictory trends. For this reason, the risk of "indicator interactions" in trend designs may not be great in most cases.

II.

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10053			· · -]		3449	182	8688		165	그리는 사이 아이는 사람들은 사람들이 어린 경우 선생활을 받아 없었다.
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10544	. 19				14964	36 17	9139	9932	493	경기 : 이 그는 이 그는 이 그리고 있다면 그리고 있다. 이 아이지를 맞는 것이다.
10548	1000	99. S#1	311 S 3 T 5		16189	3533		10153	494 495	그렇게 마르지 않아 그 모든 이 전에는 전혀 되는 것이 되게 모를 생각하다.
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10560			5981		31783	16113		15420	509	
10561		- 1 - 2: +1	8497 7775		33080 42085	16105 18927		15910	510 511	(요료를 통해 보다 보다 보다 보고 있다면 보는 하는 모든 1) 하는 모
10563		2,77	7862			18535	27993	16940	A 3 512	회사들 수 있다. 그는 사람들은 사람들은 그리는 것이라는 사람이 있다.
10564		_	8210	_	36902	19602		17480	513	
10565		_	-		-1 25329	-1 29048	-1 28898	-1 18620	514 515	
10567		1706 D-4	10949			32229	34211	19220	516	
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12063			- I - 1		-1	1011	1475	594	538	
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	12069 12070			- i	99 71		393 373	1110 1209	631 642	54 54			
	13021		-1	-1	1262	938	-1	30249	3279	55	55		
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는 사람들이 보면 보다는 사람들이 되었다면 하는데 보고 있다. 그는 사람들이 되었다면 보다는 보다는 사람들이 되었다면 보다면 보다면 보다면 보다면 보다면 보다면 보다면 보다면 보다면 보	그 그리고 그 그를 들었습니다. 그 모든 그리고 하는 사람이 하는 바로 가는 사람들이 되었다.
14535 1 555 +1 +1 +1 1866 219 770 1531	
14536 1 715 +1 +1 2449 198 495 1551 636 14537 1 771 -1 -1 -1 2474 309 553 1571 637	
14538 1 624 -1 -1 -1 2319 244 546 1591 638	
14539 1 573 -1 -1 -1 2269 209 493 1611 639	
14540 1 454 -1 -1 -1 2183 261 667 1633 640 14541 1 414 -1 -1 -1 2275 281 564 1654 641	시간 열 때문에 가는 다른 그가 말라고를 받아 다니?
14542 1 570 +1 +1 2701 321 765 1675 642	는 [대고는 X 15년수 왕조기 요리는] 김 15년 출판 (14일 1일 왕조)
14543 1 498 -1 -1 -1 2656 378 1050 1697 643 14544 1 672 -1 -1 -1 3038 362 1192 1719 644	
14545 1 687 -1 -1 -1 2370 521 1300 1742 645	
14546 1 449 +1 +1 +1 2321 329 1004 1764 646 14547 1 553 -1 +1 +1 2742 301 970 1788 647	어느님의 사람의 살이면 아무리 시민이를 중심하면 말을 다
14547 1 553 -1 -1 2742 301 970 1788 647 14548 1 649 -1 -1 -1 3122 341 1061 1811 648	
14549 1 732 -1 -1 -1 3090 359 934 1835 649	
14550 1 673 -1 -1 -1 3450 348 1310 1868 650 14551 1 814 -1 -1 -1 4226 433 1482 1920 651	
14551	
	는 마음 등을 하는 일본 사람은 이 경기를 받는 것 같다.
14554 1 775 ÷1	
14556 1 932 -1 -1 -1 4916 294 1149 2196 656	
14557 1 691 -1 -1 -1 4201 300 1146 2257 657 14558 1 774 1 1 1 4476 367 1381 2321	in the second of
14558 1 774 -1 -1 4478 367 1381 2321 658 14559 1 754 -1 -1 -1 4317 428 1601 2386 659	그 사람들 방법이 불통하는 사람들이 그는 그는 사람들이 살았다.
14560 1 769 -1 -1 -1 9096 479 1385 2454 660	[문항] 12 기교 및 기업 하기를 하는 것이 되고 말하다. [편집]
14561	
14563 1 862 -1 -1 -1 4207 447 1416 2721 663	
14564 1 827 -1 -1 -1 4456 439 1325 2824 664 14565 1 861 -1 -1 -1 4284 422 1237 2930 665	그리고 있는 사람들이 많아 그는 그리는 이들을 모았다.
14565 1 86	이 교육 및 즐겁히 하는 사이트로 가고 있다. 그 전화 경험장
14567 1 830 -1 -1 -1 4231 528 1474 3150 667	
14568 1 790 -1 -1 -1 4650 616 1475 3270 668	
150 1 The 161 20180 2010 236 236 1307 224 204 206 60863 32527	
150 2 1 148 181 +1 216 1295 274 62134 32681 673 674 674 675 674 676 677 67	이 보살도 있는 이번 기술을 다 된 기술을 살 때문.
150 3 1 171 141	
150 5 1 137 150 -1 172 1171 223 70177 33943 676	
150 6 1 134 129 -1 203 1311 242 67012 34297 677 150 7 1 132 141 185 1433 232 72776 34651	
150 à 1 159 162 -1 202 1392 310 76887 35005 679	하는 경험에 가는 회에서 발생하는 것이 되었다. 그 사람은 상태하는 것이 하는 것은 사람들은 회사를 가장되었습니다. 경우 등 사용하는 것이라고 있었다.
150 g 1 161 139	
15015 1 148 140 -1 136 1323 211 73516 33713 682	
15012 1 152 159 -1 175 1359 195 73841 36240 683	
15013 1: 178 154 2=1 177 1222 155 69942 36410 684 15014 1 141 128 -1 154 1084 133 63657 36580 685 15015 1 130 145 -1 124 769 85 57766 36780 686	발표한 왕인성이를 살폈지만 하는 바다는 모양이다.
	on the control of the
15016 1 146 111 -1 98 572 114 60768 36920 687	
15017 1 127 99 -1 74 388 134 67104 37090 688 15018 1 131 73 -1 78 420 100 65296 37260 689	
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1 15020 1 179 134 -1 130 826 235 69408 37596 691	
1502 1 138 113 -1 125 742 211 70637 37864 692 693	
15023 1 150 109 -1 110 646 151 73145 38400 694	
15024 1 150 110 -1 116 646 122 74742 38668 695 15025 1 160 133 -1 94 774 136 75839 38935 696	
15026 1 154 128 -1 128 1067 120 90910 29108 697	

1502			122	-1	107	1264	128	84566		699	
1503 1503		131 122	157 162	-1 -1	89 89	1342	167 217	94716	39627	700 701	
180		128	<u> 124</u>	3.71	90	1374	208	100718		702	
150		125	141		72	1277	342	137980		,703	
1503			192	80. 37 j 3	75	1483	219	158711	3 S. M. J. C. C.	704	
1503		141	191 171	1	104	1609 1765	215 182	164488 165003		705 706	
1503		120 145	197	-1	99	1807	189	176653		707	
1503	a about a		∞j7i∴		3108	1983		188962		708	n also in a construction of the construction o
150		116	172		99	2020	287	199951		709	
150			155	· · · • • • • • • • • • • • • • • • • •	00109	2179	265	219478		710	
1504			134	- 1	125	1794 1931	342 483	225671 268738		711 712	
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1504			∷i14 ∵	~~ ~	257	2303	730			714	
1504			147	- 1	416	2749	821	297930	42449	715	를 하는 방향을 받는 것이 되었다. 그는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은
1504			217	1	377	3292	1033				[특별하다] 하고 있는 이 아니아 (속이 시원하는 이 리투스 하는 이 전에 되는 사람들에게 요즘들면 있는 경우하는) [
1504			151	-1	251	3020	921	310650		717 718	
1504			138 138	-1 -1	240 252	3495 4224	979	330918 349358		719	
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150			176	- i	314	5258	1021	301075		721	
150	51 1	132	176		335	5619	800			722	
150			233	-1	260	5980	1002	341512		723	the contract of the contract o
150			158	-1	295	6187	980	308578		724 725	
150			138 3122	-1 2:2:51:	294 340	6586 7076	812 823	285199 295035			
150			142		329	8433	965	323561		727	
150	1 12 7 7		147	 .	408	9774	1194	2. 112 N 103 M X 1		728	
150			108	- i	391	10945	1692	409388		729	
150			92	-1	512	12707	1900	445	45504	730	
1506		153 147	108 105	-1 ○ *#17	515 503	14391	2014	489258 531430		731 732 - 1885 - 1885 - 732	
150			114		473	16430.	2817	588566		733	
150		153	195	-1	422	18655	2483	635627		734	
1500	54 1	170	108	-1	517	21868	3066			735	
1500			134	-1	618	23876	3736	744155		736	
1500			172 193	- 1 - 235€ 1.3	644 702	25027 27123	4474	775990 784093		737 Thuilleach i go da saith (14 738	
1500		200 203	196			30094	4815	826311		išš	
150		182	188	* *1	869	35928	6041	878710		740	사람들은 사람들이 가장 하는 것이 되었다. 그는 사람들이 가장 그는 사람들이 가장 하는 것이 되었다. 그는 사람들이 가장 하는 것이 없는 것이 없는 것이 없다면 하는데 없다. 나는 사람들이 없는데 사람들이 없는데 없다면 없다면 없다면 없다면 없다면 없다면 없다면 없다면 없다면 없다면
150			181	-1	884	39266	6273	914723		741	and the control of th
150			193	-1	784	45165	7465	962992		742	
150		251	204	-1 22. 4 1.0	893	505 19	8126	1 - 539 - 330 - 330	49030	743	
160	s •	13	- 21	: - <u>-</u>	248 190	````\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	372 327	1443	427 441	756	
160			-1	-1	78	-i	306	799	456	757	
1600		5	-1	-1	70	- 1	158	673	464	758	
1600		9	-1	- 1	80	-1	207	714	469	759	
1600			-1.	- 1	75	-1	387	533	502	760 • 37 11 - 12 - 12 - 12 - 12 - 12 - 12	
160			- []	-1 -1	118	**************************************	51 437	159 1201	512 526	761 762	
160			- 2	- 1	178	- i	619	1773	524	762 769	
165			33	** <u>-</u> ‡ :	-1	1358	61	1524	3122	767	
165		- 1	-1	- 1	- 1	- 1	- 1	- 1	- 1	768	
165			37	-1	- 1	749	33	2068	3125	769	 Company of the state of the sta
165			31 86	7.	1 1	832 248	40 33	3938 3902	3127 3129	770 771	
165			38			502	42	5020		772	
165			50	· • • • • • • • • • • • • • • • • • • •	-1	747	50	2978	3133	773	
165	2101	121	47	- 1	- 1	820	65	2454	3167	774	
165			46			921	35	1735	3201	775 776	
165: 165:			60 45	- 1 - 1	- 1 - 1	869 1100	56 54	1445 1335	3235 3269	777	
165			62	-1	-1	1395	61	1686		778	
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52601		55	-1	<u>-1</u>	1385	46	1719	3333	
527 1	51	224	-1	77	1271	298	3970	3362	
528 1 529 1	74 55	262 302	<u>-1</u> ≥4	77 94	1349	277 276	3458 4333	3391 3420	
530 1	60	275	71	104	1575	268	4633	3449	하는 사람들은 사람들은 학교 사용으로 함께 학교를 받는 것이 되었다. 그 학생들은 학생들은 학생들은 학생들은 학생들은 학생들은 학생들은 학생들은
5531 1		251			1747	308	5030	3474	是一个大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大
532 1	71	263	-1	77	1720	282	6698	3499	
533 1	44	234	-1	76	1853	286	6399	3524	
534 1	54	171	-1	93	1718	23 t	5384	3549	
535 1	53	153	41	90	1604	197	5000	3576) 마루스타를 가는 하는 사람들이 하는 것 8.6 이 시트를 하는데 되는 사람들이 되어 가장 있다는 사람들이 되었다. 그 사람들이 없는데 없는데 다른데 되었다. 그 사람들이 다른데 되었다. 그 사람들이 되었다.
536 1	対象(対)、企会など	191	*1	91	1592	197	4511	3600	
537 1	57	135	^ +1	88	1580	197	4199	3624	(195): 1985년 1월 1일 1일 1일 1일 1일 1일 1일 1일 1일 1일 1일 1일 1일
538 1	50	120	-1	86	1350	148	4.178	3648	791
539 1	48	114	- 1	80	1101	120	3599	3672	
540 1	38	114	-1	47	872	282	5868	3698	
541 1		116	1	41	-1	328	6712	3703	
542 1	38	107	- 1	48	· · · · !	461	9965	3708	
543 1		107	૾ઃં∌∮ઃ	70	****** !	580	8574	3721	
544 1		126	-1	86	-1	901	11045	3735 3758	
545 1	84 51	186 148	-1 -1	123 135	-1 -1	1730	21747 16051	3806	
546 1 547 1	51 63	:::148 ::::115::	•	135	∞1261	696	13456	3859	
548 1	41	143	1	79	1038	469	9570	3912	
549 1	38	95	 i	171	969	332	6528	3963	
550 1	29	108	ःःः कार्यः । -1	158	956	259	5630	4009	
551 1	34	77	- i	183	940	193	4897	4047	
552 1	38	94	- i	79	937	188	2848	4091	
553 1		74	8 888 4 1 4		925	211	5337	4141	· 图整数数数数数数数数数数数数数06,11岁中的 几个大小,但是一个大小,大小的一个大小的,这个一个一个一个一个一个大小的。
554 1	40	76	``* i `	157	776	221	4651	4190	
555 1	39	~ 71	(¥ j	163.	802	186	4626	4238	·
556 1	23	80	-1	118	643	186	5556	4282	809
557 1	- 25	74	- 1	161	634	204	7325	4324	
558 1	33	63	-1	158	677	226	7711	4360	
559 1	12	67	+1	181	719	254	7972	4395	·第1、大门主义、门门门内设施,以前,以下门内建设的特殊,但都有关,不是一个人,以下的人,不能是一种,这种特殊的人,就是有一个人的人,不是一个人的人的人,不是不
560 1	37	72	* + 1	222	674	294	7626	4430	50、大连衣头的,一只一条6、56、5、一般女子,一个一个位置,然后的人,一点一点,然后也是一点,这个话题,这个时间,也是一个人,他们也不是一个一个女子。
561.1	180	: <u>79</u>		211	631	250	8162	4467	## 수술값 빨리 가지는 바람이 맛요~ # # # 그렇게 하는데 그는데 그는데 그는데 그는데 살아 살아 있는데 하는데 그는데 그는데 하는데 가지 않는데 하는데 하는데 살아 살아 살아 살아 살아 살아 살아 살아 살아 살아 살아 살아 살아
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565 1 566 1	20 14	59 80	- 41	371	794	444	12967	4640	的复数形式 我们的最高的特别的复数形式 医软膜管 "我这一样我们,只要没有一个好,我们也没有一个好,我们也没有一个好的,这一个一个一样的,我们一个一个女人的女人
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032 i	358	1753	`	250	92	165	46188		
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035 1	414	2770	- 1	301	91	322	36810		
036 1	369	2389	- f	286	117	341	35512		
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3552	1	0	3	-1	17		412	23	10561	2949		나의 등 이러워도 하는 아니라를 가능하게 맞고 하다는 관리를 하였다.
3553	1	2	7	-1			497	36	11229	2945	1200	이 어떤 이 이 토리 마시를 하고 있는 이 나는 나는 사람들이 하는 것.
3554	1	4	1	- 1	1:		466	24	8243	2933		
3555	1	5	ે 3 ં	+1	1:		388	41	8141	, 2909		함께 내고 있는 이 사람들이 말았다면 하는 것이 되었다. 그리지 않아 있다.
3556	1 3	4	ંં 3 ં	+ 1	· · · · •		563	27	8900	2898	1203	그 하는 사람이 아이는 아이는 아이는 사람들이 하는 사람들이 모든 사람들이 되었다.
3557	1	2	2	્ર ે∌ 1ા		3 3 1	402	. 33	9842	2885	1204	그렇게 되는 한 문 맛이 가르게 보는 이 그를 하는 것 같아. 그리는 사람이 제작한 점점
3558	1	0	2	0.73	10		500	61	11766	2853	1205	그 그리아도 한국 한 강인들의 기를 모양되는 것 같은 기분은
3559	1	9	2	- 1	į		545	59	12655	2846		
3560	1	4	2	-1	1:		592	59	10709	2834	1207	그 그 그리는 물을 모르는 한 한 과일 전화의 회사도 그래픽 모르는
3561	1	1	2	****			779	42	9861	2818	1208	: 1.4. 중요 : 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
3562	1	6	· . 6	**** 1	×11		824	. 39	9817	2824	1209	마르를 한다는 하는 사람이 하고 있다는 수 있는 하를 하는 것이 하는 것을 들어 없었다.
3563	1.	4	/ 1	,	: 1:		236	. 42	10002	2841	1210	발발에 통하는 시네이어도 나를 잃었다. 어디를 하고 않아 나를 바꾸어를 살았다.
3564	1	9	5	-1	19		363	62	11150	2849	1211	
3565	1	7	5	- 1	2:		692	77	10140	2880		
3566	1	8	7	-1	13		876	73	11791	2880		
3567	1	9	4	-1	1		047	. 86	12481	2900		하는데 얼굴하는 그 나가 하는 생활들이 뭐지 않고 있었다. 그렇게 얼굴하다 했다.
3568	1	2			11		364	101	13893	2910		
3569	1	₿	∞.5 ⊹		16		680	147	15477	2930		
3570		2	7	-1	13		645	215	18570	2950	1217	
3571		0	4	-1	24		365	314	23242	2970		
3572		2	6	-1	26		B40	618	24280	3010	1219	entre de la companya de la companya de la companya de la companya de la companya de la companya de la companya La companya de la co
3573		3		· • • • • • • • • • • • • • • • • • • •	4:		258	619	22206	3033		이 경기도 가장 하는 것이 하는 그 것이 없는 것 같습니다. 그렇게 살아보는 것이 없는 것이다.
4049		7		- 1	•		334	196	7257	1066	1229	
4050		O	₩ . ‡!				982	201	9142	1258	1230	
4051		1	-1	-1	-		618	165	12774	1516	1231	
4052		1	-1	-1	:		035	157	16840	1607	1232	
4053		6	-1	~ 1 ∞∞∞∞∞	·		584	125	14571	1650		e unicolatorial con esta en la compresión a arabita en matrio de contracto de la compresión de la contractiva e
4054	1	5	~-1	- 1		1 3	05 (85	15291	1688	1234	[생명 - 125] 그 내는 회장 그림에 가장 아름이면 하는데 하는데 하다니다.
	****											이번 이번 방법의 그리고 생활을 하셨다면서 중심하셨다고 이번 이번 하는 사람들이 뭐 했다.

**** *** *** # * * * * * *** * * * *** * ***** ***** **** **** **** **** **** *** *** *** *** *** ** *** * *** * *** **** *** *** ***** ***** ¥ *** ***** **** ***** ****

PRINT COMPLETED AT 16:23:44 FOR USER: RSCS DIST: ARCHER

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RSCS	RSCS	USERID	ORIGIN	*****	** ******	*******	VV VV		MM MMM	MM MMM
RCHER	UCSCVM	DISTCODE	SYSTEM	**	** ** **	** **	VV VV		MMMM	MMMM
		FILENAME	FILETYPE	****	*******	****	33333333333333333333333333333333333333	VV 7777777		MM MM M COOOOOO
00/00/00				****	*** *******	*****	33333333333	7777777		000000000
09/03/86	16:16:26	FILE CRE	ATION DATE	**	** ** **	** **	33 VV33 V33		77 7 M	OOMM OO
5824	00001001	SPOOLID	COUNT	*****	*** *******	******	33	VV 77	MM	OOMM OC
09/03/86	16:23:31	FILE PRI	MT DATE	****	* ******	*****	3333 VVV	VV 77 V 77		00 MM00
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*******	******	*****	******				W (A)	BANTA D	RUZ, CAI	LIF. 95064
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```
//EIGH: JOB 21048.ARCHER.CLASS=D.
*** PB UCSCVM VS1
                   21048
                          A 00000000 UCSCC
                                          ARCHER
// MSGCLASS=Q
LOG >>>> EIGHT # 21048, ARCHER
LOG TEF233A M 401,505820. EIGHT, PTPCH, NEW, EIGHT, PLUS
LOG Job EIGHT PTPCH(IEBPTPCH) #001 Complete 0000
LOG IEF280E K 4C1, SC5820, EIGHT, PTPCH
// EXEC PTPCH, SYSOUT =Q
XXPTPCH
        PROC SYSOUT='A'
                                                          00000010
XXPTPCH EXEC PGM*IEBPTPCH; REGION*50K
                                                          00000020
//SYSPRINT DD SYSOUT+O
X/SYSPRINT DD SYSOUT-ASYSOUT
IEF6531 SUBSTITUTION JCL - SYSOUT=Q
//SYSIN DD *
//SYSUT1 DD DSN=NEW.EIGHT.PLUS.
ZZ UNITETAPESE
// VOL#( .RETAIN, SER*SC5820) ...
// DISP*OLD.
// LABEL=(2,SL)
//SYSUT2 DD SYSOUT=Q.DCB=(RECFM=FBA,LRECL=81)
TEF2361 ALLOC, FOR EIGHT PTPCH
TEF2371 401 ALLOCATED TO SYSUTT
TEF1421 - STEP WAS EXECUTED - COND CODE COCO
IEF2851 NEW.EIGHT.PLUS
IEF285I VOL SER NOS= SC5820.
IEF3731 STEP /PTPCH / START 86245.1450
IEF3741 STEP /PTECH 8. / STOP 86245: 1452 CPU OMIN 02:30SEC STOR VIRT 122K
      ----- Device type
                        Address I/O count
                                                 Sysout DD name
                                                                Lines Class Copies
                                                   SYSPRINT
                                                                   5
             Tape
                          4C1
                                   353
                                                   SYSUT2
                                                                3,520
122K.
TEF280E K 4C1.SC5820.EIGHT.PTPCH
TEF2981 EIGHT SYSOUT+Q.
IEF3751 JOB /EIGHT / START 86245.1450
IEF3761 JOB /EIGHT / STOP 86245.1452 CPU OMIN 02.30SEC
CPU (d-014561 )
    Estimated job cost (does not include tape mounts of JCL printing):
             CPU time
                            $.28 00:00:02.30 at $450. per hour
             I/O requests
                             $.42
                                       353 at $1.20 per 1000
                            $4.05
                                      3,525 at $1.15 per 1000
             Lines printed
                                     ($.35 minimum).
            Total
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	PUNCH DATA	SET UTI	LITY								PAGE 000	1		
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	95 6	1 -1		-1	1063	- 1		306	2308	-1	3191	393	그리는 이 학자는 보급 보이지라는 하루 형 회사를 되었다.
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	9515 9516	ļ - ļ			458 617	***		179	2743 2226	6276 5752	3180 3301	402 403	요즘, 이 선생님 그는 그리고 하는 생생은 세
	95 17	1 = 51 1 -1		- 1	398	-	* ******	206	2501	7248	3422	404	
l.	9518			- 1	473	-1		267	2865	7535	3543	405	
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	9521	4		¥ 4	1354			269	2533	8787	3843	408	그리는 아이들이 모르는 사용을 하는 생기를 보고하는 것 같
	9522	1		-1	1421	. .		325	2012	9420	3901	409	하는 사람들은 아이를 가득하는 사람이 되었다. 살아가를 하는 수 있다.
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	9532	1 ** * 1		* 1	2656	- 4		762	6088	15785	4499	(14.14.14	이 가능하는 사람들이 하지만 하는데 하는데 이 이 사람들이 아름을 다.
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	9539	+			968			527	8466	17791	4992	426	마실하는 그는 어머니까지 말았다는 하지 않아 그들의 모모를 달라.
	9540	1	10.00	-1	1024			562	7907	17386	5063	427	요항 관련 전 보고 빠른 전 이하라는 요한 시시 이 사는 분호로 하겠
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18061	1 246 1 195		1			594	20473	6960 938	물레이 아이가 그들는 악화를 되었다. 나는 하지만 말아들이 하다.
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19063			5 - 1 5 - 1	1000 E 20		264 267	1022 678	610 977 628 978	발표 발표 수를 보고 있는 모든 이 시간 전 전에 되었다. 이 경험 사람들에 가는 것 같아. (1902년). 1 1987 - 1987년 - 1987년 - 1일 전 1일 1일 1일 1일 1일 1일 1일 1일 1일 1일 1일 1일 1일
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PRINT COMPLETED AT 16:23:44 FOR USER: RSCS DIST: ARCHER

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		EL 0310 **** CPU SERIAL 03/86 16:20:50 *******	O14561 CPU MODEL 4341	*******	*********	***********
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ARCHER	UCSCVM	DISTCODE SYSTEM	** ** **	***	VV V\ VV V\	
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		FILENAME FILETYPE	******	**		77777777MMMM 00000000
09/03/86	16:06:41	FILE CREATION DATE	** ** **	**	33 VV33 77VV	/ 77 OOMM OO
5797	00001100	SPOOL TO COUNT	** ** ** **	**	V33 VV 33 VV	77M OOMM OO 77MM OOMM OO
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	•					STEVENSON COLLEGE
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From VS1eUCSCVM.BITNET Tue Sep 2 15:32:04 1986 Received: by ucscc (5.9/4.7)

1d AA11442; Tue, 2 Sep 86_15:28:41 PDT From: VS1eUCSCYM.BITNET Message-10: <8609022228.AA11442@udscc> To: archereucscym.BITNET Date: Tue Sep 2 15:14:13 1986 Subject: TPEPRINT Status: R teres Perus Alling Menning

```
//TPEPRINT JOB 21048, ARCHER, CLASS=D, MSGCLASS=Q
LOG >>>> TPEPRINT - 21048, ARCHER -D-
                                          - 15-12 ARCHER
LOG IEF233A M 4CO.SC5820. TPEPRINT, GENER, NEW. SKIP
LOG Job TPEPRINT GENER (IEBGENER) #001 Complete 0000
LOG TEF280E K 4CO.SC5820.TPEPRINT.GENER
**+eB UCSCYM VS1 21048 A DODDOODD UCSCC ARCHER
//STEP1 EXEC GENER, SYSOUT=Q
XXGENER
         PROC SYSOUT='A'
                                                        00000010
XXGENER EXEC PGM=IEBGENER, REGION=50K
                                                        00000020
XXSYSPRINT: DD SYSOUT=8SYSOUT:
IEF6591 SUBSTITUTION JCL = SYSOUT=Q
//SYSIN DD DUMMY
XXSYSPRINT DD SYSOUT-8SYSOUT
                                                       00000030
         DD DUMMY
                                                        00000040
X/SYSIN
//SYSUT1 DD DSN=NEW.SKIP.
// UNIT=TAPE.
// VOL*(,RETAIN.SER*SC5820).
// DISP=QLD,
// LABEL=(4;SL)
//SYSUT2 DD SYSOUT=Q
TEF2371 4CO: ALLOCATED TO SYSUTI
LEF1421 - STEP WAS EXECUTED + COND CODE OOOO
LEF2851 NEW SKIP
LEF2851 VOL SER NOS= SC5820.
IEF2361 ALLOC, FOR TPEPRINT GENER
IEF3731 STEP /GENER / START 86245.1512
IEF3741 STEP /GENER / STOP 86245.1514 CPU OMIN 03.93SEC STOR VIRT 162K
                                                              Lines Class Copies
----- Device type Address I/O count Sysout DD name
Dummy QQQ Q SYSPRINT
                                                              6,279
                         4CO
                                   106
                                                  SYSUT2
             Tape
                                                 640K: Memory used
      ----- Total sysin count
                                   Partition size
TEF280E K 4CO, SC582O, TPEPRINT, GENER

1EF288I TPEPRINT SYSOUT Q

1EF375I JOB /TPEPRINT/ START 86245 1512
IEF376I JOB /TPEPRINT/ STOP 86245.1514 CPU OMIN 03.93SEC
      Job started Sep 02,1986 Tue 15:12:48
                                                  CPU 1d-014561
      Estimated job cost (does not include tape mounts or JCL printing):
      CPU time $.49 00:00:03:93 at $450. par hour
I/O requests $.12 106 at $1.20 per 1000
             Lines printed
                            $7.22
                                     6,283 at $1.15 per 1000
                         $7:83 ($.35 minimum).
```

1EB3521 WARNING : OUTPUT RECFM/LRECL/BLKS121 PROCESSING ENDED AT EOD	COPIED FROM INPUT		

```
LIEBERMAN. KP=29. RUN=FREE, TIME=18. PAGES=250
        $J0B
          THIS PROGRAM IS FOR OUTPUT OF CRIME RATES AND RAW CRIME FIGURES, SKIPPING
             LINE AT THE END OF EACH DECADE. THE FOLLOWING IS A KEY TO SOME OF THE
        C
             VARIABLES IN THE PROGRAM:
           "IBLANK" IS A MATRIX THAT CONTAINS PRINT FORMATTING INFORMATION FOR BLANK
        C
               SPACES WHEN CRIME DATA IS NON-EXISTENT.
           "IFORMT" IS A MATRIX THAT CONTAINS PRINT FORMATTING INFORMATION FOR
               EXISTING CRIME DATA.
           "IFRMT" IS A MATRIX THAT CONTAINS PRINT FORMATTING INFORMATION FOR EACH DATA
               YEAR: "IT CONSISTS OF PIECES FROM "IFORMT" AND "IBLANK" AND CHANGES FOR
               EACH YEAR PRINTED.
           "JCHECK" IS A VARIABLE THAT INDICATES WHETHER THE DATA IS BEING PRINTED ON
              THE FIRST OR SECOND PAGE FOR EACH COUNTRY.
           "UCNTRY" IS THE COUNTRY CODE NUMBER.
           "UCOUNT" IS A VARIABLE THAT COUNTS THE NUMBER OF LINES PRINTED ON EACH PAGE.
           SUCRIME(I) * IS A SEVEN-DIMENSIONED VARIABLE FOR EACH RAW CRIME FIGURE.
           "JKL" IS A BLANK VARIABLE FED INTO EACH "JCRIME(I)" FOR WHICH NO DATA IS
        C
               AVAILABLE.
           "JPOP" IS EACH YEAR'S POPULATION.
           "UYEAR" IS EACH YEAR.
           "K" IS THE NUMBER OF FOOTNOTES FOR EACH COUNTRY.
           "L" INDICATES THE TYPE OF GRIME STATISTICS.
           "LASTY" IS THE LAST YEAR OF DATA FOR EACH COUNTRY.
           "N(I)" IS A SEVEN-DIMENSIONED VARIABLE THAT CONTAINS THE FOOTNOTE NUMBERS
               FOR EACH CRIME AS THEY APPEAR ON THE PRINTOUT.
           "NCON(I.U) IS A MATRIX CONTAINING THE TABLE OF CONTENTS:
"RCRIME(I)" IS A SEVEN-DIMENSIONED VARIABLE FOR EACH CRIME RATE.
           *RKL* IS A BLANK VARIABLE FED INTO EACH *RORIME(T) FOR WHICH NO DATA IS
               AVAILABLE.
                                 ****************
        C*
              DIMENSION IFORMT (4.16). IFRMT(4.16). IBLANK(4.16)
DIMENSION N(7); UCRIME(7), RCRIME(7)
             DIMENSION NCON(168.8)
3
    4 DATA JKL/ '/
             DATA RKL/' '/
              READ (5,600) IFRMT
        600
               FORMAT (4A4)
              READ(5:610) IBLANK
8
              FORMAT (4A4)
    . 9
        610
   10
              DO 620 I+1,4
              IFORMT (I,1)=IFRMT (I,1)
   11
              IFORMT (1,16)=IFRMT(1,16)
   12
   13
        620
               CONTINUE
               WRITE (6,700)
FORMAT (1H1)
DD 300 I=1,12
.....14
        700
  .15
               DD 300 I=1,12
   16
   17
                WRITE (6.299)
               FORMAT (2HO )
   18
                CONTINUE
        300
   19
               WRITE (6,305)
   20
               FORMAT (52x.27HCOMPARATIVE CRIME DATA FILE)
   21
        305
   22
               WRITE (6,310)
        310
               FORMAT (1HO, 60X, 9HJUNE 1976)
   23
               DO 320 I=1.5
   24
               WRITE (6,315)
   25
   26
       315
               FORMAT (2HO )
27
       320
               CONTINUE
               WRITE (6,325)
   28
              FORMAT(SOX, 32HDANE ARCHER AND ROSEMARY GARTNER)
   29
        325
```

```
30
            WRITE (6,330)
  31
      330
            FORMAT (1HO.54X.23HDEPARTMENT OF SOCIOLOGY)
            WRITE (6,335)
  32
            FORMAT(1HO.54X.24HUNIVERSITY OF CALIFORNIA)
  33
  34
            WRITE (6,340)
      340 FORMAT (1HO, 68X, 22HSANTA CRUZ; CALIFORNIA)
  35
  36
            WRITE(6,345)
            FORMAT(1HO,64X,5H95064)
  37
      345
           READ (5,2) LCNTRY
  38
  39 2 FORMAT (13)
     C THIS PART OF THE PROGRAM (BETWEEN ASTERISKS) IS FOR TABLE OF CONTENTS
  40
          DO 1090 I = 1,168
  41
          READ (5,1089) (NCON(I,J),J=1,8)
      1089
          FORMAT (8A4)
  42
      1090 CUNTINUE
WRITE (6,1012)
1012 FORMAT (111)
  43
  44
45
  46
          WRITE (6,9099)
  47
      9099 FORMAT (1H1)
           WRITE (6, 1025)
  48
      1025 FORMAT (1H , 50%, "TABLE OF CONTENTS")
WRITE (6, 1015)
1015 FORMAT (1HO, COUNTRIES', 76%, CITLES')
  49
  50
          FORMAT ( 1HO, 'COUNTRIES', 78X, 'CITLES')
  51
  52
           WRITE (6.999)
  53
           FORMAT (1H+,'
                          ',79X,'___
           WRITE (6.1016)
  54
     1016 FORMAT (1H )
  55
  56
          DO 1014 KCON * 1.56
          WRITE (6,1013) (NCON(KCON,J),J≈1,8),(NCON(KCON+56,J),J≈1,8),
  57
          1 (NCON(KCON+112.J), J=1.8)
      1013 FORMAT (1H ,8A4,12X,8A4,12X,8A4)
  58
      1014 CONTINUE
  59
      3 WRITE (6,12345)
12348 FORMAT (1811)
  60
      12349 FORMAT (1H1)
  61
            WRITE(6,4)
  62
           FORMAT (1HO.130(1H-))
  63
  64
            JCHECK = 5
  65
           READ (9,5)
                             COUNTRY)
          FORMAT (1HO,40H
  66
           WRITE (6,5)
  67
     6
            IF (JCHECK-1) 8.10.8
  68
  69
           READ (9,9) L,(N(I), I=1,7),LASTY,K
  70
      9
           FORMAT (11,741,212)
  74
      12
             IF (L-2) 1000,30,15
           IF (L-3) 1000.40.1000
  75
      15
  76
      20
            WRITE(6,25)
  77
        FORMAT: (TH*:40X:43HNUMBER OF CONVICTIONS -- (RATE PER 100,000))
  7B
           GOTO 60
          WRITE (6, 35)
  79
      30
          FORMAT (1H+, 37X.
  80
      35
          1 49HNUMBER OF OFFENSES REPORTED -- (RATE PER 100,000))
  81
           GOTO 60
      40
          *** WRITE (6.45)
  82
  83
      45 FORMAT(1H+.37X.
      A SEC 1 49HNUMBER OF OFFENSES REPORTED +* (RATE PER 100,000))
  84
            G0T0 60
```

```
FORMAT (1H+,41X,38HCRIME STATISTICS -- (RATE PER 100.000))
    86
        55
              IF (JCHECK-1) 88.65.88
    87
        60
              WRITE (6.70)
   88
        65
       žŏ
              FORMAT ( 1H+ .95X . 9HCONTINUED )
   89
90
       88 WRITE (6.90) (N(1).1 = 1.7)
                          YEAR
                                     MURDER (,A1,13H) MANSLTR (,
              FORMAT (26HO
   91
       90
              A1, 13H) HOMICIDE (,A1, 14H) RAPE (,A1, 16H)
                                                          ASSAULT (.
            2 A1.16H)
                         ROBBERY (,A1,17H)
                                              THEFT (,A1.
           a BH) POP)
SUCOUNT + O
   92
   93
             WRITE (6.95)
               FORMAT (1H )
       95
   94
             IF (JCHECK-1) 98.132.98
   95
   96
              READ (9,100) JCNTRY, JYEAR, (JCRIME(I), I=1,7), POP
   97 100 FORMAT (13,12,2X,416,217,18.F6.0)
  98 12839 IF (UCHECK-5) 105, 102, 1000
   99 102
                JYEAR1#UYEAR+1900
             JCHECK=0
   100
              JCOUNT #JCOUNT+1
   101
   102
             JX=JYEAR/10
            TF (UYEAR-(10*UX).NE.O) GO TO 107
 103
            WRITE (6,201)
   104
105
       201 FURMAT(1H )
   106
             JCOUNT=JCOUNT+1
   107
        107
              IF (JCDUNT-51) 132,131,131
   108
        131
             JCHECK = 1
            WRITE (6, 12355)
FORMAY (1H1)
UDITE (6, 12368)
109
        12355 FORMAT (1H1)
   110
             WRITE (6, 12365)
  111
        12365 FORMAT (1HO)
   112
              GOTO 6
   113
   114
              IF (JYEAR) 133, 135, 135
              WRITE (6, 134)
  115
        133
   116
        134
               GOTO 98
  117
              JYEAR = JYEAR +1900
   118
        135
        202
             IF(POP+1.) 1010, 138, 140
   119
              WRITE (6.139) JYEAR
   120
        138
              EDRMAT (IH. 4X, 14)
 121
       139
             GOTO 98
   122
             DD 200 [#1.7
   123
   124
              ICOL=2*I
             IF (JCRIME(I)+1) 1010, 160, 150
   125
               RCRIME(1)=FLOAT(JCRIME(1))/(POP/100.)
   126
127
             DO::155:U#1.4
             |FORMT(U,ICQL)=|FRMT(U,ICQL)
| IFDRMT(U,ICQL+1)=|FRMT(U,ICQL+1)
| CONTINUE
   128
   129
        155
   130
             GOTO 200
   131
              DO 170 J=1.4
   132
             IFORMT(J:TCOL)*IBLANK(J.ICOL)
IFORMT(J:ICOL*1)* IBLANK (J.ICOL*1)
CONTINUE
133
   134
   135
              JCRIME (I)=JKL
   136
             RCRIME(I)=RKL
   137
   138
        200
             CONT INUE
             WRITE(6.IFORMT) UYEAR (UCRIME(I).RCRIME(I).I=1.7).UPOP
  139
   140
             IF (LASTY-UYEAR) 1000,220,98
   141
        218
   142
        220
             IF (K) 1000,270,223
```

```
143
        JCOUNT = JCOUNT +2
     223
  144
        IF (JCDUNT-51) 230,3001,3001
  145
        WRITE (6.3002)
  146
     3002
        FORMAT (1H1)
 147
        WRITE (6:3003)
     3003 FORMAT (1HO)
148
 149
         JCOUNT = 0
         WRITE (6.240)
 150
     230
         FORMAT (11HOFOOTNOTES:)
 151
     240
         DD 260 [*1,K
                       152
                                                  153
     250 FORMAT (10X, 65H
 154
              NOTE)
 155
        JCOUNT = JCOUNT + 1
        IF (JCOUNT-51) 260,2001,2001
 156
     2001 WRITE (6,2002)
2002 FORMAT (1H1)
WRITE (6,2003)
 157
 158
 159
 160
     2003 FORMAT (1HO)
 161
         WRITE (6,2004)
 162
     2004
         FORMAT (1H )
 163
        JCOUNT * O
     260 WRITE (6.250)
 164
     270 IF (JCNTRY-LCNTRY) 3,1000.1000
 165
 166
     1000
          WRITE (6, 1005)
     1005
          FORMAT (1H1)
 167
            STOP
 168
     1010
     $ENTRY
· 169
```

구하는 그런 전화 전 회장 현대 전환 보고 한 등 수 있다. 하는 사람들은 한 사람들은 사람들은 사람들은 사람들은 사람들은 사람들이 되었다.

마이트 마이트 전에 가는 사람들은 사람들이 되었다. 이번 경기에 되었다. 그 사람들은 사람들이 되었다. 그 사람들은 사람들이 되었다. 그 사람들은 사람들은 사람들이 되었다. 그 사람들은 사람들은 사람들이 되었다. 그 사람들은 사람들은 사람들이 되었다. 그 사람들은 사람들은 사람들이 되었다. 그 사람들은 사람들이 되었다. 그 사람들은 사람들은 사람들이 되었다. 그 사람들은 사람들이 되었다. 그 사람들은 사람들이 되었다. 그 사람들은 사람들이 되었다.

COMPARATIVE CRIME DATA FILE DANE ARCHER AND ROSEMARY GARTNER DEPARTMENT OF SOCIDLOGY UNIVERSITY OF CALIFORNIA SANTA CRUZ, CALIFORNIA

TABLE OF CONTENTS

COUNTRIES	
A 51 (CT &)	LEBANDN
ADEN ARGENTINA	LIBYA
	LUXEMBOURG
AUSTRALIA	
AUSTRIA	MADAGASCAR
BAHRAIN	MALAWI (NYASALAND)
BELGIUM	MALAYA
BERMUDA	MAURITANIA
BOLIVIA	MAURITIUS
BOTSWANA	MEXICO
BRUNEI	MONACO
BULGARIA	MOROCCO
BURMA	NEPAL
CAMEROON	NETHERLANDS
CANADA	NETHERLANDS ANTILLES
CENTRAL AFRICAN REPUBLIC	NEW ZEALAND
CHAD	NIGERIA
*****	NORTHERN TRELAND
	NORWAY
I DE TENDE DE CENTRE CODE DE DECENDA LA CONTROL PRODUCTION DE CONTROL DE CONTROL DE LA CONTROL DE LA CONTROL D	がたさいかんか Maria しょう ひかめかしょう こうか しいん さいがく さいがく いんり アルカス しゅう コンドランシャ しょしょく
COLOMBIA	PAKISTAN
CONGO (BRAZZAVILLE)	PANAMA
CUBA	PERU
CYPRUS	PHILIPPINES
DAHOMEY	POLAND
DENMARK	PORTUGAL
DOMINICAN REPUBLIC	PUERTO RICO
EGYPT	QATAR
L SALVADOR	RHODESIA
ENGLAND (AND WALES)	RUMANIA
THIOPIA	
iji	\$COTLAND SENEGAL
	Prona Legate
INLAND	SIERRA LEONE
FRANCE	SINGAPORE
GERMANY	SOLOMON ISLANDS
SHANA	SOUTH AFRICA
	SPAIN
GUAN	SRI LANKA (CEYLON)
JUYANA	SUDAN
IONG KONG	SURINAM
IUNGARY	SWAZILAND
CELAND	SWEDEN
NDIA	SWITZERLAND
NDONESTA	SYRIA
RAN	TANGLERS
RAO	TANZANIA
· · · · · · · · · · · · · · · · · · ·	
RELAND (EIRE)	THAILAND
100 LEI	
	TRINIDAD AND TOBAGO
TALY	TUNISIA
TALY VORÝ COAST	TUNISIA TURKEY
TALY Vory Coast Jamaica	TUNISIA TURKEY UGANDA
ITALY Ivory Coast Jamaica	TUNISIA TURKEY UGANDA UNITED STATES
TTALY IVORY COAST JAMAICA JAPAN	TUNISIA TURKEY UGANDA
ITALY IVORY COAST JAMAICA JAPAN JORDAN	TUNISIA TURKEY UGANDA UNITED STATES
JAPAN JORDAN KENYA	TUNISIA TURKEY UGANDA UNITED STATES VENEZUELA VIETNAM, SOUTH
ITALY IVORY COAST Jamaica Japan Jordan (Enya (HMER REPUBLIC (CAMBODIA)	TUNISIA TURKEY UGANDA UNITED STATES VENEZUELA
ITALY IVORY COAST Jamaica Japan Jordan (Enya (HMER REPUBLIC (CAMBODIA)	TUNISIA TURKEY UGANDA UNITED STATES VENEZUELA VIETNAM, SOUTH WEST INDIES (BRITISH)

ACCRA, GHANA AMSTERDAM, NETHERLANDS ATHENS, GREECE BEIRUT, LEBANON BELFAST, NORTHERN IRELAND BOMBAY, INDIA BRUSSELS, BELGIUM CALCUTTA, INDIA CARACAS, VENEZEULA COLOMBO CITY, SRI LANKA DAHO CITY: QATAR DUBLIN, İRELAND FREETOWN, SIERRA LEGNE GEORGETOWN, GUYANA GLASGOW, SCOTLAND HELSINKI, FINLAND ISTANBUL: TURKEY JERUSALEM, ISRAEL JOHANNESBURG, SOUTH AFRICA KHARTOUM, SUDAN KUWAIT CITY, KUWAIT LAGOS CITY, NIGERIA MADRID, SPAIN MANILA, PHILIPPINES MEXICO CITY, MEXICO MONTEVIDEO, URUGUAY MUNICH, GERMANY NAIROBI CITY, KENYA NEW YORK CITY, UNITED STATES OSLO, NORWAY PANAMA CITY, PANAMA PARIS, FRANCE PORT OF SPAIN, TRIN. & TOB. QUEZON CITY, PHILIPPINES SALISBURY, RHODESIA SEOUL, KOREA STOCKHOLM, SWEDEN SYDNEY, AUSTRALIA TANANARIVE. MADAGASCAR TOKYO, JAPAN VIENNA, AUSTRIA WARSAW, POLAND WELLINGTON, NEW ZEALAND ZURICH, SWITZERLAND

PO	THEFT ()	7	BBERY ()	() ROI	ASSAULT	RAPE () HOWICIDE ()			4000
20 21 22 23 23 23 25	(372.38) (273.78) (423.91) (336.29) (292.00)	782 (616 (975 (797 (730 ((449.03) (130.95) (131.11) (149.57) (173.42) (150.40)	925 (275 (295 (344 (411 (376 (67 (32.52 77 (36.67 117 (52.00 90 (39.13 78 (32.91 67 (26.80			8 (3.88) 13 (6.19) 18 (8.00) 46 (20.00) 53 (64.56) 54 (141.60)	1964 1965
1. 经基本	(273.78) (423.91) (336.29)	616 (975 (797 ((131;11) (149.57) (173.42)	295 (344 (411 (90 (39.13 78 (32.91 67 (26.80	UNTIL 1967; RAW FROM POPULATION	N SOUTH VEMEN	46 (20.00) 53 (64.56) 54 (141.60) 5H COLONY IN	1993 1964 1965 1966 * SRITI FROM

STRALIA * YEAR MURDER (-)	MANSLTR () HONIC	IDE (1)	RAPE (2)	PER 100,00	JLT (3)	ROBBI	ERY (4)	TH	EFT (5)	POP
1903 1904 1905 1906 1907 1908 1909	58 46 56 45 46	(1.48) (1.15) (1.37) (1.08) (1.09)	90 (2.34) 97 (2.47) 96 (2.40) 70 (1.72) 90 (2.17) 60 (1.42) 59 (1.37)	244 (225 (256 (239 (255 (278 (260 (6.34) 5.73) 6.40) 5.86) 6.14) 6.57) 6.04)					3850 3926 4002 4078 4154 4230 4306
1910 1911 1912 1913 1914 1915 1916 1917 1918	46 33 49 52 57 40 35 30 21	(0.74) (1.08) (1.12) (1.20) (0.82) (0.71) (0.59)	77 (1.76) 97 (2.18) 88 (1.93) 71 (1.52) 67 (1.41) 14 (0.29) 15 (0.30) 15 (0.30) 11 (0.21) 3 (0.06)	250 (235 (221 (298 (300 (226 (193 (239 (155 (220 (5.71) 5.27) 4.851 6.40) 6.31) 4.65) 3.89) 4.72) 3.00) 4.18)					4382 4455 4556 4657 4758 4859 4960 5061 5162
1920 1921 1922 1923 1924 1925 1926 1927 1928	90 34 41 37 45 42	(0.58) (0.69) (0.61) (0.73) (0.67)	7 (0.13) 8 (0.15) 5 (0.09) 9 (0.16) 5 (0.03) 8 (0.13) 15 (0.25) 14 (0.23) 11 (0.18) 18 (0.24)	223 (235 (240 (246 (217 (253 (235 (224 (222 (244 (4.16) 4.29) 4.29) 4.31) 3.73) 4.26) 3.89) 3.64) 3.58) 3.84)					5360 5476 559; 5706 5824 5939 6044 6146 6356
1930 1931 1932 1933 1934 1935 1936 1937 1938	37	(0.78) (0.49) (0.54) (0.59) (0.59) (0.50) (0.55) (0.55)	14 (0.22) 9 (0.14) 14 (0.21) 16 (0.24) 6 (0.09) 10 (0.15) 14 (0.21) 20 (0.29) 9 (0.13) 10 (0.14)	224 (211 (217 (216 (181 (188 (182 (227 (60 (64 (3.47) 3.24) 3.30) 3.26) 2.86) 2.80) 2.68) 3.31) 0.87) 0.92)		1.23) 1.68)	754 (988 (10:90) 14:16)	646 651 658 662 672 672 678 685 691 697
1940 1941 1942 1943 1944 1945 1946 1947	41 37 37 51	(0.57) (0.51) (0.50) (0.67)	28 (0.39) 14 (0.19) 24 (0.33) 25 (0.33) 22 (0.29) 13 (0.17)	46 (74 (62 (130 (170 (173 (0.65) 1.03) 0.86) 1.74) 2.24) 2.24)	100 (134 (148 (110 (128 (104 (1.41) 1.87) 2:05) 1.47) 1.69) 1.35)	697 (748 (868 (1033 (1027 (1072 (9.80) 10.42) 12.00) 13.84) 13.55) 13.91)	7110 718 723 746 7579

AUSTRALIA *	NUMBER O	F CONV	ICTIONS	## (RATE	PER 100.	000)	CONTINUE	D		
YEAR MURDER () MANSLTR	() HOMIC	IDE (1)	RAPE (2)	ASS	AULT (3)	ROBBERY (4) T	HEFT (5)	909
1949	60	(0.76)) 10	(0.13)	175 (2.21)	138 (1.75	i) 1073 (13.57)	7908
1950	e de elemento de e lemento.	7. 'N '6n'	1.000.000.1 09 0.	7 A . A . 1	**************************************	**************************************		Section Same . F		
1951	67 67	(0.82) (0.80		(0.21)	215 (203 (2.63) 2.41)	170 (2.08 176 (2.09		13.49)	8179 8422
1952	61	(0.71		(0.24)	207 (2.40)	165 (1.91	**	16.87)	8636
1953	83	(0.94)	A service of the contract of t	(0.25)	318 (3.61)	137 (1.55		15.94)	8815
1954	76	(0.85)) 26	(0.29)	270 (3.00)	197 (2.19	1333 (14.83)	8987
1955	83	(0.90)		(0.18)	271 (2.95)	158 (1.72		14.92)	9201
1956	60	(0,64		- 12 Company of the C	268 (2,84)	162 (1.72		19. (5)	9426
1957	79	(0.82		(0.13)	241 (245 (2,50)	184 (1.91	- 第1 - A - A - A - A - A - A - A - A - A -	23.71)	9640
1958	80	0.81	7 20 20 20 20 20 20 20 20 20 20 20 20 20	(0.25)		2,49)	158 (1.61		25.74)	9842
1959	93	(0.92)) 29	(0.29)	212 (2.11)	188 (1.87	2404 (23.91)	10056
1960	87	(0.85)) 39	(0.38)	222 (2.16)	229 (2.23	2727 (26.54)	10275
1961	90	(0.86			254 (2.42)	229 (2.12		30.79)	10508
1962	114	(1,06)) 48	(0.45)	231 (2.16)	298 (2.78		28.27)	10705
1963	95	(0.87) 83	(0.76)	· 185 (1.69)	135 (1:24	3095 (.28.35)	10916
1964 143 (1.28) 34 (0.		(2.44)) 262	(2.35)	1924 (17.28)	592 (5.32		356.46)	11136
	25) 271	(2.38)		(2.26)	1895 (16.64)	730 (6.41		409.36)	11390
1966 163 (1.41) 29 (0.		(2.77)		(2.16)	2227 (19.20)	992 (8.55		490.01)	11600
1967 137 (1.16) 36 (0. 1968 143 (1.19) 43 (0.		2.54		(2.64)	2158 (18.29)	960 (8.14		161.63)	11800
	2 to 2 to 12 to 12 december	(2.50) (2.28)		(3.02)	2508 (2483 (20.90) 20.25)	1280 (10.67 1599 (18.04		196.35) 208.78)	12000
1969 157 (. 1.28) 33 (0.	** * *****	张····································	1. (m. 1976)	ASSO 先于是有人		,	1055 (10,04	, 2000 (200.101	12260
1970 172 (1.37) 22 (0.	18) 339	(2.71)	416	(3.33)	3282 (26.24)	1999 (15.98	30591 (244.53)	12510
1971 185 (1.45) 39 (0.3		(2.69)		(4.53)	3862 (30.27)	2818 (22.08		265.87)	12760
1972 207 (1.60) 46 (0.	351 422	(3.26)	544	(4.20)	4285 (33.06)	3045 (23.50	36976 (285.31)	12960

FOOTNOTES:

- * CASES KNOWN AFTER 1963
- 1. MURDER, MANSLAUGHTER & ATTEMPTED MURDER
- 2. INCLUDES CRIMES OF LUST BEFORE 1916
- 3. OFFENSES AGAINST THE PERSON, 1903-1937; AGGRAVATED AND COMMON ASSAULT, 1938-1963; SERIOUS ASSAULT, 1964-1972
- 4. ROBBERY AND STEALING FROM THE PERSON
- 5. BREAKING AND ENTERING: 1967-1972 EXCLUDES OFFENSES
 INVOLVING PROPERTY VALUED AT \$100 OR LESS; 1971 EXCLUDES
 8,175 ATTEMPTED BREAKING AND ENTERING OFFENSES WHICH WERE
 REPORTED OR BECAME KNOWN; 1972 EXCLUDES 8,282 ATTEMPTED
 BREAKING AND ENTERING OFFENSES WHICH WERE REPORTED OR
 BECAME KNOWN

AUST	RIA					CRIME STATISTICS (RATI	PER	100,000)								
	YEAR	MURI)ER ()	MANSL	rr ()	HOMICIDE ()	RAPI	()	AS	SAUL	r. (1)	RO	BBÉ	RY ()		THEFT (2)	POF	P pleas
	1953	60 (0.86)	23 (0.33)	698	(10	0.04)	2830	(4	0.70)	250	(3.60)	20720	(297.96)	6954	,
A Section	1954	68 (0.98)	23 (0.33)	609	(E	3.74)	2753	(3	3.50)	272	(3.90)	20930	(300.33)	6969	
	1955	66 (0.95)	30 (0.43)	730	J. 10	.47)	2888	(4	1.41)	311	(4.46)	22085	(316.68)	6974	1
	1956	. 88 (1.26)	20 (0,29)	659	()	(44)	2584	(ä	7.00)	292	(4.18)	24627	(352,67)	6983	
	1957	59 (0.84)	33 (0.47)	540	10 7	.72)	2907	(4	1.55)	338	(4.83)	28287	(404.27)	6997	
	1958	53 (0.75)	14 (0.20)	640	(5	1.12)	2914	(4	1.50)	412		5.87)	28569	(406.91)	7021	
	1959	62 (0.88)	30 (0.43)	683	(;	69)	2855	(4	0.50)	353	(-	5.01)	29554	(419.27)	7049	1 .
Ngjara Mer	1960	55 (0.78)	25 (0.35)	671	1 :	.52)	2856	(4	5.52)	362	()	5.14)	30569	(433.73)	7048	1
	1961	45 (Ö.63)	25 (0,35)	641		.04)	2424		1.20)	383	(5.40)	32261	(455,21)	7087	
	1962	54 (0.76)	20 (0.28)	709		.94)	2566		5.99)	367	(5.15)	36618	(513.58)	7130)
1 60/07 71717	1963	47 (0.66)		0.28)	600	€ €	3.37)	2761		3.50)	378		5.27)	38618	(538.46)	7172	
	1964	44 (0.61)	22 (0.30)	669	()	1.27)	2695	(3	7.33)	405	(5.61)	40180	(556.51)	7220)
	1965	45 (0.62)	29 (0.40)	604	(∙ €	3.33)	2648	(3	5.52)	433	(5.97)	45059	(621.50)	7250	,
9.5.909003	1966	49 (0.67)	14 (0.19)	582	()	.98)	2667	(3	5.58)	461	(6.32)	50667	(695.02)	7290	6
	1967	53 (0.72)	24 (0.33)	583	1 7	.96)	2954	(4).36)	597	(8.16)	5584 1	(762.85)	7320	
	1968	45 (0.61)	10 (0.14)	600	(∴ €	1.16)	2845	(3	3.71)	520	(::	7.07)	62873	(855.41)	7350	
a wa a a a a	1969	52 (0.71)	30 (0.41)	659	(E	94)	2923	(3	9.66)	550	(7.46)	65496	(888.68)	7370).
	1970	70 (0.95)	35 (0.47)	673	(5). 11)	3178	(4:	3.00)	549	(7.43)	67676	(915.78)	7390)
With we	1971	ં 69 (0.925		0.48)	625	100	.38)	2875		3.54)	684	(:	9.17)	67649	(906.82)	7460	•
	1972	63 (0.84)		0.53)	679		.07)	3136		1.87)	761	(10.16)	84127	(1123.19)	7490	
	1973		0.93)		0.45)	630		.38)	3132		1.64)	825				(1085.97)	7522	

FOOTNOTES:

1. SERIOUS BODILY INJURY

2. AGGRAVATED THEFT

	BAHRAIN
	NUMBER OF OFFINER DEPONTED
-	1 CARLE DEP 100 000
	The Control of the
	】
	The 1963 ROBBERY: () The Property of the Control of the Contr
	[
	4(2.26) 9 7 7 $10(5.88)$ 20 (4.76)
	$\frac{1966}{1966}$
1	1967
	7 (3 60) 77 (3 60) 77 (6 60)
- [1968
- 1	1969 5 (2.50) 1 (0.50) 3 (1.50) 7 (3.50) 1 (0.53) 193
- [
- [13 (.14)
	19/1 (0.91) 1 (6.3E)
- 1	13/2 1,50/ 14 (C 66)
- 1	
-1	2 (0 88) 2 20 220
-	FOOTNOTES: 2 (0.88) 5 (2.20) 4 (1.76) 28 (12.33) 0 (0.00) 227
	0 (0.00) 227
- 15	1 MURDER AND MANSE AHREITED

BELGIUM		CRIME STATISTICS ++	(RATE PER 100.00	ю)		
YEAR	MURDER () MANSLTR	() HOMICIDE ()	RAPE (1)	SSAULT ()	ROBBERY ()	THEFT (2) POP
1909	57 (0.77)		25725	347.17)	11937	(161.09) 7410
1910	40 (0.54)		27796		11534	(155.38) 7423
1911 1912	29 (0.39) 55 (0.74)		26583 27696		10928 12239	(146.96) 7436 (164.30) 7449
1913	44 (0.59)			(363.63)	12234	(163.95) 7462
1914 GAP						
1919	110 (1,48)		5173	(69,81)	19700	(265.86) 7410
1920	93 (1.26)		9427	(127.31)	15899	(214.71) 7405
1921 GAP			•			
1941		11 (0.13) 29			15689	(189.62) 8274
1942 1943		15 (0.16) 31 28 (0.34) 30	그들 이 중 하는 1일 때문 1일 하는 중 것 같아. 그 그 그 그 것		22440 24018	(272.13) 8246 (291.45) 8241
1944		5 (0.06) 25	그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그		12851	(155.00) 8291
1945 1946		33 (0.40) 25 37 (0.44) 39			5844 7520	(70.08) 8339 (89.88) 8367
1947		45 (0.53) 45	1 (5.34)		6981	(82.62) 8450
1948 1949		49 (0.57) 56 41 (0.48) 78	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		7942 6884	(° 92.81) 8557 (° 79.92) 8614
1843			그 절환 및 하일을 갖는 중요하다		그는 그게 불인 남편을 가입하다.	
1950 1951		29 (0.34) 77 22 (0.25) 66			4966 5653	(57.48) 8639 (65.14) 8678
1952		27 (0.31) 74			6932	(79.40) 8730
1953 1954	[전쟁계약 및 15일은 교육기업	20 (0.23) 74 11 (0.12) 70	그리는 그렇게 하는 그는 그는 그는 중에 그리는 그는 그를 다 되었다.		5300 4438	(60.38) 8778 (50.32) 8819
1955		18 (0.20) 71	A B SERVICE		4266	(48.11) 8968
1956 1957		14 (0.16) 80 15 (0.17) 85	- I		4860 4986	(54.46) 8924 (55.47) 8989
1958		17 (0.19) 82	5 (9.11)		4974	(54.94) 9053
1959		22 (0.24) 100	9 (11.08)		4977	(54:67) 9104
1960		21 (0.23) 113			5558	(60.72) 9153
1961 1962		11 (0.12) 111 18 (0.20) 114			5667 5714	(61.71) 9184 (61.97) 9221
1963		28 (0.30) 105	1 (11.31)	· ·	5847	(62.94) 9290
1964 1965		16 (0,17) 99 24 (0,25) 99			5980 5577	(63.77) 9378 (58.95) 9460
1966		26 (0.27) 86	6 (9.09)		6220	(65.27) 9530
1967 1968		27 (0.28) 104 27 (0.28) 100			7158 7087	(74.72) 9580 (73.67) 9620
1969		34 (0.35) 90			6274	(65.02) 9650

FOOTNOTES:
1. RAPE AND CRIMES AGAINST MODESTY
2. ROBBERY AND THEFT

YEAR MURDER (1) MANSLTR () HOMICIDE () RAPE () ASSAULT (2) ROBBERY ()	THEFT () POP (1228.13) 32
	(1228.13) 32
	(
	(1257.58) 33 (1015.15) 33
	(1015 : 15)
,上上的。这种类似的是一种特殊的现在分类的,我们就是一种的一种的一种的一种的一种的一种,我们就是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	(1168.57) 35
	(1197.14) 35
	(1660.00) 35
1948 0 (0.00) 0 (0.00) 13 (36.11) 85 (236.11) 4 (11.11) 598 ((1661.11) 36
1949 2 (5,56) 0 (0,00) 7 (19.44) 91 (252.78) 3 (8.33) 515	(1430.56) 36
	(1359.46) 37
	(1452.63) 38
1952 1953 1 (2.56) 1 (2.56) 4 (10.26) 60 (153.85) 13 (33.33) 752 ((1928.21) 39
	(1928 . 2 1)
	(2080.00) 40
	(2704.88) 41
	(2133.33) 42
	(4441.86) 43
1959 7 (16.28) 1 (2.33) 4 (9.30) 134 (311.63) 11 (25.58) 1757	(4086.05) 43
	(5813.63) 44
-Problem 2000 1 The contrast for the transform for the following the contrast for the transform	(5595.55) 45
	(6323.91) 46 (6508.51) 47
	(5833.33) 48
	(6832.00) 50
	(6610.00) 50 (7518.00) 50
	(5018.00) 50
1969 1 (2.00) 1 (2.00) 4 (8.00) 98 (196.00) 11 (22.00) 3092	(6184.00) 50
1970	221. uunit haaka
197) 3 (6.00) O (0.00) 5 (10.00) 156 (312.00) 26 (52.00) 2120	(4240.00) 50
1972 2 (3.92) 0 (0.00) 3 (5.88) 155 (303.92) 17 (33.33) 1769	(3468.63) 51
	(3532.69) 52
1974 5 (9.62) 1 (1.92) 5 (9.62) 112 (215.38) 39 (75.00) 2594	(4988.46) 52

FOOTNOTES: 1. MURDER AND ATTEMPTED MURDER AFTER 1953 2. Includes Assault and Serious Assault, 1953-1961

YEAR MURDER () MANSLTR () HOMICIDE () RAPE () ASSAULT () ROBBERY ()	THEET		ene
1961 553 (15.80) 364 (10.40)		3.37)	
FOOTNOTES: * COEFFICIENT OF DEFENDERS; RAW CRIME DATA FROM INTERPOL. RATES COMPUTED FROM POPULATION FIGURES ABOVE			
	Access to the second		

िक्ष (१८८८) वर्ष (१८८८) वर्ष

	VEI *	, ML	İRDER	() Mansitr		TISTICS + DE (1)		RAP		100,00 A		AULT ()	RO	BBE	ŔŸ ()	1	HEFT	()	90P	
	1964 1965 1966 1967 1968 1969	0 0 1 1 0		00) 00) 91) 91) 00)		0.00) 0.00) 0.00) 0.00) 0.00)	1 2 3 0 1	(1.00) 2.00) 2.73) 0.00) 0.83) 0.83)	68 56 62 13 31	()()	68.00) 56.00) 56.36) 11.82) 25.83) 38.33)	0 0 0 0 0 2		0.00) 0.00) 0.00) 0.00) 0.00) 1.67)	122 113 185 189 166 245	113 168 171 138	.00) .00) .18) .82) .33)	100 100 110 110 120 120	
	1970 1971 1972 1973 1974	2 0 0 2 2	(0	.54) .00) :00) :40) .37)) () (0.00) 0.00) 0.00) 0.00) 0.00)	0 3 0 4 3	((0.00) 2.14) 0.00) 2.80) 2.05)	250 363 316 336 175	(192.31) 259.29) 225.71) 234.97) 119.86)	4 2 4 9		3.08) 1.43) 2.86) 2.80) 6.16)	284 329 335 297 254	235 239 207	.46) .00) .29) .69)	130 140 140 143 146	

FOOTNOTES:

* RAW CRIME DATA FROM INTERPOL: RATES COMPUTED FROM POPULATION FIGURES ABOVE
1: CULPABLE HOMICIDE

BRUNET		MURD	ER () Mansetr (CRIME) HOMI		TIST:			IATE PI	R)(ULT ())	RO	BBER	iγ ()		TH	IEFT (,	ř	-02 -03
19 19 19	65 66	0 (0 (1 (0 (0.00 0.00 0.91 0.91 0.00) } }	(((() (0.00 0.00 0.00 0.00 0.00) 	1 (2 (0 (1 (1.00 2.00 2.70 0.00 0.80)) } }	68 56 62 13 31 46	(1)	68.00 56.00 56.30 11.8 25.8	0) 6) 2) 3)	000000	(((0.00) 0.00) 0.00) 0.00) 0.00)	122 113 185 189 166 245	0000	122.0 113.0 168.1 171.8 138.3 204.1	0) 8) 2) 3)		100 100 110 110 120
19	70 71 72 73 74	2 (0 (0 (2 (1.54 0.00 0.00 1.40 1.37)	C C) () (0.00 0.00 0.00 0.00		0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0	0.00 2.14 0.00 2.80 2.05) } })	250 363 316 336 175		192.3 259.29 225.7 234.9	9) 1) 7)	4 2 4 9		3.08) 1.43) 2.86) 2.80) 6.16)	284 329 335 297 254	(()	218.4 235.0 239.2 207.6 173.9	0) 9) 9)		130 140 140 143

FOOTNOTES:

* RAW CRIME DATA FROM INTERPOL: RATES COMPUTED FROM POPULATION FIGURES ABOVE
1. CULPABLE HOMICIDE

BURMA *			NUMBER OF OF	ENSES REPORTE	D ++ (R	ATE PER 100,000)					
YEAR	ia.	JRDER ()	MANSETR () HOMICI	DE () R	APE (1)	ASSAULT ()	RO	BBERY ()		THEFT ()	POP
			And the state of the state of the state of the state of the state of the state of the state of the state of the			CONTRACTOR OF THE TAX TO SEE THE TAX					
1953	11495	(58.32)		2207 (11.20)		38573	(195.70)	46164	(234.22)	19710
1954	9072	(45.27)		1944 (9.70)	RELIGIOUS TENEDOS ESTADOS TENEDOS PORTOS ESTADOS	31482	(157.10)	37613	(187.69)	20040
1955 1956	7246 12034	(35,54) (58.05)		1797 (2504 (8.52) 12.08)		25379 36154	(124.47)	40999	(201:07)	20390 20730
1957	2302	(10.89)		528 (2.50)		6320	(29.91)	45860 9180	(221.23) (43.45)	21130
1958	10256	(47.64)		2463 (11.44)		30133	(139.96)	43388	(201.52)	21530
1959	7031	(32.05)		3761 (17.14)		16661	(75.94)	34033	(155.12)	21940
										•	
1960	7879	(35,24)		3427 (15.33)		19566	(87.50)	33480	(149.73)	22360
1961	8232	(36.14)		3549 (15.58)		20307	(89.14)	34713	(152.38)	22780
1962	7400	(31.82)		3704 (15.93)		15992	(68.77)	37052		29259
1963	6774	(28.54)		3717 (15.66)		14968	(63.06)	41030	(172.87)	23735
1964	6792	(28.03)		3720 (15.35)		17712	(73.10)	45948	(189.64)	24229
1965	9120	(36.88)	ili. Na <mark>doring, arradorida progodina inte</mark> aria, un trovinto internito internecimiento, un internecimiento internecimi	5040 (20.38)	vist in People Alberton (1917). The control of the	25368	(102.58)	64656	(261.45)	24730
1966 1967	9975 9698	(39.50)		4200 (3562 (16.63)		29432	(121.19)	68725	(272.18) (343.91)	25250 25810
1968	8505	(32.23)		6831 (25.88)		20061	(76.02)	88764 75141	(348.91) (284.73)	
1969	7755	(28.74)		3273 (12.13)	and the second of the second o	15098	(55.96)	60115	(222.81)	26980
1000	,,,,,	(25.74)		02/0 (,			(23.50)	55115	(222.01)	20300
1970	7252	(26.29)		3416 (12.39)		62804	(227.72)	11172	(40.51)	27580
19-19-19 (19-19)				ach ially liberals			1000				ransak bilang

FOOTNOTES:

- S: * RAW CRIME DATA FROM INTERPOL; RATES COMPUTED FROM POPULATION FIGURES ÁBOVE
- 1. SEX OFFENSES

1965 1966	256 (146 (DER () MAN 4.82) 2.69)	NSLTR () HOMIC	1DE () R	RAPE (1) ASS/	FAULT () RO	BBERY ()		HEFT ()	POP
1967 1968 1969	30 (0.53) 2.07)		50 (35 (0.92) 0.62)	183 217	(3.45) (4.00)	355 (267 (6.69) 4.93)	5310 5420
1970		1.75)		138 (149 (2.40)	160 512	(2.84) (8.92)	255 (2326 (4.53) 40.52)	5630 5740
TNOTES:	AW CRIME D		ITERPOL; RATES COI	•	2.55)	627	(10.74)	5624 (96.30)	5840

CANADA	NUMBER OF CONVICTIONS ++ (RA	TE PER 100,000)	
YEAR MURDER (1)	MANSLTR (2) HOMTSIDE (3) RAPE () ASSAULT () RO	DBBERY (4) THEFT (5) POP
1901 7 (0.13) 1902 11 (0.20) 1903 8 (0.14) 1904 14 (0.24) 1905 12 (0.20) 1906 3 (0.05) 1907 8 (0.12) 1908 14 (0.21) 1909 18 (0.26)	12 (0.22) 17 (0.31) 14 (0.24) 19 (0.32) 15 (0.25) 15 (0.24) 24 (0.37) 22 (0.33)	346 (6.44) 52 522 (9.40) 29 660 (11.85) 61 698 (11.80) 92 651 (10.66) 84 592 (9.41) 62 728 (11.24) 99 1179 (17.71) 101 1264 (18.47) 92	(0.52) 287 (5.17) 5555 (1.41) 346 (6.03) 5739 (1.55) 366 (6.18) 5923 (1.38) 477 (7.81) 6107 (0.99) 392 (6.23) 6291 (1.53) 318 (4.91) 6475 (1.52) 507 (7.61) 6659
1910 GAP 1919	60 (O.69)	1323 (15.31) 2300	(26.62) 8605 (99.61) 8639
1920 1921 1922 1923 1924 1925 1926 1927 1928	69 (0.78) 56 (0.62) 64 (0.70) 53 (0.57) 47 (0.50) 55 (0.58) 60 (0.62) 126 (1.29) 61 (0.51) 124 (1.25) 84 (0.53) 150 (1.48) 85 (0.83) 182 (1.77)	1389 (15.75) 1868 1474 (16.44) 1966 1451 (15.92) 1207 1302 (14.05) 1704 1440 (15.30) 1905 1400 (14.65) 1624 1743 (17.89) 1896 1470 (14.81) 2167 1923 (19.01) 2553 2202 (21.38) 3696	
1930 1931 1932 1933 1934 1935 1936 1937 1938 1938	68 (0.65) 214 (2.04) 77 (0.73) 172 (1.62) 68 (0.63) 158 (1.47) 63 (0.58) 147 (1.35) 58 (0.53) 142 (1.29) 56 (0.50) 153 (1.37) 81 (0.72) 137 (1.22) 57 (0.50) 138 (1.22) 68 (0.59) 127 (1.11) 70 (0.60) 124 (1.07)	2268 (21.63) 4327 2336 (22.01) 4267 2144 (19.96) 4347 2167 (19.93) 4238 2471 (22.46) 4147 2667 (23.95) 4841 2553 (22.71) 4604 2440 (21.49) 5509 2639 (23.02) 6147 2996 (25.89) 5418	(40.20) 11144 (104.99) 10614 (40.46) 11287 (104.77) 10744 (38.97) 10719 (98.87) 10874 (37.69) 10603 (96.36) 11004 (43.48) 11026 (99.02) 11135 (40.95) 11905 (105.83) 11244 (48.52) 14048 (123.74) 11353 (53.63) 14763 (128.80) 11462
1940 1941 1942 1943 1944 1945 1946 1947 1948 1949	65 (0.56) 148 (1.27) 60 (0.51) 130 (1.10) 68 (0.57) 113 (0.94) 44 (0.36) 125 (1.03) 30 (0.24) 106 (0.86) 59 (0.48) 152 (1.23) 87 (0.69) 146 (1.16) 73 (0.57) 146 (1.13) 67 (0.51) 155 (1.18) 77 (0.57) 172 (1.28) 94 (0.69) 112 (0.82) 107 (0.76) 137 (0.98)	3632 (31.09) 4217 3914 (33.11) 3920 4301 (35.96) 4223 4088 (33.76) 5291 4183 (34.11) 5297 4814 (38.84) 5783 5994 (47.49) 5304 5462 (42.38) 5541 4929 (37.43) 5076 4194 (31.19) 3952 4153 (30.29) 4292 3491 (24.92) 3883	(33.16) 11056 (93.52) 11822 (35.30) 12158 (101.64) 11962 (43.70) 12565 (103.77) 12108 (43.20) 12280 (100.15) 12262 (46.66) 12522 (101.03) 12394 (42.02) 12172 (96.43) 12622 (42.99) 11719 (90.93) 12888 (38.55) 11217 (85.18) 13167
1952	95 (0.66) 135 (0.94)	3874 (26.85) 4040	

YEAR	MURD	ER (1)	MANS	LTR (2)	HOMICIDE	(3)	RAPE ()	AS	SAU	LT ()	ROP	BERY	(4)		THI	EFT (5)	PC
		TRANSPORT	,,,,,,,,			o Brasile				_ , ,				```			(0)	
1953	405 (0.00)	89	(0.60)		.01)		3864		26.14		174 (. 24)	9001		60.90)	1478
1954 1955	125 (118 (0.82)	96 ->59	(0.38)		.03) .01)	ro waa i Nasaa Niji	3765 3483		24.78 22.33		1743 (1606 (.21) .52)	8746		57.56)	1519 1560
1956	131 (0.81)	83	(0.58)	19/1			3536	- Tr	21.93		1580		(41)	8229 9192		52.75) 57.01)	161
1957	129	0.77)	118	(0.71)			e - John Chagae Jack et maga Tagés da Lina Jang et Jan	3638		21.81		588 (.61)	11497		68.94)	166
1958	153 (0.89)	98	(0.57)	nter grouper inter y treases a contri	Commence of the Commence of th		3457		20.19		896 (. 28)	12847		75.04)	17 1
1959	141 (0.80)	115	(0.66)				3180	(18.15) 6	435 (-	.73)	12660	•	72.25)	175
and the second of the second o	Transfer a residence			in the second	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·												
1960	190 (1.06)	112			Walio India		3550		19.82		642 (.67)	14435		80.60)	179
1961	185 (1:01)	114	(0,62)				3772		20.65		863 (.04)	15456		84.60)	182
1962 1963	217 (215 (1.17]	164 151	(0.88) (0.80)				3975 4077		21.37 21.54		1776 (1701 (.81) .97)	15001		80.65)	186
1964	218 (1.13)	137	(0.30)				4394	1	21.34	5	399 (.66)	16765 16649	•	88.57) 86.55)	189 192
1965	243 (1.23)	141	(0.72)				4579	•	23.27		927 (.28)	17972	•	91.32)	196
1966	221 (1.10)	142	(0.71)				5097		25.42		965 (73)	20480	•	102 14)	200
1967	282 (1.38)	168	(0.82)				4587		22.47		179 (40	.07)	20264		99.28)	204
1968	315 (1.52)														. 4		207
1969	346 (1.65)																210
1070		>																
1970 1971	433 (427 (2.03) 1.98)	anaemaa wata	SANTOS ASSON	12600 0.0 0000 (340000 (37000	empeter a	ing a state of the	21 to 18 12		ing the state of t			e de di	e de Eve				213
1972	479	2.19)								e liber								216 218
1973	474	2.14)									1 2	14						221
	. 1877 B. N. C	i. 	a. Programme	grande tradición										2 20				24!
TNOTES:																		

- 4. ROBBERY AND BURGLARY AFTER 1909 5. BREAKING AND ENTERING BEFORE 1919

YEAR	CAN REPUBLIC * MURDER () M	NUMBER OF OFFI	INSES REPORTED E () RAP		ROB	BERY ()	TI	IEFT ()	POP
1967 1968 1969 1970	72 (4.80) 19 (1.23) 66 (4.18) 39 (2.42)		23 (48 (0.27) 1.49) 3.04) 1.68)	196 (106 (98 (20.20) 63.05) 29.05) 26.09)	1500 1540 1580
		DERS IN 1967; RAW CF UTED FROM POPULATION							
								¥30 30 35 30 30 35 30 50 50 1 50 50 50	

CHAD * YEAR	맞은데 이 얼마를 가장하는 때에는 어때는 생활	MBER OF OFFENSES REPORTED #4 (RATE PER 10) HOMICIDE () RAPE (1) ASSA	그 하는 어떻게 되는데 그를 느낌하네요. 그렇게 하는 사는 사람	FT () POP
1967 1968 FOOTNOTES:: * H	416 (12.13) 452 (12.91) IAW CRIME DATA FROM INTERPOL OPULATION FIGURES ABOVE	12 (0.35) 8 (0.23)	2104 (61.34) 1908 (54.51)	3430 3500
1.	SEX OFFENSES			

1900 1901	855 (29.27) 1002 (33.78)	290 (9.93) 310 (10.45)	2481 (84.5 2329 (78.6		2921 2966
1902	1032 (34.27)	362 (12.02)	2475 (82.	(o)	3011
1903 1904	1068 (34.95) 1040 (33.54)	931 (10.83) 331 (10.67)	2516 (82.3 2943 (94.9	33) 90)	3056 3101
1905	1040 (33.06)	317 (10.08)	715 (22.	73)	3146
1906 1907	1063 (33.31) 941 (29.12)	306 (9.59) 216 (6.69)	2308 (72.3 1798 (55.0		319 323
1908	1177 (38.00)	365 (11.79)	1830 (59.0	9)	3097
1909	1252 (42,25)	260 (8.77)	2005 (* 67.6		296
1910 1911	1252 (44.26) 1246 (46.22)	366 (12.94) 284 (10.53)	1576 (55.° 1649 (61.		2829 269
1912	1275 (45.26)	298 (10.58)	1707 (60.6	50) . 33. 24. 44. 44. 44. 44. 44. 47. 47.	281
1913 1914	437 (14.87) 668 (21.84)	302 (10.28) 274 (8.96)	10 (0.0		293 305
1915	458 (14.40)	179 (5.63)	2743 (86.	26) 6278 (197.42)	318
1916 1917	617 (18.69) 398 (11.63)	208 (6.30) 206 (6.02)	2226 (67.4 2501 (73.0		330 342
1918	479 (19,95)	267 (7.54)	2865 (80.	16) 7535 (212:67)	354
1919	1486 (39.74)	350 (9.56)	58 (1.1	8737 (238.46)	366
1920	1272 (33.61)	278 (7.34)	2089 (55.		378
1921 1922	1354 (35.23) 1421 (36.43)	269 (7.00) 325 (8.33)	2533 (65.9 2012 (51.9		384 390
1923	1473 (37:21)	304 (7.68)	1616 (40.6	12) 8278 (209.09)	395
1924 1925	1324 (32,96) 1204 (29,56)	333 (8.29) 326 (8.00)	1657 (41.) 1647 (40.		401
1926	2251 (54.49)	399 (9.66)	1440 (34.8	16)	413
1927 1928	2245 (53.59) 851 (20.04)	549 (13.11) 562 (13.23)	1668 (39.8 3723 (87.6		418 424
1929	809 (18.79)	598 (13.89)	3338 (77.5		430
1930	143 (3,28)	21 (0.48)	123 (2.4	12) 9229 (211.43)	436
1931	22 (0.50)	986 (22.25) 762 (16.94)	39 (Ö.6 6088 (135.3		443 449
1932 1933	2656 (59.04) 2726 (59.70)	832 (18.22)	6335 (138.7	74)	456
1934 1935	2707 (58.43) 1047 (22.28)	837 (18,07) 682 (14,51)	4887 (105 4 9716 (206 1		463 470
1936	1194 (23.76)	640 (13.41)	9229 (193.	16) 19298 (404.32)	477
1937 1938	1109 (22.88) 951 (19.33)	615 (12.69) 503 (10.23)	9079 (187.3 9312 (189.3		484 491
1939	988 (19.79)	527 (10.56)	8466 (169.		49¢
1940	1024 (20,23)	562 (11.10)	7907 (156.	17386 (343.39)	506
1941	1006 (19.52)	566 (10.98)	6996 (135.	4) 17321 (336.07)	515
1942 1943	1152 (21.97) 987 (18.48)	578 (11.Ö2) 671 (12.56)	7753 (147.8 8067 (151.0	35) 20318 (387.45) 04) 19701 (368.86)	524 534
1944	1069 (19.65)	577 (10.61)	7155 (131.5	3) 17123 (314.76)	544

HILE			CONTINUED	
YEAR MURDER () 1945 1946 1947 1948 1949	747 (13.48) 848 (15.03) 811 (14.11) 943 (16:11)	526 (9.49) 5679 501 (8.88) 5318 561 (9.76) 5572 601 (10.27) 5448	(102.49) 16630 (94.24) 17548 (96.84) 19867 (93.06) 19768 (83.86) 29859	3 (310.97) 5643 (345.63) 5748
1950 1951 1952 1953 1954 1955 1956 1957 1958	720 (11.86) 710 (11.48) 2361 (37.48) 696 (10.77) 628 (9.50) 661 (9.73) 2087 (29.98) 633 (8.87) 642 (8.78) 312 (4.16)	895 (14.74) 5170 779 (12.59) 4747 799 (12.68) 3445 877 (13.58) 4483 1018 (15.38) 4890 995 (14.65) 5548 902 (12.96) 3388 385 (5.39) 4147 1036 (14.16) 5407 518 (6.91) 2414	(85.13) 19121 (76.75) 20680 (54.69) 19335 (69.40) 17952 (73.87) 19718 (81.71) 20510 (48.66) 20810 (58.11) (73.91) (32.19)	0 (334.36) 6185 6 (306.95) 6299 9 (277.89) 6460 1 (297.85) 6620 0 (302.06) 6790
1960 1961 1962 1963 1964 1966 1966 1967 1968	554 (7.21) 756 (9.62) 657 (8.18) 651 (2.52) 489 (5.76) 603 (6.52) 541 (6.07) 640 (7.00) 711 (7.60) 652 (6.81)	5016 926 (11.78) 6080 920 (11.46) 5016 963 (11.72) 5828 772 (9.09) 5421 1011 (11.61) 6453 893 (10.01) 4021 842 (9.21) 4140 684 (7.32) 4105 542 (5.66) 4450	(65.24) (77.37) 15129 (62.47) 14690 (70.93) (63.84) (74.09) (45.08)	7689 (192.53) 7858 (182.96) 8029 8217
1970 1971 1972 1973 1974	회사를 하시어 어린 경향 그림 그림으로 가장 부탁한 등 보고 있다. 하면 사용을 누워 되어 있다고 하는 이 점점이		(48.73) (49.16) 6313 5958 5608	9720 9880 3 (62.88) 10040 3 (58.24) 10230 5 (53.75) 10430

CHIN	A, REPUBL	COF (TAIWAN)	CRIME	STATIST	1CS	(RATE PI	R 100.0	00)	1110													
i jarat Med Takkaksa	YEAR	MUR	DER () MANSLTR	() HOM	ICIDE ()	RAPE ()	ASS	SAUI	LŤ ((1)		RO	BER	(2)		1	HEFT	(3)		PDF	3
	1952	553 (6.91						253		-	31.6			126		. 57	:	665			.21		8000	
	1953	491 (5.94		nek strougener in	Lata wa matus I da 1808	to www.vilonts.comtu		344			41.			182		2.20		8688			. 17		8261	
	1954	637 (7.39						576			66.6 65.6		J	250		. 90		1084			.86) .67		8617 8907	
	1955	942	10.58						586 686			74 .			192 317		2.16 1.43		1270			.33		9240	
	1956 1957	947 (921 (10.25 9.69	Entransport of the second section of the second section is a second section of the second section is a second section of the second section is a second section of the section of the second section of the second section of the section of the second section of the section of th		egyeth eggogn vidino		ाकुर, १८७ - क. ५०) -	571			60.			209		2.20		1209			. 27	6 40 00 2 }	9506	
	1958	1022 (10.37						654		-	66 . 4	- 1		226		2.29		12516			.05		985	
	1959	1199 (11.72			•			66	6	Ì (64.6	66)		303		2.96		13180	o (128	.81)) ', -	10232	2
	200		:														1997 1 Jane								
	1960	1440 (13.57						773			72.			160		.45		1368			.96)		10612	
	1961	1511	13.77						808			73.			337		.07		15549			73)		1097	
	1962	1556 (13.71						782			68.9	- 1		106		3.58		16410			.59)		11349	
	1963	1702 (14.55						807 843			69.(69.(165 319		3.98 2.64		18274 18659			. 24) . 59)		11696	
	1964	1753 (14.52 16.43			areasta area e i	************************************	en singapanturi	893			7] [277	•	2.23	5 w.a.	1826			95		12427	
	1965 1966	2042 (18.34						92			72.0			18		49		1716			.24		12784	
	1967	2419 (18.41						920			70.0			13		. 38		1410			31		1314	
	1968	2469 (18.29		and holidendoor Right (\$1000) or a	pag was to page page 200	aragramayna birti.t	2950900757/77157075	876			64.9			166		3 . 45		13840			. 53		13498	
	1969	3027	21.85		1				976	8	(.	70.5	50)	:	375	(2	2.71)	15589	9 (112	. 52) .	13855	5

- 1: INJURY 2: PILLAGE AND ROBBERY 3: BURGLARY

***	*		*	***		****	***		***	**
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