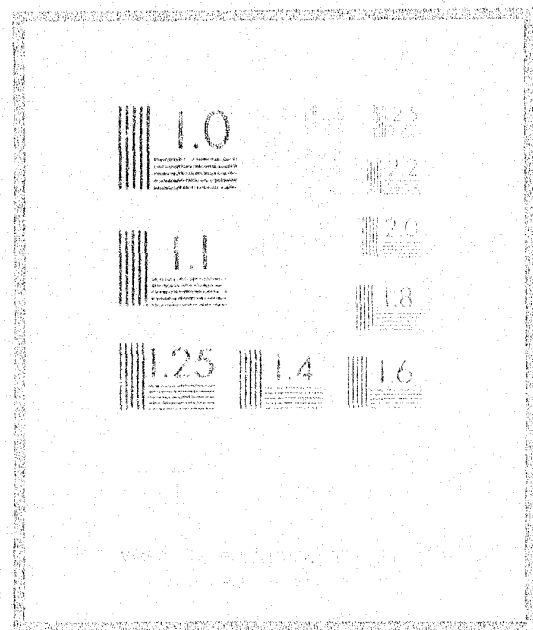


NCJRS

This microfiche was produced from documents received for inclusion in the NCJRS data base. Since NCJRS cannot exercise control over the physical condition of the documents submitted, the individual frame quality will vary. The resolution chart on this frame may be used to evaluate the document quality.



Microfilming procedures used to create this fiche comply with the standards set forth in 41CFR 101-11.604

Points of view or opinions stated in this document are those of the author(s) and do not represent the official position or policies of the U.S. Department of Justice.

U.S. DEPARTMENT OF JUSTICE
LAW ENFORCEMENT ASSISTANCE ADMINISTRATION
NATIONAL CRIMINAL JUSTICE REFERENCE SERVICE
WASHINGTON, D.C. 20531

7/13/77

imed

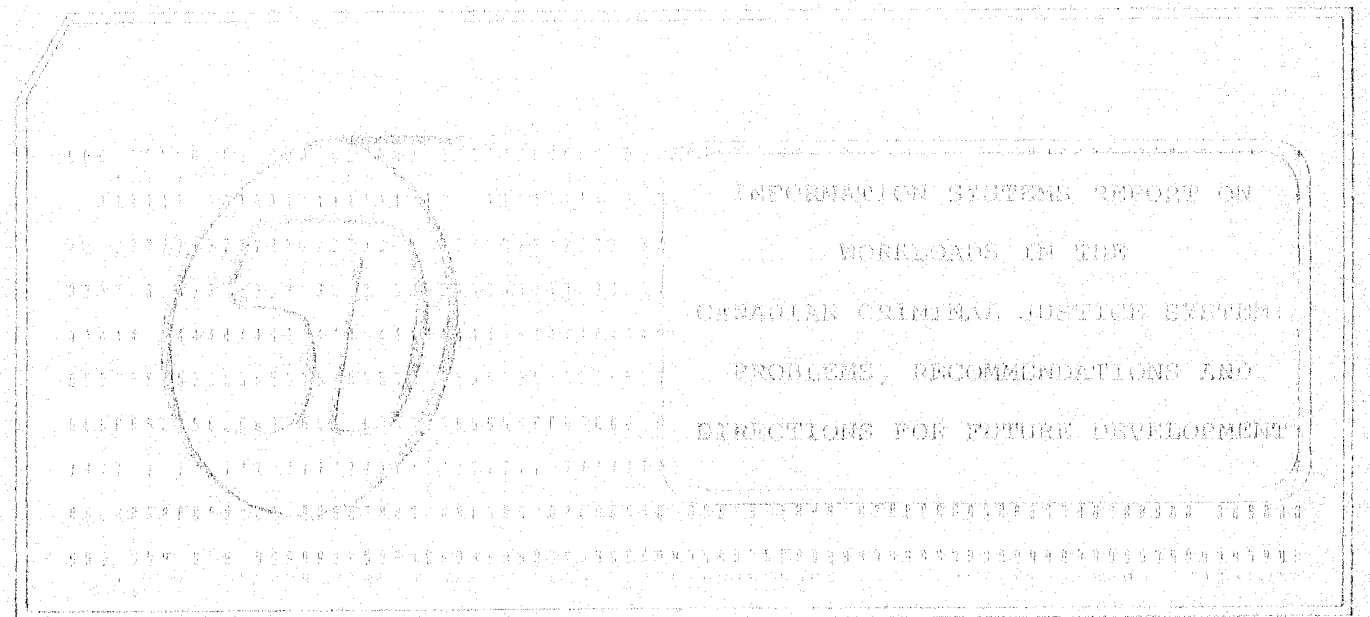


Solicitor General
Canada

Solliciteur général
Canada

Statistics Division

39904
40665



STATISTICS DIVISION
Report #9/73

MINISTRY OF THE SOLICITOR GENERAL
and
SECRETARIAT OF TREASURY BOARD

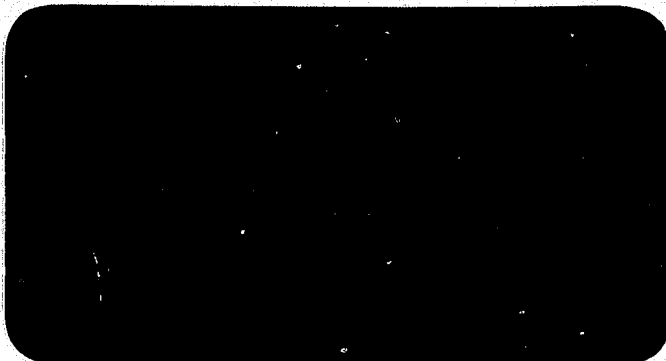
December 31, 1973

A CANJUS PROJECT REPORT
#6

INFORMATION SYSTEMS REPORT ON
WORKLOADS IN THE
CANADIAN CRIMINAL JUSTICE SYSTEM:
PROBLEMS, RECOMMENDATIONS AND
DIRECTIONS FOR FUTURE DEVELOPMENT

by
R. George Hopkinson
with
CANJUS Project Team

NCJRS
MAR 10 1977
ACQUISITIONS



CANJUS PROJECT

The CANJUS project is a project being undertaken by the Statistics Division of the Ministry of the Solicitor General with the assistance of the Planning Branch of the Treasury Board Secretariat. The objective of the project is to develop a comprehensive simulation model of the Canadian Criminal Justice system to 1) develop a basic quantitative description of that system, 2) assist in the planning of policy and program changes by agencies involved in the administration of that system, and 3) serve as the foundation for future analyses and research on the system. The project team at the present time consists of (alphabetically) Neil Carroll, Gordon Cassidy, Elizabeth Cole, Carolyn Fuller, George Hopkinson, Brian Johnson, Lynda Peach, and John Townesend. Not all persons have been committed to the project full-time, but all have made a contribution, without which, some of the many CANJUS publications would not have been possible.

DISCLAIMER

The views expressed are those of the authors and do not necessarily represent those of the Ministry of the Solicitor General or the Secretariat of Treasury Board.

ACKNOWLEDGEMENT

This report would not have been possible without the full co-operation of the Judicial Division of Statistics Canada and many of the agencies, federal, provincial and local, involved in the administration of criminal justice in Canada. In particular, Ms Francine Bertrand, Ms Jane Angus, Ms Sharon Card, and Mr. Marvin Ross of Statistics Canada, and their staff were most helpful in explaining tables and obtaining extra information where necessary. Responsibility for the manuscript, including any errors or omissions, must, however, remain with the authors.

I.

INTRODUCTION

During the last decade we have seen an increasing interest on the part of the public not only in the phenomena of crime in our society because of such factors as increasing crime rates and overcrowding in our prisons, but also in increasing interest on the part of the public in the administration of criminal justice. More and more, public administrators are coming to question allocations of monies between different parts of the criminal justice system and to ask very relevant questions about the administration of that system.

Before we are able to provide answers to these questions as to what kinds of policies and programs should be instituted to reduce the number of persons incarcerated or to provide better protection for society, we must first of all know what is really happening in the system. Perhaps the criminal justice system is not unique among social systems because of our lack of knowledge of its operation, but it is certainly one of the ones about which we know the least. Both Canada and the United States, within the last decade, have been plagued

with a lack of comprehensive information about the operation of the criminal justice system. Reports have been produced on various parts of the system which either do not take into account other parts or assume the effect is negligible. Anyone familiar with the operation of the criminal justice system realize that it is a highly inter-related system and that the effects on one subsystem, such as an increased crime rate, while it may have a major effect on police, may have an even more major effect on the crowding in our penitentiaries or the overcrowding and long delays within the court subsystem.

For all of these reasons and others, the CANJUS project was instituted as a method of providing a description of the Canadian criminal justice system, including the flow of offenders from the initial report of the offence to the final sentencing of the charged individual or his acquittal and his progress through the correction institutions and parole or probation systems. The CANJUS model contains not only information on the flows of offenders but also information on the resources which are applied at different parts of the criminal justice process, such as judges, policemen, correctional officers, and the costs of these resources.

A schematic of the simulation model is shown in Figure 1. The model itself is an interactive model allowing policy planners and analysts to make changes in the criminal justice process either in flows of individuals, the costs, or the manpower and to observe the impact of these changes, not only in the subsystem where they are changed but also in other parts of the criminal justice process.

Naturally, the development of this model has consisted, initially, of a large effort in data aggregation and in collecting data, not from one source (which one might expect might exist on statistics on the criminal justice system) but from many sources. A primary source for the flow information has been the Statistics Canada reports dealing with flow of individuals through the criminal justice system. However, the cost and workload information has been obtained from many agencies, including provincial and local agencies who actually administer parts of the criminal justice system. Although costs are normally contained in some form in line budget items and public accounts, such is not the case for workloads. In fact, workload information in many cases, such as the court system, has only recently

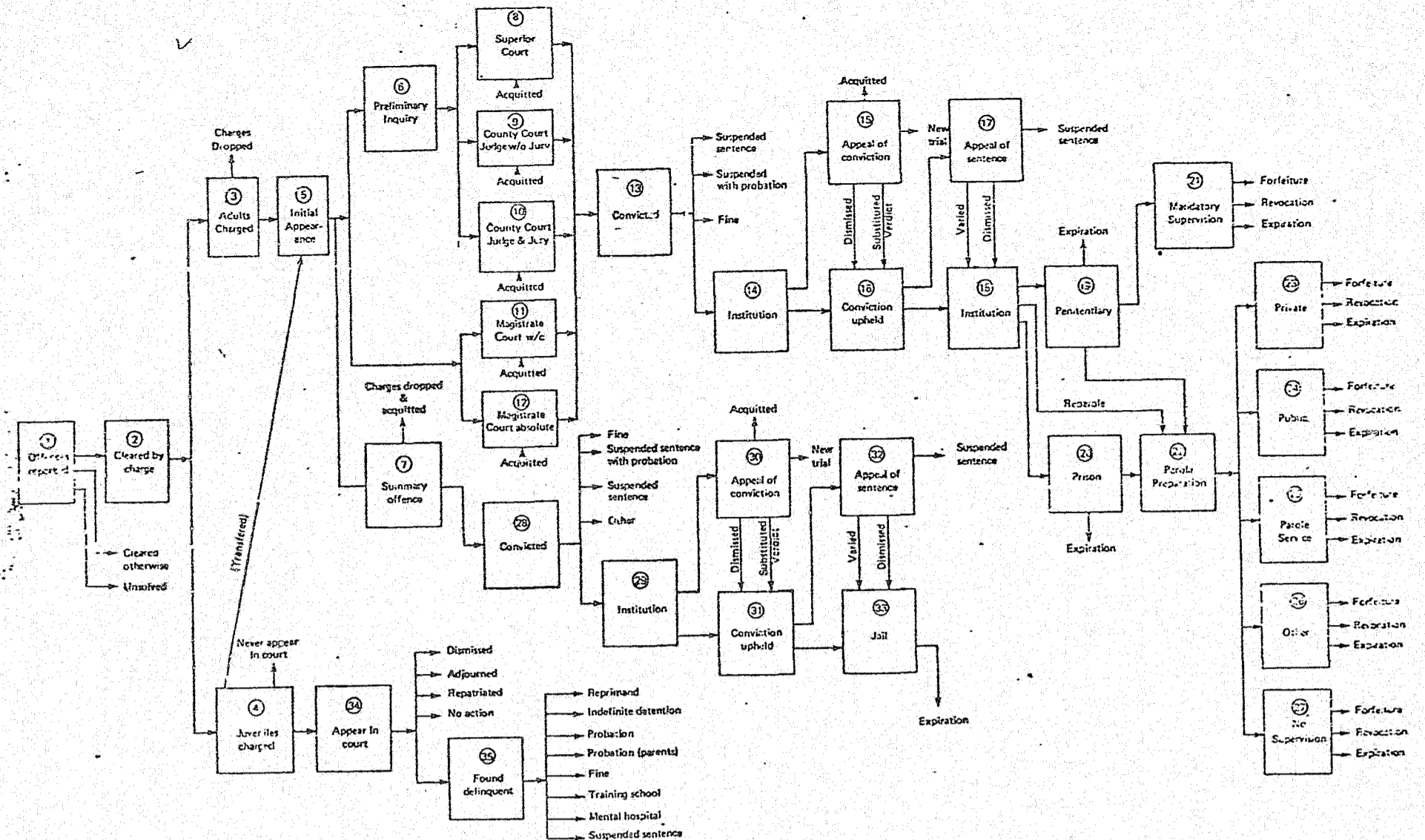


Figure 1. Flow diagram: Canadian Criminal Justice System

begun to be recorded in terms of the number of hours per case by crime type. For parts of the system there are actually workloads, such as the penitentiary system where the sentence ^{1/} is a reasonable proxy for the amount of time the individual will spend in the institution. Of course, this too has been changed, since most sentences are only served for two-thirds of the original time and then the prisoner is released, partially because of the automatic remission which a prisoner earns while he is in an institution.

Therefore, in beginning to obtain workloads for the CANJUS model description, it has become clear that the first priority is to define what is meant by the workloads in the various parts of the criminal justice system and then to obtain these common workloads within the definitions required.

The following section of the paper then, will provide a set of consistent definitions of workloads for the different subsystems of the criminal justice system which will help make clear exactly the data which is being incorporated into the CANJUS model. The third

1/ This is sentence actually served; not nominal sentence.

section of the paper then describes the set of workloads (particularly for the penitentiary system) which have been obtained to date and the assumptions and difficulties in obtaining these workloads. Together with these descriptions of present workloads obtained, there will be a set of recommendations, for the future collection of these workloads in the police, court and penitentiary systems, made at a later time. The last section of the paper also describes the future developments which are planned for obtaining more workloads for the basic CANJUS description of the Canadian Criminal Justice System.

II. DEFINITIONS OF WORKLOADS

This section of the paper devotes itself to definitions of resources within the Canadian criminal justice system, and to discussion of the manner in which these resources are applied within the system.

For our purposes, criminal justice resources have been classified into thirteen different categories, each representative of a particular part of the administration of the Canadian criminal justice process, examples of which are "police" and "magistrate's court". These unit resources (hereafter referred to as "resources") are listed fully in Table 1. Each resource performs a different function within the system, and applies itself in a specific way to the processing of offenders. The application of a resource to one offender of a particular crime type, termed the "unit workload", is defined as the average time required by that resource to process one offender through a specific stage in the criminal justice system. The unit workloads associated with each resource are listed in the second column of Table 1. Figure 2 shows how these unit workloads have been assumed to be applied to the specific stages in the

TABLE 1 - WORKLOADS

<u>Workload Number</u>	<u>Name</u>	<u>Unit of Time</u>	<u>Associated Resource</u>
1	Police Report	Hour	(1) Police
2	Police Arrest	Hour	(1) Police
3	Magistrate: Initial Appearance	Day	(2) Magistrate Court
4	Magistrate: Preliminary Inquiry	Day	(2) Magistrate Court
5	Magistrate: Trial	Day	(2) Magistrate Court
6	Judge: Bench Trial	Day	(3) County Court
7	Judge: Jury Trial	Day	(3) County Court
8	Superior Court: Trial	Day	(4) Superior Court
9	Superior Court: Appeal	Day	(4) Superior Court
10	Penitentiary	Year	(5) Penitentiary
11	Prison	Year	(6) Prison
12	Jail	Year	(7) Jail
13	Parole Preparation	Case	(8) Parole Preparation
14	Parole	Case	(9) Parole
15	Mandatory Supervision	Case	(9) Parole
16	Probation Preparation	Case	(9) Probation Preparation
17	Probation	Case	(10) Probation
18	Juvenile Court	Day	(11) Juvenile Court
19	Juvenile Probation	Case	(12) Juvenile Probation
20	Juvenile Training School	Year	(13) Juvenile Training School

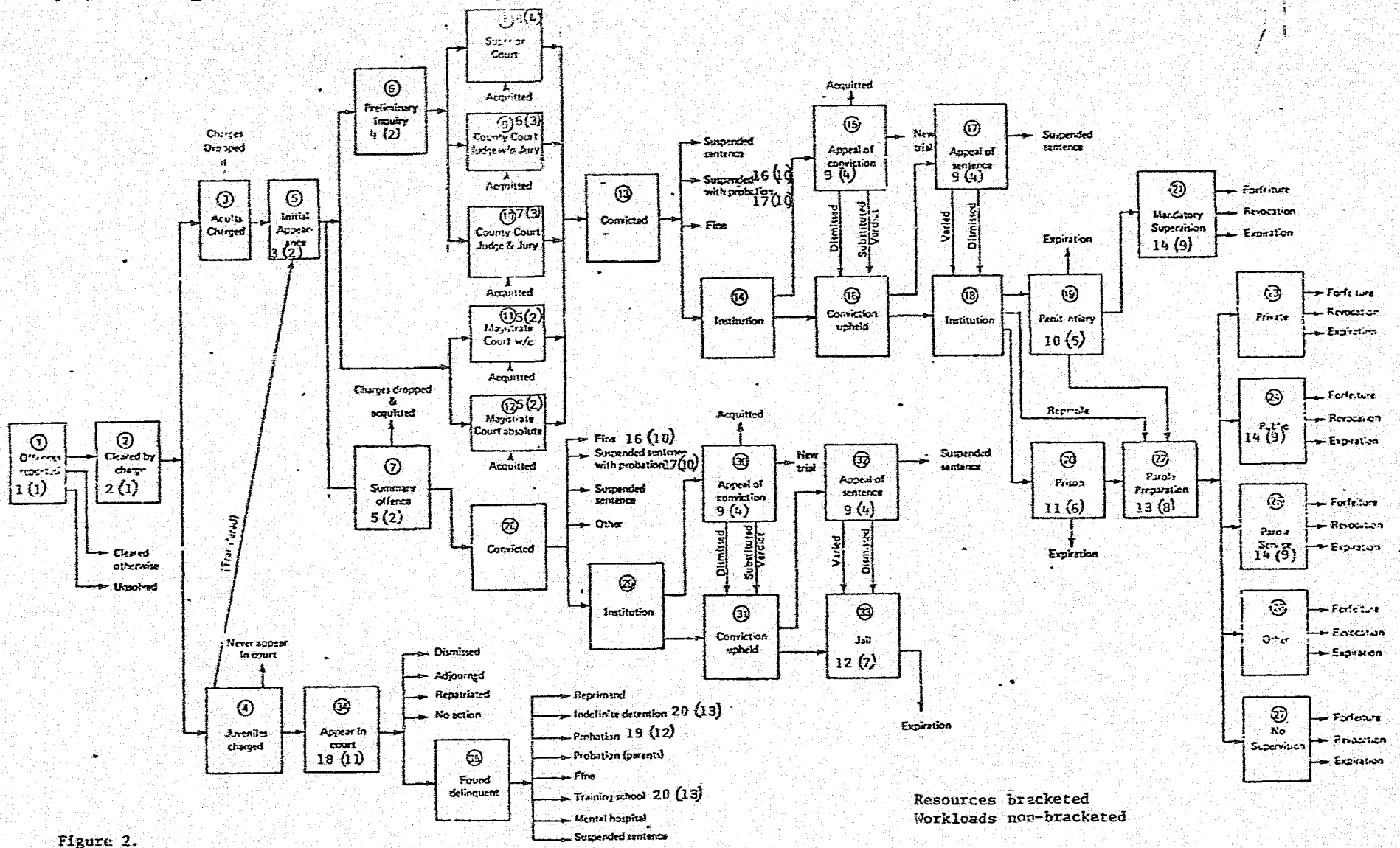
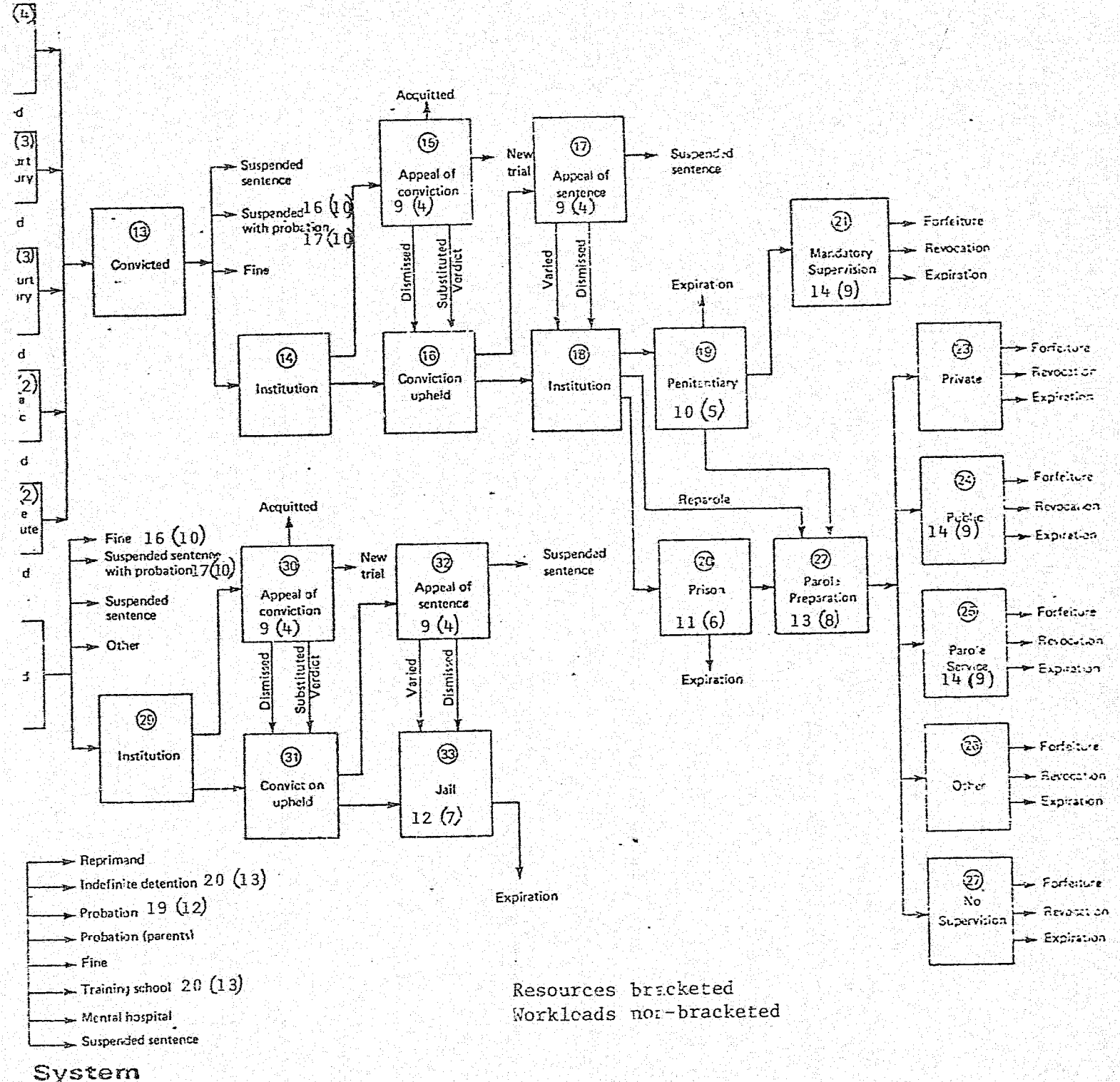


Figure 2.
Flow diagram: Canadian Criminal Justice System



Canadian Criminal Justice System flow model (CANJUS).

It should be noted that the unit workload varies with the particular crime type -- for example, the sentence period for a serious offence such as murder may exceed that for a less serious offence such as auto theft.

Now that the unit workload has been defined in a general manner, it remains to define more specifically each of the nineteen unit workloads as it is applied to the system, beginning at the top of the list in Table 1.

1. Police Report per man hour

This workload is applied to stage 1 in the flow model. The Police Report workload is defined as the time between a Police officer receiving a call or complaint and the time when the suspect has been apprehended. This processing time takes into account investigation of the crime. It is easy to see that the Police Report workload for the "murder" crime type could be quite high. On the other hand, in instances where the police find an offender in the act of committing the crime, the workload might be quite close to zero, depending on the circumstances. The resource associated with this workload is Police.

2. Police Arrest per man hour.

The Police Arrest workload is defined as the processing time from the moment the suspect is apprehended until the time a formal charge has been laid. For example, the Police Arrest workload for a traffic offence such as speeding would be the time it takes the officer to write out the ticket. In instances where a summons is issued the workload would be zero. The Police Arrest workload is applied to stage 2 in the system. The resource associated with the Police Arrest workload is, Police.

3. Magistrate Court: Initial Appearance per day.

This workload is applied to stage 5 in the flow system. The Magistrate Court: Initial Appearance workload is defined as the average time it takes to process one individual through the initial court appearance. This process time only takes into account the period in which the case is being heard in the court room. For traffic offences where there are no initial appearances, the workload would be zero. The resource associated with this workload is Magistrate Court (resource 2).

4. Magistrate Court: Preliminary Inquiry per day.

The workloads applied to stage 6 are associated with the preliminary inquiry proceedings. Thus, the workload Magistrate Court: Preliminary Inquiry per day (workload 4) is applied to this stage. This workload is defined as the time that the magistrate court is in process presiding over the preliminary inquiry. The associated resource is Magistrate Court (resource 3).

5. Magistrate Court: Trial per day.

This workload is defined as the average time it takes to process one person. Again, the only time that is taken into consideration here is that time in the court setting. This workload includes three different types of trials: magistrate absolute; magistrate with consent and the summary conviction court magistrate trial. All persons who have been accused of an indictable offence as specified under Criminal Code Section 483 go through this type of trial. In the second type of trial, the accused has been charged with an indictable offence and, having an election of trial, he has entered the magistrate court by his election or consent. The third type of trial

covers persons who have been charged on a summary offence, or an offence in which the prosecution can elect to prosecute by summary conviction court or indictable court, and has chosen the summary mode of trial. With these different types of magistrate trial this Magistrate Court: Trial workload is applied to stages 7, 11, and 12. The resource associated with this workload is the Magistrate Court (resource 2).

6. Judge: Bench Trial per day.

This workload pertains to trials that go through the County Court and are heard by a Judge without a Jury. The court workload is defined as the time in which the court is in session. This workload, with the associated resource, County Court, is applied to stage 9 of the system.

7.. Judge: Jury Trial per day.

For stage 10, the workload, County Court: Jury Trial per day is applied. Again, the definition for the court workload is the time in which the court is in session. The resource associated to the County Court: Trial (workload 7) is the County Court (resource 3).

8. Superior Court: Trial per day.

The workload for stage 8, Superior Court, is Superior Court: Trial per day (workload 8). The Superior Court: Trial workload is defined as the time spent on the case for court proceedings. Therefore, it is only the time in which the judge presides over the trial. The resource associated with this workload is the Superior Court (resource 4).

9. Superior Court: Appeal per day.

This workload is defined as the time that the Superior Court is in session. The Superior Courts here include all the provincial Supreme Courts plus the Supreme Court of Canada. This workload is applied to stages 15, 17, 30 and 32 in the model. The resource associated with this workload is Superior Court (resource 4).

10. Penitentiary per year.

The Penitentiary workload is defined as the average length of a sentence served, that is, from the time an individual enters the penitentiary until the time he is released by one of the following methods: expiration of sentence, mandatory supervision or parole supervision.

For example, if an individual obtained release under mandatory supervision after serving three and one half years, the workload would be 3.5. This workload is applied to stage 19 of the system and the resource associated with it is Penitentiary (resource 5).

11. Prison per year.

The Prison workload is defined as the average length of time each inmate remains in the prison. For example, if the person convicted of assault offences has an average prison term of 18 months, the Prison workload would be 1.5 years. The resource associated with Prison workload (11) per year is the Prison (resource 6). The Prison workload is applied to stage 20.

12. Jail per year.

The Jail workload is defined as the average length of time served per inmate in a provincial jail. In the present model, persons sentenced upon summary conviction to an institution are sent to jail (stage 33). A jail is generally defined as an institution holding people for a relatively short period of time, and although persons other than those convicted of a summary offence may appear

in jail, this is the only breakdown of flow data currently available. The resource associated with Jail workload (12) is Jail (7).

13. Parole Preparation per case.

The Parole Preparation workload is defined as the time taken by one parole officer to prepare the written documentation on a case. There is a great deal of preparation time involved in cases where the person never successfully attains parole, but in the present model, this time has been factored into the successful cases. Since we have specified that each parole officer can prepare 35 cases per year, (see 14 below), the workload for these persons flowing through the National Parole Board Preparation stage becomes 35 cases per year. The workload Parole Preparation case is applied to stage 22 and the associated resource is Parole Preparation (8).

14. Parole Supervision per case.

The Parole Supervision workload is defined as the average length of parole supervision per year for each case. For example, if a person comes out of prison on six months parole, the Parole workload would be .5 years.

This workload is applied at two stages in the model -- Public Parole (stage 24) and Parole Service (stage 25). The resource associated with Parole Supervision is Parole (9).

15. Mandatory Supervision per case.

The Mandatory Supervision workload is defined as the average length of time that each person is under the supervision of a parole officer while on mandatory supervision. (The Parole Act specifies that these persons are to be supervised by parole officers.) If a person comes out of a penitentiary on mandatory supervision for a period of 30 months, the workload in this case would be 2.5 years. The workload Mandatory Supervision is applied to stage 21 of the model and the associated resource is a Parole Officer (9).

16. Probation Preparation per case.

Probation Preparation is defined as the average time spent by a probation officer in preparing a pre-sentence report. Pre-sentence reports are only necessary when the judge or magistrate is considering putting a convicted individual on probation. In the

present model, the workload is applied to the exit flow path "suspended sentence with probation", and we have assumed that only those persons whose disposition of sentence is probation have a pre-sentence report and thus require Probation Preparation. The resource associated with Probation Preparation per case (16) is Probation Preparation (10).

17. Probation Supervision per case.

The Probation Supervision workload is defined as the average length of time that a probation officer supervises a probation case. For example, if a person spent one and a half years on probation, the workload would be 1.5 years. The Probation Supervision workload is applied to the exit flow "suspended sentence with probation" at both the exits from stage 13 and that from stage 28. The resource associated with the workload Probation Supervision (17) is Probation (10).

18. Juvenile Court per day.

The workload Juvenile Court is defined as the time spent in court to hear the juvenile's case. The only time taken into consideration here is that expended when

the court is actually sitting. The workload Juvenile Court is applied to stage 34 and the resource associated with it is Juvenile Court (11).

19. Juvenile Probation per case.

The workload Juvenile Probation is applied to the exit flow path "Probation" out of stage 35. It is defined as the average length of supervision required per case by a juvenile probation officer. If a juvenile is found delinquent and placed on probation for 18 months, the Juvenile Probation workload would be 1.5. The resource associated with the workload Juvenile Probation per case (19) is Juvenile Probation (12).

20. Juvenile Training School per year.

Again, the workload is not applied to a particular stage but to an exit flow path from a stage. In this case, the workload "Juvenile Training School" is applied to two exit flow paths "Detention" and "Training School" out of stage 35. The workload Juvenile Training School is defined as the term that a juvenile spends in a juvenile correctional institution. The resource associated with the Juvenile Training School workload (20) is Juvenile Training School (13).

These then are the basic definitions of workloads as they are used in the present CANJUS model (December, 1973).

III. WORKLOADS

As can be seen from the above definitions, the workloads that we have specified do not necessarily cover all the time that is spent by each resource. For example, in a study of the Los Angeles Police Department (see (8)), it was estimated that only 5 to 10% of the total police time was spent on investigating criminal activities. Therefore, when we apply these workloads to the Canadian Criminal Justice System we must be aware that they may represent only a portion of the resources' total application of time.

Although we can fairly specifically define workloads in the Canadian criminal justice system, it seems to be quite another matter to retrieve data on these workloads. The reason for this is that the different agencies involved do not appear to be collecting this type of management information. As a result, we know of very little published information, available from the agencies involved, that is readily formatted for input to the CANJUS model. Therefore, in order to obtain this workload information, further research and data collecting will be required. This may involve direct contact with

provinces and line agencies, or special samples. In the following sections we discuss the information that is presently available, the information that may be available and how we plan to retrieve it, and finally, some of the isolated problems which have been encountered. This description is presented by subsystem.

Police:

The R.C.M.P. and the Ontario Provincial Police do collect data on time spent by policemen on various activities. Unfortunately, their classification of activities does not include a breakdown by the crime types we would prefer. For example, the data collection form includes categories for "criminal code personal offences", and "criminal code property offences", but there is no inclusion for individual crimes such as "murder" or "auto theft". There may indeed exist more detailed information within these police departments, but this, of course, will require further direct contact with them.

It should be noted that these two police agencies do collect data on police time spent in activities other than crime investigation. This might

prove useful should we wish, at some future date, to provide some more complete coverage of police time within the model structure.

Courts:

No workload data is as yet available for the court subsystem. There are three courses open to us for retrieving it, all of which will probably be followed. First, a direct sample of Ottawa courts (superior, county and magistrate) will be undertaken to obtain preliminary information. This information must serve for all Canadian data until such time as the other two methods under contemplation produce better data. Second, contact could be made with persons doing independent research to determine whether some court workload data has been collected. Studies such as Hann's in Toronto (see reference (9)) may have gathered useful information and it may be useful. Third, contact with provincial Attorneys-General may provide some "in-house" data. It is hoped that this will prove true in the case of Ontario.

Corrections:

Federal penitentiary and National Parole Board parole supervision workloads for male offenders appear in Tables II and III. Since the National Parole Board handles all provincial cases except some of those in Ontario and British Columbia, the federal parole workloads also serve for provincial workloads in other provinces. A problem with the information presented in Tables II and III, however, is that after the fifth year, it is aggregated in five-year time intervals. This means, for instance, that if a murderer is reported released after "5-10 years", we have implicitly assumed that he has actually served 7.5 years. For crime types where there are few offenders per year, this reporting system will probably make the data less reliable.

Statistics Canada is able to provide a monthly breakdown of penitentiary sentence lengths and time on parole by crime type.

Prospects for obtaining provincial correctional workload data appear less hopeful. Further direct contact with the provinces will be required to retrieve data on prisons and length of terms served as well as

probation supervision periods, for all provinces, and
parole supervision periods for Ontario and British
Columbia.

TABLE II - PENITENTIARY WORKLOADS
MEAN TIME SERVED IN YEARS, 1970 & 1971 COMBINED


<u>OFFENCE</u>	<u>EXPIRATION</u>	<u>PAROLE</u>
Murder	-	10.51
Attempted Murder	5.07	4.97
Manslaughter	4.39	2.50
Rape	3.69	1.79
Other Sexual Offences	2.53	1.44
Wounding	2.42	1.98
Assaults	2.07	1.03
Robbery	3.02	1.93
Breaking & Entering	2.13	1.21
Theft	1.77	1.06
Have Stolen Goods	1.88	1.27
Frauds	1.92	1.07
Prostitution & Procuring	1.99	1.83
Offensive Weapons	2.23	1.08
Other Criminal Code	2.13	1.77
Narcotic Control Act	2.33	1.42
Other Federal Statutes	1.83	1.50

TABLE III
MEAN TIME SERVED ON PAROLE (IN YEARS)

<u>OFFENCE</u>	<u>1970</u>	<u>1971</u>	<u>1972</u>
Murder	2.62	2.16	4.21
Attempted Murder	2.45	2.14	3.71
Manslaughter	2.30	2.42	3.16
Rape	1.18	1.78	1.65
Other Sexual Offences	0.90	1.19	1.19
Wounding	1.38	0.98	1.45
Assaults (not indecent)	0.51	0.64	0.96
Robbery	1.24	1.36	0.84
Breaking & Entering	0.80	0.80	0.84
Theft	0.61	0.68	0.84
Have Stolen Goods	0.67	0.59	0.82
Frauds	0.70	0.83	1.01
Prostitution & Procuring	0.43	1.38	1.20
Offensive Weapons	1.61	0.66	1.21
Other Criminal Code	0.77	0.84	0.98
Narcotic Control Act	1.03	0.91	0.94
Other Federal Statutes	0.56	0.52	0.73

REFERENCES

- (1) Belkin, J., Blumstein, A., and Glass, W., "An Interactive Computer Program for Analysis of Criminal Justice Systems", Carnegie-Mellon University, Pennsylvania, July, 1971.
- (2) Belkin, J., Bunner, R., and Cassidy, R. Gordon, "Programming Approach to the Criminal Justice System", Ottawa, December, 1972.
- (3) Blumstein, Alfred, "Criminal Justice Systems - Planning Methodology and Cross National Comparisons", Carnegie-Mellon University, Pennsylvania, 1971.
- (4) Cassidy, R. Gordon, "Preliminary Analysis of the Canadian Criminal Justice System", Ministry of State for Urban Affairs, Ottawa.
- (5) Cassidy, R.G., Hopkinson, R.G., and Laycock, W., "A Preliminary Description of the Canadian Criminal Justice System", mimeographed, Ministry of State for Urban Affairs and Ministry of the Solicitor General, Ottawa, October, 1973.
- (6) Cassidy, R. Gordon, Hopkinson, R. George, and Laycock, William, "Information Systems Report on the Canadian Criminal Justice System: Problems and Recommendations", Ministry of State for Urban Affairs, Canada, June, 1973.
- (7) Cohen, Jacqueline, Lettre, Michael, and Stafford, Richard, "Analysis of the Allegheny County Criminal Justice System Present Operations and Alternative Programs", Carnegie-Mellon University, Pennsylvania, February, 1972.
- (8) Fields, Kenneth, Lettre, Michael A., and Stafford, Richard, "A Description of the Allegheny County Criminal Justice System", Carnegie-Mellon University, Pennsylvania, February, 1972.

- 
- (9) Hann, Robert G., "Decision Making in the Canadian Criminal Court System: A Systems Analysis", Volumes I and II, Center of Criminology, University of Toronto, 1973.
 - (10) Johnson, B., and Peach, L., "Information Systems Report on costs of the Canadian Criminal Justice System", CANJUS Report, Ministry of the Solicitor General and Treasury Board Secretariat, December, 1973.
 - (11) Statistics Canada Report No. 85-207, 1970, "Correctional Institutions Statistics".

LIST OF REPORTS

STATISTICS DIVISION

Working Papers

TITLE

CANJUS PROJECT

REPORTS

1/73

Organization of the
Statistics Division
Volume I

2/73

A Preliminary Description
of the Canadian Criminal
Justice System
Volume I

3/73

Organization of
Quantitative Approaches
to the Canadian Criminal

4/73

A Preliminary Description
of the Canadian Criminal
Justice System
Volume II

#1

5/73

Use of the CANJUS Model
for Planning and
Evaluation in the
Canadian Criminal
Justice System

#2

6/73

Data Incompatibilities
for Penitentiary
Admissions and Parole
Violations

#3

7/73

Information Systems Report
on Canadian Criminal
Justice System Costs:
Problems and
Recommendations

#4

STATISTICS DIVISION

Working Papers

TITLE

CANJUS PROJECT

REPORTS

8/73

Prediction of
Penitentiary
Population
Volume I

#5

9/73

Information Systems
Report on Workloads in
the Canadian Criminal
Justice System:
Problems, Recommendations
and Directions for
Future Development

#6

10/73

The CANJUS Input Identity
System

#7

11/73

Parole Expenditures and
Workloads in Canada

#8

END

1000 1000