A COMPUTER FORECASTING MODEL FOR PREDICTING REQUIREMENTS FOR BEDS IN SECURE CUSTODY JUVENILE CORRECTIONS INSTITUTIONS

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1. INTRODUCTION

1.1 Background

In recent times researchers have become increasingly concerned about the need for forward planning to ensure that services are appropriately designed and targeted to meet existing and future needs of client populations. One of the areas of concern of those responsible for juvenile corrections has been that of the need to forecast the future requirements for secure custody accommodation for detainees.

This is a report on the development of a computer model for the forecasting of future needs for secure custody beds for detainees and on the construction of one such model to assist the management of the Queensland Dept of Family Services in the planning of secure custody accommodation to the year 2000.

The Juvenile Institution Forecasting (JIF) model is the main subject of discussion in this report. The JIF model has been developed from a forecasting program designed for adult prisons populations (Walker, 1984). A Fortran program listing of the model developed is included in Appendix 1. Appendix 2, defines the key variables and data matrices used in the program while Appendix 3 provides tabular examples of input data.

In the development of the model, priority was directed towards the task of forecasting the numbers of children who are likely to be held in secure custody at the end of each quarter to the end of the year 2000 given anticipated changes in the population and a number of possible policy developments and their expected effects on the numbers of children under detention.

To illustrate the way in which the model can be used, an example computer run using the model with artificially generated data has been included (see Appendix 4). The description of the model in the report together with the illustration of how the model works, should provide sufficient information to allow those responsible for the administration of juvenile corrections elsewhere, to implement the model, should they choose to do so.

The computer model, once developed and implemented, provides a facility to carry out juvenile detainee number forecasts using any new scenarios which may develop as a result of new legislation, policy or practices, and provides administrators with an upto-date forecast of the need for secure custody beds. The data incorporated into the model can be easily updated at any time so that emerging trends, new events and new policy initiatives can be included. This feature ensures that the model will remain up-to-date for many years to come.

APPENDIX 6

2.THE DEVELOPMENT OF FORECASTING MODELS

2.1 The Need for Forecasting Models

The art of forecasting has evolved to fulfil a widespread need in administration. The costs and lead times of many public and private projects are great, and failure to complete a project on time can be immensely expensive or lead to a breakdown in services.

The provision of custodial facilities is, to some extent, a special case where the need for advanced planning is particularly evident: - first, because when existing facilities become overcrowded it is extremely difficult to find suitable alternative accommodation, and second, because building juvenile institutions does not win elections, and governments therefore tend to put off the evil day as long as possible. Administrators, faced with the fact that, even after the decision has been taken, it may be many months of planning and many further months of construction before additional capacity is achieved, must therefore have convincing proof of future need well in advance.

2.2 Classes of Prisoner Forecasting Models

In a stable situation, a graph on the wall is probably quite adequate, and the planner can simply project, by eye, the apparent trend and read off how long it will be before additional capacity is required. Working backwards from this, with some idea of the likely planning and construction time, one can set the bureaucratic wheels in motion to achieve the desired result. However, more often than not, the circumstances are not as straightforward as this. Populations age, or migrate, or decide to have more, or fewer, babies than their predecessors. Social conditions change, for the better or for the worse, sometimes making it easier for 'marginal' families to survive, and sometimes making it harder. The policies of governments change, sometimes leaning towards more institutionalisation of juveniles and sometimes towards less. It is not always so simple as a line on a graph suggests.

The estimation of future demand for juvenile institutional accommodation presents similar problems to that of adult prisoner numbers. A number of state departments in Australia and the United States (*See* New York, 1980; Brown, 1974) have constructed data-bases or forecasting models based on projections of the number of juveniles and likely future rates of institutionalisation. Generally, they follow the considerable advances which have been made in the adult sector, aided by the advent of computers and relatively standardised and comprehensive data on prisoner characteristics. Blumstein, in one of his many writings on prisoner forecasting, (Blumstein, 1983) identified six general classes of forecasting models for detainee populations :-

1. Naive projection (i.e. assuming no substantive change from the current situation).

2. Time series extrapolation (with simple linear, or more complex functions of time, but without any theory-based 'explanatory' variables to drive the model).

3. Multivariate regression (using forecasts of supposedly related variables such as agegroups, unemployment rates and average detention durations).

4. Demographic-specific detention rates (in which some primary methodology, such as 1 to 3 above, is used to forecast likely detainee numbers in each distinct age/sex/race category, which are then aggregated to give the overall forecast).

5. Disaggregated flow models (in which some primary methodology is used to forecast likely flows of different categories of detainee, such as by offence-type or reason for detention. The differences between receptions and releases are then analysed to give the overall forecast).

6. Microsimulation models (in which a primary model, constructed according to models 1 to 5, is augmented by recent statistics showing the confidence limits which may be placed on the various rates assumed within the model, providing the user with probability figures on the forecasts).

Each of these types of models has its advantages and disadvantages. The naive projection becomes a useful baseline against which other forecasts might be checked, and it clearly requires a minimum of computational effort. Each additional increment of complexity, either in terms of extra data incorporated into the model or extra relationships assumed between variables, increases the apparent authenticity of the model at the expense of greater demands on data. Thus, Flanaghan's model (Figure 1a) was commendably simple in operation, but not as powerful as, for example, Blumstein's model of the early 1980s (Figure 1b).

Models based on demographic projections and multivariate analysis of supposedly causative variables will produce reliable projections, if all the assumptions, both explicit and implicit, hold good. Unfortunately, however, when the phenomenon being modelled is dependent upon the decision- making processes of a complex society, this is rarely the case. The processes involved in institutionalising juveniles are subject to changes in political ideology and bureaucratic practicalities, and, in turn, on the prevailing social mores regarding such vaguely-defined societal structures as 'the family'. Walker's model (Figure 1c) was an attempt to incorporate these processes explicitly.

Forecasting models based solely on sound demographic relationships can be extremely useful, particularly in the short term. But unless they also incorporate some mechanism to simulate the effects of sudden and dramatic changes of direction in the relationships assumed in the model, they are likely to be of little value for policy-making purposes. This is no less the case with respect to juvenile institutions, where there is a clear demographic component in the 'demand' for places, than it is for adult prisons where the importance of demography is less apparent.

2.3 The Importance of the Facility to Model Policy Changes

The importance of including an ability to model policy and exogenous changes - as consciously-imposed 'distortions' of a demography-based forecasting model is well demonstrated by the trends in Australian adult prison populations over the past 40 years. On its own, demography suggests that the proportion of the population which is male, aged between 19 and 29, should be a highly reliable indicator of rates of imprisonment since this age/sex group has consistently dominated prison populations over this period. Using this principle, as the short-dashed line of Figure 2 suggests, one would have expected a rapid decline in the rates of imprisonment from 1950 to 1960, followed by a reversal, a peak at around 1970, and remaining high into the 1980s. Actual experience (see the continuous line in Figure 2) shows a trend almost exactly the reverse: - rates rising erratically through the 1950s and 1960s, plummetting in the early 1970s and then recovering, prior to a further fall which was only reversed in the late 1980s.

Analysis of the political changes which occurred during this period is much more rewarding than demographic analysis in this case, and Figure 4 also shows a simple index of electoral popularity which perhaps owes something to the psephologists' "swingometer". The direction of trends in the electoral index, and in particular the timing of trend reversals (1951, 1955, 1968, 1974 and 1978), certainly have at least an air of similarity with those of the imprisonment rates. The demographic model alone would have entirely failed, while the psephologist would have at least been able to recognise the early warning signs of change.

Law and order is not the only preoccupation of political parties, so to draw conclusions of direct causality is to draw a long bow indeed, but the mechanism by which demography and politics may intertwine was examined in "SCREW THREADS" (Walker, 1985). The SCREW THREADS model envisages a chain of logical and familiar reactions to demographically-induced changes in patterns of offending, ranging from the

CONCEPTUAL PROCESSES GENERATING PRISON POPULATIONS UNDER VARIOUS ASSUMPTIONS



Ch.

FIGURE 1

media's profit-inspired treatment of the phenomenon through the bureaucratic, judicial and political responses in which each group, conciously or unconciously, uses convenient facts, figures and events to suit its own organisational or sectional interests. If such a model is valid, then, to use a motoring analogy, demography provides only the driving force, while the clutch, gearbox, accelerator, brakes and steering are controlled by the various interest groups in the population.

2.4 Forecasting Juvenile Institution Requirements

Returning to the specific question of forecasting juvenile institutional requirements, the discussion above suggests that, while demographic projections will form the basis for the model, it must also adequately cope with changes in all of the following:

-the minimum/maximum age for juvenile institutionalisation,

-the reasons for which juveniles may be institutionalised,

-the availability of alternatives to institutions,

-the frequency with which juveniles are institutionalised in each possible set of circumstances,

-the duration for which juveniles are institutionalised,

-the reasons for which juveniles might be released from institutions.

The prisoner forecasting model originally developed for the Victorian Prisons Master Plan (see Neilson Associates, 1984) included mechanisms for modelling most of these types of changes. Modifications added for the analysis of prisoner numbers in Queensland enhanced its versatility and made it considerably easier to use. It was clearly in accordance with the accepted forms of demographic based forecasting models, and it could easily be adapted to the juvenile context. The model was written in simple Fortran and was sufficiently modest in storage requirements to be run on a micro-computer. It was therefore considered ideal for the purpose in hand.

Figure 3 shows the conceptual model adopted by the authors of this report. It is clearly similar to the prisons models of Figure 1, the juvenile system is intentionally more fluid. Once under the supervision of the juvenile justice system, an offender may spend periods in and out of secure custody according to factors such as the availability of alternative placements. This flexibility is not a characteristic of adult corrections. For the purposes of modelling trends, however, the simpler schema shown in Figure 4 was adopted, since, as subsequent discussion will show, the data available did not allow directly for the complexities of Figure 3. **FIGURE 2**

ADMINISTRATIVE VERSUS DEMOGRAPHIC DETERMINANTS OF IMPRISONMENT RATES



NOTE: The index of electoral popularity is calculated as the net score of the federal government (Canberra) and the three major states. The Federal government counts two, and State governments count one. A Coalition (Liberal-Country Party or equivalent grouping) counts positive, and the ALP counts negative. The value of the Index for 1952 is therefore $(+2 \cdot 1 + 1 - 1) = 1$ since the coalition held Canberra and Melbourne against the ALPs Sydney and Brisbane. The curve has been smoothed through the mid-points of periods of electoral stability.

JUVENILE CONCEPTUAL MODEL



FIGURE 3



FIGURE 4

3. THE JUVENILE INSTITUTION FORECASTING (JIF) MODEL DATA NEEDS

Theoretical issues in relation to data needs of computer models are covered in greater detail elsewhere (Blumstein 1980; Walker, 1984). Subsequent comments relate more specifically to the juvenile model and to practical considerations in relation to its implementation.

3.1 Sources of Data

The JIF Model requires disaggregated data input from a number of sources. These data may be either available from published statistics or can be derived from the juvenile justice system. Sources of the input data, for example, may include court statistical collections, census data from institutions, national census information and in particular national juvenile population projections. Where police have a formal system of cautioning juvenile offenders rather than prosecuting them, such statistics should be included in data input to the model.

The implementation of the JIF model is likely to highlight any weakness in juvenile justice statistical systems. Any discontinuity within the system or the lack of a satisfactory interface between related statistical collections will become immediately apparent when trying to compile input data for the JIF model. For example, one weakness may be that of a lack of a facility for tracking dispositions when cases are transferred from the juvenile court to a higher court.

3.1.1 Likely Difficulties in Assembling Data

One problem likely to be encountered is that differing categories are being used among the statistical collections from which the input data is to be compiled. For instance where the intervals used for "period of detention" differ from one data source to another, it may be necessary to use data smoothing techniques (refer Walker 1986) to produce sufficient compatibility between data sources to allow them to be combined.

In other cases where complete data are not available, good estimates will suffice. Such estimates can be made by sampling a portion of the data available and extrapolating this sample until it represents the size that the data set would be if none of the data were missing. It may be necessary to cross-check using several different methods to get a good estimate of the amount of missing data.

3.1.2 Level of Disaggregation of Input Data

One of the problems likely to be faced by forecasters in using the JIF model is that of determining an appropriate level of disaggregation of input data.

For example, court statistics may be classified into a number of offence categories too many to be conveniently used in the JIF model. Such statistical collections which have data items broken down into a large number of categories will need to be pre-processed and redefined in terms of a manageable number of broader categories. In the determination of the offender categories chosen for use in the JIF model, a number of factors need to be considered. These include the seriousness of the offence, and differences in the way the courts and others responsible for juvenile corrections deal with various detailed types of offence.

It is clear that any classification of offences chosen for the model will be most meaningful if the groups of offences fall into natural clusters in a notional sense (e.g. crimes against property should not be grouped with crimes against persons, nor should serious offences be grouped with minor offences). The chosen classification needs to provide sufficient discrimination between different offence types without having the number of categories so large as to make it difficult for the program to handle them. The number of categories is best kept to 25 or less.

3.1.3 Possible Problems in Discriminating between Detention and Remand in Custody Data

It is also likely that difficulty will be experienced in discriminating between remand in custody and detention. This is likely to be especially so in cases where several successive remand in custody periods are served prior to detention. In such cases, the time already served on remand is likely to be taken into consideration when the period in detention is determined by the court or the custodial authority. This tends to blur any distinction between remand in custody and detention thus reducing the meaningfulness of trying to differentiate. Probably the most practical way of dealing with this difficulty is to treat successive remand and detention periods as one episode of a length equal to the sum of the successive periods for which the offender has been detained, irrespective of whether these periods were remand in custody and detention. Where it is neccessary to differentiate between remand in custody and detention, the remand accommodation needs could be determined by a separate survey or by apportioning remand needs as a certain percentage of total detention needs.

3.2 The JIF Model Requires Quarterly Juvenile Population Estimates

As previously stated, the JIF model has been developed from a forecasting program designed for adult prisons populations. The program works by periodically calculating the number of detainees present in light of the population forecasts, and other data provided. The original version of the program used for forecasting adult prisoner numbers had an annual cycle period. Due to juveniles having a shorter average length of detention than adults, the JIF model has been designed to have a quarterly rather than an annual cycle period.

As previously mentioned in Para 3.1, future population estimates are required by the model as part of the source data. These are available from national statistical sources as annual population projections.

In keeping with the JIF model's quarterly cycling, it is necessary to interpolate these annual population projections to produce corresponding quarterly population estimates before they can be used in the model. This interpolation can be done quickly by using a simple computer program.

3.2.1 Need for Trend Information

A vital part of the data input requirements are the scenarios generated by officers experienced in the workings of the juvenile justice system and their estimation of the likely effects of policy, practice or legislative changes on numbers and length of stay of detainees.

Without the inclusion of scenario information the model does little more than provide estimates of future detainee numbers based on future population projections.

The issues related to the inputting of trend information and scenario development are discussed in detail in Section 4 of the report.

3.3 Verification of the Operation of the Model

Verification that the model is operating in a way which accurately represents the operation of the criminal justice system is a necessary part of the JIF model development.

This is probably done best by providing a starting base for the JIF model so that 2 or 3 years historical data are available to verify the correct operation of the model. If the model can accurately forecast the present day secure custody detainee numbers from an historical baseline data input, then some confidence can be placed in its forecasting capabilities in relation to the future numbers of detainees.

During the testing process it is possible to calibrate the model so that its accuracy in forecasting present day detainee numbers is within acceptable limits.

Any problems in relation to accuracy are likely to come from two main sources. The first problem source is likely to be some error in data input parameters which are the basis of the calculations. Careful rechecking of the conviction rate matrix or the disposition matrix with the statistical collections data from which they were derived should reveal any inaccuracies.

Secondly, careful analysis of the trends existing during the period from the baseline to the present day, may reveal that certain policy, legislative or conviction rate trends were operating during this historical period. If this is so, in order for the model to verify historical data correctly, the model will need to have these historical trends included in scenarios covering the historical period.

Apart from errors in data input due to data entry errors, no problems are likely to be encountered other than those normally encountered routinely in computer programming tasks. Such problems commonly arise during the writing and compiling of computer software and are dealt with using normal debugging procedures by the computer programmer during the implementation of the computer program.

4. CONSIDERATIONS IN THE DEVELOPMENT OF TREND SCENARIOS

4.1 Method of Scenario Development

An important part of the process is that of generating trends and hypotheses for testing. These trends then need to be quantified and applied to the model.

Here is where persons with considerable knowledge and experience of the juvenile justice system must have a vital input to the process. Perhaps new legislation may be contemplated or pending. Maybe changes in practices or procedures in relation to offenders are being contemplated by the courts, the police, or by the welfare or corrections department or its detention centres. It would be useful to know the likely effects of all such postulated changes in secure custody bed numbers over time. The JIF model provides the facility to model such changes and estimate their cumulative effect.

Trends for input to the model can be divided into four broad categories:

(a) Policies, practices and legislation of the department directly responsible for secure custody detention.

(b) Factors outside the control of the department directly responsible for secure custody detention (e.g. police and court policies and practices).

(c) Changes in offending or sentencing patterns.

(d) Population trends due to changing birthrate and internal and external migration.

National statistical sources usually supply several different estimates of future population, related to the various possible guesses of future changing birthrate and migration patterns. Up to three such forecasts of population trend data can be retained by the JIF program as separate matrices. The scenarios merely have to identify which population trend is to be selected for the current modelling run.

However, trends due to changes in legislation, policy and practice by police, courts and the department responsible for custody of juvenile offenders do need to be accounted for in the input scenarios.

This information may be gathered by way of structured interviews with specialists who have experience with various aspects of the juvenile justice system.

The Trend Report Form shown in Appendix 6 has been found to be useful for recording and analysing this information.

From such information, it is possible to quantify the extent of the suggested trend and to apply it to the age group and offence categories for which it is appropriate.

In the development of scenarios, it may not be always possible to incorporate the trends in exactly the format proposed. This is mainly due to the fact that the JIF model needs to incorporate trends as percentages of certain age, offence or detention categories. However, by careful use of information provided a very good approximation of the magnitude and the specificity of the trend can be simulated for inclusion in scenarios. For example the trend postulated may be "that there will be better high school curricula targeted on low achievers which will keep them off the streets and therefore reduce the rate of court appearances by 50 within one year of the new curricula being implemented". Since percentages are required, it is necessary to convert the number given (50) to a percentage of total appearances of the relevant age group over that distribution of offences that court statistics indicate are applicable to the target age group and to input this trend over four quarterly periods following the curricula implementation date.

As illustrated by the example above, irrespective of the format in which the trend is postulated, with a little care, it is possible to closely target the Offender and Age and Sex categories that are subject to the hypothesised trend and to keep the magnitude of the change in the model similar to that of the trend as originally proposed by the specialist providing trend information.

4.1.1 Trends for Inclusion in Scenarios

Trends which may be incorporated in scenarios include:

(a) Changes in certain offender group conviction rates, i.e.convictions for offences which can be shown to be varying other than in sympathy with numbers in the target population.

(b) Policies which are implemented or are due for implementation and which are likely to affect numbers in detention or their length of stay.

(c) Increases or decreases of police numbers relative to the numbers in the target population.

(d) Pending legislation which is likely to affect the number of convictions or the length of stay of detainees.

(e) Policy changes relating to parole, early release or remission.

(f) Policy changes relating to diversionary programs such as community service orders or other community placement alternatives.

(g) Local or regional policy, practice or procedure factors which are likely to have an effect on numbers detained or their length of stay (e.g. reluctance or otherwise of magistrates in country regions to sentence local offenders to detention in a remote detention centre when no local detention facilities exist).

(h) Changes in requirements by courts for pre-sentence reports causing longer periods in custody on remand.

(i) Changes in policy regarding determinate sentencing.

4.1.2 The Amalgamation of Trends to form Scenarios

Clearly, it is possible to run the JIF computer program applying trends one at a time. However in practical situations, there may be a considerable number of suggested trends generated, and hence it becomes impractical to input them singly. The influences affecting detainee numbers interact and operate concurrently. It is therefore appropriate to speculate on various combinations of trends.

It follows that it is advisable for researchers involved in the forecasting of secure custody numbers, to allocate trends to three or four trend sub-groups, each sub-group representing one scenario.

Some rational basis for the allocation of trends needs to be chosen. One basis could be that of the allocation of all trends which are going to produce an adverse effect on bed requirements to one scenario, while all those causing a reduction in demand could be allocated to another scenario. The result of such allocation would be to provide forecasts of the "worst possible" and the "best possible" situations.

On the other hand, since it is can be argued that neither the "worst possible" nor "best possible" situations are likely to apply in practice, other groupings of trends need to be considered. In the real life situation it is clear that some trends will show a need for an increase in beds while other trends will indicate a decline in bed numbers. A scenario incorporating all "very likely" trends would provide a somewhat more realistic forecast than either the "worst possible" or "best possible" scenario forecast.

Another strategy is to inspect all the trends provided by the specialists and to put them into intuitively coherent groups and in so doing, form a number of alternative scenarios.

In all, 3 to 5 scenarios should provide a broad enough range of forecast options initially. After study of these forecasts, other scenarios may well emerge which warrant testing.

4.1.3 Time Frame for Input of Trends

When specialists on the juvenile justice system suggest likely trends for inclusion in scenarios it is necessary to obtain full information, not only as to the magnitude of the trend, but also how the trend is expected to vary over time.

It will be recalled that the JIF model cycles quarterly. It follows that trends may be input at quarterly intervals. It is also clear that a trend which is hypothesised as following a growth in magnitude over a period of say three years and then reaching an equilibrium, needs to be included in the scenarios in a way that reflects this "tapering in" of the growth effect. Since the JIF model works so as to maintain a trend input at any one time (i.e. during any one quarterly cycle) at the new level following the input of that trend, an increase of, say, three percent in the offending rate would be reflected in the output as a related increase in bed numbers. The resulting new bed number level would be maintained constant thereafter provided there are no subsequent trends input or projected changes in population. While the JIF model maintains such a trend-produced-change in forecast bed numbers over time, it does not extrapolate such changes into the future. It follows that when hypothesised trends are required to show either a continued increase or decrease over time, such continued effects need to be represented by a sequence of quarterly trends in the scenario.

For instance, in the case referred to above where a trend is hypothesised to "taper in" over three years the overall trend magnitude may be broken down to a series of 12 smaller quarterly trends.

For example, if it is hypothesised that over a period of three years there will be a gradual increase in offending by break, entering and stealing amounting to a 24 percent increase, such a hypothesised trend could be modelled by including a quarterly increase of 1.81 percent for each of 12 successive quarters thus representing a linear increase during the "tapering in" period. It is worth noting that 1.81 percent rather than 2 percent represents the "compound interest" effect of the successive inclusion of trends over time. It is also clear that a "tapering in" effect which follows any non-linear pattern could just as easily be modelled by inputting a series of quarterly trends of the required magnitude.

Since the JIF model maintains bed numbers forecast at the new level following the input of a trend, it is clear that in order to represent a trend of a transitory nature which will reverse after a short time, it is also necessary to enter into the scenario a second trend of reverse direction to model the trend's reversal.

4.1.4 Seasonal Fluctuations of Detainees

The issue of seasonal fluctuations can be adequately addressed within the JIF Model. To estimate the effect of any seasonal fluctuation it may suffice to plot seasonal patterns in court statistics or in institution numbers over a number of years. If the annual pattern appears to remain constant over a number of years such a pattern may be used to modify quarterly forecasts via scenario inputs. If however some on-going trend is detected or hypothesised, this may also be applied as a trend within a scenario.

5. QUEENSLAND VERSION OF JUVENILE INSTITUTION FORECASTING MODEL

In order to illustrate the operation of the JIF model this chapter describes the Queensland experience relating to the model's development. A general description of the version of the model is given. This is supplemented by tables comprising the input data matrices, a sample of the computer output produced using artificially generated test data and a listing of the Fortran source code used in the compilation of the computer model.

5.1 General Comments on the Data and on the Model Design Used in the Queensland Study

5.1.1 Data Inputs Used

The JIF model uses the following data inputs:-

(a) data based on the 30th June "stock on hand" numbers of detainees in secure custody, by time remaining to serve (see example "stock on hand" data, line 4 input file JSCENEJ Appendix 4 on page 52. The left hand value is the number of detainees on hand with less than 3 months to serve, the next value is the number with three months but less than six months to serve, and so on),

(b) historical through-put statistical information related to the Juvenile Justice System, including information on conviction rates by age and sex, police cautions and court dispositions (see Appendix 3, file QJCRATE in Table 3 and file QJDISPP in Table 4, which contain example data - pages 48 and 49),

(c) Australian Bureau of Statistics Queensland quarterly population projections for 5-17 year olds by age and sex to the year 2000 (see file QJPOPA, Appendix 3 Table 2 on page 47) and

(d) Trend data provided by Departmental officers familiar with the juvenile justice system (see file JSCENEJ, Appendix 4, page 52). The scenarios generated in consultation with senior departmental officers provided vital input data to the model. Without these judgements by experienced officers regarding trends and factors likely to affect future needs for secure custody, the model would do little more than account for changes due to projected shifts in population.

The main source of information was departmental statistical records. In particular, computer analyses of Australian Bureau of Statistics Children's Court statistical tapes provided much of the required information on offending rates and on treatment of offenders by the courts.

5.1.2 Processing of Available Data

Because departmental statistics are not kept in a form which is tailored to suit the JIF model, an amount of data pre- processing was required.

To facilitate this task a considerable amount of computer software was written to preprocess the institution movement data. This software was able to reduce the time needed to process the data, to sort and test various aspects of the data so as to show up missing information. Even so, this task was time-consuming. Certain estimates and extrapolations were used to compensate for missing data. Fortunately it was possible through carrying out verification checks, to be satisfied that the basic data input to the model was a good estimation of the true situation.

5.1.3 Verification of the Operation of the Model

The issue of verification of the operation of the model has previously been discussed in some detail in Section 3.3. Procedures outlined in this section were applied during the development process. In addition to the cross-checking of data input to the model by comparison of data from various statistical sources, additional verification of the input parameters was provided by the program's ability to forecast the end of year figures for detainees on hand for the years 1985 to 1987 from the 1984 end of year data and estimated 1984/85 through-put data, population and scenario data.

5.1.4 The Program Model and Output

An example of the computer output generated by running the JIF model using the artificially generated statistical juvenile justice test data, and a scenario of four hypothesised trends together with actual Australian Bureau of Statistics population projections for Queensland till the year 2000 is set out in Appendix 3, Table 1, page 46. The program, after processing the input information, provides annual estimates of future numbers of offenders by age and offence (offender matrix - see Appendix 4, page 53), estimates of future numbers being dealt with either by the police by way of caution or through the courts by outcome including estimated length of detention (disposition numbers matrix - see page 54). The program also provides quarterly estimates of annual through-put of detainees by length of detention received and quarterly estimates of numbers on hand by remaining time to serve, to the year 2000 (see Appendix 4 page 66). In addition, annotation of each trend input in each scenario together with details of the manner of it's application and the quarter in which the trend operates, appears in the computer output (see Appendix 4 pages 52-61). The Fortran program listing, JIF.FOR, is shown in Appendix 1.

5.1.5 Features and Enhancements of the Program Model

As previously stated, the JIF model computer program is based on one originally used for forecasting numbers of adult prisoners (Walker, 1984). This juvenile version of the program differs from the original in that it makes allowances for differences between the juvenile and adult justice systems.

During the testing of the program, it became clear that due to the much smaller numbers of juvenile offenders as compared with adults, systematic rounding errors in computer calculations would lead to the under-estimation of the small numbers in the long term detainee categories. This difficulty was overcome by modifying the program so as to introduce a slight degree of randomness in rounding and in the allocation of incoming cases to sentence length categories. In the real life situation some randomness is experienced in the numbers of court appearances and in sentences given. As a result of this modification the under-estimation problem has also been overcome. It is a simple matter to modify, calibrate or eliminate this randomness feature should this be required.

5.1.6 Graphical Output

The program unit, Subroutine GRAPH, which is responsible for producing the graphical output, is shown in Appendix 1 on page 36 in the Fortran listing. Examples of the graphical output produced by the computer program can be seen in Appendix 4 page 68 and in Figure 5, page 21. As can be seen from the example (Appendix 4, page 68), detainee estimates are plotted against years to which the forecasts relate. The two lines of title are input from lines six and seven of file JSCENEJ (see Appendix 4, page 52).

5.2 Detailed Outline of Data Input

5.2.1 The Population Estimates

The fertility rate used for future population estimates for 10 - 17 year olds is already largely determined by the fact that most of the juveniles who will be detained between now and the year 2000 have already been born.

FIGURE 5

JIF MODEL GRAPHICAL OUTPUT - FOUR RUNS USING TEST DATA

- (a) Population Held Constant - No Trends ABS Population Projection - No Trends ABS Population Projection - 4 Trend Scenario (b)
- (c)
- ABS Population Projection 5 Trend Scenario (d)



Three sets of Australian Bureau of Statistics (A.B.S.) population projections for the 10-17 year old age group were used in the model. These different estimates are a result of various population growth scenarios used by A.B.S. in compiling the estimates. The differences in the population estimates are related to possible differences in external and internal migration. The other major factor affecting the 10-17 year old age group population projections into the future are recent historical and future fertility rates.

Preliminary testing of the model using three different population projection estimates provided by the Australian Bureau of Statistics shows that, in relation to the offending population, only small differences in the forecast number of detainees on hand resulted among the different population estimates. This is due mainly to the liklihood of their being only small changes due to migration. Fertility, as already observed, is largely determined. The projections used, relate to different estimates of internal and external migration and to a small extent, fertility. In other States or countries greater differences among population estimates may well result due to migration factors.

5.3 Scenarios

5.3.1 Method of Scenario Development

Senior departmental officers were asked to speculate on the factors which they considered would have the greatest impact on the need for secure custody beds in the future. The major issues raised included:

a. the impact of new child welfare legislation;

b. factors outside the control of the Department (e.g. police policies, other legislation); and

c. the availability of alternatives to secure custody.

The factors were quantified to give estimates of their anticipated effects on the total pool of children requiring secure custodial care.

5.3.2 Factors for Inclusion in Scenarios

In all a total of 18 separate trends were identified for inclusion in scenarios; Five illustrative examples similar in type to those identified, are listed below. It was not always possible to incorporate the trends in exactly the format proposed for reasons explained in Section 4.1.3. Where it was not possible to input the proposed trend in the exact format in which it was given, care was taken to represent as clearly as possible the offender group designated and to keep the magnitude of the change similar to that of the trend as originally proposed.

5.3.3 Examples of Hypothesised Trends for Inclusion in Scenarios

(a) Growth in Numbers Appearing Beyond Population Growth. There has been an increase in overall numbers of juveniles appearing before the courts of about four percent above the rate of increase expected from the growth in population. It was further hypothesised that this is a temporary trend which will fade and vanish by 1993.

The four percent growth factor was applied to each year from 1985 to 1989; tapering to three percent in 1990; two percent in 1991; and one percent in 1992.

(b) Increase in Male and Female Drug Offending Rate. Statistical data from 1978 to 1985 show a trend of an average 24.5 percent increase of both male and female drug offending above the overall increase in offending rates and general population growth. It was hypothesised that this trend will continue for some time and then taper off to zero by 1993.

The 24.5 percent increase was applied to 1985, 1986 and 1987; 24 percent in 1988; 20 percent in 1989; 15 percent in 1990; 13 percent in 1991; and 5 percent in 1992.

(c) Increase in Firearm Offences. Similarly statistical data from 1979 to 1985 show an average increase of 24 percent per annum in juvenile firearm offences, discounting for the overall increase of four percent in offending behaviour and general population increases. It was hypothesised that this trend would not continue beyond 1986 due to tougher gun laws.

The 24 percent increase was applied in 1985 and 1986.

(d) Increase in Property Offending - Breaking, Entering and Stealing, etc. There has been an average 2.4 percent increase annually in property offending among 12 - 17 year olds since 1979 over and above that due to population growth. It was further hypothesised that the trend is a temporary one which will vanish by the end of 1988.

The factor was applied as 2.4 percent in 1985, 1986, 1987; and two percent in 1988.

(e) Educational Initiatives Reduce Conviction Rate in 10- 15 Year Olds It was estimated that the introduction of Education Department initiatives providing special education programs targeted at early school leavers would have the effect of decreasing the juvenile conviction rate by 25 percent each year for 1987 and 1988.

5.4 Method of Inputting Trends to the Model and Types of Trend

The hypothesised trends above, serve as examples which give some small indication of the kinds of different inputs to scenarios which can be used in the model. An example of the method of use of the above trends is given below. The scenario file JSCENEJ, shown in Appendix 4, page 52 provides an illustrative mix of the different types of trends catered for. The first four lines of the file are read in to provide parameter control. Line five of the file provides detainee "stock on hand" numbers for the base year by number of quarters remaining to serve. Lines six and seven provide labelling for the graph and the printed output. Subsequent lines of the file provide trend information and are read line by line under the control of the parameter control values in lines 2 and 3. Under this control each quarterly cycle of the program inputs the trends relevant to that quarter.

The first two trend lines (lines 8 and 9 in file JSCENEJ, Appendix 4, page 52), dealing with the selected population projection and increased court appearances respectively, are input during the program cycle representing the first quarter of 1984. The first of these two trend lines causes the high population projection to be used in subsequent calculations. The second reflects the identified trend of an increase in numbers of court appearances over and above that which can be accounted for by population growth and this increase is applied to all offence categories. In each trend line of the scenes file JSCENEJ, are parameter control values to the left of the trend description. These are used to identify the type of trend, to apply the trend to the appropriate age and offence categories and to communicate to the program the magnitude of the detected or hypothesised trend.

It is relatively easy to input almost any trends to the program. The types of trends that the program specifically caters for include change in population projection forecast projections, changes in police caution or apprehension rates, changes in conviction rates or court disposition patterns, changes in offending and or sentencing patterns, changes in the use of community placement alternatives, remission rates and prerelease schemes. In addition, legislative changes or policy initiatives of welfare departments can easily be represented in the trend scenario. All of these trends can be targeted to the specific age, sex and offence categories to which they are applicable.

5.5 Four Demonstration Runs showing the Operation of the Model

The following four demonstration runs of the JIF model are designed to illustrate its capabilities and characteristics. As previously stated, the input data is contained in a number of computer disk files, these being read by the program. Firstly files QJPOPA, QJPOPB and QJPOPD contain respectively medium, low, and high A.B.S. quarterly

population projections by age and sex from 1984-2000 (see Table 2, Appendix 3 page 47 for an example of the contents of these files). These files provide the means of inputting to the model different A.B.S. population forecasts.

File QJCRATE contains disaggregated statistical data on juvenile conviction rates by age and sex (see Appendix 3 page 48), while file QJDISPP contains similar disaggregated data on police cautions, and court dispositions involving both community placement and length of detention data by offence category (see Appendix 3, page 49). Both of these files provide basic statistical input to the program. The numerical contents of these two files are read respectively into conviction rate and disposition matrices within the program. These matrices are modified during each quarterly cycle of the program by the trend information supplied from the scenario file JSCENEJ so as to account for hypothesised trends in the produced forecast of detainee numbers.

5.5.1 Four Scenarios

To demonstrate the model four computer runs have been carried out, each run using one of the following four scenarios.

Scenario 1 No trends and no population change,

Scenario 2 No trends and A.B.S. high population projections for Queensland to the year 2000

Scenario 3 Trends 1 to 4 from section 5.3.3 and A.B.S. high populations for Queensland to 2000, and

Scenario 4 Trends 1 to 5 from section 5.3.3 and A.B.S. high populations for Queensland to 2000.

5.5.2 Run 1, Scenario 1

Without population changes or input scenarios the numbers of detainees forecast by the model, as explained earlier, will remain constant. This condition is demonstrated in the first run in which the population has been held constant artificially by putting dummy constant data into the population forecast input files.

The results of running the JIF model under such "no scenario, population constant" conditions is the forecast of a constant number of detainees, as would be expected. The forecast number of detainees for the period 1984-2000, for these conditions is shown in the program output graph (Fig 5(a), page 21).

5.5.3 Run 2, Scenario 2

For demonstration purposes a further "no scenario" run of the program was carried out. This time however the actual A.B.S. population forecast figures have been included. The output graph which plots the forecast numbers for the period 1984-2000 (Fig 5(b), page 21) in sympathy with the forecast population trends (see Appendix 3, Table 1 page 46), shows a gradual decline followed by a partial recovery towards the year 2000.

5.5.4 Run 3, Scenario 3

In this demonstration run of the JIF model, in addition to the A.B.S. population forecast figures 1984-2000, a four trend scenario has been added. Hypothesised trends (a) to (d) as outlined in 5.3.3 above are included. The full computer output from this four trend run is also included (see Appendix 4.) This scenario is incorporated by way of the scenario file JSCENEJ which is shown in Appendix 4 on page 52. It will be noted that all four hypothesised trends are such as to increase the numbers of detainees forcast. The resultant output graph showing the numbers forecast to the year 2000 appears in Fig 5(c), page 21 and also in Appendix 4 following the printed output on page 68.

5.5.5 Run 4, Scenario 4

In the last demonstration run an additional trend (5.3.3 (e)) was added to the previous trends, making a five trend scenario. While the first four trends caused an increase of detainee numbers over time, the fifth trend was in the direction of decreased numbers.

5.5.6 Getting the Feel for the Model

By carefully following the output in Appendix 4 it is possible to obtain some understanding of the operation of the model. Further understanding will arise from the task of defining offence, and disposition categories and assembling population projection data in the required format. The compilation of data from statistical sources and its processing into the required format for inclusion in files to form the disposition and conviction matrices provides an opportunity to digest more of the flavour of the model and to come to grips with the model's functioning at a more detailed level. The analysis of hypothesised trends, their amalgamation to form scenarios and test running of the model will soon provide the user with not only a feel for the operation of the model but some insights into what effect certain trends and policies are likely to have on detainee numbers.

6. SUMMARY

In summary it needs to be stressed that the JIF model is a dynamic one which enables a series of "what-if" questions about future possible policy initiatives to be tested out to estimate their effect on the demand for secure custody accommodation.

The model offers considerable flexibility in the type of trends that can be represented. There is no limit to the number of trends that can be accommodated simultaneously or in any one scenario.

The model allows for the inclusion of any anticipated future events and trends which are likely to affect the numbers of juveniles who will require custody. Sufficient information has been provided in this report to enable the model to be implemented by practitioners throughout the juvenile justice field, should they wish to do so. Departments responsible for juvenile corrections wishing to construct the JIF model, would have most of the required data already. The balance of the data requirements for the model are obtainable from published and other statistical sources.

The computer program listed in Appendix 1 is written in Fortran 4, and is available through the Australian Institute of Criminology for use by government departments. Since the original development on a LABTAM 3000 machine the program has been imported to IBM-compatible personal computers and to a Digital Equipment Corporation VAX/VMS version V4.5 where it compiled without modification. The program should compile with little or no modification using most versions of Fortran available for micro-computers. The subroutine GRAPH is written for the Prospect Graphics Fortran Library which interfaces with Prospero Fortran. However, with some modification, GRAPH could be made to run using other Fortran Graphics Libraries.

The model is sufficiently economical in its memory and processing requirements to be easily accommodated in most micro-computers and it is therefore feasible for implementation in most organisations needing such a research and planning tool.

One way in which the model could be enhanced is by the addition of an interactive module which would ascertain trend information for scenarios in a user-friendly way by asking the user a series of questions. Such an extension of the package would be relatively easy to write and would expand the role of the model beyond its present one to one that would also instruct, stimulate and help users to generate creative responses in scenario development even though the user may have little knowledge of computers.

In conclusion it is important to stress again that the interactive nature of the model allows for inclusion of "what-if" questions and additional or alternative trends or scenarios at will thus enabling the provision of timely advice to planners and decision makers.

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APPENDIX 1

APPENDIX 1

The JIF Program. Below is a listing of the Juvenile Institution written in FORTRAN 4. Graphical output is Forecasting Program, JIF.FOR, easily suppressed if not required. DIMENSION IPOP(9,3), ICRATE(9,2,22), NCONV(10,3,23), ICOM(80) 1, NXDISP(24, 23), DISP(24, 23), NPRREC(21, 67), NPRNOW(21, 67) 2, PRSEED(20,9,5), 3XLAB(20), YLAB(20), 4DSIZE(4), CHARS(4), X(67), Y(67), NMODS(80), QOFFSH(12, 23), XNAME(12) 5, YNAME (12), TITLE (12), HEADER (18) INTEGER*1 DOFFSH INTEGER#2 NMODS INTEGER*1 XNAME, YNAME INTEGER*4 TITLE, HEADER Ç THE FIRST SECTION INSERTS BASE YEAR NUMBERS OF DETAINEES, BY EFFECTIVE PERIOD REMAINING TO BE SERVED, INTO NPRREC AND NPRNOW. THE 1984 INSTITUTION CENSUS FIGURES WERE USED HERE. NPRREC WILL С C C С CONTAIN DETAINEES RECEIVED EACH YEAR, WHILE NPRNOW WILL CONTAIN С THE NUMBERS ON HAND AT THE END OF YEAR. С DATA NPRREC/1407*0/, NPRNOW/1407*0/ 4, XLAB/4H1980,4H1985,4H1990,4H1995,16*4H2000/,YLAB/4H1500,4H2000, 54H2500, 17*4H3000/, DSIZE/.02, .04, .08, 1.0/, CHARS/1H., 1H+, 1HX, 1H*/ С Ç С NOW READ THE OFFENCE-NAMES (QOFFSH), THE CONVICTION-RATES (ICRATE), С С THE DISPOSITION RATES (DISP), AND THE SENTENCE-LENGTH MATRICES С OPEN(12, 'DJORATE') OPEN(13,'QJOFFSH') OPEN(14,'QJDISPP') OPEN(15,'QJPRSE2') OPEN(19,'JSCENEJ') OPEN(11,'0JOPOPB') OPEN(20,'0JOPOPA') OPEN(21,'0JOPOPD') OPEN(18,'INOUT') С READ(13,3000)((QOFFSH(L1,K1),L1=1,12),K1=1,23) 3000 FORMAT(12A1) READ(12,4000) ICRATE 4000 FORMAT(917) READ(14,4001)DISP 4001 FORMAT (24F6.2) READ (15, 4002) PRSEED 4002 FORMAT (20F3.0) READ(19, 1900)RUNNO, NMODS, RETAIN, REMRAT, PRERE, JPOP, DIV, 1 (NPRREC (NO, 1), NO=1, 20), (TITLE (I), I=1, 12), (HEADER (I), I=1, 18) 1900 FORMAT (A4/4012/4012/3F5.3, 15, F5.0/2015/12A4/18A4) С THE FIRST ROW OF THE ON HAND MATRIX NPRNOW RECEIVES THE FIRST С OF THE RECEIVALS MATRIX NPRREC INTO WHICH IS READ THE THE С ROW STOCK OF DETAINEES ON 30TH JUNE BY TIME TO SERVE IN THE 20 C WITH THE AID QUARTERLY EPISODE LENGTH CATEGORIES. DETSL, OF С MATRIX PRSEED, PROVIDES CODE TO CONVERT FROM THE 13 INPUT SENTENCE LENGTH CATEGORIES USED IN THE DISPOSITION MATRIX DISP С С TO THE 20 CATEGORIES OF DETENTION LENGTH USED IN THE PROGRAM С OUTPUT. С C

DD 100 N1=1,20 NPRNOW(21,1)=NPRNOW(21,1)+NPRREC(N1,1) 100 NPRNOW(N1,1)=NPRREC(N1,1)

30

(continued on next page)

JIF.FOR (continued)

_....

С	
C	NOW, FOR EACH QUARTER(1 TO 67), WE MODIFY (IF REQUIRED) THE
C	DISPOSITION MATRIX (DISP) AND THE APPEARANCE RATES (ICRATE),
C C	READ THE FUFULATION FIGURES (IFUF), CALCULATE AND FRINT THE
с С	NUMBERS OF FERGUNS REFERRING (NCUNV) ON A GUNRIERLY CYCLE.
0	WRITE(18,1442)TITLE, HEADER
1442	FORMAT(1X,12A4/1X,18A4//)
	XR=0.75
	10=3
	IYC=1
	DO 1 I=1,67
	WRITE(1,1543)I
1543	FORMAT(1X, PROCESSING QUARTER NO. ', 13)
1075	$1 \in (10, -20, -2) = 1$
1200	
	READ (19, 1901, ERB=833) IRT. L1. L2. M1. M2. MALT. PARAM. ICOM
1901	FORMAT (615, F15, 3, B0A1)
832	CALL SCENAR(I, DISP, ICRATE, IRT, L1, L2, M1, M2, PARAM, MALT, QOFFSH.
:	1PRERE, RETAIN, REMRAT, JPOP, ICOM)
820	READ (JPOP, 4005) IPOP
4005	FORMAT (916)
	GOTO 835
833	WRITE(18,4017)I, IYC, IPOP
4017	FORMAT(1X, 'BAD READ FMT 1901'/1X, 213/1X, 916/)
078	
825	
11	
• •	
	DO 21 K=1,3
21	NCONV (J, K, 23) =0
	DO 2 L≖1,22
	DO 22 K=1,2
22	NCONV(J,K,L)=IFIX(0.5+(ICRATE(J,K,L)/10000000,)*IPOP(J,K))
2	NCONV(J,3,L) = NCONV(J,1,L) + NCONV(J,2,L)
3	DU 5 E=1,22 NCONV(J.K.23) = NCONV(J.K.23) + NCONV(J.K.L)
	DD 4 K#1.3
	DO 4 L=1.23
	DO 4 J≖1.9
4	NCONV(10,K,L)=NCONV(10,K,L)+NCONV(J,K,L)
	IF(I.EQ.1)WRITE(18,1801)RUNNO
1801	FORMAT(1X,40X,A4/)
	IYR=1983+IYC
	IF (10. EQ. 2. AND. 1YK, EQ. 1996, UK, 1Q. EQ. 2. AND. 1YK, EQ. 1995, UK, 1Q. EQ. 2
	COTO 450
9994	URITE(18,9000)IO_IVR.((DDEESH(K1.L).K1≖1.12).
,,,,	1 ((NEONV(J,K,L), J=1, 10), K=1, 3), L=1, 23)
8000	FORMAT(1X/// ' NUMBER OF PERSONS APPEARING BY AGE, SEX AND MOST SE
	1RIOUS OFFENCE - QUEENSLAND - QTR. NO.', I1, I6/13X,
:	2 *AGE: 5-9 10 11 12
:	3 13 14 15 16 17 TOTAL'/('',12A1/13X,' M',10I6/13X,
	4' F',1016/13X,' T',1016))

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(continued on next page)
С	
C C C	NOW CONVERT THE NUMBERS CONVICTED INTO PERSONS BY DISPOSITION (NXDISP) AND PRINT.
850	DO 8 L=1,23
-	NXDISP(L,23)=0
θ	NXDISP(24,L)≠0
	DO 10 A=1,23 DO 10 L=1.22
	NXDISP(M,L)=IFIX(0.5+DISP(M,L)*NCONV(10,3,L)/100.)
	NXDISP $(24,L)$ =NXDISP $(24,L)$ +NXDISP (M,L)
10	NXDISP(M, 23) ≅NXDISP(M, 23) +NXDISP(M, L)
112	DO II2 L-1,22 NXDISP (24, 23) = NXDISP (24, 23) + NXDISP (24, L)
	IYR=1983+IYC
	IF (IQ. EQ. 2. AND. IYR. EQ. 1990. OR. IQ. EQ. 2. AND. IYR. EQ. 1995. OR. IQ. EQ. 2
2	I .AND.IYR.EQ.2000.UK.I.EQ.1) GUTU 7999 GATA 9999
7999	WRITE(18, 8100)IQ, IYR
8100	FORMAT (//13X, 'NUMBER OF JUVENILES BY MOST SERIOUS OFFENCE AND DISP
	IOSITION - QUEENSLAND - QTR. NO.', I1, I6, /13X,
-	SRCZ FINE CSO SUPV C-C -DETENTION FRIODS(MONTHS)'.38('-').
2	4 'TOTAL'/64X,'0-1 1-2 2-3 3-4 4-5 5-6 6-9 9-12 12-1818-24
5 5	524-3636-48 48+ ')
9998	WRITE(18,8200)((QUFFSH(K1,L),K1=1,12),(NXDISP(M,L),M=1,24),L=1,23) FORMAT(' ' 12A1/12Y 2315 18)
C 5200	
С	NOW WORK OUT THE ACTUAL SENTENCE LENGTHS TO BE SERVED,
C	FOR DETAINEES.
L 7999	CALL DETSL (NXDISP, PRSEED, NPRREC, I, XR, DIV)
C	
С	NOW ROW 1+1 OF NPRREC CONTAINS THIS QUARTER'S INSTITUTION
	NPRNOW - THE END-DE-DUARTER TOTALS, RETAIN IS THE PROPORTION OF
C	THOSE SENTENCED TO AN EFFECTIVE SENTENCE OF LESS THAN ONE QUARTER
C	WHO WILL STILL BE IN CUSTODY AT THE END OF QUARTER. THE REMISSION
C	SYSTEM IS REFLECTED IN THE PROCEDURE BY REDUCING THE TIME
C	OTHER ONE MINUS REMRAT ONLY REDUCE ONE QUARTER.
C	
	PROP=RETAIN
	D0 20 N1=1.18
	NPRNOW(N1, I+1)=IFIX(.5+PROP*NPRREC(N1, I+1)+
	1PRE*((1-REMRAT)*NPRNOW(1+N1,I)+REMRAT*NPRNOW(2+N1,I)))
	PRUP=1.0
20	NPRNOW(21, I+1)=NPRNOW(21, I+1)+NPRNOW(N1, I+1)
	NPRNDW(19, I+1)=IFIX(.5+(1-REMRAT)*NPRNDW(20, I)+NPRREC(19, I+1))
	NPRNOW (20, I+1) = NPRREC (20, I+1)
	NPRNUW(21,1+1)=NPRNUW(21,1+1)+NPRNUW(19,1+1)+NPRNUW(20,1+1) IYR=1983+IYC
	IF(I.EQ.1.OR.IQ.EQ.2.AND.IYR.LT.1990)GOTO 6999
	GOTO 1
6999	WRITE(18,8010)IQ,IYR,(NFRREC(N1,I+1),N1=1,21), 1(NPRNOW(N1_T+1)_N1=1_2))
8010	FORMAT(/////' DETAINEES RECEIVED DURING QTR. NO.', I1, I6,
	1 ', AND DETAINEES ON HA
	ZND AT END OF QTR BY TIME REMAINING TO SERVE.(MONTHS)' / ' TIME 3 REMAINING:// 3X '0-3 3-6 6-9 9-12 12-15 15-18 18-21 21-24
• •	424-27 27-30 30-33 33-36 36-39 39-42 42-45 45-48 48-51 51-54 54-57
;	5 57+ TOTAL'/' DETAINEES RECEIVED:'/2116/' DETAINEES ON HAND:'
	6/2116) 10=10+1
1	

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JIF.FOR (continued)

```
E
С
        NOW WE HAVE RUN THROUGH THE FULL SIXTEEN YEAR PERIOD - PRINT
С
        SUMMARY TABLES TO SHOW THE TRENDS IN TOTAL CLIENT NUMBERS.
C
       WRITE(18,8011)
 8011 FORMAT (/////' SUMMARY OF DETAINEES RECEIVED DURING THE QTR."
                                    ' BY TIME REMAINING TO SERVE - 1984-2000
     1
     2 REMAINING: //11X, '0-3 3-6 6-9 9-12 12-15 15-18 18-21 21-24 424-27 27-30 30-33 33-36 36-39 39-42 42-45 45-48 48-51 51-54 54-57
      5 57+ TOTAL'/' DETAINEES RECEIVED: //' YEAR OTR.')
       IQ1=2
       IYC=0
      DO 1357 I1=2,67
       IQ1=IQ1+1
       IF (IQ1.EQ.5) IQ1=1
       IF(IQ1.EQ.1)IYC=IYC+1
       IYR=1984 + IYC
      WRITE(18,8012)IYR, IQ1, (NPRREC(N1, I1), N1=1,21)
1357
       WRITE(18,8013)
 8013 FORMAT (/////' SUMMARY OF DETAINEES ON HAND AT THE END OF THE'.
                              ' QTR. BY TIME REMAINING TO SERVE - 1984-2000
      1
      2 REMAINING: //11X, '0-3 3-6 6-9 9-12 12-15 15-18 18-21 21-24 424-27 27-30 30-33 33-36 36-39 39-42 42-45 45-48 48-51 51-54 54-57
      5 57+ TOTAL'/' DETAINEES ON HAND: '/' YEAR OTR. ')
       IQ1=2
       IYC=0
       DO 1367 I1=2,67
       IQ1 = IQ1 + 1
       IF(IQ1.EQ.5)IQ1=1
       IF(I01.EQ.1)IYC⇔IYC+1
       IYR=1984 + IYC
1367
      WRITE(18,8012)IYR, IQ1,(NPRNOW(N1,I1),N1⇒1,21)
8012 FORMAT(1X,65(14,13,2116))
       DO 1359 I=1,66
       Y(I) =FLOAT(NPRNOW(21,I+1))
       X(I)=1984.+((FLOAT(I+1))/4.0)
 1359 CONTINUE
 1358 CLOSE(18)
       CALL GRAPH(X,Y,1,66,1980.,2005.,0.,250.,'/YEAR
                                                                    1.
      1, '/DETAINEES /', TITLE, HEADER)
       STOP
       END
C
C--
С
С
       THE FOLLOWING ROUTINE WORKS OUT SENTENCE-LENGTHS FOR DETAINEES
С
       SUBROLITINE DETSL (NXDISP, PRSEED, NPRREC, I, X, DIV)
       DIMENSION NXDISP(24,23), PRSEED(20,9,5), NPRREC(21,67)
       IP1=I+1
       FT=1.0
       NXDISP(16,23)=NXDISP(16,23)+NXDISP(15,23)+NXDISP(14,23)
       NXDISP(15,23) =NXDISP(13,23) +NXDISP(12,23) +NXDISP(11,23)
       DO 1 N=1,9
       IF (NXDISP (N+14,23).GE.1.AND.NXDISP (N+14,23).LE.12.AND.N.GT.4)
      160TO 5
       NR=1
       GOTO 50
   5 FT=(5.0~FLOAT(NR))*0.5
       CALL RANDM(X,NR)
50
       DO 2 N1=1,20
       NPRREC(N1, IP1)=NPRREC(N1, IP1)+IFIX(.5+NXDISP(N+14, 23)*
      1FT + PRSEED(N1, N, NR)/DIV)
   2 CONTINUE
       FT=1.0
    1 CONTINUE
       DO 3 N1=1,20
     3 NPRREC(21, IP1) = NPRREC(21, IP1) + NPRREC(N1, IP1)
       RETURN
       FND
```

JIF.FOR (continued) С C-С C С THE FOLLOWING IS A RANDOM NUMBER ROUTINE FOR RANDOM ALLOCATION С OF LONGER INPUT EPISODE LENGTHS TO SHORTER OUTPUT EPISODE LENGTH С CATEGORIES С SUBROUTINE RANDM (X,NR) DATA K, J, M, RM/5701,3612,566927,566927.0/ IX=INT(X*RM) IRAND=MOD(J+IX+K,M) X = (FLOAT(IRAND) + 0.5)/RMIF(X.LT.0,25)NR=2 IF (X.GE.0.25.AND.X.LT.0.5) NR=3 IF (X.GE.0.5.AND.X.LT.0.75) NR=4 IF (X.GE.0.75) NR=5 RETURN END С С С SUBROUTINE SENLEN (DISP, L, SENPER, QOFFSH) DIMENSION DISP(24,23), QOFFSH(12,22) INTEGER*1 QOFFSH С C THIS ROUTINE INCREASES (SENPER +VE) OR DECREASES (SENPER -VE) SENTENCE C LENGTHS FOR DETERMINATE INSTITUTION SENTENCES BY SENPER PER CENT. IT C PERFORMS THIS FEAT BY WORKING OUT WHAT PROPORTION (ADDPER) OF THOSE C DETAINED IN EACH DETENTION LENGTH CATEGORY MUST BE SHIFTED INTO THE NEXT C HIGHEST (OR LOWEST) CATEGORY TO ACHIEVE THE DESIRED EFFECT. THE TOTAL C PERCENT DETAINED (TOTPER) IS MAINTAINED CONSTANT. С TOTPER=DISP(11,L)+DISP(12,L)+DISP(13,L)+DISP(14,L)+DISP(15,L)+ DISP(16,L)+DISP(17,L)+DISP(18,L)+DISP(19,L)+DISP(20,L)+ 1 DISP(21,L)+DISP(22,L)+DISP(23,L) 2 IF (TOTPER.EQ.0.) RETURN YEARS=.15*DISP(11,L)+.46*DISP(12,L)+.8*DISP(13,L)+1.1*DISP(14,L)+ 1.5*DISP(15,L)+1.8*DISP(16,L)+2.5*DISP(17,L)+3.5*DISP(18,L)+ 1 5*DISP(19,L)+7*DISP(20,L)+10*DISP(21,L)+14*DISP(22,L) 2 AVSEN=(YEARS+18.*DISP(23,L))/TOTPER ADDYRS=YEARS*SENPER IF (ADDYRS.GT.0) ADDPER=ADDYRS/(.31*DISP(11,L)+.34*DISP(12,L) 1+.3*DISP(13,L)+.4*DISP(14,L)+.3*DISP(15,L)+.7*DISP(16,L)+ 2 1.*DISP(17,L)+1.5*DISP(18,L)+2.*DISP(19,L)+3.*DISP(20,L)+ 3 4.*DISP(21,L)+4.*DISP(22,L)) DISDCR=(.31*DISP(12,L)+ 1 .34*DISP(13,L)+.3*DISP(14,L)+.4*DISP(15,L)+.3*DISP(16,L)+ 2 7.*DISP(17,L)+1.*DISP(18,L)+1.5*DISP(19,L)+2.*DISP(20,L)+ 3 3.*DISP(21,L)+4.*DISP(22,L)+4.*DISP(23,L)) IF (DISDCR.EQ.0.0) RETURN IF (ADDYRS, LT. 0) ADDPER=ADDYRS/DISDCR TEM=DISP(11,L) DISP(11,L)=DISP(11,L)*(1.-ADDPER) IF(DISP(11,L).GE.0.)GO TO 849 DISP(12,L) = DISP(12,L) + DISP(11,L)DISP(11,L) = 0.849 DISP(23,L)=DISP(23,L)+ADDPER+DISP(22,L) DD 842 M=12,22 TEM1=DISP(M,L) DISP(M,L)=DISP(M,L)+ADDPER*(TEM-DISP(M,L)) IF(DISP(M,L).GE.0.)60 TO 842 IF (M.LT.22) DISP (M+1,L) = DISP (M+1,L) + DISP (M,L) DISP(M,L) = 0.

842 TEM=TEM1

JIF.FOR (continued)

```
TOTFIX=TOTPER/(DISP(11.L)+DISP(12.L)+DISP(13.L)+DISP(14.L)+
                DISP(15,L)+DISP(16,L)+DISP(17,L)+DISP(18,L)+DISP(19,L)
     1
     2
                 +DISP(20,L)+DISP(21,L)+DISP(22,L)+DISP(23,L))
      DO 844 M=11,23
  844 DISP(M,L)=DISP(M,L)*TOTFIX
      AVS2=(.15*DISP(11,L)+.46*DISP(12,L)+.8*DISP(13,L)+1.1*DISP(14,L)+
     1
          1.5*DISP(15,L)+1.8*DISP(16,L)+2.5*DISP(17,L)+3.5*DISP(18,L)+
          5*DISP(19,L)+7*DISP(20,L)+10*DISP(21,L)+14*DISP(22,L)+18*DISP
     2
     3
          (23,L))/TOTPER
      AVSENM=AVSEN+3.05
      AV52M=AV52+3.05
      WRITE(18,1850)(QOFFSH(K1,L),K1=1,12),(DISP(M,L),M=11,23),AVSENM,
     1 AVS2M
 1850 FORMAT(' NEW SENTENCE LENGTH DISTRIBUTION FOR '.12A1.': '.
     113F6.2/
     2' AVERAGE SENTENCE CHANGED FROM ',F5.2,' MTHS TO ',F5.2,' MTHS.'}
      RETURN
      END
C
C-
С
      SUBROUTINE SCENAR (I, DISP, ICRATE, IRT, L1, L2, M1, M2, PARAM, MALT,
     1 QOFFSH, PRERE, RETAIN, REMRAT, JPOP, ICOM)
      DIMENSION DISP (24, 23), ICRATE (9, 2, 22), QOFFSH (12, 22), ICOM (80)
       INTEGER#1 QOFFSH
      WRITE (18, 1831) ICOM
1831
      FORMAT (////1X,80A1)
      GOTO (511, 512, 513, 514, 515, 516, 517, 518, 519), IRT
      WRITE(18,1281)
1281
      FORMAT(1X, 'IRT IS NOT WITHIN RANGE 1 TO 9 - CHECK SCENARIO FILE')
      STOP
511
      REMRAT=PARAM
 WRITE(18,1812)PARAM
1812 FORMAT(/' REMISSION RATE CHANGED TO ',F6.4)
      RETURN
      WRITE(18,1849)
512
1849 FORMAT(/)
      DO 3 L≏L1,L2
    3 CALL SENLEN (DISP, L, PARAM, QOFFSH)
      RETURN
       JP0P=21
513
 WRITE(18,1810)
1810 FORMAT(// HIGH POPULATION PROJECTION SELECTED')
       RETURN
       JPOP=20
514
       WRITE(18,1809)
 1809 FORMAT(/' LOW POPULATION PROJECTION SELECTED')
       RETURN
515
      DO 7 J=M1,M2
       DO 7 L=L1,L2
       ICRATE(J,1,L)=ICRATE(J,1,L)+IFIX(.5+PARAM*ICRATE(J,1,L))
    7 ICRATE (J, 2, L) = ICRATE (J, 2, L) + IFIX (. 5+PARAM*ICRATE (J, 2, L))
      PARAM=100.*PARAM
       WRITE(18,1848)
1848
      FORMAT(7)
       DO 77 L=L1,L2
 77 WRITE (18,1806) PARAM, (QOFFSH(K1,L),K1=1,12),M1,M2
1806 FORMAT(' ',F8.2,' PER CENT CHANGE IN CONVICTION RATES FOR ',12A1,
1' COLUMNS',I3,' TO',I3)
      RETURN
       FRERE=PARAM
516
      WRITE (18, 1805) PRERE
 1805 FORMAT (/' MEAN PROPN. OF DETAINEES, IN PRE-RELEASE ELIGIBILITY
      1 QUARTER, PRESENT =',F6.2)
      RETURN
```

```
517
       RETAIN=PARAM
       WRITE(18,1803)RETAIN
 1803 FORMAT (/ PRESENT QUARTER RETENTION RATE =', F6.2)
       RETURN
       WRITE(18,1890)
518
1890 FORMAT (/)
       DO 10 L=L1,L2
       DO 10 M=M1,M2
       DISP(M,L)=DISP(M,L)+FARAM*DISP(MALT,L)
    10 DISP(MALT,L)=DISP(MALT,L)*(1.-PARAM)
       DO 1010 L=L1,L2
       DO 1010 M=M1,M2
 1010 WRITE (18, 1801) PARAM, MALT, M, (QOFFSH (K1,L), K1=1, 12), L
 1801 FORMAT(1X, F8.4, ' TIMES COLUMN', I3, ' TRANSFERED TO COLUMN',
      113,' IN DISPOSITIONS FOR ',12A1,15)
       RETURN
519
       WRITE(18,1890)
       DO 110 L=L1,L2
       DO 110 M=M1.M2
       DISF(MALT,L)=DISP(MALT,L)+PARAM*DISP(M,L)
  110 DISP(M,L)=DISP(M,L)*(1.-PARAM)
       DO 1011 L=L1,L2
 1011 WRITE(18,1891)PARAM,M1,M2,MALT,(DOFFSH(K1,L),K1=1,12),L
1891 FORMAT(1X,FB.4,' TIMES COLUMNS',I3,' TO ',I3,
1' TRANSFERED TO COLUMN',I3,' IN DISPOSITIONS FOR ',12A1,I5)
       RETURN
       END
С
C-
          С
       SUBROUTINE GRAPH(X,Y,M,N,XLO,XHI,YLO,YHI,XNAME,
      1YNAME, ITITLE, HEADER)
С
С
C THIS PROCEDURE DRAWS A GRAPH CONSISTING OF A PERIMETER,
C AXES - ANNOTED WITH LABELS AND VALUES, AND A LINE-PLOT
C REPRESENTING INPUT DATA. IT DOES NOT ASSUME THAT GRAPH
C WILL DISPLAY VALUES ONLY IN THE POSITIVE X-Y QUADRANT.
C THE GRAPH IS SCALED SUCH THAT THE FULL RANGE OF INPUT
С
  VALUES CAN BE DISPLAYED WITHIN THE PERIMETER. THE
C FUNCTION TO BE PLOTTED MAY BE LINEAR OR CURVILINEAR.
C
  THE INPUT PAREMETERS ARE DEFINED AS FOLLOWS:
        X = MATRIX OF REAL X-VALUES
Y = MATRIX OF REAL Y-VALUES
С
С
        M = NUMBER OF SEPARATE FUNCTIONS TO BE REPRESENTED
С
        N = NUMBER OF DATA PTS TO BE REPRESENTED
XHI = HIGHEST X-VALUE FOR X-AXIS LABEL
С
С
        XLO = LOWEST X-VALUE FOR X-AXIS LABEL
С
        YHI = HIGHEST Y-VALUE FOR Y-AXIS LABEL
¢
        YLO = LOWEST Y-VALUE FOR Y-AXIS LABEL
XNAME = NAME TO LABEL X-AXIS( MAX SIZE:12 CHARS)
С
С
С
        YNAME = NAME TO LABEL Y-AXIS( MAX SIZE:12 CHARS)
        TITLE = MAIN TITLE TO APPEAR ON TOP OF PAGE(MAX SIZE:48 CHARS)
С
        HEADER = SUB-HEADING TO APPEAR UNDER TITLE (MAX SIZE: 72 CHARS)
C
С
C NB: THE SUB-ROUTINE MAKES CALLS TO STANDARD GSX GRAPHICS INTERFACE
C ROUTINES. HENCE IT IS ASSUMED THAT THE GSX PACKAGE HAS BEEN LOADED
C BEFORE THIS SUB-ROUTINE IS CALLED.
C
С
       INCLUDE 'B:GDEVDR'
       INCLUDE 'B:GDEVIN'
       INCLUDE 'B:GDEVOT'
INCLUDE 'B:GDEVPT'
       INCLUDE 'B:GINTIN'
С
```

```
C
      DIMENSION X(M,N),Y(M;N),XNAME(12),YNAME(12)
     1, ITITLE (12), XDATA (200), YDATA (200), IHEAD (80), HEADER (18)
      INTEGER*1 IHOL(30), IHEAD
      INTEGER#4 ITITLE, HEADER
С
С
С
   OPEN THE PRINTER AND SET SOME INITIAL VALUES
С
      CALL WOPEN (21)
      CALL GESCPE(2)
      CALL WCLEAR
  NB: LATER CALCULATIONS OF PRINTING POSITIONS ASSUME A CHARACTER
С
С
   SIZE OF 5.0MM.....DON'T MODIFY ARBITRARILY
      CALL SETKSZ (5.0)
      CALL SETLTP(1)
      CALL SETLWD (JLWMIN*SXNDC*IXMM)
      CALL GTRAN2
С
С
С
   CHECK SIZE OF DATA VALUES
С
      DO 13 I≞1,M
      DO 13 J=1,N
      IF ((X(I,J).LE.XHI).AND.(X(I,J).GE.XLO)) GOTO 14
      WRITE(6,15)
   15 FORMAT(//,'1','X-VALUES OUT OF RANGE')
      RETURN
   14 CONTINUE
      IF ((Y(I,J).LE.YHI).AND.(Y(I,J).GE.YLO)) GOTO 13
      WRITE(6,19)
   19 FORMAT(//,'1','Y-VALUES OUT OF RANGE')
      RETURN
   13 CONTINUE
С
      IF (M.LT.NLTYPS) GOTO 21
      WRITE(6,22)
   22 FORMAT(//,'1','NO. OF FUNCTIONS EXCEEDS NO. OF LINETYPES')
      RETURN
   21 CONTINUE
С
      XVAL ≕ XLO
      NDECXL = 1
    1 IF (AMOD(XVAL, 10.0).LT. 10.0) GOTO 2
      NDECXL = NDECXL + 1
      XVAL = XVAL/10.0
      GOTO 1
    2 CONTINUE
      XVAL = XHI
      NDECXH = 1
    3 IF (AMOD(XVAL, 10.0).LT. 10.0) GOTO 4
      NDECXH = NDECXH + 1
      XVAL = XVAL/10.0
      GOTO 3
    4 CONTINUE
      YVAL = YLO
NDECYL = 1
    5 IF (AMOD(YVAL, 10.0).LT. 10.0) GOTO 6
      NDECYL = NDECYL + 1
       YVAL = YVAL/10.0
      GOTO 5
    6 CONTINUE
      YVAL = YHI
      NDECYH = 1
    7 IF (AMOD(YVAL, 10.0).LT. 10.0) GOTO 8
      NDECYH = NDECYH + 1
      YVAL = YVAL/10.0
      GOTO 7
    8 IF (MAX0(NDECXL,NDECXH,NDECYL,NDECYH).LE.4) GOTO 10
      WRITE(6,9)
    9 FORMAT(//,'1','DATA VALUES EXCEED SIZE ALLOWED IN FORMAT 25')
      RETURN
```

```
С
С
   CHECK SIZE OF DRAWING AREA
C
   10 IF ((IXMM.GE.80).AND.(IYMM.GE.80)) GOTO 12
      WRITE(6,11)
   11 FORMAT(//,'1','DRAWING AREA IS TOO SMALL')
      RETURN
С
С
С
   DRAW BOX AROUND THE GRAPH
С
   12 CALL MOVETO(20.0,20.0)
      CALL LINETO(IXMM/1.0,20.0)
      CALL LINETO(IXMM/1.0,(IYMM-20.0)/1.0)
      CALL LINETO(20.0, (IYMM-20.0)/1.0)
      CALL LINETO (20.0,20.0)
С
С
   CALCULATE LOCATION OF X-AXIS AND Y-AXIS
C
      XAXIS = 0.
      YAXIS = 0.
      IF (XL0.LT.0.)YAXIS = IXMM*(1.0-XHI/(XHI-XL0))
      IF (YLO.LT.0.)XAXIS = (IYMM-20.0)*(1.0-YHI/(YHI-YLO))
С
C
   DRAW X-AXIS AND Y-AXIS (IF NECESSARY)
C
   16 IF (XAXIS.EQ.0.) GOTO 17
        CALL MOVETO (20.0, XAXIS)
        CALL LINETO(IXMM/1.0, XAXIS)
   17 IF (YAXIS.EQ.0.) GOTO 18
        CALL MOVETO (YAXIS, 20.0)
        CALL LINETO(YAXIS, (IYMM-20.0)/1.0)
С
С
С
   ANNOTATE THE X AND Y AXES
С
C
   18 IF (YAXIS.NE.0.) GOTO 20
                                                  .
      IVAL = INT(XLO)
      ENCODE (IHOL, 25) IVAL
   NB: IF DATA SIZE IN FORMAT 25 IS CHANGED X-COORD IN TWO CALLS
С
   TO PTEXT MUST ALSO BE CHANGED
С
   25 FORMAT('/', 14, '/')
      CALL PTEXT (20.0, 12.0, IHOL)
        GOTO 30
С
   20 CALL PTEXT (YAXIS, 12.0, '/0/')
С
   30 IVAL = INT(XHI)
      ENCODE (IHOL, 25) IVAL
      CALL FTEXT (IXMM-7.0-4+NDECXH, 12.0, IHOL)
С
C
      IF (XAXIS.NE.0.) GOTO 35
      IVAL = INT(YLO)
      ENCODE (IHOL, 25) IVAL
   NB: IF DATA SIZE IN FORMAT 25 IS CHANGED X-COORD IN PTEXT MUST CHANGE
С
      CALL PTEXT((10.0-4+NDECYL), 20.0, IHOL)
         GOTO 40
С
   35 CALL PTEXT (10.0, XAXIS, '/0/')
С
   40 IVAL = INT(YHI)
      ENCODE (IHOL, 25) IVAL
   NB: IF DATA SIZE IN FORMAT 25 IS CHANGED X-COORD IN PTEXT MUST CHANGE
С
      CALL PTEXT((10.0-4+NDECYH), IYMM-23.0, IHOL)
С
С
      CALL PTEXT(IXMM/2.0,5.0,XNAME)
      CALL SETKUP (90.0)
      CALL PTEXT (5.0, (IYMM-20.0) /2.0, YNAME)
      CALL SETKUP(0.0)
```

С

```
С
С
С
   MARK OUT THE SCALE ON THE X-AXIS
С
   FIRST CALCULATE SIZE OF INTERVALS GIVEN A MAX NO. OF INTERVALS = 5
С
      XVAL = XLO + 1.
      XRANGE = XHI - XLO
С
С
   IF RANGE<30 WILL BE ABLE TO DEAL IN UNITS OF 5
С
      IF (XRANGE.GE.30) GOTO 70
   IF REACHED THE END OF THE AXIS - FINISHED
C
   55 IF (XVAL.GE.XHI) GOTO 100
   IF IT'S A MULTIPLE OF 5 - MARK IT
C
      IF (AMOD((XVAL-XLO),5.).EQ.0.) GOTO 60
      XVAL = XVAL + 1.
      60TO 55
C
  PRINT THE MARKER AND ASSOCIATED VALUE
   60 CALL MOVETO(20.0+(IXMM-20.0)*(XVAL-XLO)/XRANGE,20.0)
      CALL LINETD(20.0+(IXMM-20.0)*(XVAL-XLD)/XRANGE,17.0)
       IVAL = INT(XVAL)
      ENCODE (IHOL, 25) IVAL
      CALL PTEXT(((20.0+(IXMM-20.0)*(XVAL-XLD)/XRANGE)-5.0-4+NDECXH)
      1,12.0,IHOL)
      XVAL = XVAL + 1.
      6010 55
С
   IF THE RANGE>=30 WILL NEED TO FIND A POWER OF 10 THAT DIVIDES THE
AXIS INTO MAXIMUM OF 5 INTERVALS...SO FIRST FIND THE POWER OF 10
С
С
   LESS 1 OF THE DATA RANGE
C
C
   70 IPOWER = 0
   75 IF (XRANGE.LE.10,) GOTO 80
      IPOWER = IPOWER + 1
      XRANGE = XRANGE/10.
      GOTO 75
   80 XVAL = XLO + 1.
       XRANGE = XHI - XLO
       XUNIT = 10.0**IPOWER
C
С
   IF THE RANGE CONTAINS >5 INTERVALS - DOUBLE THE UNITS
C
       IF (XRANGE/XUNIT.LE.5.) GOTO 90
   IF END OF RANGE REACHED ~ FINISHED
С
   82 IF (XVAL.GE.XHI) GOTO 100
IF (XRANGE/XUNIT.GT.3.) XUNIT = 2*XUNIT
FIND FIRST DATA VALUE THAT IS MULTIFLE OF THE DIVISOR - MARK IT
С
       IF (AMOD((XVAL-XLD),XUNIT).EQ.0.) GOTO 85
       XVAL = XVAL + 1.
       GOTO 82
C
  PRINT THE MARKER AND ASSOCIATED VALUE
   85 CALL MOVETO(20.0+(IXMM-20.0)*(XVAL-XLO)/XRANGE,20.0)
      CALL LINETD(20.0+(IXMM-20.0)*(XVAL-XLD)/XRANGE, 17.0)
       IVAL = INT(XVAL)
       ENCODE (IHOL, 25) IVAL
      CALL PTEXT(((20.0+(IXMM-20.0)*(XVAL-XLD)/XRANGE)-5.0-4+NDECXH)
      1,12.0, IHOL)
   IF CURRENT VALUE IS WITHIN 1 UNIT OF END - INCREMENT MORE SLOWLY
C
       IF (XVAL.GE.(XHI-XUNIT)) GOTO 87
   ELSE GO UP IN MUTIPLES OF THE DIVISOR UNIT
C
       XVAL = XVAL + XUNIT
       60TO 85
   87 XVAL = XVAL + 1.
      GOTO 82
```

```
С
   IF RANGE CONTAINS =<5 INTERVALS OF DIVISOR UNIT - PROCEED
С
  IF END OF RANGE REACHED - FINISHED
С
£
   90 IF (XVAL.GE.XHI) GOTO 100
      IF (XRANGE/XUNIT.LE.3.) XUNIT = .5*XUNIT
   FIND FIRST DATA VALUE THAT IS MULTIPLE OF THE DIVISOR - MARK IT
С
      IF (AMOD((XVAL-XLO),XUNIT).EQ.0.) GOTO 95
      XVAL = XVAL + 1.
      GOTO 90
С
   PRINT THE MARKER AND ASSOCIATED VALUE
   95 CALL MOVETD(20.0+(IXMM-20.0)*(XVAL-XLD)/XRANGE,20.0)
      CALL LINETO (20.0+(IXMM-20.0)*(XVAL-XLD)/XRANGE, 17.0)
      IVAL = INT(XVAL)
      ENCODE (IHOL, 25) IVAL
      CALL PTEXT((((20.0+(IXMM-20.0)*(XVAL-XL0)/XRANGE)-3.0-4+NDECXH)
     1,12.0,IHOL)
  IF CURRENT VALUE IS WITHIN 1 UNIT OF END - INCREMENT MORE SLOWLY
С
      IF (XVAL.GE.(XHI-XUNIT)) GOTO 97
C
  ELSE GO UP IN MUTIPLES OF THE DIVISOR UNIT
      XVAL = XVAL + XUNIT
      60TO 95
   97 XVAL = XVAL + 1.
      GOTO 90
  100 CONTINUE
C
С
  NOW DO THE SAME FOR THE Y-AXIS IE. DERIVE AN APPROPRIATE
C
   SCALE AND MARK IT OUT
С
      YVAL = YLO + 1.
      YRANGE = YHI - YLD
С
C
   IF RANGE< 30 WILL BE ABLE TO DEAL IN UNITS OF 5
C
      IF (YRANGE.GE.30) GOTO 120
С
  IF REACHED THE END OF THE AXIS - FINISHED
 105 IF (YVAL.GE.YHI) GOTO 150
  IF IT'S A MULTIPLE OF 5 - MARK IT
C
      IF (AMOD((YVAL-YLO), 5.).EQ.0.) GOTO 110
      YVAL = YVAL + 1.
      GOTO 105
  PRINT THE MARKER AND ASSOCIATED VALUE
C.
  110 CALL MOVETO(17.0,20.0+(IYMM-40.0)*(YVAL-YLD)/YRANGE)
      CALL LINETD(20.0,20.0+(IYMM-40.0)*(YVAL-YLD)/YRANGE)
      IVAL = INT(YVAL)
      ENCODE (IHOL, 25) IVAL
      CALL PTEXT(10.0-4+NDECYH, (20.+(IYMM-40.)*(YVAL-YLO)/YRANGE), IHOL)
      YVAL = YVAL + 1.
      GOTO 105
C
  IF THE RANGE>=30 WILL NEED TO FIND A POWER OF 10 THAT DIVIDES THE
С
   AXIS INTO MAXIMUM OF 5 INTERVALS... SO FIRST FIND THE POWER OF 10
С
С
  LESS 1 OF THE DATA RANGE
С
  120 IPOWER = 0
  125 IF (YRANGE.LE.10.) GOTO 130
      IPOWER = IPOWER + 1
      YRANGE = YRANGE/10.
      GOTO 125
  130 \text{ YVAL} = \text{YLD} + 1.
      YRANGE = YHI - YLO
      YUNIT = 10.0**IPOWER
С
   IF THE RANGE CONTAINS >5 INTERVALS - DOUBLE THE UNITS
С
С
      IF (YRANGE/YUNIT.LE.5.) GOTO 140
   IF END OF RANGE REACHED - FINISHED
С
  132 IF (YVAL.GE.YHI) GOTO 150
      IF (YRANGE/YUNIT.GT.3.) YUNIT = 2*YUNIT
 FIND FIRST DATA VALUE THAT IS MULTIPLE OF THE DIVISOR - MARK IT
С
      IF (AMOD((YVAL-YLO),YUNIT).EQ.0.) GOTO 135
```

```
YVAL = YVAL + 1.
      GOTO 132
 PRINT THE MARKER AND ASSOCIATED VALUE
С
  135 CALL MOVETD(17.0,20.0+(IYMM-40.0)*(YVAL-YLO)/YRANGE)
      CALL LINETO (20.0, 20.0+(IYMM-40.0)*(YVAL-YL0)/YRANGE)
      IVAL = INT(YVAL)
      ENCODE (IHOL, 25) IVAL
      CALL PTEXT(10.-4+NDECYH, (20.+(IYMM-40.)*(YVAL-YLD)/YRANGE), IHQL)
   IF CURRENT VALUE IS WITHIN 1 UNIT OF END - INCREMENT MORE SLOWLY
С
      IF (YVAL.GE. (YHI-YUNIT)) GOTO 137
   ELSE GO UP IN MUTIPLES OF THE DIVISOR UNIT
С
      YVAL = YVAL + YUNIT
      GOTO 135
  137 YVAL = YVAL + 1.
      GOTO 132
  IF RANGE CONTAINS =<5 INTERVALS OF DIVISOR UNIT - PROCEED
С
  IF END OF RANGE REACHED - FINISHED
С
С
  140 IF (YVAL.GE.YHI) GOTO 150
      IF (YRANGE/YUNIT.LE.3.) YUNIT = .5*YUNIT
  FIND FIRST DATA VALUE THAT IS MULTIPLE OF THE DIVISOR - MARK IT
C
      IF (AMOD((YVAL-YLO),YUNIT).EQ.0.) GOTO 145
      YVAL = YVAL + 1.
      GOTO 140
С
  PRINT THE MARKER AND ASSOCIATED VALUE
  145 CALL MOVETO(17.0,20.0+(IYMM-40.0)*(YVAL-YLD)/YRANGE)
      CALL LINETO(20.0,20.0+(IYMM-40.0)*(YVAL-YLO)/YRANGE)
      IVAL = INT(YVAL)
      ENCODE (IHOL, 25) IVAL
      CALL PTEXT(10.-4+NDECYH, (20.+(IYMM-40.)*(YVAL-YLD)/YRANGE), IHOL)
  IF CURRENT VALUE IS WITHIN 1 UNIT OF END - INCREMENT MORE SLOWLY
С
      IF (YVAL.GE. (YHI-YUNIT)) GOTO 147
  ELSE GO UP IN MUTIPLES OF THE DIVISOR UNIT
С
      YVAL = YVAL + YUNIT
      GOTO 145
  147 YVAL = YVAL + 1.
      GOTO 140
С
С
  FINISHED SCALING AND MARKING OUT THE AXES
С
  150 CONTINUE
С
  PRINT TITLE ON TOP OF PAGE
C
C
      ENCODE (IHEAD, 2000) HEADER
 2000 FORMAT('/',18A4,'/')
      CALL PTEXT (20.0, (IYMM-15.0), IHEAD)
      CALL SETKSZ (5.0)
      ENCODE (IHEAD, 2001) ITITLE
 2001 FORMAT('/',12A4,'/')
      CALL PTEXT (20.0, (IYMM-8.0), IHEAD)
С
   SET UP THE WINDOW AND VIEWPORT SO THAT DATA RANGE
С
С
   IS SCALED TO FIT PLOTTING AREA
С
C
      CALL WINDOW(XLO, XHI, YLO, YHI)
      CALL VPORT (20.0/IXMM, 1.0, 20.0/IYMM, (IYMM-20.0)/IYMM)
      CALL CLIP
```

JIF.FOR (continued)

```
C
ĉ
C
C
   PLOT THE LINE(S) REPRESENTING INPUT DATA VALUES VARYING THE LINE STYLE FOR EACH DATA SET
С
С
      NLT = 1
      DD 350 I = 1,M
         IF (NLT.GT.NLTYPS) NLT = 1
          CALL SETLTP(NLT)
DO 347 J = 1,N
             XDATA(J) = X(I,J)

YDATA(J) = Y(I,J)
  347
         CONTINUE
        CALL PLINE (XDATA, YDATA, N)
         NLT = NLT + 1
  350 CONTINUE
С
      CALL FLINE(X,Y,N)
CLOSE DOWN THE PRINTER
      CALL WUPDTE
CALL GESCPE(3)
      CALL WCLEAR
CALL WCLOSE
      RETURN
      END
C
C-
               C
```

End Listing

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APPENDIX 2

Glossary of Key Variables and Matrices

<u>Yaciable</u> <u>Name</u>	<u>Yariable/Matrix_dimension</u>	Yaciable/Matrix Function
I	=1(2nd guarter year 1984)67(4 quarter year 2000)	Controls quarterly cycling of program
3	=1(5-9 yrs),2(10 yrs), 3(11 yrs)9(17 yrs)	Represents age categories in Conviction Rate Matrix
K -	=1(Nale),2(Female),3(Total)	Represents sex categories in Conviction Number output Matrix
L	=1{Momocide}},2{Grevious Assault}22{Care & Control Application} ISee Appendix 5}	Represents offence categories
H .	≠1(police caution),2(dismissed/withdrawn)23(48+ month detention). [See categories in Table 4]	Represents court disposition categories
N1	=1(0(3 sths), 2(1(6 sths)	Sentence length categories in output
IPOP(J,K)	⇒general POPulation in year 1, by age (J) and sex (K)	Provides the population estimates for quarter being forecast
ICRATE(J,K,L)	=Conviction RATEs per 10,000,000 population by age (J), sex (K) and offence (L)	Matrix contains conviction rate data
NCONV (J, K, L)	=Number of persons CONVicted, by age (J), sex (K) and offence (L)	Matrix contains conviction number estimates
NIDISP(H,L)	=Number of persons # DISPosition, by disposition (N) and offence (L)	Matrix contains disposition number estimates
DISP(N,L)	=DISPosition rates (percentages) by disposition (M) and offence (L)	Matrix holds disposition rate data
PRSEED(W1,N)	=PRISoners Expected Eligibility Date, by head sentence (N) and actual expected time to serve (N1)	Matrix contains input sentence length categories to output categories
NPREEC(N1, I)	=Number of PRisoners RECeived in guarter 1, by time to serve (M1)	Matrix contains number of detainees received
NPRNDW (W1, 1)	=Number of PRisoners NOW (i.e. on hand at end of quarter I, by time to serve (N1)	Matrix contains number of detainees on hand

APPENDIX 3

Table 1

.

A.B.S. Queensland Juvenile Population Estimation 1970 - 2000 High Projection

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l Yea	art I	No.	10	- 1	7	year	olds	ł
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1	I							ł
1 197	70		2	801	73			Ľ
1 197	71		2	866	88			1
1 197	72 I		2	953	21			ŀ
1 197	73		3	027	68			ł
1 197	74 I		- 3	096	22			L
197	75 :		3	130	44			1
197	76 I		3	151	50			ł
197	77		- 3	175	30			ł.
197	'8 ¦		3	192	92			J
197	79		3	219	85			ł.
1 198	30 (3	263	27			1
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1 1 9 8	32 1		3	484	35			ţ.
1 1 78	93 I		3	564	77			L
1 198	34 ;		Ľ	613	19			1
198	35		3	618	24			ł.
198	36 I		3	595	65			ļ.
1 198	37		3	548	32			1
198	38 1		3	484	11			ļ
: 198	37 (3	288	04			ſ
199	90 1		3	292	47			ł
175	71		3	229	61			I.
199	72		3	190	46			l
1 199	93 I		3	183	31			1
199	24		3	178	97			ł
1 1 9 9	75 :		3	198	21			3
199	76		3	223	25			I.
199	77		3	256	05			1
1 1 7 9	78		3	290	50			1
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1 200	90		3	340	18			;
	u==== =			***	==			1

1 23.5.2

Table 2 *

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A.B.S. Population Projections, Bld, Years 1984-2000 (High Estimates)

Age in Years Age in Years that have

				Year	Øtr.	Sex	5-9	1 <u>9</u>	11	12	13	14	15	16	17
			1.1.4	1004	1		107077	22150	17250	71544	24/07	77461	9974B		
				1704	2	n r	100021	21212	20207	24244	29073	23401	22/00	21070	21324
	ŋ :		21	5 !	•	r T	15277	11313	16710	10070	20111	12412	21840	71534	20303
-	ĸ			1004	7	1° 11	102502	10470	91/68	90222	404/0	40810	44000	92/00	4168Y
4	10.1	1	4	1704	<u>з</u>	n et	102002	22920	20101	29221	24034	23/22	22878	21723	21494
ć	ii ii		2 2	č –		τ: Τ	7//01	47107	22100	200/0	23/31	22/32	X1482	21232	20329
2. e	Г <u>и</u> .		4 2			- 12 - 11(*	107170	13003	-990E/ -990E/	97071	90400	904/9	99000	90107	-91922 -
			• •	1704	19 1	- 01 - E -	102130	22179	00711	23070	24013	29893	20444	22181	21480
	t		•		ţ.,	्र हार्च जार्च	100703	11444	44077	73403	20120	72045	22123	21404	20075
	с 1,			1005	-	N:	141104	10204	15001° 15001	40701 33575	70099	7/100	43174-	93010	921/8
11.1				1703		E	101074	2170Z	220V4	103/3	242/0	21001	20217	22400	21303
	1.1.1		, , , , , , , , , , , , , , , , , , ,		,	с Т.	100475	10103 17015	11111	11770	10075	10401	ACADA	11000	470J/
1.				1005	· ŋ	1 	101750	1200J	·999257	10230	104/J	7//70	13700	110/07	71/4/
			- 3 M - Ú	- (, 1303 - (, 1303	. "	- 11 ° - 12 /	101230	21130	- 21213 - 21213	20200	29331	2400J .57775	20010	22072	21040
	e je		1.54	4 N.		- Γ΄ - Τ΄	1078LL	40100	41012	45701	20074	10453	1570L	11030 21030	1022
	1.	'n		1905	ँर	N.	17/400	21541	-10700 -10760	4J/01 57161	74211	HOHUT DALAL	-13170 77711	14020	72000
.1	1.4		\	- 418 - 816		11 E:	101101	21341	.71175	20101	27217	21010	20111	21002	19713
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107						10 10	17/10/	74001	075570 60100	90109	4/J00 97001	10072 74107	1013/	94040 07070	40124
3		7 53	•	23.17 0 0	19 1	- 11- E-	170703	212/3	22107	22730	20071	29007	-24897: -22001	23032	2210/
6 .	·		-stin') (A.	24.88	- F - 71	101010	29234	47000	210/0	20004	10/21	23080	22110	21920
	46.5		0103		- 4	- 1 	100027	41307	40227	99828	45700	98228	9/110	90109	40082
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						F	106397	20713	20564	20517	20474	20453	20397	19/34	14400
						ł	- Z18430	42513	5 42284	42396	42053	91460	41646	49364	6411AD

C Pr file QJORATE comprises numeric contents similar to those in this Table.

* The file QJPOPA comprises the numeric contents similar to those in in this table.

Table 3 *

Qld. Juvenile Offence Rate from Analysis of Court Statistics

(number per 10,000,000 of population)

Age in Years

			5-9	19	11	12	13	14	15	16	17
1.	HOMICIDE ETC.	M	0	0	0	0	405	0	881	1384	0
		F	0	0	9	0	9	0	0	0	0
2.	GREVIOUS ASSAULT	H	0	Û	0	0	2025	2564	5284	7383	469
		F	0	0	0	9	421	446	458	1427	0
3.	DRIVER ASSAULT	H	0	Û	0	0	9	0	0	θ	0
		F	0	0	0	0	9	9	0	0	9
4.	GENERAL ASSAULT	Ň	0	0	1720	1630	2835	14529	36551	72450	1876
		F	Ø	A	A	A	2944	1785	14649	19496	9
5	SEXILAL ASSAULTS	Ň	Â	Â	Â	Â	8504	26922	14992	33687	Â
	SEXEME HOUNDERD	Ę	Å	Å	à	ŭ	6. A	A	A	Â	Å
ı			Å	v ۵	А	e e	۰ ۵	1709	5284	5539	Å
۰.	CHANNE KNUNCEDOE	וו ד	۷ ۵	Å	۷ ۵	0 0	Δ	1111	0201	5500 à	0 A
,	DODOCOV AND EXTRETION	Г М	0	v 0	v 0	v 4	010	1202	7687	5000	v 0
7.	RUBBERT HAD EXTORISON	n r	9 A	7	0	0	010	1707	2042	1777	0
•		r M	V A	0	V A		1005	7716	110	1447	1001
Ø,	FRAUD AND MISAPPROPRIATION			0	Q.	0	22/5	/200	197/0	30/03	4221
		1		9	9	9	2202	9 55101	3002	29231	U 4100
9.	U.U.N.V.	5		882	2150	5/64	20013	33126	000/0	11/6/4	9070
		F	8	0	0	845	2103	4988	5035	1988	
10.	STEALING	M	0	16330	58042	99413	165634	297423	346574	448085	20165
		F	0	11260	21380	49835	208605	221310	388647	370423	11785
11.	UNLAWFUL POSSESSION	M	0	1324	3440	6519	17009	23503	40074	39686	2814
		F	0	θ	0	0	3785	5354	8240	9986	0
12.	BURGLARY	N	9	11916	27086	56225	116632	196145	244467	274573	12662
		F	θ	1407	2672	10136	12617	18740	32959	24251	0
13.	ARSON	H	0	441	0	0	810	855	1321	923	469
		F	0	9	θ	θ	9	Ð	0	8	` 0
14.	PROPERTY DANAGE	Ħ	0	2648	4729	6926	26728	32905	72221	103369	7972
		F	0	Û	9	9	2523	4908	14191	9986	0
15.	DRINK DRIVING	Ň	9	0	0	0	8	B55	4844	23073	469
		F	ð	0	9	9	0		0	1902	0
14.	DANGEROUS DRIVING	Ň	â	Â	A	Â	6	427	1761	9229	938
101		F	Â	Â	Â		A		0	9	A
17	NTHER TRAFFIC DEFENCES	N	Å	Å	430	815	2430	- 1111	63414	155515	39861
111	UTHER INNEED OF LIGED	F	à	· · · Å	Â		A	446	3667	6657	2455
19		Ň	Å	à	Â	Ă	1215	6410	24221	94139	3752
101	Digo Di Choco	F	Å	Å	Å	Å	1682	1785	5951	20447	A
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		F	204	469	871	2112	6309	14278	4100	23/8	A A

* The file QJORATE comprises numeric contents similar to those in this Table.

Disposition Matrix

Table 4 *

than 2 detention n 12 ention c C 5 than 24 detention C than l detention fior fior detention n 48 n tior 5 ō detentio 5 <u>آ.</u> بلای δ ы. Т. - ----ېن than Cautio æ a C 20 د <mark>۵</mark> C ۵ ^tðrde then deter ance ຕພັ തല് Supervision sthe utior defe defe thar deta that סס 5 etentions ŪΕ ×9 00 and a set of عα ₽→ N σ mmunit rvice re and ntrol ىت 60 00 • σ Ø Ø olice 0-less months l-less months -less onths 3-leas months atitı stitı 4-less months C04 .40 <u>6</u>0 έ നന 00 თთ 00 លល ຕທ თთ Ωн 5-less months 6-less months 12-1es months 24-1e5 months 36-les months -less 8-les en 1 ---DTAL E E E E E ц цо щΟ 80 00 OHU TH øн ÷ΗΦ ဝစ م 03 تغنيا ūū NE OE HE. 30 F ع 9.09 9.89 0.00 9.09 0.00 0.00 0.08 0.00 8.80 0.00 0.00 100.0 1. HONICIDE ETC. 18 . 18 18.18 0.00 0.00 18.18 ê. 66 9.99 0.00 18.18 0.00 0.00 1.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00 34.55 9.09 7.27 16.36 9.09 9.09 3.54 1.82 2. GREVIOUS ASSAULT 8.90 0.00 5.64 0.00 9.09 3.64 ê. HQ 0.00 0.00 0.00 0.00 100.0 0.00 6.00 0.00 0.00 A.00 6.66 . 96 0.00 **8.66** 0.00 0,00 0.00 0. **90** 3. DRIVER ASSAULT 0.00 0.00 6.88 8.99 θ. 0.51 0.25 0.00 0.00 0.00 0.00 100.0 3.554.57 0.25 2.28 1.78 2.79 0.51 0.00 0.00 1.27 0.00 15.74 0.00 0.00 0.90 1.02 4. GENERAL ASSAULT 65.48 0.40 A. 6ú 6.69 0.00 100.0 2.55 1.53 1.53 0.00 0.00 0.00 1.53 6.63 9,99 0.00 0,90 0.08 0.00 0.00 0,00 0.00 9.90 5. SEXUAL ASSAULTS 86.22 0.00 0.00 0.00 0.00 160.6 3.13 0.00 12.50 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 18.75 0.00 0.00 0.00 0.00 0.00 **6. CARNAL KNOWLEDSE** 62.50 3.15 0.00 100.0 0.00 0.00 0.00 0.00 0.00 0.00 20.83 20.83 16.67 60 4.17 4.17 0.00 0.00 8.00 7. ROBBERY AND EXTORTION 0.00 0.00 20.83 0.00 8.00 0.00 θ. 12.50 0.00 100.0 0.00 0.00 1.31 3.06 0.00 0.00 0.00 0.00 9.00 6,66 0.00 0.00 0.00 0.00 0.00 9.00 B. FRAUD AND MISAPPROPRIATION 85.5? 0.00 7.61 8.00 0.00 0.44 0.00 100.6 7.18 16.22 0.00 0.00 0.00 9. U.U.H.V. 0.00 9.44 5.72 3.46 0.80 0.80 1.06 0.40 0.90 0.00 33.91 0.66 0.00 17.02 0.90 0.00 1.73 0.29 0.00 0.60 6.66 100.0 0.19 0.80 1.58 1.32 1.92 9.16 0.08 9.95 0.05 0.05 6.66 0.05 8.98 10. STEALING 88.52 0.21 0.00 5.46 8.99 0.00 0.00 0.00 0.00 100.6 7.49 9.32 8,80 0.00 0.00 0.00 0.00 0.00 8.00 .00 0.00 8.00 20.27 ê.00 0.82 0.00 11. UNLAWFUL POSSESSIÓN 61.64 9,55 0.90 0.25 0.00 0.00 0.00 0.00 100.0 0.33 0.00 9.36 9.86 3.38 0.95 0.29 0.12 0.25 0.12 0.0B 9.00 0.00 19.55 0.00 9.00 12. BURGLARY 54.95 0.50 0.00 100.0 0.00 8.68 8.00 6.66 0.09 0.00 0.00 0.00 23.81 23.81 14.29 0.00 0.00 0.00 99 13. ARSON 0.00 9.52 0.00 28.57 0.00 9.99 0.00 100.1 1.22 1.37 0.00 0.00 0.00 0.76 0.00 4.5B 1.53 3.82 0.00 0.00 0.00 0.15 0.00 0.00 14. PROPERTY DAMAGE 86.60 0.31 9.00 5.80 0.00 0.46 9.00 199.0 0.00 0.00 0.90 5.96 1.27 -1.270.00 0.00 0.00 0.00 0.00 0.00 9.00 0.00 15. DRINK DRIVING 0.00 2.55 8.00 25.32 0.00 0.00 64.56 0.00 0.00 0.00 0.00 100.0 0.00 64.52 0.00 9.65 6.45 9,09 0.00 0.00 6.66 0.00 0.00 0.00 0.00 0.00 0.00 15. DANGEROUS DRIVING 0.90 6.90 0.00 19.35 0.00 0.00 0.00 100.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 17. OTHER TRAFFIC OFFENCES 0.00 1.01 9.00 65.15 0.00 0.00 32.83 0.00 0.34 0.67 0.00 0.00 9,02 0,00 0.00 100.0 8.88 32.13 5.91 2.57 1.80 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.08 **18. DRUG OFFENCES** 52.19 1.29 0.00 0.26 3.86 6.68 0.00 100.0 9.00 0.00 9.90 0.00 0.00 0.80 **19. FIREARM OFFENCES** 9.00 0.00 60.00 9.90 0.00 8.00 0.00 12.00 12.00 0.00 0.00 0.00 0.00 0.00 0.00 9.00 0.00 100.0 0.00 1.91 3.06 0.76 0.00 0.00 0.00 0.00 0.00 0.00 6.90 0.00 0.00 0.00 9.00 20. OTHER OFFENCES 33.65 1.34 8.09 49.52 0.00 0.38 9.37 0.00 100.0 0.00 0.00 0.00 0.00 18.52 4.21 3.54 1.35 1.18 1.01 0.67 0.00 0.00 0.00 0.00 0.00 21. CARE AND PROTECTION APPLIC. 0.00 10.10 0.00 59.43 0.00 0.00 22. CARE AND CONTROL APPLIC.

* The file QJDISPP comprises the numeric contents of this Table.

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APPENDIX 4

APPENDIX 4

This is an **Example of File "JSCENEJ"**. It incorporates the Four Tend Scenario which produced the output which follows below.

.123 .000 1.00 11 300	
- 65 34 12 9 3 3 4 8 3 8 1 8 8 8 4 4 4 4 4	•
JUVERILE INSTITUTION FORECASTING (JIF) NODEL	
1984-2000 : TEST DATA, FOUR TREND SCENARIO, A.O.S. POPH F'EST TO YR 2000	
5 1 22 L 9 Ø .04 ###### 1984 03 GROWTH IN NUMBERS APPEARING BEYOND	POPULATION GROWTH
5 18 18 6 9 0 .245 ***** 1984 D4 INCREASE OF MALE &FEMALE DRUG OFFET	IDING RATE
5 19 19 S 9 0 ,245 DECEMBER 1994 DA INCREASE IN FIREARN OFFENCES	
3 9 12 3 P 0 .024 DARROW 1984 84 INCREASE IN PROPERTY OFFENDING BEAS	S EIC.
5 22 22 5 9 0 .024 saassa 1994 94 INCREASE IN PROPERTY OFFENDING BEA	S EIC.
5 1 22 1 9 0 .04 ***** 1985 83 GADVIK IK KUMBERS APPEARING BEYOND	POPULATION SROWTH
5 18 18 5 9 0 .245 FOFFER 1985 D4 INCREASE OF MALE &FEMALE DRUG OFFER	NDING RAIE
5 19 19 5 9 8 .245 AAAAAA 1985 DA INCKEASE IN FIREARN OFFENCES	
	B E IL.
5 22 22 5 Y V , 424 IFFIT 1995 94 INCREASE IN PROPERT OF FADIAU PER	3 til.
3 18 18 8 Y W .243 PERFECTION OF THE REAL PROPERTY IN STREAM REFERENCE	NV (199
	3 E10, E \$10
J 24 22 J Y W ,W24 Setted 1986 B4 (ALKENSE IA FRUFERI UTERVIAG DES	DEIG. Onder Alling Convil
	NUTRE CONTRACTOR CONTRACTOR
J IN IN 6 7 9 .243 INNER 1007 OF INCLOSED IN BRADEDIN ALLONG UTTE	
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S IN IN A G A II AAAAAA IGO DI AMAGACA MI AAAA BARAA DI GA	NDING
	N POPULATION GROWTH
S IN IN A 9 A	RELINE

Computer Output of JIF Model

The next fifteen pages are an example of the computer printed output of the JIF model. An example of the graphical output follows:

JUVENILE INSTITUTION FORECASTING (JIF) NODEL 1984-2000 : TEST DATA, FOUR IREND SCENARID, A.D.S. QLD POPN FCST TO 2000

****** 1984 Q3 GROWTH IN NUMBERS APPEARING BEYOND POPULATION GROWTH

1.00	PER	CENT	CHANGE	1N	CONVICTION	RATES	FOR	HDKLCTDE	COLUMNS	1	10	9
1.00	PER	CENT	CHANGE	ĬŇ	CONVICTION	RAIES	FOR	GRV. ASSAULT	COLUXINS	Ì.	łŌ	Ŷ.
4.10	PER	ČĒNĪ.	CHANGE	İŇ.	CONVICTION	RAIES	FOR	DRY. ASSALL T	COLUMNS	Ť.	İŌ	ġ
4. 86	PFR	CENT	CHANSE	i)i	CONVICTION	RATES	FOR	MIN. ASSAULT	COLDANS	i	10	Ŷ.
4 04	PCP	CENT.	CHANGE	iii.	CONVICTION	PATES	FOR	T BIAZZA 132	CULINNINS	i	iñ	é
1.14	958	rent.	CHONES	iñ.	CONVICTION	BATEC	rnë.	COCH NUMBER	COLUMNS	1	iň	é
1 44	020	TENT	CHANCE		CONVICTION	PAISS	5 00	005 - ETIORT	COLONING	÷	iň.	é
1 44	200	CENT	CHANCE	12	CONVICTION	DATES	500	CONTR_HICCAD		- 1	th	ė
1.00	PER	CENT	CHARLE	10	CONVICTION	DATEC	100	TRAUV-DIJJAU		-	iň	ć
1.00	DEB	CENT	CUANCE	-12	CONVICTION	DATES	100	CICAL HE	COCUMNS	1	10	ł
1.10	DCB	CENT	CHANCE	10	CONVICTION	RHIEJ	ron	DIENCING	COLUNING	-	10	
1.46	TE I	LENI	CHHHHDC	10	CONVICTION	CHICO	104	UNLAW PUSSES		-	10	7
4.90	PER	LENI	CHANGE	İK	CONVICTION	KRIES	FUK	DUHGCART	LULUIUNS		Ιų.	1
1.10	PŁR	CERI	CHANGE	11	COMPLETION	RAIES	FON	ARSUN	LOLUNKS	ł	10	ž
1.16	PER	CENI	CHANGE	18	CONAICIIDS	RAILS	FOH	PROPERIT DAM	CUCULINS	ł	10	ž
4.66	PER	CENT	CHANGE	19	CONVICTION	RATES	FOR	DRINK DRIVIN	COL UMHS	1	10	1
4.99	PER	CENT	CHANGE	10	CONVICTION	RAIES	FOR	DANG. DRIVIN	LOLUNKS		10	1
4.99	PER	CENT	CHANGE	18	CONVICTION	HAILS	FOR	OTH. IRAFFIC	CULUMIS		10	Ĭ
4.99	PER	CENT	CHANGE	-14	CONVICTION	RAIES	FOR	DRUG DEFNCES	COLUMNS	i	10	1
4.99	PER	CENT	CHANGE	- I N	CONVICTION	RAIES	FQR	FIREARN OFFS	COLUMNS		10	1
4.98	PER	CENT	CRANGE	18	CONVICTION	RATES	FOR	OTHER OFFNES	COLUMNS	1	10	1
1.09	PER	CENT	CHANGE	10	CONVICTION	RATES	FOR	CAP APPLICAT	COLUMNS	1	10	1
4.98	PER	CENT	CHANGE	- 1 N	CONVICTION	RATES	FDR	CLC APPLICAT	COLUMMS	- 1	¥Ð.	- 9

NUMBER OF P	ERSONS	APPE	ARING	BY AGE,	SEX	AND NO	DST SEA	RIOUS	OFFENCE	- 90	EENSLAND	- 91 <u>8</u> .	NQ.3	1994
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CARN KNONLI	SE _	Å	•	•				13		•	50			
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	A F	0		9	0	18	18	35	87	2	167			
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	f	ě	2	5	17	าไ	145	214	282	10	746			
SIEALINS	X	9	38	-140	254	425	724	619	1010	45	3454			
	F	8	25 63	50 190	123	516 941	516 1240	083 1791	810 1920	25 70	2948 6492			
unlaw possi	ES Í	8	3	8	17	44	57	95	69		319			
	Ë		ě	ě	17	9 53	12	19	22	,	62			
BURGLARY			28	**	144	194	477	577	419	79	2239			
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eda ULITIR		6	1	IZ	ię	24	37	27	12		135			
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	Ť	300	137	335	668	1629	2410	3562	4667	270	14005			

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HOMICIDE											0-l	1-2	2-3	3-4	4-5	5-6	6-9	9-12	12-18	18-24	24-36	36-48	48+	UTHE .
ERV. ASSAULT	•	1	9	1	0	8	9	Ð	1	્ t	8	0	1	0		8	0		0	8	1	I.		7
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oturn ofcun		ì	0	10	8		i	0	2	2	9		0		0		9			8				15
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NUMBER OF JUVENILES BY KOST SERIOUS OFFENCE AND DISPOSITION - DUEENSLAND - DTR. NO.3 1984

DETAINEES RECEIVED	DURING	018.	ND.3	1984,	AND DE	TAINEE	S ON H	IAND AT	END O	F OTR.	- BY	tine r	EMAINII	16 TO	SERVE.	(MONTHS)	
0-3 3-6 6-9 DETAINEES RECEIVED:	9-12	12-15	12-18	18-21	21-24	24-27	27-30	30-33	33-39	36-39	39-42	42-45	45-48	48-51	51-54	54-57	57+	TOTAL
261 26 5 DEIAINEES DN HAND:	2	I	I	0	0	0	9	I	0	Û	Û	•	8	9	\$	9	0	297
67 38 14	5	- 1	1	0	3		1	1	1	9		0	8		0	ê.		134

****** 1984 04 INCREASE OF MALE AFEMALE DRUG OFFENDING RATE

24.50 PER CENT CHANGE IN CONVICTION RATES FOR DRUG OFFNCES COLUMNS & TO 9

ANNANA 1984 B4 INCREASE IN FIREARN OFFENCES

24.50 PER CENT CHANGE IN CONVICTION RATES FOR FIREARN OFFS COLUMNS 5 TO 9

****** 1984 84 INCREASE IN PROPERTY OFFENDING BEAS ETC.

2.40	PER CENT	CHANGE	IN	CONVICTION	RATES	FOR	U.U.K.V.	COLUMNS	5	10	9
2.40	PER CENT	CHANGE	IN	CONVICTION	RATES	FOR	STEALING	COLUMNS	5	TŌ	9
2.40	PER CENT	CHANGE	1N	CONVICTION	RAIES	FOR	UKLAW POSSES	COLUMNS	5	10	9
2.40	PER CENT	CHANGE	EN	CONVICTION	RATES	FOR	BURGLARY	COLUNKS	5	10	9

****** 1984 84 INCREASE IN PROPERTY OFFENDING BENS ETC.

2.40 PER CENT CHANGE IN CONVICTION RATES FOR CAC APPLICAT COLUMNS 5 TO 9

DETAI	INEES	5 RECI	EIVED	DUR I NG	QIR.	NO. 2	1985,	AND DE	TAINEES	S ON I	HAND AT	END D	F DIR.	- 8Y	11KE R	ENGININ	16 TQ	SERVE.	(MONTHS)	1	
TIME	RENA	A EN IRI	6:				-														
0-3	1 3	-6	6-9	9-12	12-1	5 15-18	18-21	21-24	24-27	27-3	0 30-33	33-38	36-39	39-42	12-15	45-48	48-51	51-54	54-57	57+	TOTAL
DETAI	NEE:	S_RECI	EIVED:	_	_																
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DETAI	INEES	<u>5 0</u> H 1	HAND:	_			_														
- 70		37	8	5	6	Ţ	2	1	6	1	•	L	8	1	1	9	0	0	1	1	133

****** 1985 03 GROWIN IN NUMBERS AFPEARING BEYOND POPULATION GROWTH

4.00	PER	CEHT	CHANGE	IX	CONVICTION	RAIES	FOR	HOMICIDE	COLUMNS	1	10	9
4.00	PER	CENT	CHAIIGE	18	CONVICTION	RAIES	FÓR	GRY. ASSAULT	COLUMKS	İ	ŤÒ	9
4,00	PER	CENT	CHANGE	11	CONVICTION	RAIES	FOR	DRY. ASSAULT	COLUMNS	-È	1Ō	9
4.08	PER	CENT	CHANGE	1N	CONVICTION	RATES	FOR	MIN. ASSAULT	COLUNHS	Ĩ.	1Ō	ġ.
4.00	PER	CENT	CHANGE	1X	CONVICTION	RAIES	FDR	SET ASSAULT	COLUMNS	- İ	ŤŌ	ģ
4.65	PER	CENT	CHANGE	ÎŇ	CONVECTION	RAIES	FOR	CARN KNOKLEF	COLUMNS	i	10	ġ
4.44	FFR	CENT	CHANGE	ÎŇ	CUNVECTION	RAIFS	FOR	ROR FITORT	COLUMNS	-i	10	d.
4.98	PFR	CERC	CHANEF	1ñ	CONVICTION	64165	FOR	FRAND-RISSAP	COLUMNS	i	iñ	ģ.
4.88	PER	CENI	CHANGE	İŇ	CONVICTION	RAIES	FOR	0.0.N.V.	COLUMNS	i	iñ	ģ
4.80	PER	CENT	CHANGE	1N	CONVICTION	RAIES	FOR	STEAL ING	COLUMNS	i	ίŏ	é
4.88	PER	CENT	CHANGE	1M	CONVICTION	RAIES	FOR	UNLAW POSSES	COLUNNS	i	1D	Ŷ
4.60	PER	CENT	CHANGE	Đ	CONVICTION	RAILS	FOR	BURGLARY	COLUMNS	Ĩ	ίŌ	ġ
4.09	PER	CENI	CHANGE	Ĥ	CONVICTION	RATES	FDR	ARSON	COLUNHS	Ť	ίŌ	ģ
4.00	PER	CENT	CHAHGE	-İN	CONVICTION	RAIES	FDR	PROPERTY DAM	COLUMNS	- È	ÍĎ	9
4.00	PER	ĊĒNI	CHANGE	1H	CONVICTION	RATES	FDR	ORINE DRIVIN	COLUMNS	Ĵ.	ŤŌ	9
4.00	PER	CENT	CHANGE	H	CONVICTION	RAIES	FOR	DANG. DREVIN	COLUMNS	1	ŧŌ	9
4,00	PER	ČĒNI	CHANGE	- İ N	CONVICTION	RATES	FDR	OIH. TRAFFIC	COLUMNS	- È	10	9
4.00	PER	CENT	CHAIIGE	18	CONVICTION	RAIES	FOR	DRUG OFFNCES	COLUMNS	-i	10	9
4.08	PER	CENT	CHAKGE	IN	CONVICTION	RAIES	FOR	FIREARN OFFS	COLUXINS	Ĵ.	tō	9
1.00	PER	CENT	CHARGE	18	CONVICION	RAJES	FOR	OTHER OFFNCS	COLUMNS	- İ	1Ō.	9
4.88	PER	CENF	CHANGE	- N	CONVICTION	RAIES	FOR	CAP APPLICAT	COLUMNS	Ĩ	10	9
4.00	PER	CENI	CHANGE	1Ň	CONVICTION	RAIES	FOR	CLC APPLICAT	COLUNKS	i	ŤŌ	ġ

****** 1985 04 INCREASE OF MALE AFEMALE DRUG OFFENDING RATE

24.50 PER CENT CHANGE IN CONVICTION RATES FOR DRUG OFFICES COLUMNS & TO 9

****** 1985 B4 INCREASE IN FIREACH OFFENCES

24.50 PER CENT CHANGE IN CONVICTION RATES FOR FIREARM OFFS COLUMNS 5 TO 9

****** 1985 Q4 INCREASE IN PROPERTY OFFENDING BELS ETC.

2.40	PER CENE	CHANGE	IN	CONVICTION	RATES	FOR	U.U.M.V.	COLUMNS	-5	10	9
2.40	PER CENT	CHANGE	N	CONVICTION	RATES	FOR	SIEALING	COLUMNS	-5	10	9
2.40	PER CENT	CHANGE	11	CONVICTION	RAIES	FOR	URLAW POSSES	COLUMNS	-5	10	9
2.40	FER CENT	CHANGE	IH	CONVICTION	RAIES	FOR	BURGLARY	COLUXINS	5	ŦD	9

****** 1985 Q4 INCREASE IN PROPERTY OFFENDING BEAS ETC.

2.40 PER CENT CHANGE IN CONVICTION RATES FOR CAC APPLICAT COLUMNS 5 10 9

DETAINEES RECEIVED DURING ØTR. NO.2 1988, AND DETAINEES DN MAND AT END OF RTR. - BY TIME REMAINING TO SERVE. (MONTHS) TIME REMAINING: 0-3 3-6 6-9 9-12 12-15 15-18 18-21 21-24 24-27 27-30 30-33 33-36 36-39 39-42 42-45 45-48 48-51 51-54 54-57 57+ TOTAL DETAINEES RECEIVED: 269 29 5 DETAINEES ON HAND: 70 39 12 2 6 L 9 0 9 1 8 . ŧ 9 329 Ł 6 I 9 I 1 0 . . 2 7 . A ê 9 147

****** 1986 B3 INCREASE OF MALE LEFHALE DRUB OFFENDING

24.50 PER CENT CHANGE IN CONVICTION RATES FOR DRUG OFFNCES COLUMNS & TO 9

****** 1986 D4 INCREASE IN FIREARN OFFENCES

24.50 PER CENT CHANGE IN CONVICTION RATES FOR FIREARM OFFS COLUMNS 5 TO 9

1986 R4 INCREASE IN PROPERTY OFFENDING BELS ETC.

2.40 2.40 2.40 2.40	PER PER PER PER	CENT CENT CENT CENT	CHANGE CHANGE CHANGE CHANGE	IN IN IN IN	CONVICTION CONVICTION CONVICTION CONVICTION	RATES RATES RATES RATES	FOR For For For	U.U.N.V. STEALING UNLAW POSSES BURGLARY	COLUMNS Columns Columns Columns	555	10 10 10 10	9999	
2.90	LCU.	LCUI	CUMUDE	LA	CONTICITOR	RHIES	run	olynol, MR P	Corouna	3	10	1	

****** 1986 D4 INCREASE IN PROPERTY OFFENDING BELS ETC.

2.40 PER CENT CHANGE IN CONVICTION RATES FOR CLC APPLICAT COLUMNS 5 TO 9

DETAINEES RECEIVED	DUA LNG	OTA. I	10.2	1987,	AND DE	TAINEES	S ON H	AND AT	END D	F QIA.	+ BY (JINE RI	MAINER	18 TO 1	SERVE.	LKONTHS)	
TINE RENAINING								34 37			70 13	43.45						70741
NEIVINEEC BELEINEU	Y-12	12-15	12-18	10-11	21-24	29-27	27-30	30-33	33-39	20-24	21-45	12-12	42-48	48-21	21-24	34-37	2/1	LATHE
295 29 5	2		3	4			1				9 .			9	9		0	335
DETAINEES ON HAND:	-	•	-	•	•		•											
74 43 10	1	2	- 4	1	•	1	3	1	•	•		•			9			146

****** 1987 Q3 GROWTH IN NUMBERS APPEARING BEYOND POPULATION GROWTH

4.09	PER	CENT	CHANGE	IN	CONVICTION	RATES	FOR	HOMICIDE	COLUNNS	L	10	9
4.00	PER	CENT	CHANGE	ÍŇ	CONVICTION	RATES	FOR	GRV. ASSAULT	COLUMNS	Ĺ	10	9
1.00	PER	CENT	EHANGE	İ.N.	CONVICTION	RATES	FOR	DRY. ASSAULT	COLVANS	1	10	9
1.68	PFA	CENT	CHANGE	İĤ.	CONVICTION	RATES	FOR	HIN. ASSAULT	COLUMNS	i	10	9
1.00	PFR	CENT.	CHANGE	İŇ	CONVICTION	RATES	FOR	SET ASSAULT	COLUMNS	i	İÖ	Ŷ.
4 44	PFR	CENT	CHANGE	18	CONVECTION	PATES	FOR	CASH KHONI GE	COLUXINS	i	İŌ	9
1 44	DCD	CENT	LAURA	İN	CONVICTION	SAILS	FOR	POR - FITORI	COLUMNS	ī	İŌ	9
1 44	DED	CENT	CHANCE	12	CONVICTION	PAICO	FOR	FRAND-HISSAP	COLUMNS	i	iñ	ġ
1.00		CENT.	CHANCE	tü	CONVICTION	DATEC	200			-1	iň	é
1.00	000	CENT	CHANCE	15	CONVICTION	DATEC	100	CTCAS INC		1	iň	ó
1.40	L C C C	CENT	CHANCE	10	CONVICTION	DATEC	r un	JILNEIRD	COLUMNS	1	10	6
4.69	FFN	LENI	CHANGE	14	LUNYILIIUN	XAICS	PUK	UNLAW PUSSES	LULUANS		10	ž
4,90	FEN	CENT	CHANSE	1N	CONVICTION	RAIES	FOR	FURGLANT	COL UNH2		IN.	Ţ.
4.00	PER	CENT	CHANGE	38	CONVICTION	RATES	FOR	ARSON	COLUMNS	ļ	łO	9
4.00	PER	CENI	CHANGE	18	CONVICTION	RATES	FOR	PROPERTY DAM	COLUMNS	-1	TQ.	9
4.00	PER	CENI	CHANGE	- LH	CONVICTION	RATES	FOR	DRINK DRIVIN	COLUNXS	1	10	9
1. AA	PER	CENT	CHANGE	ÎŇ	CONVICTION	RAIES	FOR	DANG. DRIVIN	COLUMNS	1	10	9
4.44	PFR	CENT	CHANGE	ÎÑ	CONVICTION	RATES	FOR	OTH. TRAFFIC	COLUMNS	Ē	1Ô.	9
4. 66	PFA	CENT	CHANGE	ÎĤ	CONVICTION	RATES	FOR	DRUG OFFNCES	COLUMNS	Ē	ŤŌ	9
4 66	DEB	FENT	CHANGE	İN	CONVICTION	PATES	FOR	FIREARN OFFS	COLUMNS	ī	İŌ	ģ
1.00	000	CCN1	CUANCE	- 12	2010121101	DATEC	COP	DINCO OFENCE		- i	iň	é
7.00	TEA	LENI	CINCIPLE	-12	CONTICTION	DATES	500	CID APDI ICAT		- 1	iñ	6
1.08	I LK	LENI	LINANDE		LUNYLLILUN	RHICS	run	CAR HEFLICHI	COLUMNS		10	1
4.09) PER	CENI	CHANGE	11	CONAICLION	MAIES	NUX	LEL APPLILAT	LULUNKS	- 1	10	1

****** 1907 03 INCREASE OF MALE AFEMALE DRUG OFFENDING

24.50 PER CENT CHANGE IN CONVICTION RATES FOR DRUG OFFICES COLUMNS & 10 9

****** 1987 04 INCREASE IN PROPERTY OFFENDING BENS ETC.

2.40	PER	CENT	CHANGE	IN	CONVICTION	RATES	FOR	U.U.H.V.	COLUNNS	-5	10	9
2.40	PER	CENT	CHANGE	IN	CONVICTION	RATES	FOR	STEALING	COLUNNS	- 5	10	9
2.40	PER	CENT	CHANGE	IH	CONVICTION	RATES	FOR	UNLAW POSSES	COLUNNS	- 5	10	9
2.40	PE8	CENT	CHANGE	LN.	CONVICTION	RATES	FOR	PURGLARY	COLUMNS	-5	10	9

****** 1987 Q4 INCREASE IN PROPERTY DEFENDING BE&S ETC.

2.40 PER CENT CHANGE TH CONVICTION RATES FOR C&C APPLICAT COLUMNS 5 TO 9

iees I	RECEIVED	DURING	BIR.	KO.2	1988.	AND DE	TAINEES	s on Xi	AND AT	END OF	F DTR.	- BY 1	tine ai	EMACHIC	48 TO	SERVE.	inon ths	1	
ENAT	NING:				•														
3-	6 6-9	9-12	12-13	5 15-18	8 18-21	21-24	24-27	27-30	30-33	33-36	36-39	39-42	42-45	45-4B	48-51	51-54	54-57	57+	TOTAL
IEES	RECEIVED	:																	
3	8	3		. 3		Û	•	1		0				9	0				349
IEES	ON HANDI																		
- 4	5 11	6	- 4	6	1	1	2	L	0	•	0	•	0	8	8	•			156
	EES EMAT 3- EES TEES 4	EES RECEIVED EMATNING: 3-6 6-9 EES RECEIVED 30 6 TEES ON HANDI 45 11	EES RECEIVED DURING Enaining: 3-6 6-9 9-12 IEES RECEIVED: 30 6 3 IEES ON HAND: 45 11 6	EES RECEIVED DURING DIR. ERAINING: 3-6 6-9 9-12 12-13 IEES RECEIVED: 30 6 3 0 IEES ON HAND: 43 11 6 4	EES RECEIVED DURING BIR. KD.2 ERAINING: 3-6 6-9 9-12 12-13 15-11 IEES RECEIVED: 30 8 3 0 3 IEES DN HAND: 43 11 6 4 6	EES RECEIVED DURING DIR. KO.2 1980, ERAINING: 3-6 6-9 9-12 12-15 15-18 18-21 EES RECEIVED: 30 6 3 0 3 4 TEES DN HANDI 45 11 6 4 6 1	EES RECEIVED DURING DIR. KO.2 1988, AND DE Emaining: 3-6 6-9 9-12 12-15 15-18 18-21 21-24 EES RECEIVED: 30 6 3 0 3 4 6 EES ON HAND: 45 11 6 4 6 1 1	EES RECEIVED DURING DIR. KO.2 1980, AND DETAINEES Emaining: 3-6 6-9 9-12 12-15 15-18 18-21 21-24 24-27 IEES RECEIVED: 30 6 3 0 3 0 0 0 IEES ON HANDI 45 11 6 4 6 1 1 2	EES RECEIVED DURING DIR. KO.2 1980, AND DETAINEES ON K Emaining: 3-6 6-9 9-12 12-15 15-18 18-21 21-24 24-27 27-30 EES RECEIVED: 30 6 3 0 3 6 0 1 EES ON HAND: 45 11 6 4 6 1 1 2 L	EES RECEIVED DURING BIR. KD.2 1988, AND DETAINEES ON NAND AT Emaining: 3-6 6-9 9-12 12-15 15-18 18-21 21-24 24-27 27-38 39-33 IEES RECEIVED: 30 6 3 0 3 6 0 1 0 IEES ON HAND: 45 11 2 1 0	EES RECEIVED DURING BIR. KD.2 1988, AND DETAINEES ON XAND AT END DY Emaining: 3-6 6-9 9-12 12-15 15-18 18-21 21-24 24-27 27-30 30-33 33-36 IEES RECEIVED: 30 6 3 0 3 0 6 0 1 0 0 IEES ON HAND: 45 11 6 4 6 1 1 2 1 0 0	EES RECEIVED DURING QIR. KO.2 1980, AND DETAINEES ON XAND AT END OF DTR. EMAINING: 3-6 6-9 9-12 12-15 15-18 18-21 21-24 24-27 27-38 39-33 33-36 36-39 IEES RECEIVED: 30 6 3 0 3 6 6 0 1 0 0 IEES ON HAND: 45 11 5 4 6 1 1 2 L 0 0 0	EES RECEIVED DURING DIR. KO.2 1980, AND DETAINEES ON HAND AT END OF DTR BY EMAINING: 3-6 6-9 9-12 12-15 15-18 18-21 21-24 24-27 27-30 30-33 33-36 36-39 39-42 EES RECEIVED: 30 6 3 0 3 0 4 6 1 0 0 0 0 EES ON HANDI 45 11 6 4 6 1 1 2 1 0 0 0	EES RECEIVED DURING DIR. KO.2 1980, AND DETAINEES ON XAND AT END OF DTR BY TIME AU Emaining: 3-6 6-9 9-12 12-15 15-18 18-21 21-24 24-27 27-30 30-33 33-36 36-39 39-42 42-45 EES RECEIVED: 30 6 3 0 3 0 4 6 0 1 0 8 0 0 0 EES ON HANDI 45 11 6 4 6 1 1 2 1 8 0 0 0 0	EES RECEIVED DURING DIR. KO.2 1980, AND DETAINEES ON KAND AT END OF DTR BY TIME REMAINTS Emaining: 3-6 6-9 9-12 12-15 15-18 18-21 21-24 24-27 27-30 30-33 33-36 36-39 39-42 42-45 45-48 IEES RECEIVED: 30 6 3 0 3 0 6 0 0 0 IEES ON HAND: 45 11 6 4 6 1 1 2 1 0 0 0 0 0 0	EES RECEIVED DURING BIR. KD.2 1988, AND DETAINEES ON NAND AT END OF DTR BY TIME REMAINING TO Emaining: 3-6 6-9 9-12 12-15 15-18 18-21 21-24 24-27 27-38 39-33 33-36 36-39 39-42 42-45 43-48 48-51 EES RECEIVED: 30 6 3 0 3 0 6 0 0 0 0 0 0 EES ON HAND: 45 11 6 4 6 1 1 2 1 0 0 0 0 0 0 0 0	EES RECEIVED DURING BIR. KD.2 1988, AND DETAINEES ON NAND AT END OF DTR BY TIME REMAINING TO SERVE. Emaining: 3-6 6-9 9-12 12-15 15-18 18-21 21-24 24-27 27-38 30-33 33-36 36-39 39-42 42-45 43-48 48-51 51-54 iees received: 30 6 3 0 3 0 3 0 0 1 0 8 0 0 0 0 0 0 0 0 iees on Handi 45 11 6 4 6 1 1 2 1 0 0 0 0 0 0 0 0 0	EES RECEIVED DURING DIR. KO.2 1980, AND DETAINEES ON XAND AT END OF DTR BY TIME REMAINING TO SERVE. (MOWITHS EMAINING: 3-6 6-9 9-12 12-15 15-18 18-21 21-24 24-27 27-30 30-33 33-36 36-39 39-42 42-45 45-48 40-51 51-54 54-57 IEES RECEIVED: 30 6 3 0 3 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0	EES RECEIVED DURING DIR. KO.2 1980, AND DETAINEES ON XAND AT END OF DTR BY TIME AEMAINTNES TO SERVE. (MONTHS) EMAINING: 3-6 6-9 9-12 12-15 15-18 18-21 21-24 24-27 27-30 30-33 33-36 36-39 39-42 42-45 45-48 48-51 51-54 54-57 57+ iees received: 30 6 3 0 3 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0

****** 1988 03 GROWTH IN NUMBERS APPEARING BEYOND POPULATION GROWTH

4.80	PER	CENT	CHANGE	TN.	CONVICTION	RATES	FOR	HOMICIDE	COLUMNS	1	10	9
4.00	PER	CENT	CHANGE	ŤN.	CONVICTION	RATES	FÓR	GRV. ASSAULT	COLUMNS	-È	ŤÔ.	9
4.00	PER	CENT	CHANGE	ĴN.	CONVICTION	RATES	FOR	DRY. ASSAULT	COLUMNS	Ì	10	Ŷ
4.80	PER	CENT	CILANGE	Î.N	CONVICTION	RATES	FOR	NEX. ASSAULT	COLUMNS	Ĩ.	10	9
4.00	PER	CENT	CHANGE	1N	CONVICTION	RATES	FOR	SET ASSAULT	COLUMNS	i	ŤÕ	ġ.
4.44	PEP	CENT	CHANGE	ŤN.	CONVICTION	RATES	FÖR	CARN KNOWLGE	COLUMNS	i	10	ģ
6.00	PFP	CENT	CHANGE	İÑ	CONVICTION	RATES	FOR	ROB E11081	COL UMNS	i	ΪŌ	ģ
4.68	PFR	CENT	CHARSE	İŇ	CONVICTION	RATES	FOR	FRAUD-NISSAP	COLUMNS	i	İŌ	ģ
4.98	PËR	ČĒÜÌ	CHANGE	ÌÑ	CONVICTION	RATES	FOR	U.U.N.V.	COLUNINS	i	ŤŎ	ġ
4.44	PER	DENI	CHANGE	ÌN	CONVICTION	RATES	FOR	STEALING	COL UNINS	Ĵ.	İŌ	9
4.00	PER	CENI	CHANSE	ĪŇ	CONVICTION	RATES	FÖR	UNLAW POSSES	COLUMNS	1	ŤŌ	9
1.00	PÉR	CENT	CHANGE	ĴŇ	CONVICTION	RATES	FOR	BURELAKY	COLUMNS	i	10	9
4.00	PER	CENT	CHANGE	İÑ	CONVICTION	RATES	FOR	ARSON	COLUNHS	Ĺ	ŦŌ	9
4.00	PÉR	CENT	CHANGE	ÌŃ	CONVICTION	RATES	FÖR	FROPERTY DAM	COLUMIIS	i	ΤÓ	9
4.00	FER	CENT	CHANGE	ÈN	CONVICTION	RATES	FOR	DRINK DRIVIN	COLUMNS	1	1Ö.	9
4.46	PER	CENT	CHANGE	- ÍŇ	CONVICTION	RATES	FOR	DANG. DRIVIN	COLUMNS	i	İÕ	ģ
4.00	PER	CENT	CHANGE	ÍŇ	CONVICTION	RAIES	FOR	DIH. TRAFFIC	COLUMNS	Ì	10	9
4.44	PER	CENT	CHANGE	IN	CONVICTION	RATES	FOR	ORUG OFFNCES	COLUNNS	Ì	10	9
4.00	PER	CENT	CHANGE	1N	CONVICTION	RATES	FOR	FIREARN OFFS	COL UNINS	Í	10	ġ
4.66	PFR	CENT	CHANGE	İN	CONVICTION	RATES	FOR	OTHER OFFICS	COL WHINS	i	ŤŎ	ģ
4.44	PFR	CENT	CHANGE	ÎŇ	CONVICTION	RATES	FOR	CLP APPLICAT	COLUMNS	i	ŤĎ	ġ
4.00	PFR	CENT	CHANGE	ÌŇ	CONVICTION	RATES	FOR	CLC APPLICAT	COLUNNS	i	ŤŌ	ġ
										_		

****** 1988 03 INCREASE OF MALE &FEMALE DRUG OFFENDING

24.00 PER CENT CHANGE IN CONVICTION RATES FOR DRUG OFFICES COLUMNS 6 TO 9

****** 1988 D4 INCREASE IN PROPERTY OFFENDING BEAS ETC.

2.00	PER CENT	CHANGE	IN	CONVICTION	RATES	FOR	U.U.N.V.	Colunns	5	TO	9
2.00	PER CENT	CHANGE	1H	CONVICTION	RATES	FOR	STEALTNG	COLUMNS	-5	10	9
2.00	PER CENT	CHANGE	IH	CONVICTION	RATES	FOR	UHLAW POSSES	COLUMNS	-5	10	9
2.00	PER CENT	CHARGE	18	CONVICTION	RATES	FOR	BURGLARY	COLUXINS	5	10	9

+++++ 1988 G4 INCREASE IN PROPERTY OFFENDING BEAS ETC.

2.00 PER CENT CHANGE IN CONVICTION RATES FOR CSC APPLICAT COLUMNS 5 TO 9

DETAINEES RECEIVED	DURING	QTR. P	NO.2	1989,	AND DE	TATNEES	S ON H	AND AT	END D	F ØTR.	- BY	IIKE A	EMAINI	10 3 1	SERVE.	CNONTHS)	
TIME REMAINING: A-3 3-4 4-9	9-12	12-15	15-18	1 8-2 1	21-24	24-27	27-30	30-33	33-36	36-39	39-42	42-45	45-4B	48-51	51-54	54-57	57+	TOTAL
DETATHEES RECEIVED:															•			
314 31 6 BETAINTEE ON VAND-	2	9	3	0	9	L	9	6		4	Ø	I		¥.	8		¥.	224
83 48 13	7	3	4	4	Ð	3		L	8		9	1	0		0	0	0	163

****** 1989 Q3 GROWTH IN NUMBERS APPEARING BEYOND POPULATION GROWTH

٩,	69	PER	CENT	CHANGE	18	CONVICTION	RATES	FOR	HONICIDE		1	16	•
٩.	99	PER	CENT	CHANGE	1N	CONVICTION	RAIFS	FOR	SRV ASCAIN T	COLONING	1	iň	1
4.	88	PER	CENT	CHANGE	ÎN	CONVICTION	RAIFS	FOR	BRU ACCANLT	COLUMNS		10	2
÷.	ÅÅ.	PFR	FENT	CHANCE	ŧ.	CONVICTION	DAICE	100	MIN ACCAN T	COLUMNS	1	10	1
1	åå.	PED	CENT	CHANCE	12	CONVICTION	04110	100	DIN, HOSHULI	LULUANS	1	10	7
1	Ă۵	000	CCNI	CHANCE	15	CONVICTION	WHIS2	T UK	SEI ASSAULT	CULUMRS	1	ID	9
1	40	DIA	LEAL	LINNUDE	15	LUNVILIUN	NAILS	FUR	CARM INDULSE	COLUMNS	I.	TO .	9
2	46	rtk	LENI	LHANDE	N.	CONVICTION	RAIES	FOR	ROD ETIORT	COLUNNS	1	10	9
4.	80	LFH	CENT	CHANGE	11	CONVICTION	RAIES	FOR	FRAUD-WISSAP	COLUNNS	1	10	9
٩.	80	PER	CENI	CHANGE	11	CONVICTION	RATES	FDR	U.U.N.V.	COLUMNS	Ĩ.	10	ģ
4.	QQ	PER	CENS	CHANGE	18	CONVICTION	RAIES	FOR	STEAL ING	COLUMNS	÷.	1ā	ġ
٩.	0B	PER	CENI	CHANGE	18	CONVICTION	RAIES	FOR	UNLAW POSSES	COLUBNS	-i	iñ	á
١.	60	PER	CENT	CHANGE	18	CONVICTION	RAIES	FAR	BURGLARY	COLUMNS	-i	iñ	é
4.	89	PER	EE NI	EHANGE	18	CONVICTION	RATES	FUR	ARSON	CDI HINKS	1	iñ.	ė
4.	69	PER	CENT	CHANGE	1N.	CONVICTION	RAIES	FOR	FROPERTY DAM		÷	iň	á
4.	89	PER	CENT	CHANGE	LN.	CONVICTION	RAIES	FOR	DRINY ARIVIN	CULTINAS	÷.	iñ	á
٩.	88	PER	CENI	CHANGE	ΪŇ.	CONVICTION	RATES	FOR	BANG ORIUIN		1	iñ	6
4.	88	PER	CENT	CHANGE	ÎŇ	CONVICTION	RAIFS	606	RTH. TRAFFIC	COLUMNS	1	10	à
4.	88	PÉR	CENI	CHANGE	1X	CONVICTION	RAIFS	FOR	DELLE DEFNICE		4	iň	ő
4.	69	PER	CENI	CHANGE	1X	CONVICTION	RAIFS	FNR	FIREARN DEES	COLUMNS	1	iň	6
4.	60	PER	CENT	CRANGE	İN	CONVICTION	PATES	LUB	MINER OFFICE	COL DINNE	1	ŧδ.	6
÷Ĩ.	êê.	PER	CERT	CHANGE	iñ.	CONVICTION	GAICE	100	CED ADDI 1CAT	COLUMNS	4	10	1
- 4 .	Åð.	PFR	FFNT	CHANGE	iñ	CONVICTION	DAICC	100	CUT AFFLICAT	COLUMNS	4	10	1
				etwange	14	enuite1100	NU1C9	LOU	LED HELLINI	10101010	1	10	۰.

****** 1989 83 INCREASE OF MALE AFEMALE DRUG OFFENDING

20.40 PER CENT CHANGE IN CONVICTION RATES FOR DRUG OFFICES COLUMNS & TO 9

NUMBER OF I	PERSONS	APPE	ARING	8Y A5E	, <u>5</u> <u>E</u> X	ARD N	051_5E	RLOUS	OFFENCE	- 90	EENSLAND	- DIA. H	0.2	19
MONICIDE	HOCI	3-7	14		12	19	11	13		17	IDIAL			
	F	Ĭ	ě		i		Û		è	i				
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****** 1999 B3 GROWTH IN NUMBERS APPEARING BEYOND POPULATION GROWTH

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3.44	PER	CENT	CHANGE	1N	CONVICTION	RATES	FDR	KONICIDE	COLUNIS	- E	10	9
3.00	PER	CENT	CHANGE	1N	CONVICTION	RAIES	FDR	GRY. ASSAULT	COLUMNS	i	10	ģ
3.00	PER	CENT	CHANGE	18	CONVICTION	RATES	FOR	DRV. ASSAULT	COLUXINS	i	1ō.	ģ
3.00	PER	CENT	CHANGE	1N	CONVICTION	RAJES	FÖR	RIH. ASSAULT	COL MINNS	-i	ŤŌ	ģ
3.04	PER	ČĒNĪ	CHANGE	iï.	CONVICTION	RAIES	FOR	SET ASSAID T	COLUMNS	i.	iŏ.	é
3.00	PER	CENT	CHANGE	1N	CONVICIION	BATES	FOR	CARN KNOW GE	COL HINNS	i.	iň	é
3.40	PER	ČĒNĪ	CHANGE	ŤŇ	CONVICTION	RATES	FOR	ROR - FILORT	CAL LINNS	i	İň	é
5.00	PFR	ČĚNŤ	CHANGE	ίü.	CONVICTION	RATES	FMP	SRASIR-RICCAP		i	iň	é
V.AA	PFR	rini.	CHANGE	10	CONVICTION	22125	FUB			÷	1ň	- 6
1 84	PFR	CENT	CHANCE	1N	CONVICTION	BATES	FOR	CTEAL INC	COLUMNS	1	iň	
1 44	920	CENT.	CHANCE	13	CONVICTION	PATEC	500	INT SH DUCCLE		1	ŤŇ	2
1 44	000	FENT	CHANCE	12	CONVICTION	PATEC	600	BHECLARY		1	18	2
1 00	PCD	CENT	CHANGE	10	CONVICTION	DATES	500	ADCON		1	10	1
1 04	DED	CONT	CUANCE	111	CONTINUE	DATES	000	DDDDCCDTV BAN		ł	10	1
1 04	DED	CONT	CHANCE	10	CONVICTION	GATCO	100	PRUPERIT UNN		-	To	ž
3.00	rca of a	LEG!	CHANCE	10	CONVICTION	RHICO	I UK	UKING UKIVIN		1	10	1
3. X.	TER.	LENI	LUNNUE	11	CONVICTION	KHIES	FUR	DAKE. DALAIN	LULUNNS		10	1
3.00	154	CENC	CHIMNE	11	CONVILIEN	KAILS	1 URK	DIN, IRAFFIC	COLURNS	Ī	ΙQ.	7
3.00	LFK	LENI	CHANGE	10	CONVICTION	RAILS	FOR	DRUG OF INCES	COLOHNS	ļ	10	9
<u>?' 66</u>	PEK	LENI	CHANGE	11	CONVICION	RAIES	FOR	FIREARN DEFS	COLUNINS	ţ	10	9
2.44	PER	LEVE	CHANGE	18	CONVICTION	RATES	FUR	DIHEN OFFNCS	COLUNKS	1	IÖ	7
3.00	rt R	CENT	LNARGE	18	LURVICTION	RATES	FOR	CAP APPLICAT	LULUMNS	1	10	2
2.68	PER	CENT	CHANGE	IN	CONVICTION	RATES	FOR	CLC APPLICAT	COLUMNS	L	TQ.	9

****** 1990 03 INCREASE OF HALE &FEMALE DRUG DFFENDING

15.00 PER CENT CHANGE IN CONVICTION RATES FOR DRUG OFFNCES COLUMNS & TO 9

****** J991 03 GROWTH IN NUMBERS APPEARING BEYOND FOFULATION GROWIN

2.00	PER	CENT	CHANGE	18	CONVICTION	RATES	FOR	HONTCIDE	COLUMNS	1	TO	q
2.00	PER	CENT	CHANGE	ÎN	CONVICTION	RATES	FOR	FRV. ASSAIN T	COLUMNS	5	iň	ó
2.00	PER	CENT	CHANSE	ÎŇ	CONVICTION	RAIFS	FOR	DRV ASSAULT		i	iñ	é
2.88	PFR	CÊN Î	CHANGE	ŤŇ	CONVICIION	RAIES	FNR	NIN ASCAILT		1	iň	6
2 44	PT P	CENT	CHANGE	11	CONVICTION	DATEC	6.00	CEY ACCAIN T		1	iň	
2 46	010	CENI	CHANGE	1M	CONVICTION	PATES	100				10	
2 00	DEB	CENT.	CHANCE	18	CONVICTION	DATEC	600	DOD _ CITOOT		-	10	7
2 44	000	CENT	CHANCE	10	CONTICTION	GATER	r un	DUD, " EIIUKI	COLUNIIS	1	11	2
	000	CENI	CHANCE	13	LOWALCIDA	NHIES	104	10409-01228P	LULUNNS	1	50	2
1.44	rt H	LENI	LTIANUE	N.	CONALCTION	NAIES	FUK	U.U.N.Y.	COLUXINS		10	9
2.49	PER	CENI	CHANGE	IN	CONVICTION	RATES	FOR	STEALING	COLUMNS	1	10	9
2.9¥	PER	EENI	CHANGE	18	CONVICTION	RATES	FOR	UNLAW POSSES	CALUNNS	ł	10	٩
2.00	PER	CENI	CHANGE	1N	CONVICTION	RATES	FOR	BURGLARY	COLUMNS	1	10	9
2.99	PER	CEN1	CHANGE	1N	CONVICTION	RATES	FOR	AR5ON	COLUMNS	-	Ō	ġ
2.00	PER	CENT	CHANGE	١N	CONVICTION	RATES	FDR	FROPERTY DAM	COLUMNS	Ť	10	ģ
7.99	PER	CENT	CHANGE	18	CONVICTION	RAIES	70 T	DRINK DRIVIN	COL UMNS	i	10	ģ
2.00	PER	CENT	CHANGE	IN	CONVICTION	RAVES	FOR	DANG. DREVIN	COLUMNS	i	İŏ	ģ
2.00	PER	CENT	CHANGE	IN	CONVECTION	RAIES	FOR	DIH. TRAFFIC	COL WARS	i	iñ.	ģ
2.00	PER	CENT	CHANGE	11	CONVICTION	RAIES	FDR	ORUG DEENCES	COL HANS	i	1Ā.	ģ
2.00	PER	CENT	CHANGE	3 N	CONVICTION	RAIES	FOR	FIREARN OFFS	COLINNAS	i	iñ	ġ
2.00	PER	CENT	CHANGE	ÎŔ	CONVICTION	RATES	FOR	DINER OFFICS	COLIMNS	i	iň	ģ
2.00	PER	CENI	CHANGE	ÍN	CONVICTION	RATES	101	CLP APP: ICAT	COL UKINS	÷	iñ	6
2 88	470	CENT.	CHANGE	i N	CONVICTION	PATES	100	CEC ADDI ICAT		1	10	2
		AF (11	PLANNE.	* 14	CONTICTION	nn 11, 3	1.00	CEC MITCICHT	ene duug		10	1

****** 1991 D3 INCREASE OF MALE &FEMALE DRUG OFFENDING

13.00 PER CENT CHANGE IN CONVICTION RATES FOR DRUG OFFNCES COLUMNS & TO 9

****** 1992 R3 GROWTH IN NUMBERS APPEARING BEYOND POPULATION GROWTH

1.00	PER	CENT	Change	IN	CONVICTION	RAIES	FOR	HONICIDE	COLUNNS	1	10	9
1.00	PER	CEHT	CHANGE	1N	CONVICTION	RATES	FÖR	6RV, ASSAULT	COL UNINS	i	10	9
1,00	PER	CENT	CHANGE	1N	CONVICTION	RATES	FOR	DRV. ASSAULT	EOL HHMS	i	1ñ.	é.
1.00	PER	CENT	CHANGE	ΪŇ.	CONVICTION	RATES	FOR	NTN. ASSAULT	COLUMNS	i	iŏ	é
1.00	PER	CENT	CHANGE	1N	CONVICTION	RATES	FOR	SET ASSAULT	COLUMNS	i	iñ	ģ
1.00	PER	CENT	CHANGE	1N	CONVICTION	PATES	FIR	CARN I'NOW OF	CUL NAME	÷	iñ	é
1.44	PFR	CENT	CHANGE	11	CONVICTION	DAILC	100	BOB _ ETIOPI	COLUMNS .	÷	10	5
I.A.	PFR	CENT.	CHANGE	12	CONVICTION	PATES	100	COAUD_NICCAO	госониз	-	10	
1 00	010	reat	CHANCE	19	CONVICTION	DATEC	100	LUNDA-UISSML	COLUMNA	1	10	1
1 00	613	60 VI	CHANGE	10	CONVICTION	RAICO	200	CICAL THE	COLUMNS	1	ιų.	1
1 00	000	LEAI POUT	CUANCE	10	CONVICTION	CALCO	100	SICHLIND		1	IV.	¥.
1.15	DCD	LC NI	CHANGE		CONVICTION	KHIC3	TUN	UNLAW PUSSES	LULUANS		iñ.	7
1.97	TEN	LEAL	LINAHOL	10	LUNYICILUN	RAIFZ	FOX	BURGLART	LULUNNS	ļ	10	9
1.00	PER	CENT	CHANGE	IK.	CONVICTION	RATES	FOR	ARSOII	COLUMNS	I	10	9
1.60	FER	CENI	CHANGE	IN	CONVICTION	RAIES	FOR	FROPERTY DAM	COLUMNS	1	01	9
1.99	PER	CENT	CHANGE	31	CONVICTION	RATES	FOR	DRINK DRIVIN	COLUXINS	ı	10	Ŷ
1.00	PER	CENT	CHANGE	- IN	CONVICTION	RATES	FOR	DANG. DRIVIN	COLUMNS	1	10	9
1.00	PER	CENT	CHANGE	1H	CONVICTION	RATES	FOR	OTH. TRAFFIC	COLUNNS	- Ĺ	10	9
1.99	PER	CENT	CHAHGE	11	CONVICTION	RATES	FOR	DRUG OFFNCES	COLUMNS	Í	1D	9
1.00	PER	CENT	CHANGE	11	CONVICTION	RATES	FOR	FIREARN DEES	COLUXUS	i	tō	9
1.00	PER	CENT	CHARIGE	1Ň	CONVICTION	RATES	FOR	DTHER OFFNCS	COLUMNS	i	iŏ	9
1.00	PER	CENT	CHANGE	1X	CONVICTION	RATES	FOR	CLP APPLICAT	COL WARS	i	ň	á
1.00	FÊR	ČENÍ	CHANGE	İŇ	CONVICTION	RAIES	FUR	CLC APPLICAT	COLUMNS	i	iŏ	ģ

****** 1992 Q3 INCREASE OF MALE &FEMALE DRUG OFFENDING

5.30 PER CENT CHANGE IN CONVICTION RATES FOR DRUG OFFNCES COLUMNS & TO 9

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GRV. ASSAULT N 1 <t< td=""><td>NON LET DE</td><td>1021</td><td>3-3</td><td></td><td>.44</td><td>12</td><td>13</td><td></td><td>15</td><td>10</td><td></td><td></td><td></td><td></td><td></td></t<>	NON LET DE	1021	3-3		.44	12	13		15	10					
BRP. ASSAULT N <t< td=""><td></td><td>F</td><td>1</td><td>į</td><td>÷</td><td>I</td><td>ł</td><td>I</td><td>į</td><td></td><td>÷</td><td>- í</td><td></td><td></td><td></td></t<>		F	1	į	÷	I	ł	I	į		÷	- í			
DRV. ASSAULT N <t< td=""><td>GRV. ASSALL</td><td>1</td><td>•</td><td>•</td><td></td><td></td><td></td><td></td><td></td><td>,</td><td>•</td><td></td><td></td><td></td><td></td></t<>	GRV. ASSALL	1	•	•						,	•				
DRV. ASSAULT NIN. ASSAULT RI		F	Ŧ	Į	į	I	ļ	í	1	17	ļ	10			
NIM. ASSAULT No.	DRY. ASSAUL	τ'.		4	U .		6	IJ	13	22	l	52			
NIN. ASSAULT No. Assault No. Assault No. Assault No. Assault No. Assault No. Assault SEI ASSAULT No. Assault <		F	-		8	1	- 1		- 1						
SEL ASSAULT N B S 4 7 3B 9 166 5 339 SEL ASSAULT N B S 4 14 42 129 234 5 433 RBL-EXTORING N B S 4 14 42 129 234 5 433 RBL-EXTORING N B B C 22 70 35 B7 215 FRAUD-HISSEP N B <td>WIN. ASSAUL</td> <td>1</td> <td></td> <td>•</td> <td>8</td> <td>ŧ</td> <td>٠</td> <td>٠</td> <td>•</td> <td>۲</td> <td>1</td> <td>ŧ</td> <td></td> <td></td> <td></td>	WIN. ASSAUL	1		•	8	ŧ	٠	٠	•	۲	1	ŧ			
SEL ASSAULT I <td< td=""><td></td><td>F</td><td>1</td><td>8</td><td>5</td><td>1</td><td>1</td><td>30</td><td>14</td><td>185</td><td>5</td><td>339</td><td>•</td><td></td><td></td></td<>		F	1	8	5	1	1	30	14	185	5	339	•		
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NUMBER OF JUVENILES BY MOST SERIOUS OFFENCE AND DISPOSITION - DUCENSLAND - OTR. NO.2 1995

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NUMBER OF JUVENILES BY MOST SERIOUS OFFENCE AND DISPOSITION - DUEENSLAND - DIR. NO.2 2000

SUNNARY OF DETAINEES RECEIVED DURING THE OTR. BY TIME REMAINING TO SERVE - 1981-2000 REMAINING:	
8-3 3-6 6-9 9-12 12-15 15-18 18-21 21-24 24-27 27-38 38-33 33-36 36-39 39-42 42-45 45-48 48-51 51- DETAINEES RECEIVED:	-54 54-57 57+ TOTAL
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	9 9 9 297
	0 0 0 303
	J U U 393 A A A 195
1985 3 282 28 5 2 7 1 9 9 9 9 1 9 9 9 9 1 9 9 9 9 9 9 9 9	0 0 0 321
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Example of JIF Graphical Output using a Four Trend Scenario
APPENDIX 5

APPKNDTX 5

Twenty-two category JIF Offence Classification derived from the A.B.S. Uniform Offence Classification - Queensland

1. HOMICIDE ETC.

111 Murder

- 121 Attempted murder
- 131 Manslaughter (excluding driving)
- 141 Manslaughter (driving)
- 142 Dangerous driving causing death 151 Conspiracy to murder
- 2. GREVIOUS ASSAULT

211 Grievous bodily harm, bodily harm, and unlawful

3. DRIVER ASSAULT

212 Dangerous driving causing bodily harm

- 4. GENERAL ASSAULT
 - 221 Common assault (unlawful and indecent also)
 - 222 Aggravated assault
 - 223 Resisting arrest and other obstructions (under criminal code)

 - 224 Other resisting and distructing (Police Act) 229 Other minor assaults

5. SEXUAL ASSAULTS

- 231 Rape and attempted rape
- 242 Incest
- 243 Indecently dealing with a female
- 244 Indecently dealing with a male
- 245 Wilful exposure (Intent to insult)
- (Section 227(2) of the Criminal Code)
- 246 Unnatural offences and attempts (carnal knowledge against the order of nature)

6. CARNAL KNOWLEDGE

241 Unlawful carnal knowledge

- 7, ROBBERY AND EXTORTION
 - 311 Robbery with major assault (Section 412 of the Criminal Code) (steal with act of violence in company)
 - 312 Robbery with minor assault (Section 413 of the Criminal Code)
 - 313 Robbery, armed (Section 410 of the Criminal Code)
 - 314 Robbery, other and unspecified (Sections 409 and 414 of the Criminal Code)
 - 321 Extortion and blackmail

8. FRAUD AND MISAPPROPRIATION

- 411 Embezzlement by employee (stealing as an employee)
- 412 Embezzlement by trustee, partner, etc.
- 421 Currency offences (forgery and uttering)
- 422 Valueless cheques (forgery and uttering)
- 423 Bankcard and credit card (forgery and uttering)
- 424 False pretences
- 425 Forgery and uttering n.e.c. (imposition)
- 420 Leaving a hotel etc. without paying
 - (Secilon 6 of the Regulatory Offences Act)
- 429 Fraud, n.e.c.

9. U.U.M.V.

511 Unlawfully using a motor vehicle (including boats)

10. STEALING

- 521 Stealing from the person (pickpocketting)
- 531 Stealing livestock (Including unlawful use)
- 532 Shoplifilng
- 533 Shoplifting (Section 5 of the Regulatory Offence Act)
- 539 Other stealing

11. UNLAWFUL POSSESSION

- 541 Unlawful possession of livestock
- (including branding, killing for private gain, etc.)
- 542 Other unlawful possession of property
- (Steal in other State and bring to Qld.) 551 Receiving stolen property

12. BURGLARY

- 561 Burglary and housebreaking (break, enter, and steal) dwelling
- 562 Breaking and entering a dwelling with intent
- 57) Breaking, entering, and stealing other buildings
- 572 Breaking and entering other building with intent
- 13. ARSON
 - 611 Arson

(continued on next page)

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14. PROPERTY DAMAGE

- 621 Wilful damage or destruction
- 622 Wounding or killing animals
- 623 Wilful damage (Section 7 of the Regulatory Offence Act)
- 629 Other (obstructing railways not causing loss of life or damage to any person)

15. DRINK DRIVING

- 711 Drink driving or drink driver in charge of a motor vehicle (<0.15)
- 712 Breath alcohol content (0.02 to 0.15) 713 Failure to supply a breath test
- 713 Failure to supply a breath test

16. DANGEROUS DRIVING

721 Dangerous driving 722 Driving without due care and attention

17. OTHER TRAFFIC OFFENCES

- 731 Driving under suspension
- 732 Driving under disqualification
- 733 Unlicensed driving
 - 739 Other licence offences (including forgery)
 - 791 Other traffic offences
 - 792 Transport Act offence relating to driving and traffic
 - 793 Main Roads Act offences
 - 799 Other driving offences (including parking, local government, etc) (Disobey direction of police) (take part in unlawful procession)

18. DRUG OFFENCES

811 Possession of drugs, use (including attempts) 812 Supply drugs (including attempts) 819 Other drug offences (utensils)

19. FIREARN OFFENCES

- 861 Unlawful possession of firearms
- 862 Unlicensed firearms (Br. Firearms Act)
- 869 Other firearm offences
 - (excluding going armed in public)

20. OTHER OFFENCES

- 291 Kidnapping and forcible abduction
- 292 Ill-treatment of children
- 299 Other (including other abduction, abortion, accessory before the fact to and threats of violence to persons, and attempted violence}
- 821 Drunkenness
- 822 Abusive or obscene or insulting language
- 823 Indecent or offensive behaviour
- 824 Disorderly conduct
- 829 Other offensive behaviour offences (Br. Telecom)
- 831 Prostitution and related offences
- 841 Trespassing
- 842 Insufficient lawful means
- 849 Other trespass/vagrancy related offences (including consorting)
- 851 Breach of maintenance orders
- 871 Pollution etc. affecting health
- 872 Other environmental pollution
- 873 Protection of animals, birds, flora, and fauna
- 874 Other natural resources protection (e.g. Stock Act)
- 879 Other environmental offences (e.g. noise abatement) (littering)
- 881 Liquor Act (breach of licence)
- 889 Liquor Act (other)
- 891 Gambling premises
- 892 Illegal bookmaking
- 899 Other gambling offences
- 911 Escape from custody
- 912 Breach of probation or recognizance
- 913 Breach of parole
- 914 Breach of Community Service Order
- 919 Other offences against enforcement of order (including accessory after the fact, conspiracy not endangering life, bigamy, Bail'Act, contempt of court, Mall Act, and possession of house breaking implements)
- 921 Arbitration, conciliation, apprenticeship, etc.
- 922 Workers' compensation
- 929 Other Industrial offences
- 931 Prohibited imports (not drugs, flora, and fauna)
- 939 Other customs, smuggling etc. offences
- 991 Education and welfare offences
- 992 Other health offences (not drugs or environment)
- 993 Electoral and parlimentary offences
- 994 Other local authority offences (not parking or environment)
- 995 Other transport offences (not driving or traffic) Other (please specify)

Twenty-two category JIF Offence classification (continued)

21. CARE AND PROTECTION APPLICATION

- 011 Begging in public place
- 012 Abandoned, loitering, insufficient lawful means, no set place of abode
- 021 Exposed to mental danger
- 022 Falling in with bad associates
- 023 Likely to fall into a life of vice or crime
- 024 In household where member convicted of incest
- 025 In betting shop, billiard room, bar or beer garden
- 026 Served with intoxicating liquor in premises mentioned in
- 025
- 031 In custody of unfit person
- 032 Neglected child
- 033 Exposed to physical danger
- 034 Guardian guilty of endangering life
- 035 Living with unfit person
- 036 Deserted by parents, in care of another
- 037 Kept from school by guardian
- 038 In need of assistance due to poverty

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22. CARE AND CONTROL APPLICATION.

- 041 Child in care not to leave state
- 042 Absconding child
- 051 Breach of supervising order
- 061 Child regularly absents himself from school
- 071 Uncontrolable child
- 081 Failing into life of vice or crime
- 082 Exposed to mental danger
- 083 Commits an offence when under 10 years
- 091 Under school leaving age, unlawfully engages in street trading
- 092 Performs in public without a permit
- 099 Other
 - Revoke an order

APPENDIX 6

APPENDIX 6

The Trend Record Form below, was found to be useful in analysing and quantifying various aspects of the hypothesised trends in a structured interview situations with persons advising on trends.

TREND RECORD FORM

DFFICER NAME DATE
TREND DESCRIPTION
DATE OF COMMENCEMENT YEARS OF CONTINUANCE
TAPER OFF OF TREND ? OVER WHAT PERIOD ?
OFFENCE CATEGORIES INVOLVED
AGE RANGES INVOLVED
NUMBERS/PERCENT INVOLVED ?
BACKGROUND STATISTICS SUPPORT OF TREND ?
OTHER DETAILS

