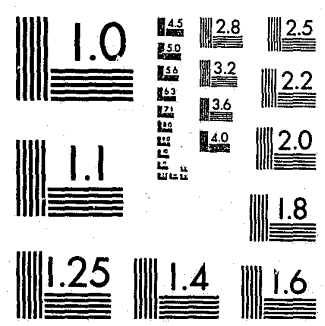

MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

95574

ARTHUR YOUNG

ARTHUR YOUNG & COMPANY
CENTRAL TRUST CENTER, SUITE 2200
CINCINNATI, OHIO 45202

November 9, 1983

Mr. Richard Hartigan
Assistant Court Administrator
Hamilton County Court House
1000 Main Street
Cincinnati, Ohio 45202

Dear Mr. Hartigan:

We have completed our engagement to serve as "Data Analysis Organization" in a project funded by a grant from the National Institute of Justice of the U.S. Department of Justice. The purpose of the grant was to investigate the costs and revenues to Hamilton County Municipal Court associated with the administration of a misdemeanant probationer program.

Accompanying this letter is our final report for the project "Cost Effectiveness of Misdemeanant Probation." With completion of this report we have fulfilled our obligations to your organization concerning this project. We would be pleased to meet with you to discuss our findings.

We have enjoyed working with you on this exciting project.

Very truly yours,

Arthur Young & Company

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I. Abstract

Data was collected on approximately 3000 probation experiences of misdemeanants, measuring probationer background, degree of supervision, probationer behavior while on probation, probation officer's recommendation whether to terminate probation, costs of providing supervision, and amounts collected from probationers for court costs, fines, and restitution. After an assessment of risk using a standard scale, probations were assigned to a supervision category randomly, according to the roll of die. In order to quantify these relationships, a formal measure of probationer conduct, the Degree of Successful Completion of Probation (DSCP) was developed and used. The data were examined for trends and interrelationships. The following hypotheses, which may be tested in future studies, were developed from the data:

- Increases in DSCP, failure rate, costs incurred, and the excess of costs over receipts, and a decrease in total receipts, generally appear to coincide with increases in risk, increases in supervision, and multiple probation experiences; however, among subsequent probation experiences, when considering changes in DSCP, failure rate, and total receipts corresponding to changes in risk, the opposite relationship holds.

- DSCP, a measure of probationer misbehavior, appears highly correlated with the issuance of probation violation warrants by probation officers. The implication of this result is that probation management may with some confidence use the DSCP as an indicator of whether and when a probation officer should take action to modify the relationship between the officer and the probationer. Possible actions include changing the supervision level, issuing a probation violation warrant, recommending early termination, or imposing additional requirements on the probationer.

It was the consensus of the project team that the data analysis indicated that supervision of misdemeanant probationers, as supervision was administered during the study period, is not a cost-effective technique for increasing the level of successful completion of probation, as measured by either the DSCP or the

failure rate, subject to limitations and qualifications described further in section VIII. D, "Discussion of the conclusions."

II. Introduction

This report presents the final conclusions of a study of probationer behavior and probation officer supervision sponsored by the National Institute of Justice and conducted by the Municipal Court of Hamilton County, Ohio. A major purpose of the study was to examine relationships among costs, revenues, type of supervision, risk assessment, and probationer conduct for the population of probationers. For this purpose, a formal measure of probationer conduct, the Degree of Successful Completion of Probation (DSCP), was used.

The investigation was performed in two major efforts:

- A computerized Management Information System (MIS) was developed to maintain data on probationers and to prepare summary reports on the operations of the Probation Department;
- Data maintained and summarized by the MIS were analyzed and examined for relationships among costs, revenues, risk, supervision, and conduct.

To assist in these two efforts, HCMC secured the assistance of two independent organizations. Educational Computer Systems functioned as a Computer System Service Organization (CSSO) and was responsible for design and implementation of the MIS. Arthur Young & Company functioned as the Data Analysis Organization (DAO), and provided assistance in the analysis and examination of data.

III. Executive Summary

The following data were collected on 7,072 misdemeanant probation experiences:

- Risk assessment at intake
- Supervision level assigned
- Number of times the probationer was assigned to probation
- Start date
- Planned termination date
- Date of last status change
- Status at termination
- Degree of successful completion of probation (DSCP) achieved
- Costs incurred in administering probation
- Amounts collected from each probationer for
  - Court costs
  - Restitution
  - Fines

Probation experiences were classified as failures if during the probation experience a probation violation warrant was issued or if at the initially scheduled termination date, costs, fines, and restitution had not been completely paid.

For reasons described in this report, 4,316 experiences were excluded from the study. Such reasons include:

- Not falling within the study period of January 1, 1981 to December 31, 1982
- Failure of the probationer to report for screening
- Prior inclusion in the study of another experience of the same probationer
- Non-random assignment of supervision

For the remaining 2,756 probationers, the following averages were observed:

Data item	Observed average
DSCP	127
Failure rate	45%
Costs collected	$7
Fines collected	$32
Restitution received	$10
Total receipts	$49
Costs incurred	$88
Excess of costs incurred over receipts	$39

In general, the following trends were noted:

- An increase in DSCP appears to coincide with an increase in risk level among first probation experiences terminating either in success or failure;
- A decrease in DSCP appears to coincide with an increase in risk level among subsequent probation experiences terminating in success; an increase in DSCP appears to coincide with an increase in risk level among subsequent probation experiences terminating in failure;
- An increase in failure rate appears to coincide with an increase in risk level among first probation experiences;
- A decrease in failure rate appears to coincide with an increase in risk level among subsequent probation experiences;
- A decrease in gross receipts appears to coincide with an increase in risk level among first probation experiences;
- An increase in gross receipts appears to coincide with an increase in risk level among subsequent probation experiences;
- An increase in costs incurred appears to coincide with an increase in risk level among first probation experiences;

- An increase in costs incurred appears to coincide with an increase in risk level among subsequent probation experiences;

- An increase in the excess of costs over receipts appears to coincide with an increase in risk level among first probation experiences;

- An increase in the excess of costs over receipts appears to coincide with an increase in risk level among subsequent probation experiences;

- An increase in DSCP appears to coincide with an increase in supervision among first probation experiences; the trend is more pronounced among experiences terminating in success than among those terminating in failure;

- An increase in DSCP appears to coincide with an increase in supervision among subsequent probation experiences terminating either in success or failure;

- An increase in failure rate appears to coincide with an increase in supervision among first probation experiences;

- An increase in failure rate appears to coincide with an increase in supervision among subsequent probation experiences;

- A decrease in gross receipts appears to coincide with an increase in supervision among first probation experiences;

- A decrease in gross receipts appears to coincide with an increase in supervision among subsequent probation experiences;

- An increase in costs incurred appears to coincide with an increase in supervision among first probation experiences;

- An increase in costs incurred appears to coincide with an increase in supervision among subsequent probation experiences;

- An increase in the excess of costs over receipts appears to coincide with an increase in supervision level among first probation experiences;

- An increase in the excess of costs over receipts appears to coincide with an increase in supervision among subsequent probation experiences;

- Average DSCP appears higher among subsequent probation experiences than among first probation experiences terminating in failure; average DSCP appears lower among subsequent probation experiences than among first probation experiences terminating in success;

- The failure rate appears higher among subsequent probation experiences than among first probation experiences;

- Average gross receipts appear lower among subsequent probation experiences than among first probation experiences;

- Average costs incurred appear higher among subsequent probation experiences than among first probation experiences;

- Average excess of costs over receipts appears higher among subsequent probation experiences than among first probation experiences;

- DSCP appeared to be a very good measure of probationer success or failure, in the sense that average DSCP among successful probation experiences (16) differed greatly from average DSCP among probation experiences classified as failures (263).

Presentation of these trends corresponds to the planned analyses described in the Data Analysis Plan for the project dated February 11, 1983. Possible interpretations of these trends are presented in Section VIII, "Conclusions."

It was the consensus of the project team that the data analysis indicated that supervision of misdemeanant probationers, as supervision was administered during the study period, is not a cost-effective technique for increasing the level of successful completion of probation, as measured by either the DSCP or the failure rate, subject to limitations and qualifications described further in section VIII. D, "Discussion of the conclusions."

IV. Background

Data for the study was collected as a part of standard probation department procedures. The description of the procedures currently in use applicable to probation experiences included in the study, and the effect of these procedures on the study, is presented in the following paragraphs.

A. Intake

Convicted misdemeanants may be assigned to probation at the discretion of the sentencing judge. Prior to making such a decision, a judge may request a Pre-Sentence Investigation (PSI).

If a PSI is requested, the misdemeanant must report to the Probation Department with a green PSI request form (Exhibit P-1). The individual will be assigned to a Probation Officer (PO) who will conduct the PSI and return the completed PSI form to the judge for use in determining a sentence.

When the individual is sentenced, the judge may assign the person to probation. The basic tenet of probation is that upon completing the probation assignment, the individual may be relieved of any obligation to serve his initial sentence.

Individuals assigned to probation must report to the Probation Department for screening and supervision. Screening involves collection of basic background information on an individual, his conviction, and his sentence. The individual's background is used to determine a numerical Risk Level Indicator (RLI). Questionnaires used in the screening process are presented as Exhibits P-2, P-3, and P-4. Exhibit P-5 indicates the procedure used to calculate the RLI, based on data included in the questionnaires. The RLI may take a value from 2 to 34. Risks are classified as

high, moderate, or low, corresponding to RLI values of 18 or more, 12 to 16, and 2 to 10, respectively.

Most individuals are assigned to supervision levels based on a combination of their risk category and a random variable. Low risk individuals are assigned to an unsupervised category. Moderate risk individuals are randomly assigned to one of three groups with equal likelihood, based on the roll of a die. These three groups correspond to no supervision, minimum supervision, and maximum supervision. High risk individuals are randomly assigned to one of two groups with equal likelihood, again based on the roll of a die. These two groups correspond to minimum supervision and maximum supervision. In certain cases, the sentencing judge may prescribe a certain level of supervision, overriding any other classification procedures. Following determination of a supervision level, individuals are assigned to Probation Officers in a manner which tends to evenly distribute the case load among officers, except that low risk unsupervised probationers are generally all assigned to the same PO. Exhibit P-6 describes the proportionate supervision assignments contemplated at the beginning of the study.

The final step in the intake procedure is to present the conditions of probation to the probationer, including any special conditions prescribed by the sentencing judge. The conditions of probation are presented in Exhibits P-7 and P-8.

Exhibit P-9 depicts major events in the intake process. Exhibit P-10 summarizes data collection procedures pertinent to the intake process. Exhibit P-11 outlines a revision to the intake procedure implemented to improve the quality of the data gathered in the intake process.

B. Supervision

During the intake process, a date will be established for an initial contact between the probationer and his PO. This may coincide with the screening or intake dates. Thereafter, during each contact between the probationer and his PO, arrangements will be made for the following contact, until the probationer terminates probation.

The PO records summary data on each contact with each probationer on a Daily Probationer Supervision Log (DPSL), (Exhibit P-12). Each sheet in the log contains the PO's name, the date, and information on each contact in columns from left to right as follows:

- Probationer Name -

  Last name, first name, and middle initial.

- File Number -

  A unique code of five digits that identifies the probationer, assigned when the probationer first enters the probation system, followed by a number indicating how many times the individual has entered the probation system. The two identifiers are separated by a dash. Prior to planning for the present study, only the first code was assigned as the file number.

- Judge -

  The judge sentencing the individual and assigning him to probation.

- Risk -

  The risk level for the probationer determined by computing the RLI and assigning a level as follows:

Risk Level	RLI Values
Low	Up to 10
Moderate	12 to 16
High	18 and above

Because the RLI takes only even values, the indicated categorization is comprehensive.

- Contact Notation -

  A check is made in the appropriate column to indicate the type of contact:

  I - Initial (intake) contact

  T - Telephone call

  O - Office visit

  H - Home visit

  A - Agency contact with PO

  U - Unscheduled (contacts not elsewhere classified)

  L - Letter written or received

  C - Court was contacted

  Refer to Exhibit P-11 for additional information on intake coding.

- Time In -

  The time that contact with the probationer began.

- Time Out -

  The time that contact with the probationer ended.

- Mileage -

  Mileage driven by the PO in making the contact is recorded in this column.

- Probation Condition (PC) -

  This data is recorded in accordance with the directions given in Exhibit P-13.

- PC Value -

  This field refers to the point value associated with violation of the indicated condition of probation, as indicated by Exhibit P-13.

- Revenues Owed or Paid -

  The C, F, and R columns refer respectively to court costs, fines, and restitution. The first line of each set refers to the amount owed by the probationer. The second line refers to amounts paid by the probationer in each category. In addition to inclusion in the Daily Probationer Supervision Log, amounts owed and paid by the probationer are recorded on receipts in duplicate by the cashier. These receipts are posted daily by the cashier to the Collections Sheet, Exhibit P-14.

- Next Contact -

  At completion of the contact, the probationer and PO will arrange a follow-up contact. The type of contact and its scheduled date and time are recorded in the last columns on the log. If the PO fails to record a next contact date, a next contact will be scheduled automatically by the Data Coordinator as follows:

Supervision Level	Time Until Scheduled Contact
Unsupervised	N/A
Minimum	28 days
Maximum	14 days

C. Data Collection

The Daily Probationer Supervision Logs are sent to the Data Coordinator (DC) by each PO. The DC reviews each log for completeness and reasonableness. If the DC believes that the log is incomplete or inaccurate, he will mark on the log to indicate the reasons for rejection, and return the log to the responsible PO. The PO will then complete or correct the form and resubmit it to the DC. The DC maintains a list of rejected logs from which each is eliminated when finally submitted correctly, allowing the DC to follow up on seriously delinquent logs.

The DC also prepares the Consolidated Data Sheets (CDS), Exhibit P-15. The columns on the CDS correspond one-for-one with those on the logs, with the following exceptions:

- "Time In" and "Time Out" have been replaced with one column, "Time (Minutes)," calculated by subtracting "Time In" from "Time Out".

- A "Cost" column has been added, the contents of which may be calculated as follows:

  Cost = Mileage X 0.185
  + Time (Minutes) X 0.317

  If the contact is of type Intake, the fixed cost of $62.05 is added.

- A "PO" column has been added, where the identification number of the appropriate PO is entered.

Data on intakes only is copied by the DC from the DPSL to the CDS, and additional data is provided on the CDS as necessary.

The following four items constitute the major inputs to the MIS, and are recorded in the MIS data base:

- Data on intakes, from the CDS's;
- Data on collections, from duplicate copies of the receipts;
- Data on contacts and misbehavior, from the DPSL's;
- Data on terminations and status changes, from probationer status cards maintained by the Probation Department.

These items are input by the computer operator.

D. Probation Termination

The termination date of a specific probation experience is the earlier of the following two dates:

- The date on which the probation experience was initially scheduled to end when the probationer was assigned to probation;

- The date on which the probationer's PO recommended that probation be revoked, by recording a PC code of "PV" on the DPSL.

Because the date on which a "PV" was recorded was not consistently available from the MIS, the termination date used in the data analysis was estimated by using the earlier of the planned termination date and the status date. Collections, costs, and points accumulated thereafter were not reflected on the MIS reports used in the study and included here in the appendices, although the data is included on reports to judges and POs prepared by the MIS.

Exhibit 1 summarizes the status data and associated fields that may be recorded in the MIS. An interface program developed by the CSSO summarizes data on probation experiences according to the table and prepares an intermediate computer file for use by the DAO in preparing the MIS reports included in the appendices. Data contained in the file includes the following:

- PC Points -

  All points accumulated by the probationer on or after his start date and on or before his termination date are accumulated, including each one hundred points assessed automatically if a contact is not recorded with a probationer on or before a scheduled contact date.

- Costs -

  All costs of supervision of the probationer incurred at or following intake and on or before the end date are computed as follows:

  Costs = $62.05 + $0.317 X minutes supervised
  + $0.185 X miles driven

- Court costs, fines and restitution -

  All court costs, fines and restitution actually paid by the probationer toward the court costs, fines and restitution applicable to the probation experience

EXHIBIT 1

SUMMARY OF PROBATIONER STATUS CODES

Status Code	Status Meaning	End Date	Status Date	Implied Result	Point, Cost and Revenue Data
AC	Active	Initially scheduled termination date	Initially scheduled termination date	Pending	Accumulated through reporting date
SC	Successful	Initially scheduled termination date	Initially scheduled termination date	Success	Accumulated through End Date
TE	Terminated Early	Early termination date	Early termination date	Success	Accumulated through End Date
CO	Continued	Date PV was issued	Date continuation was granted	Failure	Accumulated through Status Date
PV	Probation violation warrant issued	Date PV was issued	Date PV was issued	Failure	Accumulated through End Date
RE	Revoked	Date PV was issued	Date probation was revoked	Failure	Accumulated through Status Date
TU	Terminated unsuccessfully	Date PV was issued (if issued) or initially scheduled termination date (if failure due to delinquent payments)	Date probation was terminated	Failure	Accumulated through Status Date

under study are accumulated. The MIS automatically applies payments to the earliest probation experience, and applies payments to court costs until court costs are fully paid, then to fines until fines are fully paid, then to restitution. The computer operator may at data entry time override the default application method by specifying which probation experience is to be credited, and for what type of payment.

- Result -

  All experiences for which a PV was recorded (i.e., for which the PO recommended revocation), are classified as failures. All experiences for which court costs, fines and restitution were not fully paid as of the initially scheduled termination date are also classified as failures. All other experiences are classified as successes.

Probationers for whom revocation is recommended must appear before a judge who may either terminate the probation experience, continue it, or extend it beyond its originally scheduled end date.

E. Effects of Probation Department Procedures on the Study

Certain aspects of Probation Department procedures may affect variables under study. The following should be considered in interpreting the results of the study:

- Point accumulation results. One goal of the study is to evaluate the differences between point scores accumulated by persons who complete probation successfully, and point scores accumulated by persons whose probation results in failure. Because PO's consider the number of points accumulated by a probationer in deciding whether to recommend revocation, the accumulation of points and the result of a probation experience are interrelated. Therefore, the relationship between point score accumulation and probation result may appear more pronounced than if the recommendation of revocation and the accumulation of points were independent.

- Probation Officer attitudes. While certain aspects of the data collected are objectively verifiable, other data may depend upon the attitudes of the

reporting PO, and still additional data may require estimation not subject to verification. Such data include the following:

  - Whether a probation violation has in fact occurred;
  - What constitutes a contact;
  - What the duration of a contact was;
  - Whether a contact is reported.

- Probation Department valuations. The costs of probation supervision have been estimated by the Probation Department administration as a fixed rate per minute of contact and as a fixed rate per mile traveled. Such estimation affects the comparison of costs with revenues and probation results, both of which may be objectively verified.

- Assignments for low risk probationers. Approximately 75% of low risk unsupervised probationers are assigned to the same PO. Because the probationers will contact only this individual whenever a contact is initiated, the results for this group may be biased.

- Assignments for low risk probationers with alcohol, drug, or mental health problems. Because alcohol and drug problems are used in calculating the RLI, moderate and high risk groups included in the study will exhibit relatively higher RLI's than if the RLI calculation excluded alcohol and drug problems, while persons with serious alcohol and drug problems will be excluded from the low risk study group due to the non-random manner in which the related supervision level is determined.

- Cash collections. Not all amounts assessed against probationers are collected in the probation department. Some amounts may be collected by the court when the probationer is initially assigned to probation, but before he reports to the probation department. The amounts collected from each probationer do not include amounts previously collected in court, and therefore total revenues may be understated.

V. Scope

The grant from NIJ identified several objectives for the investigation. These include the following:

1. Determine costs incurred in the administration of misdemeanant probationer assignments among first time probationers according to risk assessment, type of supervision, and probationer conduct.

2. Determine costs incurred in the administration of misdemeanant probationer assignments among repeating probationers according to risk assessment, type of supervision, and probationer conduct.

3. Determine a relationship between revenues received and costs incurred in the administration of misdemeanant probationer assignments, according to risk assessment, type of supervision, probationer conduct, and whether the individual is a first-time or repeat probationer.

4. Design, develop, and test a management information system (MIS) to provide timely, regular information to judges, Probation Officers, and court administrators about the results of their decisions concerning probation.

This report is intended to address the first three objectives identified above, using the data collected with the MIS and presented in the MIS reports included in the appendices.

VI. Methodology

As previously indicated, the project involved two separate tasks:

- Development of an MIS to provide information for HCMC and Probation Department administration.
- Study of probationers to identify various relationships among variables such as the following:
  - Cost of supervision
  - Revenues collected from probationers
  - Probationer behavior, as measured by the DSCP

Neither task encompassed the entire population of probationers supervised by the HCMC Probation Department. By design, the second task, study of probationers, related to a subset of the group of probationers involved in the first task, development of an MIS.

Probation experiences, with an identifiable start, duration and termination were the material for the project. Because there is a one-for-one relationship between probationers and probation experiences in the study, the terms "probationer" and "probation experience" may be used interchangeably in defining the populations.

A. Reporting Population

The MIS reports on a subset (the Reporting Population) of all probationers supervised by HCMC Probation Department. These probationers are characterized as follows:

- Misdemeanants. Persons on probation for felonies were excluded from the Reporting Population.
- Eligible for supervision. Persons formally assigned to probation only for the purpose of completing or participating in a special alcoholism, community

service or collection program, or assigned to non-reporting probation by the judge, were excluded from the Reporting Population.

- Assigned to probation on or after October 1, 1980. Persons assigned to probation on or before September 30, 1980 were excluded from the Reporting Population.

B. Study Population

The study population included HCMC probationers characterized in the following ways:

- Members of the Reporting Population. Persons excluded from the Reporting Population were also excluded from the Study Population.

- Assigned to probation, and able to complete probation during the twenty-four month study period from January 1, 1981 to December 31, 1982. Persons whose initial assignment to probation extended beyond the study period were excluded from the Study Population. The collection of data on a person terminated when the person completed probation or when as a result of a review hearing, the person's assignment to probation was extended beyond the initially assigned termination date.

- Persons whose supervision level was not changed during the probation experience. Supervision level may be increased at the recommendation of the PO, resulting in exclusion.

- Not previously studied. Persons with a prior probation experience included in the Study Population were excluded from future admission to the population. For instance, an individual studied from January 1, 1981 to March 31, 1981, who was reassigned to six months of probation on October 1, 1981, was not studied twice.

- Persons who were randomly assigned a supervision level. Those in the low risk category with drug, alcohol, or mental health problems were excluded.

- Persons assigned to a specific supervision level by a judge were also excluded. A judge may at his own discretion require maximum or minimum supervision for a particular person, or may assign a person to non-reporting probation.

C. Effects of the Population Definitions on the Study

Certain aspects of the population definitions may have affected the results of the study of information gathered during the project. These aspects include the following:

- Short probation assignments. The definition of the Study Population precluded the inclusion of data concerning probationers whose initial assignment exceeded two years. Furthermore, as the study progressed, the average length of each probationer's initial probation assignment declined. For example, no probationer entered the study after July 1, 1982 unless his initial probation assignment duration was less than six months.

- Early probation experiences. Because persons are not readmitted to the Study Population, the experiences are weighted toward earlier probation experiences. For instance, a person assigned to multiple probation terms between January 1, 1981 and December 31, 1982, was only studied for his first experience during that period.

D. Data Attributes

An objective of the project was to examine relationships among certain attributes of the probation experiences under study. These attributes include the following, with further definitions as noted:

- Experience - This attribute refers to whether or not the probation experience under study is a person's first assignment to probation. Possible values are "First" and "Subsequent".

- Result - This attribute refers to the circumstances surrounding the termination of a person's probation experience. As described in Section IV-D, probation experiences may be classified as successes or failures.

- Degree of Successful Completion of Probation (DSCP) - The DSCP takes the value of the point score accumulated during the probation experience as a result of substandard probationer conduct in relation to the conditions of probation, according to the schedule of values indicated in Exhibit P-13. This is also referred to as PC score or as point value.

- Risk Level - The risk level takes on values determined by the Risk Level Indicator (RLI) according to the following table:

RLI	Risk Level
up to 10	Low
12 to 16	Moderate
18 or greater	High

The RLI is computed for each individual at intake and is based on personal data concerning the probationer.

- Supervision Level - Supervision Level corresponds to the amount of supervision anticipated for the individual. Possible levels are the following:

  - Unsupervised - No contact with the probationer is regularly scheduled.

  - Minimum - The PO and the probationer are to communicate at the discretion of the PO, at least once every twenty-eight days.

  - Maximum - The PO and the probationer are to communicate extensively on a regular, formal basis, at least once every fourteen days.

Unless instructed otherwise, the Data Coordinator automatically scheduled contacts every two weeks for maximum supervision and every four weeks for minimum supervision probationers.

While the Supervision Level may be mandated by the court, it was always determined for probation experiences in the Study Population according to the Risk Level and the random roll of a die as follows:

Risk Level	Spots on Die	Supervision Level
High	1, 2, or 3	Maximum
High	4, 5, or 6	Minimum
Moderate	1 or 2	Maximum
Moderate	3 or 4	Minimum
Moderate	5 or 6	Unsupervised
Low	Any value	Unsupervised

- Costs Incurred - This attribute was assigned a value according to the following formula:

Costs Incurred = Total Contact X \$0.317 +
Total Mileage X \$0.185 +
\$62.05 (if intake occurs)

In the formula, Total Contact refers to the total minutes of contact of any type except intake processing recorded by the MIS for the particular probation experience, and Total Mileage refers to the total miles driven by the PO in supervising the probationer, as recorded by the MIS.

- Restitution Received - This attribute refers to the total amount of money received from the probationer during the probation experience as restitution for damages caused.

- Fines Collected - This attribute refers to the total amount of money received from the probationer during the probation experience as a penalty for the acts committed.

- Court Costs Collected - This attribute refers to the total amount of money received from the probationer during the probation experience as reimbursement to HCMC for the costs of hearings.

- Gross Receipts - This attribute is the sum of Restitution Received, Fines Collected, and Court Costs Collected.

- Excess of Receipts Over Costs - The value of this attribute is determined by subtracting Costs Incurred from Gross Receipts; the value may be positive, negative, or zero.

E. Reporting

The DAO prepared computer reports using the information presented on the monthly reports for judges and probation officers prepared by the MIS. These reports summarized relationships among the eleven attributes defined in Section VI-D using data accumulated through the end of the study. These attributes are the following:

- Experience
- Result
- DSCP
- Risk Level

- Supervision Level
- Costs Incurred
- Restitution Received
- Fines Collected
- Court Costs Collected
- Gross Receipts
- Excess of Receipts Over Costs

1. Reports Presenting Monetary Attributes

The six monetary attributes presented in these reports are as follows:

- Costs Incurred
- Restitution Received
- Fines Collected
- Court Costs Collected
- Gross Receipts
- Excess of Receipts Over Costs

The data was grouped into reporting cells based on the following attributes:

- Experience
- Risk Level
- Supervision Level
- DSCP

Reports were prepared showing the number of probation experiences classified in each cell. On separate reports, average values for each of the six monetary attributes listed above, averaged among probation experiences classified in the reporting cell, are presented. In addition to the average value of the attribute, its standard deviation is presented, calculated as described in Section VI-E-3.

2. Reports Presenting Degree of Successful Completion of Probation

The primary attribute presented in these reports is the Degree of Successful Completion of Probation (DSCP). The probation experiences in the Study Population were grouped into reporting cells based on possible values of the following attributes:

- Risk Level
- Supervision Level
- Experience
- Result

The average DSCP for each cell so defined, together with its standard deviation calculated as described in Section VI-E-3, is presented. The standard deviation is a measure of the variability of results and may be used to evaluate whether the results are significant. The reports include subtotals for all Success and for all Failure experiences, as well as subtotals for all First experiences and for all Subsequent experiences. Calculation of the average DSCP for each of the cells disclosed trends and relationships that affect the DSCP.

3. Calculation of the Standard Deviation

The standard deviation for each cell presented on the MIS reports was computed according to the following formula:

$$\text{Standard deviation} = \sqrt{\frac{SUM}{N-1}}$$

where:

SUM = the sum of the square of the differences between each attribute value represented in the cell and the average attribute value in the cell;

N = the number of experiences included in SUM and in the cell.

The standard deviation is a measure of the variability of data, and is used to evaluate the strength of test results. A high standard deviation may indicate that test results occurred primarily due to chance. A low standard deviation may indicate that test results are representative of a true characteristic of a population.

VII. Research Results

The study focused on misdemeanant probation experiences completed between January 1, 1981 and December 31, 1982. An experience was defined as all data associated with an individual probationer from the initial assignment to probation by a judge to the final termination of the probation period by expiration, by revocation, by continuance, or by suspension. No probationer was allowed to be included in the study more than once.

Data on 7,072 probation experiences, each commencing on or after October 1, 1980, were recorded in the MIS. Of the 7,072 experiences, the following were excluded for the reasons indicated.

Number Excluded	Reason for Exclusion
253	Probationer was never screened
814	Probationer had another experience that was included in the study
3083	Experience was not completed by December 31, 1982
2	Experience began prior to January 1, 1981
164	Supervision level was not randomly assigned
4316	

The remaining 2,756 experiences were analyzed and classified according to experience, result, supervision, risk assessment at intake, and DSCP achieved. The following overall observations apply:

Classification of experiences	Number	Percent
Risk assessment at intake		
Low risk experiences	888	32.2
Moderate risk experience	965	35.0
High risk experiences	903	32.8
Total experiences	2756	100.0
Supervision levels assigned		
Unsupervised experiences	1169	42.4
Minimum supervision experiences	884	32.1
Maximum supervision experiences	703	25.5
Total experiences	2756	100.0
Times on probation		
First experiences	1963	71.2
Subsequent experiences	793	28.8
Total experiences	2756	100.0
DSCP compared to result		
Average DSCP among experiences described as successes	16	
Average DSCP among experiences classified as failures	263	
Average DSCP among all experiences	127	

Average DSCP, costs incurred, amounts collected, and failure rate

Population subset	DSCP	Fines collected	Costs collected	Restitution collected	Total receipts	Costs incurred	Costs less receipts	Failure rate (%)
First experiences	110	$34	$ 7	$11	$52	$85	$34	41
Subsequent experiences	169	27	5	9	41	95	54	54
Unsupervised experiences	78	40	8	10	58	74	17	34
Minimum supervision experiences	154	24	6	11	41	97	56	53
Maximum supervision experiences	174	28	6	10	43	100	56	53
Low risk experiences	67	41	8	10	59	70	11	31
Moderate risk experiences	134	32	7	11	49	94	45	49
High risk experiences	180	23	6	10	38	99	62	55
All experiences	127	32	7	10	49	88	39	45

In general, the following trends were noted:

- Increases in DSCP, failure rate, costs incurred, and the excess of costs over receipts, and a decrease in total receipts, appeared to coincide with increases in risk, increases in supervision, and multiple probation experiences. These observations are generally independent. For example, an increase in DSCP appears to coincide with an increase in risk, regardless of supervision level or the number of probation experiences. However, among subsequent probation experiences, an increase in total receipts and decreases in DSCP and failure rate appeared to coincide with increases in risk at intake.

- DSCP appeared to be a very good measure of probationer success or failure, in the sense that average DSCP among successful probation experiences (16) differed

greatly from average DSCP among probation experiences classified as failures (263).

VIII. Conclusions

The conclusions of the study are divided into three categories:

- Relationships between monetary and non-monetary attributes - Monetary attributes include costs, fines, and restitution actually collected, as well as costs of supervision for probationers. Non-monetary attributes include risk assessment, supervision level, result, experience, and DSCP;

- Effects on the DSCP of non-monetary attributes - DSCP achieved, also referred to as PC score, was measured according to risk assessment, supervision level, experience and result.

- Effects on the failure rate of risk, supervision and experience - The failure rate is a measure of a probation officer's evaluation of a probation experience, as opposed to the DSCP, a measure of probationer misbehavior.

A. Relationships between monetary and non-monetary attributes

1. Relationship - High probation costs appear to correspond to high PC scores among both first and subsequent experiences, as may be seen from Table 1 and from Graph 1 in Appendix C.

   Implication - Costs of supervision increase partially as a result of misbehavior among probationers, or more supervision results in a higher PC score.

2. Relationship - Low gross receipts appear to correspond to high PC scores, among both first and subsequent experiences, as may be seen from Table 2 and from Graph 2.

   Implication - Decreased collections may result partially from probationer misbehavior.

3. Relationship - Large excesses of costs of probation over gross receipts appear to correspond to high PC scores, among both first and subsequent experiences, as may be seen from Table 3 and from Graph 3 (excess of receipts over costs is the negative of this quantity).

   Implication - See implications A-1 and A-2.

4. Relationship - Average probation costs appear slightly higher among subsequent experiences than among first experiences. Graph 1 and Table 1 demonstrate this apparent tendency according to PC score, while Table 4 and Table 5 demonstrate the same conclusion using data classified according to risk and supervision, respectively.

   Implication - The cost of administering a probation experience is higher among persons who have previously been on probation.

5. Relationship - Amounts collected from probationers appear higher among first experiences than among subsequent experiences when data are classified according to PC score. Graph 2 and Table 2 demonstrate this apparent tendency. This relationship does not appear to hold true for data classified according to either risk or supervision.

   Implication - Either probationers are more likely to pay assessments when on probation for the first time, or assessments are higher, on the average, among first experiences than subsequent experiences, or both.

6. Relationship - Costs of probation appear to exceed gross receipts by a greater amount among subsequent experiences than among first experiences. This relationship may be inferred from relationships A-4 and A-5.

   Implication - See implications A-4 and A-5.

7. Relationship - Costs of administering probation for higher risk groups appears to exceed those for lower risk groups. Graph 4 and Table 6 present nine comparisons of pairs of probation costs. Within each pair, supervision and experience are constant, and risk varies, either between low and moderate, or between moderate and high. (Some bars are absent from the charts, corresponding to non-valid combinations of risk and supervision.) The center bars (those centered on the tick marks on the horizontal axis) correspond to moderate risk experiences. The labels on Graph 4 correspond to the following categories:

Label	Category
FUN	First experience, unsupervised
FMN	First experience, minimum supervision
FMX	First experience, maximum supervision
SUN	Subsequent experience, unsupervised

Label	Category
SMN	Subsequent experience, minimum supervision
SMX	Subsequent experience, maximum supervision
AUN	All experiences, unsupervised
AMN	All experiences, minimum supervision
AMX	All experiences, maximum supervision

   Implication - The cost of administering a probation experience is higher among persons classified as high risk individuals.

8. Relationship - Amounts collected from probationers are higher among low risk probationers than among high risk probationers, except among subsequent probation experiences. Graph 5 and Table 7 present nine comparisons of pairs of amounts collected, similar to those described above in relationship A-7.

   Implication - Either low risk probationers tend to pay a greater portion of amounts assessed, in general, or else generally assessments are higher among low risk probationers. This latter interpretation could arise if judges felt, for instance, that increasing assessments of hard-core offenders would not result in benefits, or else because low risk probationers may, for reasons positively correlated with a low risk assessment, appear better able to pay assessments. The fact that the data run contrary to the general pattern among subsequent probation experiences may indicate that collection activity from individuals repeating probation is more closely watched. Alternatively, it may indicate that ability to pay an assessment, discussed above, is not considered as important among subsequent probation experiences as among first experiences.

9. Relationship - Costs of probation appear to exceed gross receipts by a greater amount among higher risk probation experiences than among lower risk probation experiences. Graph 6 and Table 8 present nine comparisons of pairs of costs in excess of gross receipts, similar to those described above in relationship A-7. This relationship follows immediately from relationships A-7 and A-8.

   Implication - See implications A-7 and A-8.

10. Relationship - Costs of administering probation increase with increasing levels of supervision. Graph 7 and Table 9 present three pairs and three triplets of data on probation costs. Within each

pair or triplet, experience and risk are constant, and level of supervision varies, either among unsupervised, minimum, and maximum (for moderate risk experiences), or between minimum and maximum (for high risk experiences). On Graph 7, three bars are absent, corresponding to the fact that no high risk probation experiences were unsupervised in the study. The labels for the groups of bars on Graph 7 correspond to the following experience and risk categories:

Label	Category
FMO	First experiences, moderate risk
FHI	First experiences, high risk
SMO	Subsequent experiences, moderate risk
SHI	Subsequent experiences, high risk
AMO	All experiences, moderate risk
AHI	All experiences, high risk

The center bars correspond to minimum supervision experiences, and appear directly over the tick marks on the horizontal axis.

Implication - Costs increase with higher supervision levels.

B. Effects on the DSCP of non-monetary attributes

1. Relationship - DSCP achieved is higher among experiences with higher risk than among those with lower risk. Graph 8 and Table 10 present nine comparisons of pairs of probation costs, similar to those described above in relationship A-7. Bars on the left of each pair correspond to a lower degree of risk than do bars on the right of each pair. All data support this conclusion except those for unsupervised and minimum supervision subsequent experiences.

   Implication - Increased risk corresponds to increased misbehavior.

2. Relationship - Increased supervision appears to correspond to a higher DSCP. Graph 9 and Table 12 present three pairs and three triplets of data on DSCP. Within each pair or triplet, experience and risk are constant, and level of supervision varies, either among unsupervised, minimum, and maximum (for moderate risk experiences) or between minimum and maximum (for high risk experiences). On Graph 9, three bars are absent, corresponding to the fact that no high risk probation experiences were unsupervised in the study. The labels for the groups of bars on Graph 9

were summarized above in the discussion of relationship A-10. The center bars correspond to minimum supervision experiences, and appear directly over the tick marks on the horizontal axis. All possible comparisons among the data support the conclusion, except for comparisons of minimum and maximum supervision moderate risk experiences.

Implication - Increased supervision causes increased awareness among probation officers of misbehavior among probationers.

3. Relationship - DSCP achieved in subsequent experiences appears higher than that achieved in first experiences. Graph 10 and Table 12 present six comparisons of DSCP achieved between first and subsequent experiences, with risk and supervision held constant for each comparison. The labels on Graph 10 correspond to the following risk and supervision categories:

Label	Category
LUN	Low risk, unsupervised
MUN	Moderate risk, unsupervised
MMN	Moderate risk, minimum supervision
MMX	Moderate risk, maximum supervision
HMN	High risk, minimum supervision
HMX	High risk, maximum supervision

   Implication - Persons previously on probation are more likely to disregard terms of probation than persons on probation for the first time.

4. Relationship - DSCP achieved in experiences terminating in failure appears significantly higher than DSCP achieved in successful experiences. Graph 11 and Table 13 present six comparisons of DSCP achieved between successful and unsuccessful experiences, with risk and supervision held constant for each comparison. The labels for Graph 11 are the same as those described in the discussion of relationship B-3.

   Implication - DSCP is a measure that correlates well with probation officers' assessments of probation experiences.

C. Effects on the failure rate of risk, supervision, and experience

1. Relationship - High risk appears to be associated with a high failure rate. Of the nine comparisons of failure rates presented in Graph 12 and Table 14,

six support this interpretation and three contradict it. Data counter to the general trend appears concentrated in subsequent experiences. (The labels on Graph 12 are identical to those on Graphs 4, 5, 6 and 8.)

Implication - Risk assessment appears to be an indicator of a probationer's likelihood of success. The contrary data pertaining to subsequent experiences may indicate that among chronic misdemeanants the risk assessment is a less reliable indicator, or is negatively correlated with the failure rate.

2. Relationship - High supervision appears to be associated with a high failure rate. Graph 13 and Table 15 provide data for twelve comparisons of failure rates varying only supervision, seven of which support the conclusion, four of which contradict the conclusion, and one of which indicates no difference. (The labels on Graph 13 are identical to those on Graphs 7 and 9.) However, comparing only minimum supervision experiences with maximum supervision experiences, the data support the conclusion that maximum supervision does not appear to be associated with a lower or higher failure rate than does minimum supervision.

   Implication - Increased supervision does not appear to be a cost effective technique for reducing failure among probationers. It may be that increased supervision reduces failure from certain causes but not from others.

3. Relationship - Failure rates among subsequent probationers appear higher than those among first experiences, as can be seen from Graph 14 and Table 16.

   Implication - A person is more likely to fail probation the more times he has been assigned to probation.

D. Discussion of the conclusions

1. Relationship between DSCP and probation costs - The observation that costs appear to increase as DSCP increases seems to coincide with expectations, that is, that misbehavior, as measured by the DSCP, will require increased supervision efforts among probation officers, as measured by the cost of providing supervision.

2. Relationship between DSCP and amounts collected - The observation that gross receipts appears to decrease as DSCP increases does not seem to have an

easy explanation. Judges may assess lower amounts from probationers likely to achieve a high DSCP, or else misbehavior corresponds to a decreased likelihood that a probationer will pay a specific assessment.

3. Relationship between probation costs and experience - Again, probationers assigned to probation several times may require increased supervision, and hence increased costs.

4. Relationship between experience and amounts collected - The observations that gross receipts appear to decrease among subsequent experiences when compared to first experiences does not seem to have an easy explanation. Judges may assess lower amounts from probationers who have been on probation more than once, perhaps due to an evaluation of ability to pay, or else persons on probation more than once are less likely to pay a specified assessment.

5. Relationship between risk assessment and probation costs - The observations that probation costs appear higher among high risk groups than among low risk groups seems to coincide with expectations, that is, that a tendency toward misbehavior or a background of problems will increase the amount of supervision required.

6. Relationship between risk assessment and amounts collected - The observation that gross receipts appear lower among high risk probationers than among low risk probationers does not seem to have an easy explanation. Judges may assess lower amounts from high risk probationers, perhaps because of apparent inability to pay, or else high risk probationers are less likely to pay a specified assessment. The exception among subsequent probation experiences does not have an apparent explanation.

7. Relationship between probation costs and supervision - The observation that probation costs are higher among increased supervision experiences is as expected, since probation costs may be a measure of supervision. Remarkable is the fact that the difference in costs between minimum and maximum supervision is relatively small, indicating that either probation officers are spending almost as much time on minimum supervision experiences as on maximum supervision experiences, or else that the quality of cost data recorded is not reasonably representative of supervision patterns.

8. Relationship between risk assessment and DSCP achieved - The observation that a higher DSCP is achieved among higher risk experiences than among lower risk experiences is as expected. The differences appear significant. This indicates that risk assessment is a good predictor of probationer behavior as measured by the DSCP.

9. Relationship between supervision level and DSCP achieved - The observation that a higher DSCP appears to correspond to increased supervision may be attributed to the possibility that increased supervision leads to increased detection of misbehavior, or perhaps a greater likelihood to record misbehavior.

10. Relationship between experience and DSCP - The observation that DSCP achieved appears higher among subsequent experiences than among first experiences seems logical if misbehavior is more likely among chronic misdemeanants assigned to probation.

11. Relationship between failure and DSCP - The observation that DSCP appears higher among experiences terminating in failure than among experiences terminating in success was expected. This may indicate that DSCP achieved is a good yardstick to measure probation officer evaluations of probationer behavior.

12. Relationship between risk assessment and failure rate - The apparent tendency for high risk experiences to achieve a high failure rate was expected. Because the tendency is weak, a stronger measure of the tendency to fail than the risk assessment may be available.

13. Relationship between supervision and failure rate - A weak and unanticipated tendency for increasing supervision from minimum to maximum to correspond to a high failure rate can be detected in the data. One undesirable inference is that high supervision leads to a high failure rate; an alternative inference is that increased supervision allows probation officers more frequent opportunities and more data on which to base a request for a revocation.

14. Relationship between experience and failure rate - The tendency for subsequent experiences to terminate in failure more frequently than first experiences was expected.

15. Overall level of probation costs - The average level of probation costs among all experiences was

approximately $88.13. Excluding intake costs of $62.05, and dividing by $0.317 per contact minute yields an average contact time of approximately 82 minutes per probation experience, in the absence of significant mileage costs.

16. Overall level of amounts collected - The average level of amounts collected from probationers among all experiences was approximately $48.68.

17. Overall level of DSCP achieved - The average DSCP achieved among all experiences was approximately 127. Among failures the average was 263, significantly greater. Neither figure approaches the tentative level of 600 points previously discussed among probation department and court personnel as a level for mandatory recommendation of revocation.

18. Overall failure rate - The average failure rate observed among all experiences was 45%.

19. Cost effectiveness of supervision - It was the consensus of the project team that the data analysis indicated that supervision of misdemeanant probationers, as supervision was administered during the study period, and is currently administered, is not a cost-effective technique for increasing the level of successful completion of probation, as measured by either the DSCP or the failure rate, subject to the following limitations and qualifications:

- Costs refer to the costs of supervision only. No consideration was given to possible costs of incarceration, if probation were not granted, nor to future costs of crime prevention, crime detection, criminal prosecution, incarceration, or related social costs;

- Effectiveness refers either to the measured failure rate or the measured DSCP, but not to broader measures of effectiveness such as reduced recidivism or greater rehabilitation;

- Measures of effectiveness used may have been significantly skewed due to the fact that increased supervision affords greater opportunity to gather evidence in support of a higher DSCP measurement and greater opportunity to issue a probation violation warrant, which could thereby significantly increase the failure rate and DSCP among highly supervised probationers.

TABLE 1

COSTS INCURRED

DSCP:	0	100	200	300	400	500	600	700	800	900	1,000	1,100+
Experience:												
First	80	85	93	103	99	119	109	116	103	151	140	122
Subsequent	90	91	96	92	97	131	107	117	124	75	232	139
All experiences combined	82	88	94	101	98	123	108	117	113	140	157	130

TABLE 2

GROSS RECEIPTS

DSCP:	0	100	200	300	400	500	600	700	800	900	1,000	1,100+
Experience:												
First	48	30	78	72	63	73	43	53	42	23	34	31
Subsequent	41	15	66	34	49	17	28	0	54	0	215	14
All experiences combined	47	24	75	65	56	53	37	21	48	20	67	23

TABLE 3

EXCESS OF COSTS OVER RECEIPTS

DSCP:	0	100	200	300	400	500	600	700	800	900	1,000	1,100+
Experience:												
First	31	55	14	31	37	46	66	63	61	128	107	91
Subsequent	49	77	29	58	48	114	79	117	70	75	17	125
All experiences combined	36	64	19	36	42	70	71	96	65	121	90	106

TABLE 4

PROBATION COSTS

Risk:	Low	Moderate	High
Experience:			
First	69	93	99
Subsequent	76	96	100
All experiences combined	70	94	99

TABLE 5

PROBATION COSTS

Supervision:	Unsupervised	Minimum	Maximum
Experience:			
First	73	97	98
Subsequent	82	97	102
All experiences combined	74	97	100

TABLE 6

COSTS INCURRED

Experience	Supervision	Risk: Low	Moderate	High
First	Unsupervised	69	89	-
First	Minimum	-	95	99
First	Maximum	-	97	99
Subsequent	Unsupervised	76	90	-
Subsequent	Minimum	-	95	99
Subsequent	Maximum	-	104	101
Combined	Unsupervised	70	89	-
Combined	Minimum	-	95	99
Combined	Maximum	-	99	100

TABLE 7

GROSS RECEIPTS

Experience	Supervision	Risk: Low	Moderate	High
First	Unsupervised	61	53	-
First	Minimum	-	52	35
First	Maximum	-	62	32
Subsequent	Unsupervised	42	54	-
Subsequent	Minimum	-	36	39
Subsequent	Maximum	-	26	50
Combined	Unsupervised	59	53	-
Combined	Minimum	-	47	37
Combined	Maximum	-	50	39

TABLE 8

EXCESS OF COSTS OVER RECEIPTS

Experience	Supervision	Risk: Low	Moderate	High
First	Unsupervised	8	35	-
First	Minimum	-	42	64
First	Maximum	-	35	67
Subsequent	Unsupervised	33	36	-
Subsequent	Minimum	-	60	60
Subsequent	Maximum	-	77	51
Combined	Unsupervised	11	35	-
Combined	Minimum	-	48	63
Combined	Maximum	-	49	60

TABLE 9

COSTS INCURRED

Experience	Risk	Level of Supervision			
		Unsupervised	Minimum	Maximum	All
First	Moderate	89	95	97	93
First	High	-	99	99	99
Subsequent	Moderate	90	95	104	96
Subsequent	High	-	99	101	100
Combined	Moderate	89	95	99	94
Combined	High	-	99	100	99
All experiences	Except low risk	89	97	100	97

TABLE 10

DSCP ACHIEVED

Experience	Supervision	Risk			
		Low	Moderate	High	All
First	Unsupervised	56	117	-	68
First	Minimum	-	122	155	138
First	Maximum	-	128	1996	169
Subsequent	Unsupervised	147	114	-	132
Subsequent	Minimum	-	184	176	179
Subsequent	Maximum	-	153	197	183
Combined	Unsupervised	67	116	-	78
Combined	Minimum	-	144	163	154
Combined	Maximum	-	136	196	174
All experiences		67	134	180	127

TABLE 11

DSCP ACHIEVED

Experience	Risk	Level of Supervision			
		Unsupervised	Minimum	Maximum	All
First	Moderate	117	122	128	122
First	High	-	155	196	175
Subsequent	Moderate	114	184	153	157
Subsequent	High	-	176	197	186
Combined	Moderate	116	144	136	134
Combined	High	-	163	196	180
All experiences	Except low risk	116	154	174	144

TABLE 12

DSCP ACHIEVED

Risk	Supervision	Experience		
		First	Subsequent	All
Low	Unsupervised	56	147	67
Moderate	Unsupervised	117	114	116
Moderate	Minimum	122	184	144
Moderate	Maximum	128	153	136
High	Minimum	155	176	163
High	Maximum	196	197	196
All experiences		110	169	127

TABLE 13

DSCP ACHIEVED

Risk	Supervision	Result		
		Success	Failure	All
Low	Unsupervised	1	215	67
Moderate	Unsupervised	27	225	116
Moderate	Minimum	27	253	144
Moderate	Maximum	25	256	136
High	Minimum	26	277	163
High	Maximum	26	331	196
All experiences		16	263	127

TABLE 14

FAILURE RATE (%)

Experience	Supervision	Risk			
		Low	Moderate	High	All
First	Unsupervised	29	44	-	32
First	Minimum	-	48	55	51
First	Maximum	-	43	56	51
Subsequent	Unsupervised	47	46	-	46
Subsequent	Minimum	-	59	55	56
Subsequent	Maximum	-	58	55	56
Combined	Unsupervised	31	45	-	34
Combined	Minimum	-	52	55	53
Combined	Maximum	-	48	56	53
All experiences		31	49	55	45

TABLE 15

FAILURE RATE (%)

Experience	Risk	Level of Supervision			
		Unsupervised	Minimum	Maximum	All
First	Moderate	44	48	43	46
First	High	-	55	56	55
Subsequent	Moderate	46	59	58	55
Subsequent	High	-	55	55	55
Combined	Moderate	45	52	48	49
Combined	High	-	55	56	55
All experiences	Except low risk	45	53	53	52

TABLE 16

FAILURE RATE (%)

Risk	Supervision	Experience		
		First	Subsequent	All
Low	Unsupervised	29	47	31
Moderate	Unsupervised	44	46	45
Moderate	Minimum	48	59	52
Moderate	Maximum	43	58	48
High	Minimum	55	55	55
High	Maximum	56	55	56
All experiences		41	54	45

IX. Recommendations

Recommendations are presented concerning changes to the data collection procedures, changes to the MIS, and directions for future research.

A. Recommended Changes to the Data Collection Procedures

1. Increase coordination of cash collection record keeping with the court. A court official collecting costs, fines, or restitution from a probationer should report such collection activity to the Probation Department, and the Data Coordinator should record the amounts assessed and paid in the MIS.

2. Implement additional controls over data collection to ensure that recorded data is accurate and that all pertinent data is recorded. Such controls may include the following:

   - Increased reconciliation among the MIS data, probationer file cards, court activity, and cashier transactions.

   - Continued audit by Probation Department management of randomly selected DPSL's, to assure the accuracy and reasonableness of contacts and point assessments recorded there.

B. Recommended Changes to the MIS

1. Record the status date and the termination date separately, and accumulate point, cost and revenue data through the termination date. Doing so will permit distinction in the data analysis between point, cost, and revenue data accumulated before the termination date and data accumulated after the termination date.

2. Implement additional validation logic for data entry to assure that the dates of all recorded activity fall on or after the start date of the probation experience, and on or before the termination date, if the probation experience has terminated.

C. Recommendations for Future Research

1. Conduct the study again under different conditions. The different conditions should include:

   - Implementation of the recommended changes to the data collection procedures.

   - Implementation of the recommended changes to the MIS.

   - Performance of the study after probation officers and Probation Department management have become accustomed to, and knowledgeable in, the data collection procedures. A significant portion of the present study period was spent in working out problems with the data collection procedures and in getting initial start-up data entered into the computer.

   Performance of the study a second time may be less expensive than the initial study because the required procedures and computer programs have been developed, and Probation Department personnel have been trained.

2. Conduct a similar study again, but with additional input data available for analysis. The additional data would include:

   - Demographic data, in place of the risk level assessment, such as the following:

     - Age
     - Sex
     - Marital status
     - Economic profile
     - Family background
     - Criminal record
     - History of drug and alcohol abuse

   - Prior probation history, including

     - Number of probation experiences
     - DSCP, if available, for each experience
     - Length of each experience
     - Result of each experience
     - Supervision assigned for each experience.

   The revised study could also allow multiple concurrent probation experiences to be analyzed for probationers.

3. Conduct a follow-on study of recidivism. Recidivism could be correlated with DSCP, result, costs incurred, receipts, risk, and supervision. The results of the study could be supplemented with measures of costs of various types of future behavior, such as costs of incarceration, probation, prosecution, and crime prevention, to determine an estimate of the long term costs and likely results of probation-related decisions.

4. Conduct a study with greater differences between minimum and maximum supervision. In the present study, average time spent per probationer for supervision following intake among maximum supervision probationers exceeded average time spent per probationer for supervision among minimum supervision probationers by less than 10%.

5. Investigate the causes for subsequent probation experiences to differ from first probation experiences when changes in DSCP, failure rate, and gross receipts are correlated with changes in risk level at intake.

Appendix A

MIS Reports

```
APPLE SSC:6B
AATDTDTT8877113366611


NO CARRIER

APPLE SSC:E D

APPLE SSC:8B
ATDT8711436

NO CARRIER

APPLE SSC:R
ATDT8713661

CONNECT

:HELLO,MGR.PRO
ENTER ACCOUNT PASSWORD:
ENTER USER PASSWORD:
HP3000 / MPE IV C.B1.00,  TUE, JUL 26, 193,  8:11 PM
**************************************************************
*                                                            *
*    THE COMPUTER WILL BE SHUT DOWN FROM :30 P.M. TO         *
*    8:00 P.M. TONIGHT, TUESDAY, JULY 26 983.  PLEASE        *
*    BE OFF THE SYSTEM BY 5:30 P.M.  THAN YOU,               *
*                                          S.B.D.P.          *
*                                                            *
**************************************************************
:LISTF

FILENAME

ALIST     AYBATCH   BATCH01   BATCH2    BATCH03   BATCH04
BATCIHN   BATCIN    BATDUP    BLIST     DEFHCC    DISCFILE
DOLL1     DOLL1A    DOLL1BV   DOLL2     DOLL2A    DOLL2BV
DSCP      DSCPA     DSCPBV    HCCFILE   HCCFORM3  HCCFORM4
HCCFORM5  HCCFORM6  HCCFORM7  HCCPRC    HCCTEMP   ODBCP
ODSCPA    PARTA     PARTB     PARTC     PARTD     PAYCHECK
PAYFILE   PAYFILE1  PAYFILE2  POFIL     POFILE1   QSBP10
QSBP20    QSEX      QSIN      QSLIS     REPORT    TESTAY
TESTAYSV  TESTDATA

:HCCDATA

INPUT DATABASE PASSWORD ==> READ

ENTER START DATE (MMDDYY)
010181
ENTER END DATE (MMDDYY)
123182
TOTAL UNSCREENED RECORDS:    253

END OF PROGRAM
 #J5
:
FROM/J5 MGR.PRO/FILE 'HCCFILE' IS READY
:
:
```

```
RECORDS READ            006819
VALID DATE RANGES       002920
DISTINCT FILE NUMBERS   006005
INCLUDED RECORDS        002756
EXCLUDED RECORDS        000164
MULTIPLE EXPERIENCES    000814
TOO LATE END DATE       003083
TOO EARLY START DATE    000002
INVALID RISK & SUPER    000000
INVALID STATUS          000000
INVALID COST            000000
INVALID TIMES ON PROB   000000

END OF PROGRAM
:
APPLE SSC:6B


M

APPLE SSC:8B

 ^
UNKNOWN COMMAND NAME.  (CIERR 975)
:BYE

CPU=725, CONNECT=96, TUE, JUL 26, 1983,  :47 PM
NO CARRIER

AT

OK
ATDT871

OK

APPLE SSC:6B
AT

OK
ATDT8713661

CONNECT

:HELLO,MGR.PRO
ENTER ACCOUNT PASSWORD:
ENTER USER PASSWORD:
HP3000 / MPE IV C.B1.00.  TUE, JUL 26, 1983,  9:48 PM
:FILE PRINTER=$STDLIST
:FILE HCCLIST=HCCFILE
:RUN DSCPBV


ENTER STUDY START DATE YYMMDD:
810101

ENTER END OF REPORT PERIOD YYMMDD:
821231

SHALL I PRINT STATUS/END ERRORS (Y/N)?:
Y

810101 THROUGH 821231 OKAY?
```

NUMBERS OF EXPERIENCES

RISK:		LOW	MODERATE	MODERATE	MODERATE	HIGH	HIGH	MODERATE	HIGH	ANY	ANY	ANY	ANY
SUPERVISION:		UNSUPER.	UNSUPER.	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	ANY	ANY	UNSUPER.	MINIMUM	MAXIMUM	ANY
RESULT	EXPER.												
FIRST	SUCCESS	562	109	146	96	124	113	351	237	671	270	209	1150
FIRST	FAILURE	225	87	134	73	149	145	294	294	312	283	218	813
FIRST	ANY	787	196	280	169	273	258	645	531	983	553	427	1963
LATER	SUCCESS	54	46	61	37	83	84	144	167	100	144	121	365
LATER	FAILURE	47	39	86	51	101	104	176	205	86	187	155	428
LATER	ANY	101	85	147	88	184	188	320	372	186	331	276	793
ANY	SUCCESS	616	155	207	133	207	197	495	404	771	414	330	1515
ANY	FAILURE	272	126	220	124	250	249	470	499	398	470	373	1241
ANY	ANY	888	281	427	257	457	446	965	903	1169	884	703	2756

ARTHUR YOUNG & COMPANY DATA ANALYSIS ORGANIZATION REPORTS - DATA FROM 810101 TO 821231
AVERAGE PC SCORES

RISK:		LOW	MODERATE	MODERATE	MODERATE	HIGH	HIGH	MODERATE	HIGH	ANY	ANY	ANY	ANY
SUPERVISION:		UNSUPER.	UNSUPER.	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	ANY	ANY	UNSUPER.	MINIMUM	MAXIMUM	ANY
RESULT	EXPER.												
FIRST	SUCCESS	1	33	15	22	37	33	23	35	6	25	28	15
	+/-	27	105	69	96	130	111	89	121	50	102	104	77
FIRST	FAILURE	194	221	240	267	253	323	241	288	201	247	304	245
	+/-	200	222	216	183	188	226	210	210	206	202	214	210
FIRST	ANY	56	117	122	128	155	196	122	175	68	138	169	110
	+/-	139	191	193	185	196	234	190	216	153	195	218	186
LATER	SUCCESS		13	57	32	10	16	36	13	6	30	21	20
	+/-		49	165	135	46	78	131	64	34	115	99	94
LATER	FAILURE	317	233	274	241	311	343	255	327	279	294	309	296
	+/-	96	220	198	253	199	204	220	202	168	199	226	203
LATER	ANY	147	114	184	153	176	197	157	186	132	179	183	169
	+/-	171	188	213	235	212	228	215	220	179	212	231	213
ANY	SUCCESS	1	27	27	25	26	26	27	26	6	27	26	16
	+/-	25	93	108	108	105	99	103	102	48	107	102	82
ANY	FAILURE	215	225	253	256	277	331	246	304	218	266	306	263
	+/-	192	221	209	214	194	217	214	207	201	202	218	209
ANY	ANY	67	116	144	136	163	196	134	180	78	154	174	127
	+/-	146	190	202	203	203	231	199	218	159	203	223	196

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RECORDS READ            006819
VALID DATE RANGES       002920
DISTINCT FILE NUMBERS   006005
INCLUDED RECORDS        002756
EXCLUDED RECORDS        000164
MULTIPLE EXPERIENCES    000814
TOO LATE END DATE       003083
TOO EARLY START DATE    000002
INVALID RISK & SUPER    000000
INVALID STATUS          000000
INVALID COST            000000
INVALID TIMES ON PROB   000000

END OF PROGRAM
:BYE

CPU=101. CONNECT=8. TUE, JUL 26, 1983,  9:55 PM
♪
NO CARRIER
```

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APPLE SSC:0555
ATDT8713661

CONNECT

:HELLO,MGR.PRO
ENTER ACCOUNT PASSWORD:
ENTER USER PASSWORD:
HP3000 / MPE IV C.B1.00.  TUE, JUL 26, 1983,  9:57 PM
:RUN DOLL1SV

HCCLIST
*** ERROR 542  OPEN SERVICE NOT GRANTED

+-F-I-L-E---I-N-F-O-R-M-A-T-I-O-N---D-I-S-P-L-A-Y+
!  ERROR NUMBER: 52    RESIDUE: 0                 !
!  BLOCK NUMBER: 0              NUMREC: 0         !
+-----------------------------------------------+

ABORT :DOLL1SV,PUB.PRO.%0,%47
PROGRAM ERROR #18 :PROCESS QUIT ,PARAM = 42

PROGRAM TERMINATED IN AN ERROR STATE.  (CIERR 976)
:FILE PRINTER=*STDLIST
:FILE HCCLIST=HCCFILE
:RUN DOLL1SV


ENTER STUDY START DATE YYMMDD:
810101

ENTER END OF REPORT PERIOD YYMMDD:
821231

SHALL I PRINT STATUS/END ERRORS (Y/N)?:
Y

810101 THROUGH 821231 OKAY?

TYPE Y TO CONFIRM:
Y
```

ARTHUR YOUNG & COMPANY DATA ANALYSIS ORGANIZATION REPORTS - DATA FROM 810101 TO 821231
FIRST EXPERIENCES
NUMBERS OF EXPERIENCES

RISK: DSCP SUPERVISION:	LOW UNSUPER.	MODERATE UNSUPER.	MODERATE MINIMUM	MODERATE MAXIMUM	HIGH MINIMUM	HIGH MAXIMUM	MODERATE ANY	HIGH ANY	ANY UNSUPER.	ANY MINIMUM	ANY MAXIMUM	ANY ANY
0	671.00	137.00	200.00	116.00	168.00	148.00	453.00	316.00	808.00	368.00	264.00	1440.00
100	9.00	5.00	7.00	2.00	9.00	12.00	14.00	21.00	14.00	16.00	14.00	44.00
200	61.00	26.00	34.00	31.00	48.00	35.00	91.00	83.00	87.00	82.00	66.00	235.00
300	5.00	5.00	6.00	3.00	8.00	7.00	14.00	15.00	10.00	14.00	10.00	34.00
400	6.00	5.00	4.00	0.00	4.00	7.00	9.00	11.00	11.00	8.00	7.00	26.00
500	1.00	1.00	3.00	1.00	1.00	4.00	5.00	5.00	2.00	4.00	5.00	11.00
600	22.00	9.00	14.00	10.00	24.00	24.00	33.00	48.00	31.00	38.00	34.00	103.00
700	0.00	0.00	1.00	0.00	1.00	2.00	1.00	3.00	0.00	2.00	2.00	4.00
800	2.00	3.00	1.00	1.00	3.00	7.00	5.00	10.00	5.00	4.00	8.00	17.00
900	0.00	1.00	2.00	0.00	0.00	3.00	3.00	3.00	1.00	2.00	3.00	6.00
1000	2.00	1.00	0.00	1.00	3.00	2.00	2.00	5.00	3.00	3.00	3.00	9.00
1000+	8.00	3.00	8.00	4.00	4.00	7.00	15.00	11.00	11.00	12.00	11.00	34.00
0k	787.00	196.00	280.00	169.00	273.00	258.00	645.00	531.00	983.00	553.00	427.00	1963.00

FIRST EXPERIENCES
EXCESS OF RECEIPTS OVER COSTS

DSCP	RISK: SUPERVISION:	LOW UNSUPER.	MODERATE UNSUPER.	MODERATE MINIMUM	MODERATE MAXIMUM	HIGH MINIMUM	HIGH MAXIMUM	MODERATE ANY	HIGH ANY	ANY UNSUPER.	ANY MINIMUM	ANY MAXIMUM	ANY ANY
0		-8.43	-33.86	-39.56	-43.81	-68.52	-66.92	-38.92	-67.77	-12.74	-52.78	-56.76	-31.05
+/-		113.77	116.15	104.82	91.30	72.19	80.77	105.03	76.20	114.50	92.40	86.16	106.38
100		-52.11	8.32	-88.80	-76.39	-92.43	-77.87	-52.34	-58.40	-30.53	-57.09	-77.66	-55.18
+/-		62.19	188.93	46.75	78.37	123.73	15.49	121.18	82.38	119.44	99.36	26.00	91.24
200		16.17	-21.91	-1.11	-15.52	-43.60	-33.46	-11.96	-39.33	4.79	-25.98	-25.04	-14.32
+/-		140.87	106.44	188.85	196.33	79.12	84.96	170.73	81.28	132.09	136.40	147.13	138.14
300		99.47	-28.17	-81.28	104.97	-81.68	-85.14	-22.40	-83.30	35.65	-81.51	-28.11	-31.34
+/-		289.88	138.09	80.42	190.55	84.33	16.67	138.92	60.65	224.39	79.47	129.18	152.32
400		24.49	-88.12	-47.10	0.00	-33.85	-48.42	-69.89	-43.12	-26.69	-40.47	-48.42	-36.78
+/-		118.09	83.29	60.91	0.00	101.16	113.37	72.99	104.09	114.92	77.63	113.37	100.70
500		-100.10	-82.34	-73.11	-13.44	221.33	-77.75	-63.02	-17.94	-91.22	0.50	-64.89	-45.90
+/-		0.00	0.00	82.21	0.00	0.00	171.22	64.52	199.69	12.53	161.80	151.05	135.82
600		-40.39	-90.32	-101.31	-9.22	-74.56	-75.68	-70.40	-75.12	-54.88	-84.42	-56.13	-66.19
+/-		92.50	61.70	61.89	129.33	92.16	90.34	94.40	90.28	86.81	82.44	105.80	92.20
700		0.00	0.00	42.51	0.00	-62.08	-116.74	42.51	-98.52	0.00	-9.78	-116.74	-63.26
+/-		0.00	0.00	0.00	0.00	0.00	45.97	0.00	45.30	0.00	73.95	45.97	79.62
800		-78.78	3.22	-133.39	-103.27	-84.03	-56.86	-45.40	-65.01	-29.58	-96.37	-62.66	-60.86
+/-		16.37	156.94	0.00	0.00	13.42	55.34	129.85	47.48	120.00	27.00	53.80	75.00
900		0.00	-12.72	-88.36	0.00	0.00	-193.01	-63.15	-193.01	-12.72	-88.36	-193.01	-128.08
+/-		0.00	0.00	23.30	0.00	0.00	95.41	46.68	95.41	0.00	23.30	95.41	97.84
1000		-106.66	-68.81	0.00	49.94	-130.85	-167.19	-9.43	-145.39	-94.04	-130.85	-94.81	-106.57
+/-		72.79	0.00	0.00	0.00	29.83	100.72	83.96	58.11	55.91	29.83	144.18	80.83
1000+		-67.47	-55.75	-92.54	-83.92	-147.24	-104.56	-82.88	-120.08	-64.27	-110.77	-97.06	-91.29
+/-		65.28	128.90	103.97	81.95	58.50	29.15	97.10	44.72	79.61	92.40	51.31	77.18
0k		-8.13	-35.12	-42.47	-34.88	-64.28	-67.24	-38.25	-65.72	-13.51	-53.24	-54.43	-33.60
+/-		116.79	114.20	115.69	121.40	79.98	82.43	116.64	81.12	116.72	100.18	100.81	110.70

ARTHUR YOUNG & COMPANY DATA ANALYSIS ORGANIZATION REPORTS - DATA FROM 810101 TO 821231
FIRST EXPERIENCES
AVERAGE GROSS RECEIPTS

RISK: DSCP SUPERVISION:	LOW UNSUPER.	MODERATE UNSUPER.	MODERATE MINIMUM	MODERATE MAXIMUM	HIGH MINIMUM	HIGH MAXIMUM	MODERATE ANY	HIGH ANY	ANY UNSUPER.	ANY MINIMUM	ANY MAXIMUM	ANY ANY
0	58.51	50.01	50.49	47.36	25.92	25.25	49.54	25.60	57.07	39.27	34.96	48.47
+/-	113.82	112.36	103.25	92.48	66.13	74.60	103.29	70.11	113.55	88.99	83.49	103.06
100	19.62	82.41	18.18	69.69	32.82	0.00	48.48	22.64	42.04	37.66	9.95	30.24
+/-	58.86	184.29	48.09	98.55	120.17	0.00	115.20	80.59	116.43	94.56	37.24	88.53
200	91.43	61.76	96.56	97.01	54.04	67.07	86.77	59.53	82.56	71.67	81.13	78.36
+/-	141.71	120.07	191.90	40.58	70.78	86.95	135.31	77.77	135.60	135.48	70.29	120.45
300	167.86	96.15	29.12	214.79	38.98	0.00	92.84	20.79	132.00	34.75	64.43	72.08
+/-	287.37	149.78	64.20	214.62	79.78	0.00	144.52	59.89	219.32	70.98	144.92	150.09
400	102.29	26.05	42.61	0.00	63.78	65.21	33.41	64.69	67.64	53.19	65.21	62.54
+/-	123.41	43.76	56.89	0.00	102.65	86.35	47.40	87.38	99.82	77.65	86.35	86.64
500	0.00	0.00	69.69	67.00	309.06	55.00	55.21	105.81	0.00	129.53	57.40	73.19
+/-	0.00	0.00	61.11	0.00	0.00	97.12	53.11	141.36	0.00	129.67	84.28	101.74
600	45.34	10.86	16.81	88.42	49.88	42.17	36.89	46.02	35.33	37.69	55.77	42.95
+/-	94.86	25.94	43.29	121.35	84.89	78.29	79.17	80.88	82.05	73.48	93.52	82.77
700	0.00	0.00	135.00	0.00	75.75	0.00	135.00	25.25	0.00	105.37	0.00	52.68
+/-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.73	0.00	41.89	0.00	65.47
800	15.00	126.04	0.00	0.00	0.00	44.45	75.62	31.11	81.62	0.00	38.89	42.31
+/-	21.21	112.22	0.00	0.00	0.00	84.84	105.18	72.53	100.54	0.00	80.11	79.19
900	0.00	139.38	0.00	0.00	0.00	0.00	46.46	0.00	139.38	0.00	0.00	23.23
+/-	0.00	0.00	0.00	0.00	0.00	0.00	80.47	0.00	0.00	0.00	42.08	56.89
1000	15.00	145.44	0.00	126.25	0.00	0.00	135.84	0.00	58.48	0.00	72.88	33.52
+/-	21.21	0.00	0.00	0.00	0.00	0.00	13.53	0.00	76.79	0.00	15.05	59.03
1000+	54.42	73.73	25.14	30.04	3.75	6.49	36.17	5.49	59.68	18.01	37.43	30.54
+/-	70.14	127.70	71.13	60.09	7.48	17.18	77.56	13.96	82.38	57.84	43.59	63.37
0k	60.94	53.38	52.26	62.02	35.12	31.51	55.16	33.36	59.43	43.80	83.27	51.58
+/-	116.70	112.00	113.06	92.27	73.12	74.55	107.58	73.77	115.76	95.75		104.19

ARTHUR YOUNG & COMPANY DATA ANALYSIS ORGANIZATION REPORTS - DATA FROM 810101 TO 821231
FIRST EXPERIENCES
AVERAGE FINES COLLECTED

DSCP	RISK: SUPERVISION:	LOW UNSUPER.	MODERATE UNSUPER.	MODERATE MINIMUM	MODERATE MAXIMUM	HIGH MINIMUM	HIGH MAXIMUM	MODERATE ANY	HIGH ANY	ANY UNSUPER.	ANY MINIMUM	ANY MAXIMUM	ANY ANY
0		39.63	34.00	30.30	32.09	15.02	19.02	31.87	16.89	38.68	23.32	24.76	32.20
+/-		84.88	74.81	65.45	74.67	45.55	62.69	70.65	54.20	83.25	57.66	68.39	75.12
100		16.81	70.70	14.42	50.50	49.23	0.00	39.67	21.10	36.05	34.00	7.21	26.13
+/-		50.44	158.09	38.17	71.41	114.80	0.00	97.40	76.77	99.86	89.04	26.98	78.57
200		64.68	47.00	40.39	43.51	41.35	41.74	43.34	41.51	59.40	40.95	42.57	48.23
+/-		122.05	110.37	61.22	58.87	60.10	58.40	76.94	59.03	118.32	60.19	58.17	86.10
300		121.20	80.80	20.20	134.66	12.61	0.00	66.37	6.72	101.00	15.86	40.40	48.12
+/-		271.01	131.69	49.48	116.62	23.35	0.00	102.52	17.75	202.00	35.36	85.17	122.09
400		41.88	20.20	25.25	0.00	5.20	50.50	22.44	34.02	32.02	15.22	50.50	31.83
+/-		66.91	45.17	50.50	0.00	10.39	65.19	44.53	55.72	56.42	35.41	65.19	53.20
500		0.00	0.00	58.91	0.00	232.30	0.00	35.35	46.46	0.00	102.26	0.00	37.18
+/-		0.00	0.00	52.55	0.00	0.00	0.00	49.21	103.88	0.00	96.73	0.00	73.95
600		37.63	6.59	5.05	73.15	38.44	25.43	26.11	31.93	28.62	26.14	39.46	31.28
+/-		79.42	19.47	18.89	117.94	72.45	61.29	71.72	66.72	68.71	60.46	83.06	70.58
700		0.00	0.00	90.56	0.00	50.50	0.00	90.56	16.83	0.00	70.53	0.00	35.26
+/-		0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.15	0.00	28.32	0.00	43.87
800		5.40	0.00	0.00	0.00	0.00	7.21	0.00	5.05	2.16	0.00	6.31	3.60
+/-		7.62	0.00	0.00	0.00	0.00	19.08	0.00	15.97	4.80	0.00	17.83	12.33
900		0.00	101.00	0.00	0.00	0.00	0.00	33.66	0.00	101.00	0.00	0.00	16.83
+/-		0.00	0.00	0.00	0.00	0.00	0.00	58.31	0.00	0.00	0.00	0.00	41.23
1000		5.40	101.00	0.00	101.00	0.00	0.00	101.00	0.00	37.27	0.00	33.66	23.64
+/-		7.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55.45	0.00	58.31	43.99
1000+		44.82	67.33	0.00	25.25	0.00	3.75	20.20	2.38	50.96	0.00	11.56	20.23
+/-		61.89	116.62	0.00	50.50	0.00	9.90	56.62	7.87	74.24	0.00	30.68	49.44
	0k	41.62	36.74	28.91	38.52	23.00	20.60	33.80	21.83	40.65	25.99	27.69	33.70
+/-		89.50	82.24	61.21	75.73	55.48	57.41	72.01	56.38	88.09	58.47	65.78	76.38

DSCP	RISK: SUPERVISION:	LOW UNSUPER.	MODERATE UNSUPER.	MODERATE MINIMUM	MODERATE MAXIMUM	HIGH MINIMUM	HIGH MAXIMUM	MODERATE ANY	HIGH ANY	ANY UNSUPER.	ANY MINIMUM	ANY MAXIMUM	ANY ANY
0		70.00	60.00	86.00	58.00	115.00	115.00	204.00	230.00	130.00	201.00	173.00	504.00
100		4.00	1.00	5.00	6.00	10.00	7.00	12.00	17.00	5.00	15.00	13.00	33.00
200		13.00	15.00	24.00	6.00	22.00	22.00	45.00	44.00	28.00	46.00	28.00	102.00
300		1.00	0.00	2.00	1.00	2.00	2.00	3.00	4.00	1.00	4.00	3.00	8.00
400		1.00	1.00	8.00	3.00	2.00	7.00	12.00	9.00	2.00	10.00	10.00	22.00
500		1.00	0.00	0.00	0.00	4.00	1.00	0.00	5.00	1.00	4.00	1.00	6.00
600		4.00	5.00	13.00	8.00	17.00	19.00	26.00	36.00	9.00	30.00	27.00	66.00
700		0.00	0.00	1.00	2.00	0.00	3.00	3.00	3.00	0.00	1.00	5.00	6.00
800		2.00	1.00	3.00	2.00	4.00	4.00	6.00	8.00	3.00	7.00	6.00	16.00
900		0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
1000		1.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	2.00
1000+		4.00	2.00	4.00	2.00	7.00	8.00	8.00	15.00	6.00	11.00	10.00	27.00
0k		101.00	85.00	147.00	88.00	184.00	188.00	320.00	372.00	186.00	331.00	276.00	793.00

SUBSEQUENT EXPERIENCES
EXCESS OF RECEIPTS OVER COSTS

DSCP	RISK: SUPERVISION:	LOW UNSUPER.	MODERATE UNSUPER.	MODERATE MINIMUM	MODERATE MAXIMUM	HIGH MINIMUM	HIGH MAXIMUM	MODERATE ANY	HIGH ANY	ANY UNSUPER.	ANY MINIMUM	ANY MAXIMUM	ANY ANY
0		-30.63	-41.89	-60.72	-78.58	-47.18	-40.33	-60.26	-43.75	-35.83	-52.97	-53.15	-48.61
+/-		76.53	82.24	64.24	60.21	84.30	109.02	70.06	97.29	79.11	76.49	96.99	84.88
100		26.02	-115.95	-95.95	-120.49	-80.15	-74.22	-109.89	-77.71	-2.37	-85.42	-95.57	-76.83
+/-		118.04	0.00	57.72	45.42	16.46	25.59	47.98	20.17	120.34	34.44	42.00	63.51
200		-31.56	36.07	-8.85	30.57	-84.95	-55.29	11.37	-70.12	4.67	-45.24	-36.89	-29.25
+/-		69.39	165.62	105.96	185.17	68.11	79.34	137.75	74.60	131.11	96.85	111.93	112.15
300		-66.80	0.00	-108.81	-147.66	-69.18	52.55	-121.76	-8.31	-66.80	-88.99	-14.18	-58.16
+/-		0.00	0.00	54.93	0.00	10.05	201.53	44.84	136.06	0.00	39.53	183.49	108.04
400		-197.13	-84.24	-31.41	-89.57	-111.99	-2.84	-50.35	-27.09	-140.58	-47.53	-28.86	-47.51
+/-		0.00	0.00	61.97	19.49	70.62	102.77	57.42	104.22	79.82	68.52	94.24	84.34
500		-103.27	0.00	0.00	0.00	-116.35	-113.42	0.00	-115.77	-103.27	-116.35	-113.42	-113.68
+/-		0.00	0.00	0.00	0.00	111.45	0.00	0.00	96.52	0.00	111.45	0.00	86.49
600		-59.29	-81.91	-105.09	-77.49	-82.14	-63.77	-92.14	-72.44	-71.86	-92.09	-67.83	-79.41
+/-		39.95	47.48	58.79	125.38	76.67	124.50	81.23	103.66	43.21	69.33	122.49	92.27
700		0.00	0.00	-87.10	-86.62	0.00	-148.21	-86.78	-148.21	0.00	-87.10	-123.57	-117.49
+/-		0.00	0.00	0.00	7.81	0.00	41.38	5.48	41.38	0.00	0.00	44.82	42.77
800		70.72	-333.17	-26.09	-94.07	-51.35	-112.70	-99.93	-82.02	-63.91	-40.52	-106.49	-69.64
+/-		225.88	0.00	251.34	27.35	76.49	49.48	198.95	68.06	282.64	155.45	41.36	147.76
900		0.00	0.00	-75.05	0.00	0.00	0.00	-75.05	0.00	0.00	-75.05	0.00	-75.05
+/-		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000		-49.22	0.00	0.00	0.00	14.24	0.00	0.00	14.24	-49.22	14.24	0.00	-17.49
+/-		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.87
1000+		-101.87	-77.26	-200.62	-151.94	-85.95	-197.71	-157.61	-113.56	-93.67	-127.65	-140.56	-124.88
+/-		28.98	12.53	70.06	12.77	81.10	57.18	71.14	71.89	26.40	93.63	50.95	68.75
0k		-33.37	-36.11	-59.81	-77.25	-60.39	-51.12	-58.31	-55.71	-34.62	-60.14	-59.45	-53.91
+/-		80.21	108.19	83.80	82.95	80.21	105.29	91.67	93.72	93.78	81.69	99.32	91.52

SUBSEQUENT EXPERIENCES
AVERAGE GROSS RECEIPTS

DSCP	RISK: SUPERVISION:	LOW UNSUPER.	MODERATE UNSUPER.	MODERATE MINIMUM	MODERATE MAXIMUM	HIGH MINIMUM	HIGH MAXIMUM	MODERATE ANY	HIGH ANY	ANY UNSUPER.	ANY MINIMUM	ANY MAXIMUM	ANY ANY
0		39.63	43.53	25.87	21.98	44.99	57.57	29.95	51.28	41.43	36.81	45.64	41.03
+/-		78.56	80.39	60.99	51.80	81.82	102.90	65.34	92.97	79.13	74.07	90.50	81.26
100		92.66	0.00	10.03	0.00	0.00	8.30	4.18	3.41	74.13	3.34	4.46	14.51
+/-		121.77	0.00	22.43	0.00	0.00	21.95	14.46	14.07	113.31	12.92	16.09	49.30
200		42.73	124.05	87.89	123.90	27.38	41.35	104.75	34.36	86.29	58.95	59.04	66.48
+/-		60.19	161.84	101.20	214.26	46.36	74.59	138.69	61.78	129.99	84.68	118.40	107.75
300		0.00	0.00	0.00	0.00	0.00	135.84	0.00	67.92	0.00	0.00	90.56	33.96
+/-		0.00	0.00	0.00	0.00	0.00	192.11	0.00	135.84	0.00	0.00	156.86	96.05
400		0.00	0.00	61.62	1.75	0.00	82.84	41.52	64.43	0.00	49.30	58.51	49.00
+/-		0.00	0.00	68.48	3.00	0.00	102.24	62.19	95.78	0.00	65.74	92.22	75.95
500		0.00	0.00	0.00	0.00	25.83	0.00	0.00	20.67	0.00	25.83	0.00	17.22
+/-		0.00	0.00	0.00	0.00	51.67	0.00	0.00	46.22	0.00	51.67	0.00	42.19
600		49.99	16.16	0.00	38.42	17.74	49.14	14.92	34.31	31.19	10.05	45.96	27.62
+/-		60.03	36.12	0.00	108.67	56.69	111.52	61.71	90.10	48.19	43.05	108.69	78.24
700		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+/-		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800		170.18	0.00	120.19	0.00	42.48	0.00	60.09	21.24	113.45	75.78	0.00	54.43
+/-		240.68	0.00	208.17	0.00	84.96	0.00	147.20	60.07	196.51	140.64	0.00	123.11
900		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+/-		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000		16.00	0.00	0.00	0.00	414.00	0.00	0.00	414.00	16.00	414.00	0.00	215.00
+/-		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	281.43
1000+		6.31	0.00	0.00	0.00	50.20	1.25	0.00	24.09	4.20	31.94	1.00	14.32
+/-		12.61	0.00	0.00	0.00	83.99	3.46	0.00	60.56	10.30	69.81	3.16	46.07
	0k	42.40	53.57	35.63	26.48	38.67	49.91	37.88	44.35	47.50	37.32	42.44	41.49
+/-		79.87	100.90	74.20	78.44	77.88	96.24	83.56	87.71	90.01	76.17	91.46	85.03

ARTHUR YOUNG & COMPANY DATA ANALYSIS ORGANIZATION REPORTS - DATA FROM 810101 TO 821231
SUBSEQUENT EXPERIENCES
AVERAGE FINES COLLECTED

RISK: DSCP SUPERVISION:	LOW UNSUPER.	MODERATE UNSUPER.	MODERATE MINIMUM	MODERATE MAXIMUM	HIGH MINIMUM	HIGH MAXIMUM	MODERATE ANY	HIGH ANY	ANY UNSUPER.	ANY MINIMUM	ANY MAXIMUM	ANY ANY
0	31.13	35.41	18.47	15.59	17.83	32.50	22.63	25.16	33.10	18.10	26.83	24.97
+/-	66.09	69.46	48.70	40.89	49.75	65.67	54.18	58.59	67.43	49.18	58.96	57.91
100	82.06	0.00	6.20	0.00	0.00	0.00	2.58	0.00	65.65	2.06	0.00	10.88
+/-	107.87	0.00	13.86	0.00	0.00	0.00	8.94	0.00	100.36	8.00	0.00	42.90
200	34.65	62.75	64.38	120.70	19.62	34.66	71.35	27.14	49.70	42.97	53.09	47.60
+/-	52.00	72.71	93.15	212.66	38.55	71.96	108.36	57.56	64.40	75.09	117.03	85.45
300	0.00	0.00	0.00	0.00	0.00	126.25	0.00	63.12	0.00	0.00	84.16	31.56
+/-	0.00	0.00	0.00	0.00	0.00	178.54	0.00	126.25	0.00	0.00	145.78	89.27
400	0.00	0.00	44.20	0.00	0.00	58.43	29.46	45.45	0.00	35.36	40.90	34.66
+/-	0.00	0.00	49.86	0.00	0.00	83.68	45.34	76.92	0.00	47.76	73.93	58.76
500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+/-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600	37.87	0.00	0.00	33.62	10.39	36.60	10.34	24.23	16.83	5.89	35.72	19.58
+/-	48.34	0.00	0.00	95.10	29.68	96.95	52.74	73.57	35.71	22.65	94.57	64.49
700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+/-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800	151.50	0.00	101.00	0.00	37.68	0.00	50.50	18.84	101.00	64.82	0.00	47.29
+/-	214.25	0.00	174.94	0.00	75.37	0.00	123.70	53.29	174.94	119.10	0.00	106.63
900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+/-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000	2.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.87	0.00	0.00	1.43
+/-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00
1000+	6.31	0.00	0.00	0.00	40.51	0.00	0.00	18.90	4.20	25.77	0.00	11.43
+/-	12.61	0.00	0.00	0.00	77.43	0.00	0.00	54.83	10.30	63.36	0.00	41.39
0k	34.06	36.07	25.99	21.56	16.81	31.15	27.45	24.06	34.98	20.89	28.09	26.70
+/-	68.34	67.47	61.74	72.27	46.31	68.99	66.32	59.23	67.77	53.82	70.06	63.36

ALL EXPERIENCES
NUMBERS OF EXPERIENCES

RISK: DSCP SUPERVISION:	LOW UNSUPER.	MODERATE UNSUPER.	MODERATE MINIMUM	MODERATE MAXIMUM	HIGH MINIMUM	HIGH MAXIMUM	MODERATE ANY	HIGH ANY	ANY UNSUPER.	ANY MINIMUM	ANY MAXIMUM	ANY ANY
0	741.00	197.00	286.00	174.00	283.00	263.00	657.00	546.00	938.00	569.00	437.00	1944.00
100	13.00	6.00	12.00	8.00	19.00	19.00	26.00	38.00	19.00	31.00	27.00	77.00
200	74.00	41.00	58.00	37.00	70.00	57.00	136.00	127.00	115.00	128.00	94.00	337.00
300	6.00	5.00	8.00	4.00	10.00	9.00	17.00	19.00	11.00	18.00	13.00	42.00
400	7.00	6.00	12.00	3.00	6.00	14.00	21.00	20.00	13.00	18.00	17.00	48.00
500	2.00	1.00	3.00	1.00	5.00	5.00	5.00	10.00	3.00	8.00	6.00	17.00
600	26.00	14.00	27.00	18.00	41.00	43.00	59.00	84.00	40.00	68.00	61.00	169.00
700	0.00	0.00	2.00	2.00	1.00	5.00	4.00	6.00	0.00	3.00	7.00	10.00
800	4.00	4.00	4.00	3.00	7.00	11.00	11.00	18.00	8.00	11.00	14.00	33.00
900	0.00	1.00	3.00	0.00	0.00	3.00	4.00	3.00	1.00	3.00	3.00	7.00
1000	3.00	1.00	0.00	1.00	4.00	2.00	2.00	6.00	4.00	4.00	3.00	11.00
1000+	12.00	5.00	12.00	6.00	11.00	15.00	23.00	26.00	17.00	23.00	21.00	61.00
0k	888.00	281.00	427.00	257.00	457.00	446.00	965.00	903.00	1169.00	884.00	703.00	2756.00

ARTHUR YOUNG & COMPANY DATA ANALYSIS ORGANIZATION REPORTS - DATA FROM 810101 TO 821231

ALL EXPERIENCES

EXCESS OF RECEIPTS OVER COSTS

DSCP	RISK: SUPERVISION:	LOW UNSUPER.	MODERATE UNSUPER.	MODERATE MINIMUM	MODERATE MAXIMUM	HIGH MINIMUM	HIGH MAXIMUM	MODERATE ANY	HIGH ANY	ANY UNSUPER.	ANY MINIMUM	ANY MAXIMUM	ANY ANY
0		-10.53	-36.31	-45.92	-55.40	-59.85	-55.29	-45.55	-57.65	-15.94	-52.85	-55.33	-35.60
+/-		110.94	106.82	94.85	83.70	77.90	94.90	96.01	86.46	110.53	87.04	90.51	101.51
100		-28.07	-12.39	-91.78	-109.46	-57.55	-76.52	-78.90	-67.03	-23.12	-70.80	-86.28	-64.46
+/-		86.43	176.43	49.17	52.61	86.83	19.18	97.49	62.76	116.98	75.48	35.14	80.78
200		7.79	-0.70	-4.31	-8.05	-56.60	-41.89	-4.24	-50.00	4.76	-32.91	-28.57	-18.84
+/-		131.55	132.22	158.72	192.82	77.78	82.81	160.43	80.09	131.27	123.60	137.11	130.83
300		71.76	-28.17	-88.16	41.81	-79.18	-54.54	-39.93	-67.51	25.33	-83.17	-24.89	-36.45
+/-		268.02	138.09	72.20	200.40	74.63	94.72	132.12	83.26	215.10	71.53	134.78	144.16
400		-7.16	-87.47	-36.64	-89.57	-59.90	-25.63	-58.72	-35.91	-44.23	-44.39	-36.91	-41.70
+/-		136.52	74.52	59.29	19.49	93.62	106.61	69.58	101.70	115.62	70.57	99.57	92.75
500		-101.68	-82.34	-73.11	-13.44	-48.82	-84.89	-63.02	-66.85	-95.23	-57.92	-72.98	-69.82
+/-		2.00	0.00	82.21	0.00	179.23	149.14	64.52	156.60	11.27	142.98	136.54	122.40
600		-43.30	-87.32	-103.13	-39.56	-77.70	-70.41	-79.98	-73.97	-58.70	-87.80	-61.31	-71.35
+/-		86.19	55.26	59.28	128.63	85.14	105.58	88.76	95.65	78.94	76.47	112.66	92.17
700		0.00	0.00	-22.29	-86.62	-62.08	-135.62	-54.45	-123.36	0.00	-35.55	-121.62	-95.80
+/-		0.00	0.00	91.65	7.81	0.00	41.00	64.80	47.39	0.00	68.75	41.27	62.56
800		-4.03	-80.87	-52.92	-97.14	-65.35	-77.16	-75.14	-72.57	-42.45	-60.83	-81.44	-65.12
+/-		156.67	211.45	212.11	20.05	57.37	58.02	165.37	56.36	177.11	124.54	52.18	114.31
900		0.00	-12.72	-83.92	0.00	0.00	-193.01	-66.12	-193.01	-12.72	-83.92	-193.01	-120.50
+/-		0.00	0.00	18.17	0.00	0.00	95.41	38.57	95.41	0.00	18.17	95.41	91.53
1000		-87.51	-68.81	0.00	49.94	-94.58	-167.19	-9.43	-118.78	-82.83	-94.58	-94.81	-90.37
+/-		61.22	0.00	0.00	0.00	76.53	100.72	83.96	83.36	50.85	76.53	144.18	82.01
1000+		-78.94	-64.35	-128.57	-106.59	-108.23	-122.24	-108.88	-116.32	-74.65	-118.84	-117.77	-106.16
+/-		56.82	92.12	105.11	72.77	77.00	47.87	94.53	60.87	66.24	91.26	54.60	74.88
0k		-11.00	-35.42	-48.44	-49.39	-62.72	-60.45	-44.90	-61.60	-16.87	-55.82	-56.40	-39.45
+/-		113.47	112.22	106.02	111.43	80.01	92.99	109.36	86.62	113.61	93.70	100.18	105.92

ARTHUR YOUNG & COMPANY DATA ANALYSIS ORGANIZATION REPORTS - DATA FROM 810101 TO 821231
ALL EXPERIENCES
AVERAGE GROSS RECEIPTS

RISK: DSCP SUPERVISION:	LOW UNSUPER.	MODERATE UNSUPER.	MODERATE MINIMUM	MODERATE MAXIMUM	HIGH MINIMUM	HIGH MAXIMUM	MODERATE ANY	HIGH ANY	ANY UNSUPER.	ANY MINIMUM	ANY MAXIMUM	ANY ANY
0	56.73	48.04	43.08	38.90	33.67	39.38	43.46	36.42	54.90	38.40	99.19	46.54
+/-	111.07	103.50	93.17	81.93	73.38	89.38	93.57	81.45	109.53	83.97	86.39	97.91
100	42.09	68.68	14.78	17.42	25.02	3.05	28.03	14.04	50.49	21.06	7.31	23.50
+/-	85.14	168.23	38.24	49.27	84.57	13.30	36.60	60.75	113.38	69.66	28.65	74.29
200	82.87	84.55	92.98	101.37	45.66	57.14	92.72	50.81	83.47	67.10	74.55	74.77
+/-	132.09	138.20	159.60	88.59	64.98	82.68	136.19	73.37	133.70	119.52	87.33	116.72
300	139.88	96.15	21.84	161.09	31.18	30.18	76.46	30.71	120.00	27.03	70.46	64.82
+/-	266.01	149.78	55.90	205.53	72.25	90.56	135.28	79.09	211.84	63.82	141.36	141.20
400	87.68	21.71	55.28	1.75	42.52	74.03	38.04	64.57	57.23	51.03	61.27	56.34
+/-	119.10	40.56	62.88	3.00	86.06	91.38	55.16	88.77	94.60	69.10	87.13	81.34
500	0.00	0.00	69.69	67.00	82.48	44.00	55.21	63.24	0.00	77.68	47.83	59.44
+/-	0.00	0.00	61.11	0.00	134.33	87.64	53.11	108.83	0.00	106.87	78.94	88.24
600	46.06	12.75	8.71	66.20	36.55	45.25	27.21	41.00	34.40	25.50	51.43	36.97
+/-	89.41	28.67	31.78	115.38	75.41	93.27	72.25	84.63	75.22	63.05	99.77	81.14
700	0.00	0.00	67.50	0.00	75.75	0.00	33.75	12.62	0.00	70.25	0.00	21.07
+/-	0.00	0.00	95.46	0.00	0.00	0.00	67.50	30.92	0.00	67.66	0.00	46.57
800	92.59	94.53	90.14	0.00	24.27	28.29	67.15	26.72	93.56	48.22	22.22	48.18
+/-	165.79	111.21	180.28	0.00	64.23	69.44	123.79	65.54	130.69	115.46	62.08	101.38
900	0.00	139.38	0.00	0.00	0.00	0.00	34.84	0.00	139.38	0.00	0.00	19.91
+/-	0.00	0.00	0.00	0.00	0.00	0.00	69.69	0.00	0.00	0.00	0.00	52.68
1000	15.33	145.44	0.00	126.25	103.50	0.00	135.84	69.00	47.86	103.50	42.08	66.51
+/-	15.00	0.00	0.00	0.00	207.00	0.00	13.53	169.01	66.20	207.00	72.88	126.87
1000+	38.38	44.23	16.76	20.03	33.31	3.69	23.59	16.22	40.10	24.67	8.36	23.36
+/-	61.11	98.91	58.08	49.06	69.27	11.83	64.33	47.12	70.86	62.76	27.51	56.52
0k	58.83	53.44	46.54	49.85	36.55	39.27	49.43	37.89	57.53	41.37	43.14	48.68
+/-	113.24	108.58	101.59	89.24	75.01	84.76	100.54	79.94	112.11	88.94	86.52	99.15

ARTHUR YOUNG & COMPANY DATA ANALYSIS ORGANIZATION REPORTS - DATA FROM 810101 TO 821231
ALL EXPERIENCES
AVERAGE FINES COLLECTED

RISK: DSCP SUPERVISION:	LOW UNSUPER.	MODERATE UNSUPER.	MODERATE MINIMUM	MODERATE MAXIMUM	HIGH MINIMUM	HIGH MAXIMUM	MODERATE ANY	HIGH ANY	ANY UNSUPER.	ANY MINIMUM	ANY MAXIMUM	ANY ANY
0	38.83	34.43	26.74	26.59	16.16	24.91	29.01	20.38	37.90	21.48	25.58	30.33
+/-	83.29	73.05	61.06	65.71	47.23	64.23	66.08	56.19	81.23	54.83	64.75	71.11
100	36.89	58.91	11.00	12.62	23.32	0.00	22.55	11.66	43.84	18.55	3.74	19.60
+/-	74.75	144.32	29.70	35.71	80.59	0.00	72.96	57.44	98.09	65.25	19.42	65.76
200	59.40	52.76	50.31	56.03	34.52	39.01	52.61	36.53	57.04	41.68	45.71	48.04
+/-	113.23	97.59	76.24	100.00	54.92	63.44	89.15	58.69	107.52	65.65	79.78	85.78
300	101.00	80.80	15.15	101.00	10.09	28.05	54.65	18.60	91.81	12.33	50.50	44.96
+/-	247.40	131.69	42.85	116.62	21.26	84.17	96.02	58.81	194.04	31.65	96.70	115.76
400	35.90	16.83	37.88	0.00	3.46	54.46	26.45	39.16	27.10	26.41	44.85	33.13
+/-	63.10	41.23	48.63	0.00	8.49	72.19	44.00	64.49	52.89	42.78	68.50	55.23
500	0.00	0.00	58.91	0.00	46.46	0.00	35.35	23.23	0.00	51.13	0.00	24.06
+/-	0.00	0.00	52.55	0.00	103.88	0.00	49.21	73.46	0.00	83.65	0.00	61.26
600	37.67	4.24	2.61	55.58	26.81	30.37	19.16	28.63	25.97	17.20	37.81	26.71
+/-	74.69	15.62	13.60	107.22	59.72	78.21	64.03	69.40	62.59	48.40	87.60	68.31
700	0.00	0.00	45.28	0.00	50.50	0.00	22.64	8.41	0.00	47.02	0.00	14.10
+/-	0.00	0.00	64.03	0.00	0.00	0.00	45.28	20.62	0.00	45.38	0.00	31.19
800	78.45	0.00	75.75	0.00	21.53	4.59	27.54	11.18	39.22	41.25	3.60	24.78
+/-	149.78	0.00	151.50	0.00	56.97	15.20	91.36	36.80	106.64	97.88	13.49	76.79
900	0.00	101.00	0.00	0.00	0.00	0.00	25.25	0.00	101.00	0.00	0.00	14.42
+/-	0.00	0.00	0.00	0.00	0.00	0.00	50.50	0.00	0.00	0.00	0.00	38.17
1000	4.56	101.00	0.00	101.00	0.00	0.00	101.00	0.00	28.67	0.00	33.66	19.60
+/-	5.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.44	0.00	58.31	40.36
1000+	31.98	40.40	0.00	16.83	25.77	1.75	13.17	11.91	34.46	12.32	6.06	16.33
+/-	59.29	90.33	0.00	41.23	63.36	6.71	46.22	42.17	63.31	44.70	22.47	45.89
0k	40.76	36.54	27.90	32.71	20.50	25.05	31.70	22.75	39.75	24.08	27.85	31.69
+/-	87.36	77.94	61.34	74.86	52.02	62.70	70.21	57.55	85.18	56.80	67.45	72.93

CONTINUED

1 OF 3

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ARTHUR YOUNG & COMPANY DATA ANALYSIS ORGANIZATION REPORTS - DATA FROM 810101 TO 821231
RECORDS READ              006819
VALID DATE RANGES         002920
DISTINCT FILE NUMBERS     006005
INCLUDED RECORDS          002756
EXCLUDED RECORDS          000164
MULTIPLE EXPERIENCES      000814
TOO LATE END DATE         003083
TOO EARLY START DATE      000002
INVALID RISK & SUPER      000000
INVALID STATUS            000000
INVALID COST              000000
INVALID TIMES ON PROB     000000

END OF PROGRAM
:
:RUN DOLL2SV


ENTER STUDY START DATE YYMMDD:
810101

ENTER END OF REPORT PERIOD YYMMDD:
821231

SHALL I PRINT STATUS/END ERRORS (Y/N)?:
Y

810101 THROUGH 821231 OKAY?

TYPE Y TO CONFIRM:
Y
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ARTHUR YOUNG & COMPANY DATA ANALYSIS ORGANIZATION REPORTS - DATA FROM 810101 TO 821231
FIRST EXPERIENCES
NUMBERS OF EXPERIENCES

DSCP	RISK: SUPERVISION:	LOW UNSUPER.	MODERATE UNSUPER.	MODERATE MINIMUM	MODERATE MAXIMUM	HIGH MINIMUM	HIGH MAXIMUM	MODERATE ANY	HIGH ANY	ANY UNSUPER.	ANY MINIMUM	ANY MAXIMUM	ANY ANY
0		671.00	137.00	200.00	116.00	168.00	148.00	453.00	316.00	808.00	368.00	264.00	1440.00
100		9.00	5.00	7.00	2.00	9.00	12.00	14.00	21.00	14.00	16.00	14.00	44.00
200		61.00	26.00	34.00	31.00	48.00	35.00	91.00	83.00	87.00	82.00	65.00	235.00
300		5.00	5.00	6.00	3.00	8.00	7.00	14.00	15.00	10.00	14.00	10.00	34.00
400		6.00	5.00	4.00	0.00	4.00	7.00	9.00	11.00	11.00	8.00	7.00	26.00
500		1.00	1.00	3.00	1.00	1.00	4.00	5.00	5.00	2.00	4.00	5.00	11.00
600		22.00	9.00	14.00	10.00	24.00	24.00	33.00	48.00	31.00	38.00	34.00	103.00
700		0.00	0.00	1.00	0.00	1.00	2.00	1.00	3.00	0.00	2.00	2.00	4.00
800		2.00	3.00	1.00	1.00	3.00	7.00	5.00	10.00	5.00	4.00	8.00	17.00
900		0.00	1.00	2.00	0.00	0.00	3.00	3.00	3.00	1.00	2.00	3.00	6.00
1000		2.00	1.00	0.00	1.00	3.00	2.00	2.00	5.00	3.00	3.00	3.00	9.00
1000+		8.00	3.00	8.00	4.00	4.00	7.00	15.00	11.00	11.00	12.00	11.00	34.00
0k		787.00	196.00	280.00	169.00	273.00	258.00	645.00	531.00	983.00	553.00	427.00	1963.00

FIRST EXPERIENCES
AVERAGE RESTITUTION RECEIVED

DSCP	RISK: SUPERVISION:	LOW UNSUPER.	MODERATE UNSUPER.	MODERATE MINIMUM	MODERATE MAXIMUM	HIGH MINIMUM	HIGH MAXIMUM	MODERATE ANY	HIGH ANY	ANY UNSUPER.	ANY MINIMUM	ANY MAXIMUM	ANY ANY
0		11.55	8.74	13.95	9.79	6.66	2.19	11.31	4.57	11.07	10.62	5.53	9.94
+/-		58.08	66.73	74.55	47.60	40.57	13.71	66.10	31.08	59.60	61.45	33.32	56.23
100		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+/-		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200		12.84	6.99	46.64	41.98	0.84	12.51	33.72	5.76	11.09	19.83	26.35	18.43
+/-		69.03	35.65	179.34	36.43	4.00	58.44	113.49	38.20	60.84	116.74	51.17	82.72
300		35.14	0.00	2.52	67.33	18.93	0.00	15.51	10.10	17.57	11.90	20.20	16.01
+/-		78.59	0.00	6.16	116.62	53.56	0.00	53.82	39.12	55.57	40.37	63.87	51.09
400		41.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.40	0.00	0.00	9.47
+/-		100.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	74.30	0.00	0.00	48.32
500		0.00	0.00	0.00	67.00	0.00	50.00	13.40	40.00	0.00	0.00	53.40	24.27
+/-		0.00	0.00	0.00	0.00	0.00	100.00	29.95	89.44	0.00	0.00	86.93	61.64
600		1.28	0.00	5.55	5.00	4.20	7.41	3.87	5.81	0.91	4.70	5.70	4.22
+/-		6.00	0.00	20.78	15.81	20.62	36.33	15.84	29.26	5.00	20.40	31.45	22.00
700		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+/-		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800		0.00	61.84	0.00	0.00	0.00	33.63	37.10	23.54	37.10	0.00	29.43	24.76
+/-		0.00	107.12	0.00	0.00	0.00	82.87	82.97	69.38	82.97	0.00	77.64	67.60
900		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+/-		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+/-		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000+		0.00	0.00	25.14	0.00	0.00	0.00	13.41	0.00	0.00	16.76	0.00	5.91
+/-		0.00	0.00	71.13	0.00	0.00	0.00	51.94	0.00	0.00	58.08	0.00	34.50
0k		11.41	7.98	16.68	16.30	5.17	5.33	13.94	5.25	10.73	11.00	9.67	10.57
+/-		57.91	58.66	89.78	46.87	33.70	32.02	71.58	32.86	58.04	68.32	38.90	57.69

ARTHUR YOUNG & COMPANY DATA ANALYSIS ORGANIZATION REPORTS - DATA FROM 810101 TO 821231
FIRST EXPERIENCES
AVERAGE COSTS COLLECTED

DSCP	RISK: SUPERVISION:	LOW UNSUPER.	MODERATE UNSUPER.	MODERATE MINIMUM	MODERATE MAXIMUM	HIGH MINIMUM	HIGH MAXIMUM	MODERATE ANY	HIGH ANY	ANY UNSUPER.	ANY MINIMUM	ANY MAXIMUM	ANY ANY
0		7.32	7.27	6.23	5.47	4.23	4.02	6.35	4.13	7.32	5.32	4.66	6.32
+/-		13.93	14.42	11.92	10.30	15.10	11.18	12.37	13.38	14.00	13.49	10.82	13.38
100		2.80	11.71	3.75	19.19	3.59	0.00	8.80	1.53	5.98	3.66	2.74	4.10
+/-		8.37	26.19	9.90	27.13	7.28	0.00	18.60	4.90	16.55	8.19	10.25	11.83
200		13.90	7.76	9.53	11.51	11.85	12.81	9.70	12.25	12.07	10.89	12.20	11.69
+/-		15.78	12.77	13.89	13.53	14.53	23.75	13.38	18.84	15.13	14.21	19.49	16.12
300		11.51	15.35	6.39	12.79	7.43	0.00	10.96	3.96	13.43	6.98	3.83	7.95
+/-		25.73	21.00	15.65	12.61	10.58	0.00	16.49	8.43	22.25	12.45	8.54	15.17
400		19.33	5.85	17.36	0.00	58.58	14.71	10.97	30.66	13.21	37.97	14.71	21.23
+/-		21.84	13.08	23.71	0.00	104.76	22.05	18.25	63.83	18.89	73.68	22.05	43.69
500		0.00	0.00	10.77	0.00	76.76	5.00	6.46	19.35	0.00	27.27	4.00	11.73
+/-		0.00	0.00	9.80	0.00	0.00	10.00	9.06	33.23	0.00	33.94	8.94	23.04
600		6.42	4.26	6.20	10.27	7.22	9.32	6.90	8.27	5.79	6.84	9.60	7.44
+/-		11.83	8.43	16.70	9.11	13.38	17.23	12.65	15.30	10.86	14.49	15.17	13.67
700		0.00	0.00	44.44	0.00	25.25	0.00	44.44	8.41	0.00	34.84	0.00	17.42
+/-		0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.56	0.00	13.56	0.00	21.59
800		9.59	64.19	0.00	0.00	0.00	3.60	38.51	2.52	42.35	0.00	3.15	13.94
+/-		13.56	86.83	0.00	0.00	0.00	9.54	70.75	7.94	68.63	0.00	8.89	39.64
900		0.00	38.38	0.00	0.00	0.00	0.00	12.79	0.00	38.38	0.00	0.00	6.39
+/-		0.00	0.00	0.00	0.00	0.00	0.00	22.14	0.00	0.00	0.00	0.00	15.65
1000		9.59	44.44	0.00	25.25	0.00	0.00	34.84	0.00	21.21	0.00	8.41	9.87
+/-		13.56	0.00	0.00	0.00	0.00	0.00	13.56	0.00	22.27	0.00	14.56	16.19
1000+		9.59	6.39	0.00	4.79	3.75	2.74	2.55	3.10	8.72	1.25	3.48	4.39
+/-		10.25	11.05	0.00	9.59	7.48	7.21	6.71	6.93	10.00	4.24	7.75	8.06
	0k	7.90	8.65	6.67	7.19	6.94	5.56	7.41	6.27	8.05	6.80	6.21	7.30
+/-		14.18	18.36	12.69	11.36	19.65	14.28	14.35	17.26	15.10	16.49	13.19	15.13

ARTHUR YOUNG & COMPANY DATA ANALYSIS ORGANIZATION REPORTS - DATA FROM 810101 TO 821231
FIRST EXPERIENCES
AVERAGE COSTS INCURRED

RISK: DSCP SUPERVISION:	LOW UNSUPER.	MODERATE UNSUPER.	MODERATE MINIMUM	MODERATE MAXIMUM	HIGH MINIMUM	HIGH MAXIMUM	MODERATE ANY	HIGH ANY	ANY UNSUPER.	ANY MINIMUM	ANY MAXIMUM	ANY ANY
0	66.95	83.88	90.05	91.17	94.44	92.17	88.47	93.38	69.82	92.05	91.73	79.52
+/-	11.18	30.46	30.59	24.92	29.93	32.02	29.31	30.89	17.32	30.33	29.07	26.04
100	71.73	74.09	106.98	146.08	85.26	77.87	100.82	81.04	72.57	94.76	87.61	85.43
+/-	13.60	15.13	29.31	20.17	34.21	15.49	33.29	24.78	13.64	33.03	29.12	27.95
200	75.25	83.68	97.68	112.54	97.65	100.54	98.74	98.87	77.77	97.66	106.18	92.69
+/-	27.20	20.54	27.78	43.61	28.71	37.19	34.15	32.37	25.57	28.16	40.47	33.35
300	68.38	124.32	110.40	109.82	120.66	85.14	115.25	104.09	96.35	116.26	92.55	103.43
+/-	3.46	88.23	38.38	42.85	55.10	16.67	57.38	44.42	65.83	47.21	27.11	48.80
400	77.79	114.17	89.71	0.00	97.63	113.64	103.30	107.82	94.33	93.67	113.64	99.32
+/-	18.97	59.92	9.00	0.00	8.72	63.47	44.63	50.05	44.47	9.22	63.47	43.13
500	100.10	82.34	142.80	80.44	87.73	132.75	118.23	123.75	91.22	129.03	122.29	119.09
+/-	0.00	0.00	84.26	0.00	0.00	122.54	68.42	108.02	12.53	74.09	108.67	81.16
600	85.74	101.18	118.12	97.64	124.44	117.85	107.30	121.15	90.22	122.11	111.91	109.15
+/-	33.82	53.05	45.52	23.17	66.36	43.58	42.27	55.63	40.02	58.94	39.46	49.08
700	0.00	0.00	92.49	0.00	137.83	116.74	92.49	123.77	0.00	115.16	116.74	115.95
+/-	0.00	0.00	0.00	0.00	0.00	45.97	0.00	34.70	0.00	32.05	45.97	32.36
800	93.78	122.82	133.39	103.27	84.03	101.32	121.02	96.13	111.20	96.37	101.56	103.17
+/-	4.80	45.04	0.00	0.00	13.42	35.62	33.66	30.92	35.68	27.00	32.98	31.05
900	0.00	152.10	88.36	0.00	0.00	193.01	109.61	193.01	152.10	88.36	193.01	151.31
+/-	0.00	0.00	23.30	0.00	0.00	95.41	40.31	95.41	0.00	23.30	95.41	79.86
1000	121.66	214.25	0.00	76.31	130.85	167.19	145.28	145.39	152.52	130.85	136.89	140.09
+/-	51.57	0.00	0.00	0.00	29.83	100.72	97.53	58.11	64.71	29.83	88.46	57.61
1000+	121.89	129.48	117.69	113.97	150.99	111.66	119.05	125.58	123.96	128.79	112.11	121.83
+/-	73.50	18.22	54.83	31.26	65.62	24.10	42.33	45.23	62.13	57.93	25.38	50.34
0k	69.07	88.50	94.74	96.91	99.40	98.75	99.41	99.09	72.95	97.04	98.03	85.19
+/-	17.38	36.12	33.60	30.76	37.19	40.53	33.79	38.81	23.71	35.45	36.95	32.89

ARTHUR YOUNG & COMPANY DATA ANALYSIS ORGANIZATION REPORTS - DATA FROM 810101 TO 821231
SUBSEQUENT EXPERIENCES
NUMBERS OF EXPERIENCES

RISK: DSCP SUPERVISION:	LOW UNSUPER.	MODERATE UNSUPER.	MODERATE MINIMUM	MODERATE MAXIMUM	HIGH MINIMUM	HIGH MAXIMUM	MODERATE ANY	HIGH ANY	ANY UNSUPER.	ANY MINIMUM	ANY MAXIMUM	ANY ANY
0	70.00	60.00	86.00	58.00	115.00	115.00	204.00	230.00	130.00	201.00	173.00	504.00
100	4.00	1.00	5.00	6.00	10.00	7.00	12.00	17.00	5.00	15.00	13.00	33.00
200	13.00	15.00	24.00	6.00	22.00	22.00	45.00	44.00	28.00	46.00	28.00	102.00
300	1.00	0.00	2.00	1.00	2.00	2.00	3.00	4.00	1.00	4.00	3.00	8.00
400	1.00	1.00	8.00	3.00	2.00	7.00	12.00	9.00	2.00	10.00	10.00	22.00
500	1.00	0.00	0.00	0.00	4.00	1.00	0.00	5.00	1.00	4.00	1.00	6.00
600	4.00	5.00	13.00	8.00	17.00	19.00	26.00	36.00	9.00	30.00	27.00	66.00
700	0.00	0.00	1.00	2.00	0.00	3.00	3.00	3.00	0.00	1.00	5.00	6.00
800	2.00	1.00	3.00	2.00	4.00	4.00	6.00	8.00	3.00	7.00	6.00	16.00
900	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
1000	1.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	2.00
1000+	4.00	2.00	4.00	2.00	7.00	8.00	8.00	15.00	6.00	11.00	10.00	27.00
0k	101.00	85.00	147.00	88.00	184.00	188.00	320.00	372.00	186.00	331.00	276.00	793.00

SUBSEQUENT EXPERIENCES
AVERAGE RESTITUTION RECEIVED

DSCP	RISK: SUPERVISION:	LOW UNSUPER.	MODERATE UNSUPER.	MODERATE MINIMUM	MODERATE MAXIMUM	HIGH MINIMUM	HIGH MAXIMUM	MODERATE ANY	HIGH ANY	ANY UNSUPER.	ANY MINIMUM	ANY MAXIMUM	ANY ANY
0		1.91	0.58	3.14	1.74	23.17	19.94	1.99	21.56	1.30	14.60	13.84	10.91
+/-		16.00	4.47	23.92	13.23	66.66	76.58	17.20	71.66	12.12	53.62	63.40	50.87
100		0.00	0.00	0.00	0.00	0.00	8.30	0.00	3.41	0.00	0.00	4.46	1.76
+/-		0.00	0.00	0.00	0.00	0.00	21.95	0.00	14.07	0.00	0.00	16.09	10.10
200		0.00	47.62	10.81	0.00	0.00	0.90	21.64	0.45	25.51	5.64	0.71	9.74
+/-		0.00	136.55	36.73	0.00	0.00	4.24	83.64	3.00	101.26	26.81	3.74	56.25
300		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+/-		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400		0.00	0.00	0.00	0.00	0.00	6.08	0.00	4.79	0.00	0.00	4.26	1.93
+/-		0.00	0.00	0.00	0.00	0.00	16.09	0.00	14.18	0.00	0.00	13.45	9.06
500		0.00	0.00	0.00	0.00	25.83	0.00	0.00	20.67	0.00	25.83	0.00	17.22
+/-		0.00	0.00	0.00	0.00	51.67	0.00	0.00	46.22	0.00	51.67	0.00	42.19
600		0.00	16.16	0.00	0.00	6.22	5.19	3.10	5.68	8.97	3.52	3.65	4.32
+/-		0.00	36.12	0.00	0.00	25.63	22.65	15.84	23.75	26.93	19.25	19.00	20.07
700		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+/-		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+/-		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+/-		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000		0.00	0.00	0.00	0.00	414.00	0.00	0.00	414.00	0.00	414.00	0.00	207.00
+/-		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	292.74
1000+		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+/-		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0k		1.32	9.77	3.60	1.14	17.86	13.37	4.56	15.59	5.18	11.53	9.47	9.32
+/-		13.34	59.23	23.60	10.72	61.98	61.02	34.94	61.45	41.32	49.26	50.99	48.16

ARTHUR YOUNG & COMPANY DATA ANALYSIS ORGANIZATION REPORTS - DATA FROM 810101 TO 821231
SUBSEQUENT EXPERIENCES
AVERAGE COSTS COLLECTED

RISK: DSCP SUPERVISION:	LOW UNSUPER.	MODERATE UNSUPER.	MODERATE MINIMUM	MODERATE MAXIMUM	HIGH MINIMUM	HIGH MAXIMUM	MODERATE ANY	HIGH ANY	ANY UNSUPER.	ANY MINIMUM	ANY MAXIMUM	ANY ANY
0	6.59	7.52	4.24	4.64	3.98	5.12	5.32	4.55	7.02	4.09	4.96	5.15
+/-	12.65	12.53	9.70	10.95	13.00	9.95	11.00	11.58	12.57	11.70	10.30	11.49
100	10.60	0.00	3.83	0.00	0.00	0.00	1.59	0.00	8.48	1.27	0.00	1.86
+/-	13.89	0.00	8.54	0.00	0.00	0.00	5.48	0.00	12.92	4.90	0.00	6.32
200	8.08	13.66	12.69	3.19	7.75	5.78	11.75	6.77	11.07	10.33	5.22	9.13
+/-	15.59	18.03	14.32	7.81	11.58	8.37	15.13	10.00	16.88	13.19	8.19	13.30
300	0.00	0.00	0.00	0.00	0.00	9.59	0.00	4.79	0.00	0.00	6.39	2.39
+/-	0.00	0.00	0.00	0.00	0.00	13.56	0.00	9.59	0.00	0.00	11.05	6.78
400	0.00	0.00	17.42	1.75	0.00	18.32	12.05	14.25	0.00	13.93	13.35	12.40
+/-	0.00	0.00	22.36	3.00	0.00	23.39	19.57	21.79	0.00	21.05	20.74	19.75
500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+/-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600	12.12	0.00	0.00	4.79	1.12	7.33	1.47	4.40	5.38	0.63	6.58	3.71
+/-	14.56	0.00	0.00	13.56	4.58	15.68	7.48	12.08	10.95	3.46	14.87	10.82
700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+/-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800	18.68	0.00	19.19	0.00	4.79	0.00	9.59	2.39	12.45	10.96	0.00	7.13
+/-	26.42	0.00	33.23	0.00	9.59	0.00	23.49	6.78	21.56	21.75	0.00	16.85
900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+/-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000	13.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.13	0.00	0.00	6.56
+/-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.27
1000+	0.00	0.00	0.00	0.00	9.69	1.25	0.00	5.19	0.00	6.16	1.00	2.88
+/-	0.00	0.00	0.00	0.00	12.53	3.46	0.00	9.59	0.00	10.86	3.16	7.48
0k	7.00	7.72	6.02	3.77	3.99	5.39	5.85	4.70	7.33	4.89	4.87	5.46
+/-	12.92	13.34	12.37	10.00	11.62	11.00	12.08	11.31	13.08	12.00	10.72	11.87

ARTHUR YOUNG & COMPANY DATA ANALYSIS ORGANIZATION REPORTS - DATA FROM 810101 TO 821231
SUBSEQUENT EXPERIENCES
AVERAGE COSTS INCURRED

RISK: DSCP SUPERVISION:	LOW UNSUPER.	MODERATE UNSUPER.	MODERATE MINIMUM	MODERATE MAXIMUM	HIGH MINIMUM	HIGH MAXIMUM	MODERATE ANY	HIGH ANY	ANY UNSUPER.	ANY MINIMUM	ANY MAXIMUM	ANY ANY
0	70.27	85.42	86.59	100.56	92.17	97.91	90.22	95.04	77.26	89.78	98.80	89.65
+/-	14.93	26.76	26.42	36.62	26.59	40.52	30.33	34.32	22.45	26.59	39.17	31.69
100	66.64	115.95	105.99	120.49	80.15	82.52	114.07	81.12	76.50	88.76	100.04	91.35
+/-	5.29	0.00	49.24	45.42	16.46	20.52	43.27	17.66	22.52	32.03	38.18	33.59
200	74.29	87.97	96.75	93.33	112.33	96.65	93.37	104.49	81.62	104.20	95.94	95.73
+/-	17.52	20.78	34.71	34.26	44.89	28.90	30.28	38.14	20.22	40.22	29.48	33.91
300	66.80	0.00	108.81	147.66	69.18	83.29	121.76	76.23	66.80	88.99	104.74	92.12
+/-	0.00	0.00	54.93	0.00	10.05	9.38	44.84	11.36	0.00	39.53	37.75	35.24
400	197.13	84.24	93.04	91.32	111.99	85.69	91.87	91.53	140.68	96.83	87.38	96.52
+/-	0.00	0.00	17.78	17.44	70.62	18.92	16.22	32.03	79.82	29.39	17.69	32.16
500	103.27	0.00	0.00	0.00	142.19	113.42	0.00	136.44	103.27	142.19	113.42	130.91
+/-	0.00	0.00	0.00	0.00	76.60	0.00	0.00	67.57	0.00	76.60	0.00	61.94
600	109.29	98.07	105.09	115.91	99.89	112.91	107.07	106.76	103.06	102.14	113.80	107.04
+/-	45.23	31.29	58.79	23.94	48.57	43.92	44.93	45.98	35.94	52.34	38.63	44.83
700	0.00	0.00	87.10	86.62	0.00	148.21	86.78	148.21	0.00	87.10	123.57	117.49
+/-	0.00	0.00	0.00	7.81	0.00	41.38	5.48	41.38	0.00	0.00	44.82	42.77
800	99.46	333.17	146.28	94.07	93.83	112.70	160.03	103.26	177.36	116.31	106.49	124.07
+/-	14.80	0.00	75.46	27.35	20.45	49.48	101.37	36.47	135.33	53.79	41.36	69.92
900	0.00	0.00	75.05	0.00	0.00	0.00	75.05	0.00	0.00	75.05	0.00	75.05
+/-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000	65.22	0.00	0.00	0.00	399.76	0.00	0.00	399.76	65.22	399.76	0.00	232.49
+/-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	236.55
1000+	108.18	77.26	200.62	151.94	136.15	138.96	157.61	137.65	97.87	159.60	141.56	139.20
+/-	38.03	12.53	70.06	12.77	60.92	56.44	71.14	56.44	33.97	68.98	50.25	59.14
0k	75.77	89.68	95.45	103.74	99.07	101.04	96.20	100.07	82.13	97.46	101.90	95.41
+/-	24.04	36.86	39.77	35.58	42.59	40.39	38.13	41.45	31.27	41.34	38.87	39.03

DSCP	RISK: SUPERVISION:	LOW UNSUPER.	MODERATE UNSUPER.	MODERATE MINIMUM	MODERATE MAXIMUM	HIGH MINIMUM	HIGH MAXIMUM	MODERATE ANY	HIGH ANY	ANY UNSUPER.	ANY MINIMUM	ANY MAXIMUM	ANY ANY
0		741.00	197.00	286.00	174.00	283.00	263.00	657.00	546.00	938.00	569.00	437.00	1944.00
100		13.00	6.00	12.00	8.00	19.00	19.00	26.00	38.00	19.00	31.00	27.00	77.00
200		74.00	41.00	58.00	37.00	70.00	57.00	136.00	127.00	115.00	128.00	94.00	337.00
300		6.00	5.00	8.00	4.00	10.00	9.00	17.00	19.00	11.00	18.00	13.00	42.00
400		7.00	6.00	12.00	3.00	6.00	14.00	21.00	20.00	13.00	18.00	17.00	48.00
500		2.00	1.00	3.00	1.00	5.00	5.00	5.00	10.00	3.00	8.00	6.00	17.00
600		26.00	14.00	27.00	18.00	41.00	43.00	59.00	84.00	40.00	68.00	61.00	169.00
700		0.00	0.00	2.00	2.00	1.00	5.00	4.00	6.00	0.00	3.00	7.00	10.00
800		4.00	4.00	4.00	3.00	7.00	11.00	11.00	18.00	8.00	11.00	14.00	33.00
900		0.00	1.00	3.00	0.00	0.00	3.00	4.00	3.00	1.00	3.00	3.00	7.00
1000		3.00	1.00	0.00	1.00	4.00	2.00	2.00	6.00	4.00	4.00	3.00	11.00
1000+		12.00	5.00	12.00	6.00	11.00	15.00	23.00	26.00	17.00	23.00	21.00	61.00
0k		888.00	281.00	427.00	257.00	457.00	446.00	965.00	903.00	1169.00	884.00	703.00	2756.00

ARTHUR YOUNG & COMPANY DATA ANALYSIS ORGANIZATION REPORTS - DATA FROM 810101 TO 821231
ALL EXPERIENCES
AVERAGE RESTITUTION RECEIVED

DSCP	RISK: SUPERVISION:	LOW UNSUPER.	MODERATE UNSUPER.	MODERATE MINIMUM	MODERATE MAXIMUM	HIGH MINIMUM	HIGH MAXIMUM	MODERATE ANY	HIGH ANY	ANY UNSUPER.	ANY MINIMUM	ANY MAXIMUM	ANY ANY
0		10.63	6.25	10.70	7.10	13.37	9.96	8.41	11.73	9.71	12.03	8.82	10.19
+/-		55.55	55.77	63.84	39.74	53.26	52.31	55.86	52.78	55.60	58.78	47.67	54.88
100		0.00	0.00	0.00	0.00	0.00	3.05	0.00	1.52	0.00	0.00	2.15	0.75
+/-		0.00	0.00	0.00	0.00	0.00	13.30	0.00	9.38	0.00	0.00	11.18	6.56
200		10.58	21.85	31.81	35.17	0.57	8.03	29.72	3.92	14.60	14.73	18.71	15.80
+/-		62.78	87.82	139.57	36.77	3.32	45.96	134.40	30.97	72.52	94.83	44.42	75.72
300		29.29	0.00	1.89	50.50	15.15	0.00	12.77	7.97	15.97	9.25	15.53	12.96
+/-		71.74	0.00	5.29	101.00	47.91	0.00	48.90	34.76	52.98	35.67	56.02	46.27
400		35.20	0.00	0.00	0.00	0.00	3.04	0.00	2.13	18.95	0.00	2.50	6.02
+/-		93.13	0.00	0.00	0.00	0.00	11.36	0.00	9.49	68.34	0.00	10.30	35.96
500		0.00	0.00	0.00	67.00	20.67	40.00	13.40	30.33	0.00	12.91	44.50	21.78
+/-		0.00	0.00	0.00	0.00	46.22	89.44	29.95	67.88	0.00	36.54	80.75	54.25
600		1.08	5.77	2.88	2.77	5.04	6.43	3.53	5.75	2.72	4.18	5.35	4.26
+/-		5.48	21.59	14.97	11.75	22.54	30.72	15.72	26.89	13.42	19.77	26.51	21.21
700		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+/-		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800		0.00	46.38	0.00	0.00	0.00	21.40	16.86	13.08	23.19	0.00	16.81	12.75
+/-		6.30	92.77	0.00	0.00	0.00	66.39	55.94	52.04	65.60	0.00	58.94	49.43
900		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+/-		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000		0.00	0.00	0.00	0.00	103.50	0.00	0.00	69.00	0.00	103.50	0.00	37.63
+/-		0.00	0.00	16.76	0.00	207.00	0.00	0.00	169.01	0.00	207.00	0.00	124.82
1000+		0.00	0.00	58.08	0.00	0.00	0.00	8.74	0.00	0.00	8.74	0.00	3.29
+/-		10.26	8.52	12.18	11.11	10.28	8.72	41.94	0.00	0.00	41.94	0.00	25.75
Ok		54.78	58.74	74.22	39.15	47.52	46.60	10.83	9.51	9.84	11.20	9.59	10.21
+/-								62.02	47.05	55.74	61.85	44.01	55.11

ARTHUR YOUNG & COMPANY DATA ANALYSIS ORGANIZATION REPORTS - DATA FROM 810101 TO 821231
ALL EXPERIENCES
AVERAGE COSTS COLLECTED

DSCP	RISK: SUPERVISION:	LOW UNSUPER.	MODERATE UNSUPER.	MODERATE MINIMUM	MODERATE MAXIMUM	HIGH MINIMUM	HIGH MAXIMUM	MODERATE ANY	HIGH ANY	ANY UNSUPER.	ANY MINIMUM	ANY MAXIMUM	ANY ANY
0		7.25	7.35	5.63	5.19	4.13	4.50	6.03	4.31	7.27	4.88	4.78	6.01
+/-		13.78	13.86	11.31	10.49	14.28	10.68	11.96	12.65	13.78	12.88	10.58	12.92
100		5.20	9.76	3.78	4.79	1.70	0.00	5.47	0.85	6.64	2.50	1.42	3.14
+/-		10.44	23.90	8.94	13.56	5.10	0.00	14.39	3.61	15.36	6.78	7.35	9.85
200		12.88	9.92	10.84	10.16	10.56	10.09	10.38	10.35	11.82	10.69	10.12	10.92
+/-		15.78	14.97	14.04	13.08	13.71	19.52	13.96	16.49	15.49	13.82	17.18	15.36
300		9.59	15.35	4.79	9.59	5.94	2.13	9.03	4.13	12.21	5.43	4.42	6.89
+/-		23.49	21.00	13.56	12.12	9.85	6.32	15.49	8.97	21.47	11.27	8.72	14.07
400		16.57	4.88	17.40	1.75	39.05	16.52	11.58	23.28	11.17	24.61	13.91	17.18
+/-		21.24	11.92	21.73	3.00	86.60	21.91	18.55	49.13	17.94	51.20	20.62	34.79
500		0.00	0.00	10.77	0.00	15.35	4.00	6.46	9.67	0.00	13.63	3.33	7.59
+/-		0.00	0.00	9.80	0.00	34.32	8.94	9.06	24.39	0.00	26.57	8.12	19.10
600		7.30	2.74	3.21	7.83	4.69	8.44	4.51	6.61	5.70	4.11	8.26	5.98
+/-		12.12	6.93	12.21	11.27	11.00	16.40	10.95	14.07	10.72	11.40	14.97	12.73
700		0.00	0.00	22.22	0.00	25.25	0.00	11.11	4.20	0.00	23.23	0.00	6.96
+/-		0.00	0.00	31.42	0.00	0.00	0.00	22.20	10.30	0.00	22.27	0.00	15.36
800		14.14	48.14	14.39	0.00	2.74	2.29	22.74	2.46	31.14	6.97	1.80	10.64
+/-		17.92	77.83	28.77	0.00	7.21	7.55	30.06	7.21	55.35	17.72	6.71	30.51
900		0.00	38.38	0.00	0.00	0.00	0.00	9.59	0.00	38.38	0.00	0.00	5.48
+/-		0.00	0.00	0.00	0.00	0.00	0.00	19.18	0.00	0.00	0.00	0.00	14.49
1000		10.77	44.44	0.00	25.25	0.00	0.00	34.84	0.00	19.19	0.00	8.41	9.27
+/-		9.80	0.00	0.00	0.00	0.00	0.00	13.56	0.00	18.63	0.00	14.36	14.83
1000+		6.39	3.83	0.00	3.19	7.53	1.94	1.66	4.30	3.64	3.60	2.30	3.72
+/-		9.43	8.54	0.00	7.81	10.95	5.39	5.48	8.49	9.00	8.31	6.00	7.75
0k		7.80	8.37	6.45	6.02	5.75	5.49	6.89	5.62	7.94	6.09	5.68	6.77
+/-		14.04	16.97	12.57	11.00	16.94	13.00	13.67	15.10	14.80	14.97	12.29	14.28

ARTHUR YOUNG & COMPANY DATA ANALYSIS ORGANIZATION REPORTS - DATA FROM 810101 TO 821231
ALL EXPERIENCES
AVERAGE COSTS INCURRED

DSCP	RISK: SUPERVISION:	LOW UNSUPER.	MODERATE UNSUPER.	MODERATE MINIMUM	MODERATE MAXIMUM	HIGH MINIMUM	HIGH MAXIMUM	MODERATE ANY	HIGH ANY	ANY UNSUPER.	ANY MINIMUM	ANY MAXIMUM	ANY ANY
0		67.26	84.35	89.01	94.30	93.52	94.68	89.01	94.08	70.85	91.25	94.53	82.14
+/-		11.58	29.33	29.39	29.56	28.60	36.03	29.61	32.36	18.30	29.07	33.57	27.95
100		70.16	81.07	106.57	126.89	82.57	79.58	106.93	81.08	73.61	91.86	93.60	87.96
+/-		11.66	21.79	36.74	40.89	25.75	17.09	38.01	21.61	15.81	32.16	33.72	30.41
200		75.08	85.25	97.29	109.42	102.26	99.04	96.96	100.81	78.71	100.01	103.13	93.61
+/-		25.67	20.47	30.55	42.43	34.96	34.01	32.89	34.44	24.35	33.00	37.67	33.50
300		68.12	124.32	110.00	119.28	110.37	84.73	116.39	98.22	93.66	110.20	95.36	101.28
+/-		3.16	88.23	38.51	39.77	53.33	14.83	54.17	41.13	63.09	46.00	28.58	46.36
400		94.84	109.18	91.93	91.32	102.42	99.66	96.77	100.49	101.46	95.42	98.19	98.04
+/-		48.32	54.97	15.03	17.44	39.14	47.28	31.22	42.66	49.82	22.25	43.17	38.12
500		101.68	82.34	142.80	80.44	131.30	128.89	118.23	130.09	95.23	135.61	120.81	123.26
+/-		2.00	0.00	84.26	0.00	70.66	106.48	68.42	85.21	11.27	70.12	97.27	73.14
600		89.36	100.07	111.85	105.76	114.26	115.67	107.20	114.98	93.11	113.30	112.74	108.32
+/-		35.81	45.11	51.72	24.64	60.21	43.28	43.08	51.91	39.08	56.60	38.78	47.35
700		0.00	0.00	89.79	86.62	137.83	135.62	88.20	135.99	0.00	105.80	121.62	116.87
+/-		0.00	0.00	3.74	7.81	0.00	41.00	5.29	36.69	0.00	27.86	41.27	36.96
800		96.62	175.41	143.06	97.14	89.63	105.45	142.30	99.30	136.01	109.06	103.67	113.31
+/-		9.54	111.42	61.94	20.05	17.23	39.10	77.50	32.66	84.46	45.34	35.36	59.72
900		0.00	152.10	83.92	0.00	0.00	193.01	100.97	193.01	152.10	83.92	193.01	140.41
+/-		0.00	0.00	18.17	0.00	0.00	95.41	37.18	95.41	0.00	18.17	95.41	78.40
1000		102.84	214.25	0.00	76.31	198.08	167.19	145.28	187.78	130.69	198.08	136.89	156.89
+/-		48.90	0.00	0.00	0.00	136.64	100.72	97.53	116.13	68.39	136.64	88.46	98.22
1000+		117.32	108.59	145.39	126.62	141.55	125.94	132.47	132.54	114.75	143.52	126.14	129.52
+/-		62.27	31.98	70.14	31.67	59.79	45.27	55.70	51.97	54.20	63.94	41.05	54.64
	0k	69.83	88.86	94.98	99.25	99.27	99.72	94.94	99.49	74.41	97.20	99.55	88.13
+/-		18.38	36.29	35.79	32.59	39.41	40.44	35.30	39.90	25.26	37.75	37.74	35.07

```
ARTHUR YOUNG & COMPANY DATA ANALYSIS ORGANIZATION REPORTS - DATA FROM 810101 TO 821231
RECORDS READ            006819
VALID DATE RANGES       002920
DISTINCT FILE NUMBERS   006005
INCLUDED RECORDS        002756
EXCLUDED RECORDS        000164
MULTIPLE EXPERIENCES    000814
TOO LATE END DATE       003083
TOO EARLY START DATE    000002
INVALID RISK & SUPER    000000
INVALID STATUS          000000
INVALID COST            000000
INVALID TIMES ON PROB   000000

END OF PROGRAM
:BYE

CPU=568, CONNECT=81, TUE, JUL 26, 1983, 11:17 PM

NO CARRIER

APPLE SSC:OS
]
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Appendix B

Data Analysis Program Listings

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)BOLPREP DSCPA,DSCPSV

0001   HP32213C.02.08  (C) HEWLETT-PACKARD CO. 1980

      001100 IDENTIFICATION DIVISION.
      001200 PROGRAM-ID. DSCP.
      001300 AUTHOR. JIM BACKUS.
      001400 ENVIRONMENT DIVISION.
      001500 CONFIGURATION SECTION.
      001600 SOURCE-COMPUTER. HP-3000.
      001700 OBJECT-COMPUTER. HP-3000.
      001800 INPUT-OUTPUT SECTION.
      001900 FILE-CONTROL.
      002000 SELECT EXPIN ASSIGN TO "HCCLIST".
      002100 SELECT PRTOUT ASSIGN TO "PRINTER".
      002200 DATA DIVISION.
      002300 FILE SECTION.
      002400 FD  EXPIN
      002500     LABEL RECORDS ARE STANDARD
      002600     RECORD CONTAINS 60 CHARACTERS.
      002700 01  EXPIN-REC    PIC X(60).
      002800 FD  PRTOUT
      002900     LABEL RECORDS ARE OMITTED
      003000     RECORD CONTAINS 132 CHARACTERS.
      003100 01  PRTOUT-REC    PIC X(132).
      003200 WORKING-STORAGE SECTION.
      003300 01  PROBATIONER-REC.
      003400     05  FILE-NUM      PIC X(6).
      003500     05  EXP-NUM       PIC 99.
      003600     05  RISK-LEVEL    PIC X(2).
      003700*RISK = "LO"  "MO"  "HI"
      003800     05  SUPER-LEVEL   PIC X(2).
      003900*SUPERVISION = "MA" "MI" "UN"
      004000     05  COST-OF-PROB  PIC 9(5)V99.
      004100*INTAKE=$62.05
      004200*$/MILE=$0.185
      004300*$/MINUTE=$0.3171
      004400     05  COSTS         PIC 9(5)V99.
      004500     05  FINES         PIC 9(5)V99.
      004600     05  RESTITUTION   PIC 9(5)V99.
      004700     05  POINTS        PIC 9(4).
      004800     05  PROB-STATUS   PIC XX.
      004900*ACTIVE                >  "AC"
      005000*SUCCESSFUL            >  "SC"
      005100***SUCCESSFUL          >  "SC"
      005200***TERMINATED EARLY    >  "TE"
      005300*UNSUCCESSFUL          >  "RE"
      005400***CONTINUED           >  "CO"
      005500***PV RECORDED         >  "PV"
      005600***REVOKED             >  "RE"
      005700***TERMINATED UNSC.    >  "TU"
      005800     05  START-DATE    PIC 9(6).
      005900     05  END-DATE      PIC 9(6).
      006000*BOTH DATES ARE IN YYMMDD FORMAT
      006100     05  EXCL-CODE   PIC XX.
      006200 01  DSCP-RPT-DATA.
      006300     05  RESULT-GRP OCCURS 3 TIMES
      006400         INDEXED BY RESULT-CODE.
      006500*RESULT-CODE=1 >> SUCCESS
      006600*             =2 >> REVOCATION
      006700*             =3 >>  ANY RESULT
      006800         10  EXPERIENCE-GRP OCCURS 3 TIMES
      006900             INDEXED BY EXPERIENCE-CODE.
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007000*EXPERIENCE-CODE=1 >> FIRST EXPERIENCE
007100*                =2 >> SUBSEQUENT EXPERIENCE
007200*                =3 >> ANY EXPERIENCE
007300                 15  RS-GRP OCCURS 12 TIMES
007400                     INDEXED BY RS-CODE.
007500*RS-CODE =1 >> LOW RISK UNSUPERVISED
007600*         =2 >> MOD RISK UNSUPERVISED
007700*         =3 >> MOD RISK MIN SUPERVISION
007800*         =4 >> MOD RISK MAX SUPERVISION
007900*         =5 >> HI  RISK MIN SUPERVISION
008000*         =6 >> HI  RISK MAX SUPERVISION
008100*         =7 >> MOD RISK ANY SUPERVISION
008200*         =8 >> HI  RISK ANY SUPERVISION
008300*         =9 >> ANY RISK UNSUPERVISED
008400*         =10>> ANY RISK MIN SUPERVISION
008500*         =11>> ANY RISK MAX SUPERVISION
008600*         =12>> ANY RISK ANY SUPERVISION
008700                   20  NUMBER-OF-EXPS  PIC 9(5).
008800                   20  DSCP PIC 9(8).
008900*NUMBER OF POINTS SCORED
009000                   20  DSCP-SQ PIC 9(11).
009100*ACCUMULATED SQUARES OF POINTS
009200 01  MISCELLANEOUS-STUFF.
009300     05  EXPIN-EOF-SW  PIC X VALUE "N".
009400     05  PRINT-STATUS-END-ERROR-SW PIC X.
009500     05  LAST-INVALID-RS-FILE-NUM  PIC X(6).
009600     05  LAST-INVALID-RS-EXP-NUM   PIC 99.
009700     05  GOOD-DATE-SW  PIC X VALUE "N".
009800     05  VALID-RS-SW   PIC X.
009900     05  LINE-CNT      PIC 99     VALUE 60.
010000     05  PAGE-CNT      PIC 99 VALUE ZERO.
010100     05  TEMP-SQ       PIC 9(6).
010200     05  TEMP-DSCP     PIC 9(5).
010300     05  RECORDS-READ  PIC 9(5)   VALUE ZEROES.
010400     05  CORRECT-DATE-RANGE-CNT PIC 9(6)  VALUE ZEROES.
010500     05  FILE-NUM-CNT  PIC 9(6)   VALUE ZEROES.
010600     05  INCLUDE-CNT   PIC 9(6)   VALUE ZEROES.
010700     05  EXCLUDE-CNT   PIC 9(6)   VALUE ZEROES.
010800     05  DUPLICATE-CNT PIC 9(6)   VALUE ZEROES.
010900     05  TOO-LATE-CNT  PIC 9(6)   VALUE ZEROES.
011000     05  TOO-EARLY-CNT PIC 9(6)   VALUE ZEROES.
011100     05  INVALID-RS-CNT   PIC 9(6) VALUE ZEROES.
011200     05  INVALID-STATUS-CNT PIC 9(6) VALUE ZEROES.
011300     05  INVALID-COST-CNT PIC 9(6) VALUE ZEROES.
011400     05  INVALID-EXP-CNT  PIC 9(6) VALUE ZEROES.
011500     05  LAST-FILE-NUM PIC X(6)   VALUE SPACES.
011600     05  LONG-TEMP     PIC 9(18).
011700 01  FORM-FEED   PIC S9(4) COMP VALUE 12.
011800 01  CONTROL-L REDEFINES FORM-FEED PIC XX.
011900 01  PRINT-LINE-PARTS.
012000     05  CNTL-L  PIC XX.
012100     05  FILLER  PIC X(130)       VALUE SPACES.
012200 01  PRINT-LINE      PIC X(132).
012300 01  HEADER-LINE-1.
012400     05  FILLER          PIC X
012500         VALUE SPACES.
012600     05  FILLER          PIC X(32)
012700         VALUE "ARTHUR YOUNG & COMPANY DATA ANAL".
012800     05  FILLER          PIC X(32)
012900         VALUE "YSIS ORGANIZATION REPORTS - DATA".
013000     05  FILLER          PIC X(6)
013100         VALUE " FROM ".
013200     05  STUDY-START-DATE PIC 9(6).
013300     05  FILLER          PIC X(4)
013400         VALUE " TO ".
013500     05  REPORT-DATE   PIC 9(6).
013600     05  FILLER      PIC X(37)
013700         VALUE SPACES.
013800     05  FILLER          PIC X(5)
013900         VALUE "PAGE ".
014000     05  PAGE-NUM        PIC Z9.
014100     05  FILLER          PIC X
014200         VALUE SPACES.
014300 01  EDIT-HEADER-LINE.
014400     05  FILLER          PIC X
014500         VALUE SPACES.
014600     05  FILLER          PIC X(24)
014700         VALUE "EDIT PROBATIONER RECORDS".
014800     05  FILLER      PIC X(107)  VALUE SPACES.
014900 01  INVALID-EXP-NUM-LINE.
015000     05  FILLER          PIC X VALUE SPACES.
015100     05  FILLER          PIC X(26)
015200         VALUE "INVALID EXPERIENCE NUMBER ".
015300     05  FILLER          PIC X(7) VALUE SPACES.
015400     05  FILLER          PIC X(32)
015500         VALUE " PROBATIONER FILE AND EXP EQUAL ".
015600     05  INVALID-EXP-NUM-FILE-NUM-OUT PIC X(6).
015700     05  INVALID-EXP-NUM-EXP-NUM-OUT  PIC 99.
015800     05  FILLER      PIC X(58).
015900 01  INVALID-RS-LINE.
016000     05  FILLER PIC X VALUE SPACES.
016100     05  FILLER PIC X(29)
016200         VALUE "INVALID RISK AND SUPERVISION ".
016300     05  INVALID-RISK-OUT PIC XX.
016400     05  INVALID-SUPER-OUT PIC XX.
016500     05  FILLER PIC X(32)
016600         VALUE " PROBATIONER FILE AND EXP EQUAL ".
016700     05  INVALID-RS-FILE-NUM-OUT PIC X(6).
016800     05  INVALID-RS-EXP-NUM-OUT PIC 99.
016900     05  FILLER      PIC X(58)   VALUE SPACES.
017000 01  INVALID-STATUS-LINE.
017100     05  FILLER      PIC X       VALUE SPACES.
017200     05  FILLER      PIC X(24)
017300         VALUE "INVALID STATUS & END     ".
017400     05  INVALID-STATUS-OUT PIC XX.
017500     05  FILLER      PIC X       VALUE SPACES.
017600     05  INVALID-END-DATE-OUT    PIC 9(6).
017700     05  FILLER      PIC X(32)
017800         VALUE " PROBATIONER FILE AND EXP EQUAL ".
017900     05  INVALID-STATUS-FILE-NUM-OUT  PIC X(6).
018000     05  INVALID-STATUS-EXP-NUM-OUT   PIC 99.
018100     05  FILLER      PIC X(58)   VALUE SPACES.
018200 01  INVALID-COST-OF-PROB-LINE.
018300     05  FILLER      PIC X(27)
018400         VALUE " INVALID COST OF PROBATION ".
018500     05  INVALID-COST-OF-PROB-OUT   PIC 9(5)V99.
018600     05  FILLER      PIC X(32)
018700         VALUE " PROBATIONER FILE AND EXP EQUAL ".
018800     05  INVALID-COST-OF-PROB-FILE-OUT PIC X(6).
018900     05  INVALID-COST-OF-PROB-EXP-OUT  PIC XX.
019000     05  FILLER      PIC X(58)   VALUE SPACES.
019100 01  DSCP-RPT-HEADER-LINE-2.
019200     05  FILLER      PIC X(55)   VALUE SPACES.
019300     05  DATA-DESCRIPTION PIC X(22).
019400     05  FILLER      PIC X(55)   VALUE SPACES.
019500 01  DSCP-RPT-RISK-TITLE-LINE.
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019600      05  FILLER       PIC X(9)    VALUE SPACES.
019700      05  FILLER       PIC X(13)   VALUE "RISK:        ".
019800      05  FILLER       PIC X(9)    VALUE "      LOW".
019900      05  FILLER       PIC X(9)    VALUE " MODERATE".
020000      05  FILLER       PIC X(9)    VALUE " MODERATE".
020100      05  FILLER       PIC X(9)    VALUE " MODERATE".
020200      05  FILLER       PIC X(9)    VALUE "     HIGH".
020300      05  FILLER       PIC X(9)    VALUE "     HIGH".
020400      05  FILLER       PIC X(9)    VALUE " MODERATE".
020500      05  FILLER       PIC X(9)    VALUE "     HIGH".
020600      05  FILLER       PIC X(9)    VALUE "      ANY".
020700      05  FILLER       PIC X(9)    VALUE "      ANY".
020800      05  FILLER       PIC X(9)    VALUE "      ANY".
020900      05  FILLER       PIC X(9)    VALUE "      ANY".
021000      05  FILLER       PIC X(2)    VALUE SPACES.
021100  01  DSCP-RPT-SUPER-TITLE-LINE.
021200      05  FILLER       PIC X(9)    VALUE SPACES.
021300      05  FILLER       PIC X(13)   VALUE "SUPERVISION: ".
021400      05  FILLER       PIC X(9)    VALUE " UNSUPER.".
021500      05  FILLER       PIC X(9)    VALUE " UNSUPER.".
021600      05  FILLER       PIC X(9)    VALUE "  MINIMUM".
021700      05  FILLER       PIC X(9)    VALUE "  MAXIMUM".
021800      05  FILLER       PIC X(9)    VALUE "  MINIMUM".
021900      05  FILLER       PIC X(9)    VALUE "  MAXIMUM".
022000      05  FILLER       PIC X(9)    VALUE "      ANY".
022100      05  FILLER       PIC X(9)    VALUE "      ANY".
022200      05  FILLER       PIC X(9)    VALUE " UNSUPER.".
022300      05  FILLER       PIC X(9)    VALUE "  MINIMUM".
022400      05  FILLER       PIC X(9)    VALUE "  MAXIMUM".
022500      05  FILLER       PIC X(9)    VALUE "      ANY".
022600      05  FILLER       PIC X(2)    VALUE SPACES.
022700  01  DSCP-RPT-RES-EXP-TITLE-LINE.
022800      05  FILLER       PIC X(7)    VALUE " RESULT".
022900      05  FILLER       PIC X(7)    VALUE " EXPER.".
023000      05  FILLER       PIC X(118)  VALUE SPACES.
023100  01  DSCP-RPT-DATA-LINE-AVG.
023200      05  FILLER       PIC X       VALUE SPACES.
023300      05  EXPERIENCE-DESC PIC X(6).
023400      05  RESULT-DESC PIC X(7).
023500      05  FILLER       PIC X(8)    VALUE SPACES.
023600      05  DATA-PORTION-AVG         OCCURS 12 TIMES
023700              INDEXED BY AVG-INDEX.
023800          10  DATA-AVG     PIC Z(9).
023900      05  FILLER       PIC X(2)    VALUE SPACES.
024000  01  DSCP-RPT-DATA-LINE-STDDEV.
024100      05  FILLER       PIC X(5)    VALUE " +/- ".
024200      05  FILLER       PIC X(17)    VALUE SPACES.
024300      05  DATA-PORTION-STDDEV      OCCURS 12 TIMES
024400              INDEXED BY STDDEV-INDEX.
024500          10  DATA-STDDEV PIC Z(9).
024600      05  FILLER       PIC XX      VALUE SPACES.
024700  01  COUNT-OUT-LINE.
024800      05  FILLER PIC X VALUE SPACES.
024900      05  COUNT-DESC PIC X(21).
025000      05  FILLER PIC X VALUE SPACES.
025100      05  COUNT-OUT PIC 9(6).
025200      05  FILLER PIC X(103) VALUE SPACES.
025300  PROCEDURE DIVISION.
025400  0000-PRODUCE-DSCP-STATS.
025500      PERFORM 1000-SETUP.
025600      PERFORM 2000-PROC-EACH-REC UNTIL
025700          EXPIN-EOF-SW EQUAL TO "Y".
025800      CLOSE EXPIN.
025900      PERFORM 3000-WRITE-RESULTS.
026000      CLOSE PRTOUT.
026100      STOP RUN.
026200  1000-SETUP.
026300      MOVE "N" TO EXPIN-EOF-SW.
026400      OPEN INPUT EXPIN.
026500      OPEN OUTPUT PRTOUT.
026600      MOVE "N" TO GOOD-DATE-SW.
026700      PERFORM 1100-GET-DATE-PARMS UNTIL
026800          GOOD-DATE-SW EQUAL TO "Y".
026900      MOVE ZEROES TO RESULT-GRP ( 1 ).
027000      MOVE ZEROES TO RESULT-GRP ( 2 ).
027100      MOVE ZEROES TO RESULT-GRP ( 3 ).
027200  1100-GET-DATE-PARMS.
027300      DISPLAY SPACE.
027400      DISPLAY "ENTER STUDY START DATE YYMMDD:".
027500      ACCEPT STUDY-START-DATE.
027600      DISPLAY SPACE.
027700      DISPLAY "ENTER END OF REPORT PERIOD YYMMDD:".
027800      ACCEPT REPORT-DATE.
027900      DISPLAY SPACE.
028000      DISPLAY "SHALL I PRINT STATUS/END ERRORS (Y/N)?: ".
028100      ACCEPT PRINT-STATUS-END-ERROR-SW.
028200      DISPLAY SPACE.
028300      DISPLAY STUDY-START-DATE.
028400          " THROUGH ", REPORT-DATE.
028500          " OKAY? ".
028600      DISPLAY SPACE.
028700      DISPLAY "TYPE Y TO CONFIRM:".
028800      ACCEPT GOOD-DATE-SW.
028900  2000-PROC-EACH-REC.
029000      READ EXPIN RECORD INTO PROBATIONER-REC
029100          AT END MOVE "Y" TO EXPIN-EOF-SW.
029200      IF EXPIN-EOF-SW NOT EQUAL TO "Y"
029300        ADD 1 TO RECORDS-READ
029400        IF FILE-NUM > LAST-FILE-NUM
029500          ADD 1 TO FILE-NUM-CNT
029600          MOVE FILE-NUM TO LAST-FILE-NUM
029700          IF START-DATE NOT < STUDY-START-DATE
029800            IF END-DATE NOT > REPORT-DATE
029900              ADD 1 TO CORRECT-DATE-RANGE-CNT
030000              IF EXCL-CODE = SPACES
030100                ADD 1 TO INCLUDE-CNT
030200                IF COST-OF-PROB > 62.04
030300                  IF PROB-STATUS = "SC"
030400                  OR PROB-STATUS= "TE"
030500                  OR PROB-STATUS= "CO"
030600                  OR PROB-STATUS= "PV"
030700                  OR PROB-STATUS= "TU"
030800                  OR PROB-STATUS = "RE"
030900                    PERFORM 2100-UPDATE-DSCP-RPT-DATA
031000                  ELSE PERFORM 2200-WRITE-INVALID-STATUS
031100                ELSE PERFORM 2400-WRITE-INVALID-COST-PROB
031200              ELSE ADD 1 TO EXCLUDE-CNT
031300            ELSE ADD 1 TO TOO-LATE-CNT
031400          ELSE ADD 1 TO TOO-EARLY-CNT
031500        ELSE ADD 1 TO DUPLICATE-CNT.
031600  2100-UPDATE-DSCP-RPT-DATA.
031700      IF EXP-NUM = 1
031800          SET EXPERIENCE-CODE TO 1
031900          PERFORM 2105-UPDATE-SPECD-EXP
032000          SET EXPERIENCE-CODE TO 3
032100          PERFORM 2105-UPDATE-SPECD-EXP
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032200      ELSE IF EXP-NUM > 1
032300          SET EXPERIENCE-CODE TO 2
032400          PERFORM 2105-UPDATE-SPECD-EXP
032500          SET EXPERIENCE-CODE TO 3
032600          PERFORM 2105-UPDATE-SPECD-EXP
032700      ELSE PERFORM 2140-WRITE-INVALID-EXP-NUM.
032800 2105-UPDATE-SPECD-EXP.
032900      IF PROB-STATUS = "SC"
033000      OR PROB-STATUS = "TE"
033100          SET RESULT-CODE TO 1
033200          PERFORM 2110-UPDATE-SPECD-RESULT
033300          SET RESULT-CODE TO 3
033400          PERFORM 2110-UPDATE-SPECD-RESULT
033500      ELSE IF PROB-STATUS = "RE"
033600      OR PROB-STATUS = "CO"
033700      OR PROB-STATUS = "PV"
033800      OR PROB-STATUS = "TU"
033900          SET RESULT-CODE TO 2
034000          PERFORM 2110-UPDATE-SPECD-RESULT
034100          SET RESULT-CODE TO 3
034200          PERFORM 2110-UPDATE-SPECD-RESULT
034300      ELSE PERFORM 2200-WRITE-INVALID-STATUS.
034400 2110-UPDATE-SPECD-RESULT.
034500      MOVE "Y" TO VALID-RS-SW.
034600      IF RISK-LEVEL = "LO"
034700          IF SUPER-LEVEL = "UN"
034800              SET RS-CODE TO 1
034900              PERFORM 2111-UPDATE-SPECD-RS
035000              SET RS-CODE TO 9
035100              PERFORM 2111-UPDATE-SPECD-RS
035200          ELSE PERFORM 2112-WRITE-INVALID-RS
035300      ELSE IF RISK-LEVEL = "MO"
035400          IF SUPER-LEVEL = "UN"
035500              SET RS-CODE TO 2
035600              PERFORM 2111-UPDATE-SPECD-RS
035700              SET RS-CODE TO 7
035800              PERFORM 2111-UPDATE-SPECD-RS
035900              SET RS-CODE TO 9
036000              PERFORM 2111-UPDATE-SPECD-RS
036100          ELSE IF SUPER-LEVEL = "MI"
036200              SET RS-CODE TO 3
036300              PERFORM 2111-UPDATE-SPECD-RS
036400              SET RS-CODE TO 7
036500              PERFORM 2111-UPDATE-SPECD-RS
036600              SET RS-CODE TO 10
036700              PERFORM 2111-UPDATE-SPECD-RS
036800          ELSE IF SUPER-LEVEL = "MA"
036900              SET RS-CODE TO 4
037000              PERFORM 2111-UPDATE-SPECD-RS
037100              SET RS-CODE TO 7
037200              PERFORM 2111-UPDATE-SPECD-RS
037300              SET RS-CODE TO 11
037400              PERFORM 2111-UPDATE-SPECD-RS
037500          ELSE PERFORM 2112-WRITE-INVALID-RS
037600      ELSE IF RISK-LEVEL = "HI"
037700          IF SUPER-LEVEL = "MI"
037800              SET RS-CODE TO 5
037900              PERFORM 2111-UPDATE-SPECD-RS
038000              SET RS-CODE TO 8
038100              PERFORM 2111-UPDATE-SPECD-RS
038200              SET RS-CODE TO 10
038300              PERFORM 2111-UPDATE-SPECD-RS
038400          ELSE IF SUPER-LEVEL = "MA"
038500              SET RS-CODE TO 6
038600              PERFORM 2111-UPDATE-SPECD-RS
038700              SET RS-CODE TO 8
038800              PERFORM 2111-UPDATE-SPECD-RS
038900              SET RS-CODE TO 11
039000              PERFORM 2111-UPDATE-SPECD-RS
039100          ELSE PERFORM 2112-WRITE-INVALID-RS
039200      ELSE PERFORM 2112-WRITE-INVALID-RS.
039300      IF VALID-RS-SW = "Y"
039400          SET RS-CODE TO 12
039500          PERFORM 2111-UPDATE-SPECD-RS.
039600 2111-UPDATE-SPECD-RS.
039700      ADD 1 TO NUMBER-OF-EXPS
039800          ( RESULT-CODE, EXPERIENCE-CODE, RS-CODE ).
039900      MULTIPLY POINTS BY POINTS GIVING TEMP-SQ.
040000      ADD TEMP-SQ TO DSCP-SQ
040100          ( RESULT-CODE, EXPERIENCE-CODE, RS-CODE ).
040200      ADD POINTS TO DSCP
040300          ( RESULT-CODE, EXPERIENCE-CODE, RS-CODE ).
040400 2112-WRITE-INVALID-RS.
040500      MOVE "N" TO VALID-RS-SW.
040600      IF FILE-NUM = LAST-INVALID-RS-FILE-NUM
040700          IF EXP-NUM  = LAST-INVALID-RS-EXP-NUM
040800              NEXT SENTENCE
040900          ELSE PERFORM 2113-WRITE-INVALID-RS-2
041000      ELSE PERFORM 2113-WRITE-INVALID-RS-2.
041100 2113-WRITE-INVALID-RS-2.
041200      ADD 1 TO INVALID-RS-CNT.
041300      MOVE FILE-NUM TO INVALID-RS-FILE-NUM-OUT.
041400      MOVE EXP-NUM  TO INVALID-RS-EXP-NUM-OUT.
041500      MOVE RISK-LEVEL TO INVALID-RISK-OUT.
041600      MOVE SUPER-LEVEL TO INVALID-SUPER-OUT.
041700      ADD 1 TO LINE-CNT.
041800      IF LINE-CNT > 55
041900          PERFORM 8888-WRITE-EDIT-HEADER.
042000      MOVE INVALID-RS-LINE TO PRINT-LINE.
042100      PERFORM 9999-WRITE-PRINT-LINE.
042200      MOVE FILE-NUM TO LAST-INVALID-RS-FILE-NUM.
042300      MOVE EXP-NUM  TO LAST-INVALID-RS-EXP-NUM.
042400 2140-WRITE-INVALID-EXP-NUM.
042500      ADD 1 TO INVALID-EXP-CNT.
042600      MOVE FILE-NUM TO
042700          INVALID-EXP-NUM-FILE-NUM-OUT.
042800      MOVE EXP-NUM TO
042900          INVALID-EXP-NUM-EXP-NUM-OUT.
043000      ADD 1 TO LINE-CNT.
043100      IF LINE-CNT > 55
043200          PERFORM 8888-WRITE-EDIT-HEADER.
043300      MOVE INVALID-EXP-NUM-LINE TO PRINT-LINE.
043400      PERFORM 9999-WRITE-PRINT-LINE.
043500 2200-WRITE-INVALID-STATUS.
043600      ADD 1 TO INVALID-STATUS-CNT.
043700      MOVE FILE-NUM TO INVALID-STATUS-FILE-NUM-OUT.
043800      MOVE EXP-NUM  TO INVALID-STATUS-EXP-NUM-OUT.
043900      MOVE PROB-STATUS TO INVALID-STATUS-OUT.
044000      MOVE END-DATE TO INVALID-END-DATE-OUT.
044100      IF PRINT-STATUS-END-ERROR-SW = "Y"
044200          ADD 1 TO LINE-CNT
044300          IF LINE-CNT > 55
044400              PERFORM 8888-WRITE-EDIT-HEADER.
044500      IF PRINT-STATUS-END-ERROR-SW = "Y"
044600          MOVE INVALID-STATUS-LINE TO PRINT-LINE
044700          PERFORM 9999-WRITE-PRINT-LINE.
```

```
044800 2400-WRITE-INVALID-COST-PROB.
044900     ADD 1 TO INVALID-COST-CNT.
045000     MOVE FILE-NUM TO INVALID-COST-OF-PROB-FILE-OUT.
045100     MOVE EXP-NUM  TO INVALID-COST-OF-PROB-EXP-OUT.
045200     MOVE COST-OF-PROB TO INVALID-COST-OF-PROB-OUT.
045300     ADD 1 TO LINE-CNT.
045400     IF LINE-CNT > 55
045500         PERFORM 8888-WRITE-EDIT-HEADER.
045600     MOVE INVALID-COST-OF-PROB-LINE TO PRINT-LINE.
045700     PERFORM 9999-WRITE-PRINT-LINE.
045800 3000-WRITE-RESULTS.
045900     MOVE "NUMBERS OF EXPERIENCES" TO DATA-DESCRIPTION.
046000     PERFORM 3100-WRITE-DSCP-RPT-HEADER.
046100     SET EXPERIENCE-CODE TO 1.
046200     MOVE "FIRST " TO EXPERIENCE-DESC.
046300     SET RESULT-CODE TO 1.
046400     MOVE "SUCCESS" TO RESULT-DESC.
046500     PERFORM 3200-MOVE-A-NUM-EXP-COLUMN
046600         VARYING RS-CODE FROM 1 BY 1
046700         UNTIL RS-CODE > 12.
046800     MOVE DSCP-RPT-DATA-LINE-AVG TO PRINT-LINE.
046900     PERFORM 9999-WRITE-PRINT-LINE.
047000     SET RESULT-CODE TO 2.
047100     MOVE "FAILURE" TO RESULT-DESC.
047200     PERFORM 3200-MOVE-A-NUM-EXP-COLUMN
047300         VARYING RS-CODE FROM 1 BY 1
047400         UNTIL RS-CODE > 12.
047500     MOVE DSCP-RPT-DATA-LINE-AVG TO PRINT-LINE.
047600     PERFORM 9999-WRITE-PRINT-LINE.
047700     SET RESULT-CODE TO 3.
047800     MOVE "ANY     " TO RESULT-DESC.
047900     PERFORM 3200-MOVE-A-NUM-EXP-COLUMN
048000         VARYING RS-CODE FROM 1 BY 1
048100         UNTIL RS-CODE > 12.
048200     MOVE DSCP-RPT-DATA-LINE-AVG TO PRINT-LINE.
048300     PERFORM 9999-WRITE-PRINT-LINE.
048400     SET EXPERIENCE-CODE TO 2.
048500     MOVE "LATER " TO EXPERIENCE-DESC.
048600     SET RESULT-CODE TO 1.
048700     MOVE "SUCCESS" TO RESULT-DESC.
048800     PERFORM 3200-MOVE-A-NUM-EXP-COLUMN
048900         VARYING RS-CODE FROM 1 BY 1
049000         UNTIL RS-CODE > 12.
049100     MOVE DSCP-RPT-DATA-LINE-AVG TO PRINT-LINE.
049200     PERFORM 9999-WRITE-PRINT-LINE.
049300     SET RESULT-CODE TO 2.
049400     MOVE "FAILURE" TO RESULT-DESC.
049500     PERFORM 3200-MOVE-A-NUM-EXP-COLUMN
049600         VARYING RS-CODE FROM 1 BY 1
049700         UNTIL RS-CODE > 12.
049800     MOVE DSCP-RPT-DATA-LINE-AVG TO PRINT-LINE.
049900     PERFORM 9999-WRITE-PRINT-LINE.
050000     SET RESULT-CODE TO 3.
050100     MOVE "ANY     " TO RESULT-DESC.
050200     PERFORM 3200-MOVE-A-NUM-EXP-COLUMN
050300         VARYING RS-CODE FROM 1 BY 1
050400         UNTIL RS-CODE > 12.
050500     MOVE DSCP-RPT-DATA-LINE-AVG TO PRINT-LINE.
050600     PERFORM 9999-WRITE-PRINT-LINE.
050700     SET EXPERIENCE-CODE TO 3.
050800      MOVE "ANY    " TO EXPERIENCE-DESC.
050900     SET RESULT-CODE TO 1.
051000     MOVE "SUCCESS" TO RESULT-DESC.
```

```
051100     PERFORM 3200-MOVE-A-NUM-EXP-COLUMN
051200         VARYING RS-CODE FROM 1 BY 1
051300         UNTIL RS-CODE > 12.
051400     MOVE DSCP-RPT-DATA-LINE-AVG TO PRINT-LINE.
051500     PERFORM 9999-WRITE-PRINT-LINE.
051600     SET RESULT-CODE TO 2.
051700     MOVE "FAILURE" TO RESULT-DESC.
051800     PERFORM 3200-MOVE-A-NUM-EXP-COLUMN
051900         VARYING RS-CODE FROM 1 BY 1
052000         UNTIL RS-CODE > 12.
052100     MOVE DSCP-RPT-DATA-LINE-AVG TO PRINT-LINE.
052200     PERFORM 9999-WRITE-PRINT-LINE.
052300     SET RESULT-CODE TO 3.
052400     MOVE "ANY     " TO RESULT-DESC.
052500     PERFORM 3200-MOVE-A-NUM-EXP-COLUMN
052600         VARYING RS-CODE FROM 1 BY 1
052700         UNTIL RS-CODE > 12.
052800     MOVE DSCP-RPT-DATA-LINE-AVG TO PRINT-LINE.
052900     PERFORM 9999-WRITE-PRINT-LINE.
053000     MOVE "AVERAGE PC SCORES" TO DATA-DESCRIPTION.
053100     PERFORM 3100-WRITE-DSCP-RPT-HEADER.
053200     SET EXPERIENCE-CODE TO 1.
053300     MOVE "FIRST " TO EXPERIENCE-DESC.
053400     SET RESULT-CODE TO 1.
053500     MOVE "SUCCESS" TO RESULT-DESC.
053600     PERFORM 3300-MOVE-A-DSCP-COLUMN
053700         VARYING RS-CODE FROM 1 BY 1
053800         UNTIL RS-CODE > 12.
053900     MOVE DSCP-RPT-DATA-LINE-AVG TO PRINT-LINE.
054000     PERFORM 9999-WRITE-PRINT-LINE.
054100     MOVE DSCP-RPT-DATA-LINE-STDDEV TO PRINT-LINE.
054200     PERFORM 9999-WRITE-PRINT-LINE.
054300     SET RESULT-CODE TO 2.
054400     MOVE "FAILURE" TO RESULT-DESC.
054500     PERFORM 3300-MOVE-A-DSCP-COLUMN
054600         VARYING RS-CODE FROM 1 BY 1
054700         UNTIL RS-CODE > 12.
054800     MOVE DSCP-RPT-DATA-LINE-AVG TO PRINT-LINE.
054900     PERFORM 9999-WRITE-PRINT-LINE.
055000     MOVE DSCP-RPT-DATA-LINE-STDDEV TO PRINT-LINE.
055100     PERFORM 9999-WRITE-PRINT-LINE.
055200     SET RESULT-CODE TO 3.
055300     MOVE "ANY     " TO RESULT-DESC.
055400     PERFORM 3300-MOVE-A-DSCP-COLUMN
055500         VARYING RS-CODE FROM 1 BY 1
055600         UNTIL RS-CODE > 12.
055700     MOVE DSCP-RPT-DATA-LINE-AVG TO PRINT-LINE.
055800     PERFORM 9999-WRITE-PRINT-LINE.
055900     MOVE DSCP-RPT-DATA-LINE-STDDEV TO PRINT-LINE.
056000     PERFORM 9999-WRITE-PRINT-LINE.
056100     SET EXPERIENCE-CODE TO 2.
056200     MOVE "LATER " TO EXPERIENCE-DESC.
056300     SET RESULT-CODE TO 1.
056400     MOVE "SUCCESS" TO RESULT-DESC.
056500     PERFORM 3300-MOVE-A-DSCP-COLUMN
056600         VARYING RS-CODE FROM 1 BY 1
056700         UNTIL RS-CODE > 12.
056800     MOVE DSCP-RPT-DATA-LINE-AVG TO PRINT-LINE.
056900     PERFORM 9999-WRITE-PRINT-LINE.
057000     MOVE DSCP-RPT-DATA-LINE-STDDEV TO PRINT-LINE.
057100     PERFORM 9999-WRITE-PRINT-LINE.
057200     SET RESULT-CODE TO 2.
057300     MOVE "FAILURE" TO RESULT-DESC.
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057400      PERFORM 3300-MOVE-A-DSCP-COLUMN
057500          VARYING RS-CODE FROM 1 BY 1
057600          UNTIL RS-CODE > 12.
057700      MOVE DSCP-RPT-DATA-LINE-AVG TO PRINT-LINE.
057800      PERFORM 9999-WRITE-PRINT-LINE.
057900      MOVE DSCP-RPT-DATA-LINE-STDDEV TO PRINT-LINE.
058000      PERFORM 9999-WRITE-PRINT-LINE.
058100      SET RESULT-CODE TO 3.
058200      MOVE "ANY     " TO RESULT-DESC.
058300      PERFORM 3300-MOVE-A-DSCP-COLUMN
058400          VARYING RS-CODE FROM 1 BY 1
058500          UNTIL RS-CODE > 12.
058600      MOVE DSCP-RPT-DATA-LINE-AVG TO PRINT-LINE.
058700      PERFORM 9999-WRITE-PRINT-LINE.
058800      MOVE DSCP-RPT-DATA-LINE-STDDEV TO PRINT-LINE.
058900      PERFORM 9999-WRITE-PRINT-LINE.
059000      SET EXPERIENCE-CODE TO 3.
059100      MOVE "ANY    " TO EXPERIENCE-DESC.
059200      SET RESULT-CODE TO 1.
059300      MOVE "SUCCESS" TO RESULT-DESC.
059400      PERFORM 3300-MOVE-A-DSCP-COLUMN
059500          VARYING RS-CODE FROM 1 BY 1
059600          UNTIL RS-CODE > 12.
059700      MOVE DSCP-RPT-DATA-LINE-AVG TO PRINT-LINE.
059800      PERFORM 9999-WRITE-PRINT-LINE.
059900      MOVE DSCP-RPT-DATA-LINE-STDDEV TO PRINT-LINE.
060000      PERFORM 9999-WRITE-PRINT-LINE.
060100      SET RESULT-CODE TO 2.
060200      MOVE "FAILURE" TO RESULT-DESC.
060300      PERFORM 3300-MOVE-A-DSCP-COLUMN
060400          VARYING RS-CODE FROM 1 BY 1
060500          UNTIL RS-CODE > 12.
060600      MOVE DSCP-RPT-DATA-LINE-AVG TO PRINT-LINE.
060700      PERFORM 9999-WRITE-PRINT-LINE.
060800      MOVE DSCP-RPT-DATA-LINE-STDDEV TO PRINT-LINE.
060900      PERFORM 9999-WRITE-PRINT-LINE.
061000      SET RESULT-CODE TO 3.
061100      MOVE "ANY     " TO RESULT-DESC.
061200      PERFORM 3300-MOVE-A-DSCP-COLUMN
061300          VARYING RS-CODE FROM 1 BY 1
061400          UNTIL RS-CODE > 12.
061500      MOVE DSCP-RPT-DATA-LINE-AVG TO PRINT-LINE.
061600      PERFORM 9999-WRITE-PRINT-LINE.
061700      MOVE DSCP-RPT-DATA-LINE-STDDEV TO PRINT-LINE.
061800      PERFORM 9999-WRITE-PRINT-LINE.
061900      PERFORM 9000-WRITE-FIRST-HEADER-LINE.
062000      MOVE "RECORDS READ" TO COUNT-DESC.
062100      MOVE RECORDS-READ TO COUNT-OUT.
062200      PERFORM 3010-WRITE-COUNT.
062300      MOVE "VALID DATE RANGES" TO COUNT-DESC.
062400      MOVE CORRECT-DATE-RANGE-CNT TO COUNT-OUT.
062500      PERFORM 3010-WRITE-COUNT.
062600      MOVE "DISTINCT FILE NUMBERS" TO COUNT-DESC.
062700      MOVE FILE-NUM-CNT TO COUNT-OUT.
062800      PERFORM 3010-WRITE-COUNT.
062900      MOVE "INCLUDED RECORDS" TO COUNT-DESC.
063000      MOVE INCLUDE-CNT TO COUNT-OUT.
063100      PERFORM 3010-WRITE-COUNT.
063200      MOVE "EXCLUDED RECORDS" TO COUNT-DESC.
063300      MOVE EXCLUDE-CNT TO COUNT-OUT.
063400      PERFORM 3010-WRITE-COUNT.
063500      MOVE "MULTIPLE EXPERIENCES" TO COUNT-DESC.
063600      MOVE DUPLICATE-CNT TO COUNT-OUT.
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063700      PERFORM 3010-WRITE-COUNT.
063800      MOVE "TOO LATE END DATE" TO COUNT-DESC.
063900      MOVE TOO-LATE-CNT TO COUNT-OUT.
064000      PERFORM 3010-WRITE-COUNT.
064100      MOVE "TOO EARLY START DATE" TO COUNT-DESC.
064200      MOVE TOO-EARLY-CNT TO COUNT-OUT.
064300      PERFORM 3010-WRITE-COUNT.
064400      MOVE "INVALID RISK & SUPER" TO COUNT-DESC.
064500      MOVE INVALID-RS-CNT TO COUNT-OUT.
064600      PERFORM 3010-WRITE-COUNT.
064700      MOVE "INVALID STATUS" TO COUNT-DESC.
064800      MOVE INVALID-STATUS-CNT TO COUNT-OUT.
064900      PERFORM 3010-WRITE-COUNT.
065000      MOVE "INVALID COST" TO COUNT-DESC.
065100      MOVE INVALID-COST-CNT TO COUNT-OUT.
065200      PERFORM 3010-WRITE-COUNT.
065300      MOVE "INVALID TIMES ON PROB" TO COUNT-DESC.
065400      MOVE INVALID-EXP-CNT TO COUNT-OUT.
065500      PERFORM 3010-WRITE-COUNT.
065600  3010-WRITE-COUNT.
065700      MOVE COUNT-OUT-LINE TO PRINT-LINE.
065800      PERFORM 9999-WRITE-PRINT-LINE.
065900  3100-WRITE-DSCP-RPT-HEADER.
066000      PERFORM 9000-WRITE-FIRST-HEADER-LINE.
066100      MOVE DSCP-RPT-HEADER-LINE-2 TO PRINT-LINE.
066200      PERFORM 9999-WRITE-PRINT-LINE.
066300      MOVE SPACES TO PRINT-LINE.
066400      PERFORM 9999-WRITE-PRINT-LINE.
066500      PERFORM 9999-WRITE-PRINT-LINE.
066600      MOVE DSCP-RPT-RISK-TITLE-LINE TO PRINT-LINE.
066700      PERFORM 9999-WRITE-PRINT-LINE.
066800      MOVE DSCP-RPT-SUPER-TITLE-LINE TO PRINT-LINE.
066900      PERFORM 9999-WRITE-PRINT-LINE.
067000      MOVE DSCP-RPT-RES-EXP-TITLE-LINE TO PRINT-LINE.
067100      PERFORM 9999-WRITE-PRINT-LINE.
067200      MOVE SPACES TO PRINT-LINE.
067300      PERFORM 9999-WRITE-PRINT-LINE.
067400  3200-MOVE-A-NUM-EXP-COLUMN.
067500      SET AVG-INDEX TO RS-CODE.
067600      MOVE NUMBER-OF-EXPS ( RESULT-CODE, EXPERIENCE-CODE, RS-CODE
           )
067700          TO DATA-AVG ( AVG-INDEX ).
067800  3300-MOVE-A-DSCP-COLUMN.
067900      SET AVG-INDEX TO RS-CODE.
068000      SET STDDEV-INDEX TO RS-CODE.
068100      IF NUMBER-OF-EXPS ( RESULT-CODE, EXPERIENCE-CODE, RS-CODE )
068200          > 1
068300          DIVIDE DSCP ( RESULT-CODE , EXPERIENCE-CODE , RS-CODE )
068400          BY NUMBER-OF-EXPS ( RESULT-CODE , EXPERIENCE-CODE ,
068500          RS-CODE ) GIVING
068600          DATA-AVG ( AVG-INDEX )
068700          COMPUTE LONG-TEMP =
068800          ( ( DSCP-SQ ( RESULT-CODE, EXPERIENCE-CODE, RS-CODE )
068900          - ( DSCP ( RESULT-CODE , EXPERIENCE-CODE , RS-CODE )
069000          * DSCP ( RESULT-CODE , EXPERIENCE-CODE , RS-CODE )
069100          / NUMBER-OF-EXPS ( RESULT-CODE , EXPERIENCE-CODE ,
069200          RS-CODE ) ) )
069300          / ( NUMBER-OF-EXPS ( RESULT-CODE, EXPERIENCE-CODE,
069400          RS-CODE )
069500          - 1 ) )
069600          COMPUTE DATA-STDDEV ( STDDEV-INDEX ) = LONG-TEMP ** 0.5
069700      ELSE MOVE DSCP ( RESULT-CODE, EXPERIENCE-CODE, RS-CODE ) TO
069800          DATA-AVG ( AVG-INDEX )
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069900          MOVE ZEROES TO DATA-STDDEV ( STDDEV-INDEX ).
070000 8888-WRITE-EDIT-HEADER.
070100      PERFORM 9000-WRITE-FIRST-HEADER-LINE.
070200      MOVE PAGE-CNT TO PAGE-NUM.
070300      WRITE PRTOUT-REC FROM EDIT-HEADER-LINE
070400          AFTER ADVANCING 1.
070500      ADD 1 TO LINE-CNT.
070600 9000-WRITE-FIRST-HEADER-LINE.
070700      MOVE CONTROL-L TO CNTL-L.
070800      MOVE PRINT-LINE-PARTS TO PRINT-LINE.
070900      PERFORM 9999-WRITE-PRINT-LINE.
071000      ADD 1 TO PAGE-CNT.
071100      MOVE ZEROES TO LINE-CNT.
071200      MOVE PAGE-CNT TO PAGE-NUM.
071300      MOVE HEADER-LINE-1 TO PRINT-LINE.
071400      PERFORM 9999-WRITE-PRINT-LINE.
071500 9999-WRITE-PRINT-LINE.
071600      WRITE PRTOUT-REC FROM PRINT-LINE
071700          AFTER ADVANCING 1.

DATA AREA IS %005421 WORDS.
CPU TIME = 0:00:31.  WALL TIME = 0:25:54.
COBOL/3000 COMPILATION.  NO ERRORS.  NO WARNINGS.

OF COMPILE

OF PREPARE
VE DSCPSV
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JRGE DOLL1SV
OBOLPREP DOLL1A,DOLL1SV

GE 0001   HP32213C.02.08  (C) HEWLETT-PACKARD CO. 1980

001100 IDENTIFICATION DIVISION.
001200 PROGRAM-ID. DOLL1.
001300 AUTHOR. JIM BACKUS.
001400 ENVIRONMENT DIVISION.
001500 CONFIGURATION SECTION.
001600 SOURCE-COMPUTER. HP-3000.
001700 OBJECT-COMPUTER. HP-3000.
001800 INPUT-OUTPUT SECTION.
001900 FILE-CONTROL.
002000 SELECT EXPIN ASSIGN TO "HCCLIST".
002100 SELECT PRTOUT ASSIGN TO "PRINTER".
002200 DATA DIVISION.
002300 FILE SECTION.
002400 FD  EXPIN
002500     LABEL RECORDS ARE STANDARD
002600     RECORD CONTAINS 60 CHARACTERS.
002700 01  EXPIN-REC    PIC X(60).
002800 FD  PRTOUT
002900     LABEL RECORDS ARE OMITTED
003000     RECORD CONTAINS 132 CHARACTERS.
003100 01  PRTOUT-REC    PIC X(132).
003200 WORKING-STORAGE SECTION.
003300 01  PROBATIONER-REC.
003400     05  FILE-NUM      PIC X(6).
003500     05  EXP-NUM       PIC 99.
003600     05  RISK-LEVEL    PIC X(2).
003700*RISK = "LO"  "MO"  "HI"
003800     05  SUPER-LEVEL   PIC X(2).
003900*SUPERVISION = "MA" "MI" "UN"
004000     05  COST-OF-PROB  PIC 9(5)V99.
004100*INTAKE=$62.05
004200*$/MILE=$0.185
004300*$/MINUTE=$0.3171
004400     05  COSTS         PIC 9(5)V99.
004500     05  FINES         PIC 9(5)V99.
004600     05  RESTITUTION   PIC 9(5)V99.
004700*COSTS, FINES, AND RESTITUTION PAID BY PROBATIONER
004800     05  POINTS        PIC 9(4).
004900     05  PROB-STATUS   PIC XX.
005000*ACTIVE              >   "AC"
005100*SUCCESSFUL          >   "SC"
005200***SUCCESSFUL        >   "SC"
005300***TERMINATED EARLY  >   "TE"
005400*UNSUCCESSFUL        >   "RE"
005500***CONTINUED         >   "CO"
005600***PV RECORDED       >   "PV"
005700***REVOKED           >   "RE"
005800***TERMINATED UNSC.  >   "TU"
005900     05  START-DATE    PIC 9(6).
006000     05  END-DATE      PIC 9(6).
006100     05  EXCL-CODE   PIC XX.
006200*BOTH DATES ARE IN YYMMDD FORMAT
006300 01  DOLLAR-RPT-DATA.
006400     05  EXP-GRP OCCURS 3 TIMES
006500                 INDEXED BY EXP-CODE.
006600*EXP-CODE=1 >> FIRST TIME
006700*          =2 >> SUBSEQUENT TIME
006800*          =3 >> ANY TIME
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006900           10  RS-GRP OCCURS 12 TIMES
007000                   INDEXED BY RS-CODE.
007100*RS-CODE =1 >> LOW RISK UNSUPERVISED
007200*         =2 >> MOD RISK UNSUPERVISED
007300*         =3 >> MOD RISK MIN SUPERVISION
007400*         =4 >> MOD RISK MAX SUPERVISION
007500*         =5 >> HI  RISK MIN SUPERVISION
007600*         =6 >> HI  RISK MAX SUPERVISION
007700*         =7 >> MOD RISK ANY SUPERVISION
007800*         =8 >> HI  RISK ANY SUPERVISION
007900*         =9 >> ANY RISK UNSUPERVISED
008000*         =10>> ANY RISK MIN SUPERVISION
008100*         =11>> ANY RISK MAX SUPERVISION
008200*         =12>> ANY RISK ANY SUPERVISION
008300              15  DSCP-GRP OCCURS 13 TIMES
008400                      INDEXED BY DSCP-CODE.
008500*DSCP-CODE = 1  >> 0 POINTS
008600*          = 2  >> 100 POINTS
008700*          = 3  >> 200 POINTS
008800*          = 4  >> 300 POINTS
008900*          = 5  >> 400 POINTS
009000*          = 6  >> 500 POINTS
009100*          = 7  >> 600 POINTS
009200*          = 8  >> 700 POINTS
009300*          = 9  >> 800 POINTS
009400*          =10  >> 900 POINTS
009500*          =11  >>1000 POINTS
009600*          =12  >> MORE THAN 1000 POINTS
009700*          =13  >> ANY POINT LEVEL
009800                   20  NUMBER-OF-EXPS  PIC 9(5).
009900*EXCESS OF RECEIPTS OVER COSTS:
010000                   20  EXCESS  PIC S9(7)V99.
010100                   20  EXCESS-SQ PIC 9(10)V9.
010200*FINES + RESTITUTION + COSTS INCURRED
010300                   20  GROSS  PIC 9(7)V99.
010400                   20  GROSS-SQ  PIC 9(10)V9.
010500                   20  FINE  PIC 9(7)V99.
010600                   20  FINE-SQ  PIC 9(10)V9.
010700 01  MISCELLANEOUS-STUFF.
010800     05  EXPIN-EOF-SW  PIC X VALUE "N".
010900     05  PRINT-STATUS-END-ERROR-SW PIC X.
011000     05  LAST-INVALID-RS-FILE-NUM  PIC X(6).
011100     05  LAST-INVALID-RS-EXP-NUM   PIC 9(2).
011200     05  GOOD-DATE-SW  PIC X VALUE "N".
011300     05  VALID-RS-SW   PIC X.
011400     05  LINE-CNT      PIC 99     VALUE 60.
011500     05  PAGE-CNT      PIC 99 VALUE ZERO.
011600     05  TEMP          PIC 9(7)V99.
011700     05  TEMP-SQ       PIC 9(6)V9.
011800     05  GROSS-TEMP    PIC 9(7)V99.
011900     05  EXCESS-TEMP   PIC S9(7)V99.
012000     05  TEMP-DSCP     PIC 9(5).
012100     05  RECORDS-READ  PIC 9(6)   VALUE ZEROES.
012200     05  CORRECT-DATE-RANGE-CNT  PIC 9(6)  VALUE ZEROES.
012300     05  FILE-NUM-CNT  PIC 9(6)  VALUE ZEROES.
012400     05  INCLUDE-CNT   PIC 9(6)  VALUE ZEROES.
012500     05  EXCLUDE-CNT   PIC 9(6)  VALUE ZEROES.
012600     05  DUPLICATE-CNT PIC 9(6)  VALUE ZEROES.
012700     05  TOO-LATE-CNT  PIC 9(6)  VALUE ZEROES.
012800     05  TOO-EARLY-CNT PIC 9(6)  VALUE ZEROES.
012900     05  INVALID-RS-CNT PIC 9(6) VALUE ZEROES.
013000     05  INVALID-STATUS-CNT PIC 9(6) VALUE ZEROES.
013100     05  INVALID-COST-CNT PIC 9(6) VALUE ZEROES.
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013200     05  INVALID-EXP-CNT PIC 9(6) VALUE ZEROES.
013300     05  LAST-FILE-NUM PIC X(6)   VALUE SPACES.
013400     05  TEMP-PTS     PIC 9(4).
013500     05  LONG-TEMP    PIC 9(18).
013600 01  FORM-FEED     PIC S9(4)      COMP VALUE 12.
013700 01  CONTROL-L     REDEFINES FORM-FEED PIC XX.
013800 01  PRINT-LINE-PARTS.
013900     05  CNTL-L    PIC XX.
014000     05  FILLER    PIC X(130)     VALUE SPACES.
014100 01  PRINT-LINE          PIC X(132).
014200 01  HEADER-LINE-1.
014300     05  FILLER          PIC X
014400         VALUE SPACES.
014500     05  FILLER          PIC X(32)
014600         VALUE "ARTHUR YOUNG & COMPANY DATA ANAL".
014700     05  FILLER          PIC X(32)
014800         VALUE "YSIS ORGANIZATION REPORTS - DATA".
014900     05  FILLER          PIC X(6)
015000         VALUE " FROM ".
015100     05  STUDY-START-DATE PIC 9(6).
015200     05  FILLER          PIC X(4)
015300         VALUE " TO ".
015400     05  REPORT-DATE    PIC 9(6).
015500     05  FILLER       PIC X(37)
015600         VALUE SPACES.
015700     05  FILLER          PIC X(5)
015800         VALUE "PAGE ".
015900     05  PAGE-NUM        PIC Z9.
016000     05  FILLER          PIC X
016100         VALUE SPACES.
016200 01  EDIT-HEADER-LINE.
016300     05  FILLER          PIC X
016400         VALUE SPACES.
016500     05  FILLER          PIC X(24)
016600         VALUE "EDIT PROBATIONER RECORDS".
016700     05  FILLER       PIC X(107)  VALUE SPACES.
016800 01  INVALID-EXP-NUM-LINE.
016900     05  FILLER          PIC X VALUE SPACES.
017000     05  FILLER          PIC X(26)
017100         VALUE "INVALID EXPERIENCE NUMBER ".
017200     05  FILLER          PIC X(7) VALUE SPACES.
017300     05  FILLER          PIC X(32)
017400         VALUE " PROBATIONER FILE AND EXP EQUAL ".
017500     05  INVALID-EXP-NUM-FILE-NUM-OUT PIC X(6).
017600     05  INVALID-EXP-NUM-EXP-NUM-OUT PIC 99.
017700     05  FILLER       PIC X(58)   VALUE SPACES.
017800 01  INVALID-RS-LINE.
017900     05  FILLER PIC X VALUE SPACES.
018000     05  FILLER PIC X(29)
018100         VALUE "INVALID RISK AND SUPERVISION ".
018200     05  INVALID-RISK-OUT PIC XX.
018300     05  INVALID-SUPER-OUT PIC XX.
018400     05  FILLER PIC X(32)
018500         VALUE " PROBATIONER FILE AND EXP EQUAL ".
018600     05  INVALID-RS-FILE-NUM-OUT PIC X(6).
018700     05  INVALID-RS-EXP-NUM-OUT PIC 99.
018800     05  FILLER       PIC X(58)   VALUE SPACES.
018900 01  INVALID-STATUS-LINE.
019000     05  FILLER          PIC X      VALUE SPACES.
019100     05  FILLER          PIC X(24)
019200         VALUE "INVALID STATUS & END    ".
019300     05  INVALID-STATUS-OUT PIC XX.
019400     05  FILLER          PIC X      VALUE SPACES.
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019500      05  INVALID-END-DATE-OUT    PIC 9(6).
019600      05  FILLER      PIC X(32)
019700          VALUE " PROBATIONER FILE AND EXP EQUAL ".
019800      05  INVALID-STATUS-FILE-NUM-OUT  PIC X(6).
019900      05  INVALID-STATUS-EXP-NUM-OUT   PIC 99.
020000      05  FILLER      PIC X(58)   VALUE SPACES.
020100  01  INVALID-COST-OF-PROB-LINE.
020200      05  FILLER      PIC X(27)
020300          VALUE " INVALID COST OF PROBATION ".
020400      05  INVALID-COST-OF-PROB-OUT PIC 9(5)V99.
020500      05  FILLER      PIC X(32)
020600          VALUE " PROBATIONER FILE AND EXP EQUAL ".
020700      05  INVALID-COST-OF-PROB-FILE-OUT PIC X(6).
020800      05  INVALID-COST-OF-PROB-EXP-OUT  PIC XX.
020900      05  FILLER      PIC X(58)   VALUE SPACES.
021000  01  DOLLAR-RPT-HEADER-LINE-2.
021100      05  FILLER      PIC X(55)   VALUE SPACES.
021200      05  EXPERIENCE-DESCRIPTION PIC X(22).
021300      05  FILLER      PIC X(55)   VALUE SPACES.
021400  01  DOLLAR-RPT-HEADER-LINE-3.
021500      05  FILLER      PIC X(52)   VALUE SPACES.
021600      05  DATA-DESCRIPTION        PIC X(29).
021700      05  FILLER      PIC X(51)   VALUE SPACES.
021800  01  DOLLAR-RPT-RISK-TITLE-LINE.
021900      05  FILLER      PIC X(6)    VALUE SPACES.
022000      05  FILLER      PIC X(13)   VALUE "RISK:          ".
022100      05  FILLER      PIC X(9)    VALUE "      LOW".
022200      05  FILLER      PIC X(9)    VALUE " MODERATE".
022300      05  FILLER      PIC X(9)    VALUE " MODERATE".
022400      05  FILLER      PIC X(9)    VALUE " MODERATE".
022500      05  FILLER      PIC X(9)    VALUE "     HIGH".
022600      05  FILLER      PIC X(9)    VALUE "     HIGH".
022700      05  FILLER      PIC X(9)    VALUE " MODERATE".
022800      05  FILLER      PIC X(9)    VALUE "     HIGH".
022900      05  FILLER      PIC X(9)    VALUE "      ANY".
023000      05  FILLER      PIC X(9)    VALUE "      ANY".
023100      05  FILLER      PIC X(9)    VALUE "      ANY".
023200      05  FILLER      PIC X(9)    VALUE "      ANY".
023300      05  FILLER      PIC X(5)    VALUE SPACES.
023400  01  DOLLAR-RPT-SUPER-TITLE-LINE.
023500      05  FILLER      PIC X       VALUE SPACES.
023600      05  FILLER      PIC X(5)    VALUE "DSCP ".
023700      05  FILLER      PIC X(13)   VALUE "SUPERVISION: ".
023800      05  FILLER      PIC X(9)    VALUE " UNSUPER.".
023900      05  FILLER      PIC X(9)    VALUE " UNSUPER.".
024000      05  FILLER      PIC X(9)    VALUE "  MINIMUM".
024100      05  FILLER      PIC X(9)    VALUE "  MAXIMUM".
024200      05  FILLER      PIC X(9)    VALUE "  MINIMUM".
024300      05  FILLER      PIC X(9)    VALUE "  MAXIMUM".
024400      05  FILLER      PIC X(9)    VALUE "      ANY".
024500      05  FILLER      PIC X(9)    VALUE "      ANY".
024600      05  FILLER      PIC X(9)    VALUE " UNSUPER.".
024700      05  FILLER      PIC X(9)    VALUE "  MINIMUM".
024800      05  FILLER      PIC X(9)    VALUE "  MAXIMUM".
024900      05  FILLER      PIC X(9)    VALUE "      ANY".
025000      05  FILLER      PIC X(5)    VALUE SPACES.
025100  01  DOLLAR-RPT-DATA-LINE-AVG.
025200      05  FILLER      PIC X       VALUE SPACES.
025300      05  NUM-PTS     PIC ZZZ9.
025400      05  VALUE-PLUS  PIC X       VALUE SPACES.
025500      05  FILLER      PIC X(13)   VALUE SPACES.
025600      05  DATA-PORTION-AVG        OCCURS 12 TIMES
025700          INDEXED BY AVG-INDEX.
025800          10  DATA-AVG    PIC -----9.99.
025900      05  FILLER      PIC X(5)    VALUE SPACES.
026000  01  DOLLAR-RPT-DATA-LINE-STDDEV.
026100      05  FILLER      PIC X(5)    VALUE " +/- ".
026200      05  FILLER      PIC X(14)   VALUE SPACES.
026300      05  DATA-PORTION-STDDEV     OCCURS 12 TIMES
026400          INDEXED BY STDDEV-INDEX.
026500          10  DATA-STDDEV PIC ZZZZZ9.99.
026600      05  FILLER      PIC X(5)    VALUE SPACES.
026700  01  COUNT-OUT-LINE.
026800      05  FILLER PIC X VALUE SPACES.
026900      05  COUNT-DESC PIC X(21).
027000      05  FILLER PIC X VALUE SPACES.
027100      05  COUNT-OUT  PIC 9(6).
027200      05  FILLER PIC X(103) VALUE SPACES.
027300  PROCEDURE DIVISION.
027400  0000-PRODUCE-DOLLAR-STATS.
027500      PERFORM 1000-SETUP.
027600      PERFORM 2000-PROC-EACH-REC UNTIL
027700          EXPIN-EOF-SW EQUAL TO "Y".
027800      CLOSE EXPIN.
027900      PERFORM 3000-WRITE-RESULTS.
028000      CLOSE PRTOUT.
028100      STOP RUN.
028200  1000-SETUP.
028300      MOVE "N" TO EXPIN-EOF-SW.
028400      OPEN INPUT EXPIN.
028500      OPEN OUTPUT PRTOUT.
028600      MOVE "N" TO GOOD-DATE-SW.
028700      PERFORM 1100-GET-DATE-PARMS UNTIL
028800          GOOD-DATE-SW EQUAL TO "Y".
028900      MOVE ZEROES TO EXP-GRP ( 1 ).
029000      MOVE ZEROES TO EXP-GRP ( 2 ).
029100      MOVE ZEROES TO EXP-GRP ( 3 ).
029200  1100-GET-DATE-PARMS.
029300      DISPLAY SPACE.
029400      DISPLAY "ENTER STUDY START DATE YYMMDD:".
029500      ACCEPT STUDY-START-DATE.
029600      DISPLAY SPACE.
029700      DISPLAY "ENTER END OF REPORT PERIOD YYMMDD:".
029800      ACCEPT REPORT-DATE.
029900      DISPLAY SPACE.
030000      DISPLAY "SHALL I PRINT STATUS/END ERRORS (Y/N)?: ".
030100      ACCEPT PRINT-STATUS-END-ERROR-SW.
030200      DISPLAY SPACE.
030300      DISPLAY STUDY-START-DATE.
030400          " THROUGH ". REPORT-DATE.
030500          " OKAY? ".
030600      DISPLAY SPACE.
030700      DISPLAY "TYPE Y TO CONFIRM:".
030800      ACCEPT GOOD-DATE-SW.
030900  2000-PROC-EACH-REC.
031000      READ EXPIN RECORD INTO PROBATIONER-REC
031100          AT END MOVE "Y" TO EXPIN-EOF-SW.
031200      IF EXPIN-EOF-SW NOT EQUAL TO "Y"
031300        ADD 1 TO RECORDS-READ
031400        IF FILE-NUM > LAST-FILE-NUM
031500          ADD 1 TO FILE-NUM-CNT
031600          MOVE FILE-NUM TO LAST-FILE-NUM
031700          IF START-DATE NOT < STUDY-START-DATE
031800            IF END-DATE NOT > REPORT-DATE
031900              ADD 1 TO CORRECT-DATE-RANGE-CNT
032000              IF EXCL-CODE = SPACES
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032100                ADD 1 TO INCLUDE-CNT
032200                IF COST-OF-PROB > 62.04
032300                  IF PROB-STATUS = "SC"
032400                  OR PROB-STATUS= "TE"
032500                  OR PROB-STATUS= "CO"
032600                  OR PROB-STATUS= "PV"
032700                  OR PROB-STATUS= "TU"
032800                  OR PROB-STATUS = "RE"
032900                    PERFORM 2100-UPDATE-DOLLAR-RPT-DATA
033000                  ELSE PERFORM 2200-WRITE-INVALID-STATUS
033100                ELSE PERFORM 2400-WRITE-INVALID-COST-PROB
033200              ELSE ADD 1 TO EXCLUDE-CNT
033300            ELSE ADD 1 TO TOO-LATE-CNT
033400          ELSE ADD 1 TO TOO-EARLY-CNT
033500        ELSE ADD 1 TO DUPLICATE-CNT.
033600 2100-UPDATE-DOLLAR-RPT-DATA.
033700     IF EXP-NUM = 1
033800         SET EXP-CODE TO 1
033900         PERFORM 2110-UPDATE-SPECD-EXP
034000         SET EXP-CODE TO 3
034100         PERFORM 2110-UPDATE-SPECD-EXP
034200     ELSE IF EXP-NUM > 1
034300         SET EXP-CODE TO 2
034400         PERFORM 2110-UPDATE-SPECD-EXP
034500         SET EXP-CODE TO 3
034600         PERFORM 2110-UPDATE-SPECD-EXP
034700     ELSE PERFORM 2140-WRITE-INVALID-EXP-NUM.
034800 2110-UPDATE-SPECD-EXP.
034900     MOVE "Y" TO VALID-RS-SW.
035000     IF RISK-LEVEL = "LO"
035100         IF SUPER-LEVEL = "UN"
035200             SET RS-CODE TO 1
035300             PERFORM 2111-UPDATE-SPECD-RS
035400             SET RS-CODE TO 9
035500             PERFORM 2111-UPDATE-SPECD-RS
035600         ELSE PERFORM 2112-WRITE-INVALID-RS
035700     ELSE IF RISK-LEVEL = "MO"
035800         IF SUPER-LEVEL = "UN"
035900             SET RS-CODE TO 2
036000             PERFORM 2111-UPDATE-SPECD-RS
036100             SET RS-CODE TO 7
036200             PERFORM 2111-UPDATE-SPECD-RS
036300             SET RS-CODE TO 9
036400             PERFORM 2111-UPDATE-SPECD-RS
036500         ELSE IF SUPER-LEVEL = "MI"
036600             SET RS-CODE TO 3
036700             PERFORM 2111-UPDATE-SPECD-RS
036800             SET RS-CODE TO 7
036900             PERFORM 2111-UPDATE-SPECD-RS
037000             SET RS-CODE TO 10
037100             PERFORM 2111-UPDATE-SPECD-RS
037200         ELSE IF SUPER-LEVEL = "MA"
037300             SET RS-CODE TO 4
037400             PERFORM 2111-UPDATE-SPECD-RS
037500             SET RS-CODE TO 7
037600             PERFORM 2111-UPDATE-SPECD-RS
037700             SET RS-CODE TO 11
037800             PERFORM 2111-UPDATE-SPECD-RS
037900         ELSE PERFORM 2112-WRITE-INVALID-RS
038000     ELSE IF RISK-LEVEL = "HI"
038100         IF SUPER-LEVEL = "MI"
038200             SET RS-CODE TO 5
038300             PERFORM 2111-UPDATE-SPECD-RS
038400             SET RS-CODE TO 8
038500             PERFORM 2111-UPDATE-SPECD-RS
038600             SET RS-CODE TO 10
038700             PERFORM 2111-UPDATE-SPECD-RS
038800         ELSE IF SUPER-LEVEL = "MA"
038900             SET RS-CODE TO 6
039000             PERFORM 2111-UPDATE-SPECD-RS
039100             SET RS-CODE TO 8
039200             PERFORM 2111-UPDATE-SPECD-RS
039300             SET RS-CODE TO 11
039400             PERFORM 2111-UPDATE-SPECD-RS
039500         ELSE PERFORM 2112-WRITE-INVALID-RS
039600     ELSE PERFORM 2112-WRITE-INVALID-RS.
039700     IF VALID-RS-SW = "Y"
039800         SET RS-CODE TO 12
039900         PERFORM 2111-UPDATE-SPECD-RS.
040000 2111-UPDATE-SPECD-RS.
040100     DIVIDE POINTS BY 100 GIVING TEMP-DSCP.
040200     ADD 1 TO TEMP-DSCP.
040300     IF TEMP-DSCP > 12
040400         MOVE 12 TO TEMP-DSCP.
040500     SET DSCP-CODE TO TEMP-DSCP.
040600     PERFORM 2120-UPDATE-SPECD-DSCP.
040700     SET DSCP-CODE TO 13.
040800     PERFORM 2120-UPDATE-SPECD-DSCP.
040900 2112-WRITE-INVALID-RS.
041000     MOVE "N" TO VALID-RS-SW.
041100     IF FILE-NUM = LAST-INVALID-RS-FILE-NUM
041200         IF EXP-NUM = LAST-INVALID-RS-EXP-NUM
041300             NEXT SENTENCE
041400         ELSE PERFORM 2113-WRITE-INVALID-RS-2
041500     ELSE PERFORM 2113-WRITE-INVALID-RS-2.
041600 2113-WRITE-INVALID-RS-2.
041700     ADD 1 TO INVALID-RS-CNT.
041800     MOVE FILE-NUM TO INVALID-RS-FILE-NUM-OUT.
041900     MOVE EXP-NUM  TO INVALID-RS-EXP-NUM-OUT.
042000     MOVE RISK-LEVEL TO INVALID-RISK-OUT.
042100     MOVE SUPER-LEVEL TO INVALID-SUPER-OUT.
042200     ADD 1 TO LINE-CNT.
042300     IF LINE-CNT > 55
042400         PERFORM 8888-WRITE-EDIT-HEADER.
042500     MOVE INVALID-RS-LINE TO PRINT-LINE.
042600     PERFORM 9999-WRITE-PRINT-LINE.
042700     MOVE FILE-NUM TO LAST-INVALID-RS-FILE-NUM.
042800     MOVE EXP-NUM  TO LAST-INVALID-RS-EXP-NUM.
042900 2120-UPDATE-SPECD-DSCP.
043000     ADD 1 TO NUMBER-OF-EXPS ( EXP-CODE, RS-CODE, DSCP-CODE ).
043100     ADD COSTS, FINES, RESTITUTION GIVING GROSS-TEMP.
043200     SUBTRACT COST-OF-PROB FROM GROSS-TEMP
043300         GIVING EXCESS-TEMP.
043400     ADD EXCESS-TEMP TO EXCESS ( EXP-CODE, RS-CODE, DSCP-CODE).
043500     MULTIPLY EXCESS-TEMP BY EXCESS-TEMP
043600         GIVING TEMP-SQ.
043700     ADD TEMP-SQ TO EXCESS-SQ ( EXP-CODE, RS-CODE, DSCP-CODE ).
043800     ADD GROSS-TEMP TO GROSS ( EXP-CODE, RS-CODE, DSCP-CODE ).
043900     MULTIPLY GROSS-TEMP BY GROSS-TEMP
044000         GIVING TEMP-SQ.
044100     ADD TEMP-SQ TO GROSS-SQ ( EXP-CODE, RS-CODE, DSCP-CODE ).
044200     ADD FINES TO FINE ( EXP-CODE, RS-CODE, DSCP-CODE ).
044300     MULTIPLY FINES BY FINES GIVING
044400         TEMP-SQ.
044500     ADD TEMP-SQ TO FINE-SQ ( EXP-CODE, RS-CODE, DSCP-CODE ).
044600 2140-WRITE-INVALID-EXP-NUM.
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044700      ADD 1 TO INVALID-EXP-CNT.
044800      MOVE FILE-NUM TO
044900          INVALID-EXP-NUM-FILE-NUM-OUT.
045000      MOVE EXP-NUM TO
045100          INVALID-EXP-NUM-EXP-NUM-OUT.
045200      ADD 1 TO LINE-CNT.
045300      IF LINE-CNT > 55
045400          PERFORM 8888-WRITE-EDIT-HEADER.
045500      MOVE INVALID-EXP-NUM-LINE TO PRINT-LINE.
045600      PERFORM 9999-WRITE-PRINT-LINE.
045700  2200-WRITE-INVALID-STATUS.
045800      ADD 1 TO INVALID-STATUS-CNT.
045900      MOVE FILE-NUM TO INVALID-STATUS-FILE-NUM-OUT.
046000      MOVE EXP-NUM  TO INVALID-STATUS-EXP-NUM-OUT.
046100      MOVE PROB-STATUS TO INVALID-STATUS-OUT.
046200      MOVE END-DATE TO INVALID-END-DATE-OUT.
046300      IF PRINT-STATUS-END-ERROR-SW = "Y"
046400          ADD 1 TO LINE-CNT
046500          IF LINE-CNT > 55
046600              PERFORM 8888-WRITE-EDIT-HEADER.
046700      IF PRINT-STATUS-END-ERROR-SW = "Y"
046800          MOVE INVALID-STATUS-LINE TO PRINT-LINE
046900          PERFORM 9999-WRITE-PRINT-LINE.
047000  2400-WRITE-INVALID-COST-PROB.
047100      ADD 1 TO INVALID-COST-CNT.
047200      MOVE FILE-NUM TO INVALID-COST-OF-PROB-FILE-OUT.
047300      MOVE EXP-NUM  TO INVALID-COST-OF-PROB-EXP-OUT.
047400      MOVE COST-OF-PROB TO INVALID-COST-OF-PROB-OUT.
047500      ADD 1 TO LINE-CNT.
047600      IF LINE-CNT > 55
047700          PERFORM 8888-WRITE-EDIT-HEADER.
047800      MOVE INVALID-COST-OF-PROB-LINE TO PRINT-LINE.
047900      PERFORM 9999-WRITE-PRINT-LINE.
048000  3000-WRITE-RESULTS.
048100      SET EXP-CODE TO 1.
048200      MOVE "FIRST EXPERIENCES" TO EXPERIENCE-DESCRIPTION.
048300      PERFORM 3100-PRINT-7-PAGES.
048400      MOVE "SUBSEQUENT EXPERIENCES" TO EXPERIENCE-DESCRIPTION.
048500      SET EXP-CODE TO 2.
048600      PERFORM 3100-PRINT-7-PAGES.
048700      SET EXP-CODE TO 3.
048800      MOVE "ALL EXPERIENCES" TO EXPERIENCE-DESCRIPTION.
048900      PERFORM 3100-PRINT-7-PAGES.
049000      PERFORM 9000-WRITE-FIRST-HEADER-LINE.
049100      MOVE "RECORDS READ" TO COUNT-DESC.
049200      MOVE RECORDS-READ TO COUNT-OUT.
049300      PERFORM 3010-WRITE-COUNT.
049400      MOVE "VALID DATE RANGES" TO COUNT-DESC.
049500      MOVE CORRECT-DATE-RANGE-CNT TO COUNT-OUT.
049600      PERFORM 3010-WRITE-COUNT.
049700      MOVE "DISTINCT FILE NUMBERS" TO COUNT-DESC.
049800      MOVE FILE-NUM-CNT TO COUNT-OUT.
049900      PERFORM 3010-WRITE-COUNT.
050000      MOVE "INCLUDED RECORDS" TO COUNT-DESC.
050100      MOVE INCLUDE-CNT TO COUNT-OUT.
050200      PERFORM 3010-WRITE-COUNT.
050300      MOVE "EXCLUDED RECORDS" TO COUNT-DESC.
050400      MOVE EXCLUDE-CNT TO COUNT-OUT.
050500      PERFORM 3010-WRITE-COUNT.
050600      MOVE "MULTIPLE EXPERIENCES" TO COUNT-DESC.
050700      MOVE DUPLICATE-CNT TO COUNT-OUT.
050800      PERFORM 3010-WRITE-COUNT.
050900      MOVE "TOO LATE END DATE" TO COUNT-DESC.
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051000      MOVE TOO-LATE-CNT TO COUNT-OUT.
051100      PERFORM 3010-WRITE-COUNT.
051200      MOVE "TOO EARLY START DATE" TO COUNT-DESC.
051300      MOVE TOO-EARLY-CNT TO COUNT-OUT.
051400      PERFORM 3010-WRITE-COUNT.
051500      MOVE "INVALID RISK & SUPER" TO COUNT-DESC.
051600      MOVE INVALID-RS-CNT TO COUNT-OUT.
051700      PERFORM 3010-WRITE-COUNT.
051800      MOVE "INVALID STATUS" TO COUNT-DESC.
051900      MOVE INVALID-STATUS-CNT TO COUNT-OUT.
052000      PERFORM 3010-WRITE-COUNT.
052100      MOVE "INVALID COST" TO COUNT-DESC.
052200      MOVE INVALID-COST-CNT TO COUNT-OUT.
052300      PERFORM 3010-WRITE-COUNT.
052400      MOVE "INVALID TIMES ON PROB" TO COUNT-DESC.
052500      MOVE INVALID-EXP-CNT TO COUNT-OUT.
052600      PERFORM 3010-WRITE-COUNT.
052700  3010-WRITE-COUNT.
052800      MOVE COUNT-OUT-LINE TO PRINT-LINE.
052900      PERFORM 9999-WRITE-PRINT-LINE.
053000  3100-PRINT-7-PAGES.
053100      MOVE "NUMBERS OF EXPERIENCES" TO DATA-DESCRIPTION.
053200      PERFORM 3110-WRITE-DOLLAR-RPT-HEADER.
053300      PERFORM 3120-WRITE-NUM-EXPS-DATA-LINE VARYING TEMP-DSCP
053400          FROM 1 BY 1 UNTIL TEMP-DSCP = 14.
053500      MOVE "EXCESS OF RECEIPTS OVER COSTS" TO DATA-DESCRIPTION.
053600      PERFORM 3110-WRITE-DOLLAR-RPT-HEADER.
053700      PERFORM 3130-WRITE-EXCESS-DATA-LINES VARYING TEMP-DSCP
053800          FROM 1 BY 1 UNTIL TEMP-DSCP = 14.
053900      MOVE "AVERAGE GROSS RECEIPTS" TO DATA-DESCRIPTION.
054000      PERFORM 3110-WRITE-DOLLAR-RPT-HEADER.
054100      PERFORM 3140-WRITE-GROSS-DATA-LINES VARYING TEMP-DSCP
054200          FROM 1 BY 1 UNTIL TEMP-DSCP = 14.
054300      MOVE "AVERAGE FINES COLLECTED" TO DATA-DESCRIPTION.
054400      PERFORM 3110-WRITE-DOLLAR-RPT-HEADER.
054500      PERFORM 3150-WRITE-FINES-DATA-LINES VARYING TEMP-DSCP
054600          FROM 1 BY 1 UNTIL TEMP-DSCP = 14.
054700  3110-WRITE-DOLLAR-RPT-HEADER.
054800      PERFORM 9000-WRITE-FIRST-HEADER-LINE.
054900      MOVE DOLLAR-RPT-HEADER-LINE-2 TO PRINT-LINE.
055000      PERFORM 9999-WRITE-PRINT-LINE.
055100      MOVE DOLLAR-RPT-HEADER-LINE-3 TO PRINT-LINE.
055200      PERFORM 9999-WRITE-PRINT-LINE.
055300      MOVE SPACES TO PRINT-LINE.
055400      PERFORM 9999-WRITE-PRINT-LINE.
055500      PERFORM 9999-WRITE-PRINT-LINE.
055600      MOVE DOLLAR-RPT-RISK-TITLE-LINE TO PRINT-LINE.
055700      PERFORM 9999-WRITE-PRINT-LINE.
055800      MOVE DOLLAR-RPT-SUPER-TITLE-LINE TO PRINT-LINE.
055900      PERFORM 9999-WRITE-PRINT-LINE.
056000      MOVE SPACES TO PRINT-LINE.
056100      PERFORM 9999-WRITE-PRINT-LINE.
056200  3120-WRITE-NUM-EXPS-DATA-LINE.
056300      PERFORM 3122-SET-UP-DATA-LINE-TEXT.
056400      PERFORM 3121-MOVE-A-NUM-EXP-COLUMN
056500          VARYING RS-CODE FROM 1 BY 1
056600          UNTIL RS-CODE > 12.
056700      MOVE DOLLAR-RPT-DATA-LINE-AVG TO PRINT-LINE.
056800      PERFORM 9999-WRITE-PRINT-LINE.
056900  3122-SET-UP-DATA-LINE-TEXT.
057000      MULTIPLY TEMP-DSCP BY 100 GIVING TEMP-PTS.
057100      SUBTRACT 100 FROM TEMP-PTS.
057200      MOVE TEMP-PTS TO NUM-PTS.
```

```
057300     MOVE SPACES TO VALUE-PLUS.
057400     IF TEMP-DSCP = 12
057500         MOVE 1000 TO NUM-PTS
057600         MOVE "+" TO VALUE-PLUS.
057700     IF TEMP-DSCP > 12
057800         MOVE ZEROES TO NUM-PTS
057900         MOVE "&" TO VALUE-PLUS.
058000 3121-MOVE-A-NUM-EXP-COLUMN.
058100     SET AVG-INDEX TO RS-CODE.
058200     SET DSCP-CODE TO TEMP-DSCP.
058300     MOVE NUMBER-OF-EXPS ( EXP-CODE, RS-CODE, DSCP-CODE )
058400         TO DATA-AVG ( AVG-INDEX ).
058500 3130-WRITE-EXCESS-DATA-LINES.
058600     PERFORM 3131-MOVE-AN-EXCESS-COLUMN
058700         VARYING RS-CODE FROM 1 BY 1
058800         UNTIL RS-CODE > 12.
058900     PERFORM 3132-WRITE-2-DATA-LINES.
059000 3131-MOVE-AN-EXCESS-COLUMN.
059100     SET AVG-INDEX TO RS-CODE.
059200     SET STDDEV-INDEX TO RS-CODE.
059300     SET DSCP-CODE TO TEMP-DSCP.
059400     IF NUMBER-OF-EXPS ( EXP-CODE, RS-CODE, DSCP-CODE ) > 1
059500         COMPUTE LONG-TEMP =
059600         ( ( EXCESS-SQ ( EXP-CODE, RS-CODE, DSCP-CODE )
059700         - ( EXCESS ( EXP-CODE , RS-CODE , DSCP-CODE )
059800         * EXCESS ( EXP-CODE , RS-CODE , DSCP-CODE )
059900         / NUMBER-OF-EXPS ( EXP-CODE , RS-CODE ,
060000         DSCP-CODE ) ) )
060100         / ( NUMBER-OF-EXPS ( EXP-CODE, RS-CODE, DSCP-CODE )
060200         - 1 ) )
060300         COMPUTE DATA-STDDEV ( STDDEV-INDEX ) =
060400         LONG-TEMP ** 0.5
060500     DIVIDE EXCESS ( EXP-CODE, RS-CODE, DSCP-CODE ) BY
060600         NUMBER-OF-EXPS ( EXP-CODE, RS-CODE, DSCP-CODE ) GIVING
060700         DATA-AVG ( AVG-INDEX )
060800     ELSE MOVE EXCESS ( EXP-CODE, RS-CODE, DSCP-CODE ) TO
060900         DATA-AVG ( AVG-INDEX )
                                ^
WARNING 179  LEFT TRUNCATION MAY OCCUR.
061000         MOVE ZEROES TO DATA-STDDEV ( STDDEV-INDEX ).
061100 3132-WRITE-2-DATA-LINES.
061200     PERFORM 3122-SET-UP-DATA-LINE-TEXT.
061300     MOVE DOLLAR-RPT-DATA-LINE-AVG TO PRINT-LINE.
061400     PERFORM 9999-WRITE-PRINT-LINE.
061500     MOVE DOLLAR-RPT-DATA-LINE-STDDEV TO PRINT-LINE.
061600     PERFORM 9999-WRITE-PRINT-LINE.
061700 3140-WRITE-GROSS-DATA-LINES.
061800     PERFORM 3141-MOVE-A-GROSS-COLUMN
061900     VARYING RS-CODE FROM 1 BY 1
062000     UNTIL RS-CODE > 12.
062100     PERFORM 3132-WRITE-2-DATA-LINES.
062200 3141-MOVE-A-GROSS-COLUMN.
062300     SET AVG-INDEX TO RS-CODE.
062400     SET STDDEV-INDEX TO RS-CODE.
062500     SET DSCP-CODE TO TEMP-DSCP.
062600     IF NUMBER-OF-EXPS ( EXP-CODE, RS-CODE, DSCP-CODE ) > 1
062700         DIVIDE GROSS ( EXP-CODE, RS-CODE, DSCP-CODE )
062800             BY NUMBER-OF-EXPS ( EXP-CODE, RS-CODE, DSCP-CODE )
062900             GIVING DATA-AVG ( AVG-INDEX )
063000         COMPUTE LONG-TEMP =
063100         ( ( GROSS-SQ ( EXP-CODE, RS-CODE, DSCP-CODE )
063200         - ( GROSS ( EXP-CODE , RS-CODE , DSCP-CODE )
063300         * GROSS ( EXP-CODE , RS-CODE , DSCP-CODE )
063400         / NUMBER-OF-EXPS ( EXP-CODE , RS-CODE ,
063500         DSCP-CODE ) ) )
063600         / ( NUMBER-OF-EXPS ( EXP-CODE, RS-CODE, DSCP-CODE )
063700         - 1 ) )
063800         COMPUTE DATA-STDDEV ( STDDEV-INDEX ) =
063900         LONG-TEMP ** 0.5
064000     ELSE MOVE GROSS ( EXP-CODE, RS-CODE, DSCP-CODE )
064100         TO DATA-AVG ( AVG-INDEX )
                                ^
WARNING 179  LEFT TRUNCATION MAY OCCUR.  SEE 060900
064200         MOVE ZEROES TO DATA-STDDEV ( STDDEV-INDEX ).
064300 3150-WRITE-FINES-DATA-LINES.
064400     PERFORM 3151-MOVE-A-FINE-COLUMN
064500         VARYING RS-CODE FROM 1 BY 1
064600         UNTIL RS-CODE > 12.
064700     PERFORM 3132-WRITE-2-DATA-LINES.
064800 3151-MOVE-A-FINE-COLUMN.
064900     SET AVG-INDEX TO RS-CODE.
065000     SET STDDEV-INDEX TO RS-CODE.
065100     SET DSCP-CODE TO TEMP-DSCP.
065200     IF NUMBER-OF-EXPS ( EXP-CODE, RS-CODE, DSCP-CODE ) > 1
065300         DIVIDE FINE ( EXP-CODE, RS-CODE, DSCP-CODE )
065400             BY NUMBER-OF-EXPS ( EXP-CODE, RS-CODE, DSCP-CODE )
065500             GIVING DATA-AVG ( AVG-INDEX )
065600         COMPUTE LONG-TEMP =
065700         ( ( FINE-SQ ( EXP-CODE, RS-CODE, DSCP-CODE )
065800         - ( FINE ( EXP-CODE , RS-CODE , DSCP-CODE )
065900         * FINE ( EXP-CODE , RS-CODE , DSCP-CODE )
066000         / NUMBER-OF-EXPS ( EXP-CODE , RS-CODE ,
066100         DSCP-CODE ) ) )
066200         / ( NUMBER-OF-EXPS ( EXP-CODE, RS-CODE, DSCP-CODE )
066300         - 1 ) )
066400         COMPUTE DATA-STDDEV ( STDDEV-INDEX ) =
066500         LONG-TEMP ** 0.5
066600     ELSE MOVE ZEROES TO DATA-STDDEV ( STDDEV-INDEX )
066700         MOVE FINE ( EXP-CODE, RS-CODE, DSCP-CODE )
066800             TO DATA-AVG ( AVG-INDEX ).
                                ^
WARNING 179  LEFT TRUNCATION MAY OCCUR.  SEE 064100
066900 8888-WRITE-EDIT-HEADER.
067000     PERFORM 9000-WRITE-FIRST-HEADER-LINE.
067100     MOVE PAGE-CNT TO PAGE-NUM.
067200     WRITE PRTOUT-REC FROM EDIT-HEADER-LINE
067300         AFTER ADVANCING 1.
067400     ADD 1 TO LINE-CNT.
067500 9000-WRITE-FIRST-HEADER-LINE.
067600     MOVE CONTROL-1 TO CNTL-L.
067700     MOVE PRINT-LINE-PARTS TO PRINT-LINE.
067800     PERFORM 9999-WRITE-PRINT-LINE.
067900     ADD 1 TO PAGE-CNT.
068000     MOVE ZEROES TO LINE-CNT.
068100     MOVE PAGE-CNT TO PAGE-NUM.
068200     MOVE HEADER-LINE-1 TO PRINT-LINE.
068300     PERFORM 9999-WRITE-PRINT-LINE.
068400 9999-WRITE-PRINT-LINE.
068500     WRITE PRTOUT-REC FROM PRINT-LINE
068600         AFTER ADVANCING 1.

DATA AREA IS %040665 WORDS.
CPU TIME = 0:00:31.  WALL TIME = 0:24:28.
COBOL/3000 COMPILATION.  NO ERRORS. 003 WARNINGS.  SEE 066800

OF COMPILE
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 RGE DOLL2SV
 BOLPREP DOLL2S\A,DOLL2SV

 E 0001   HP32213C.02.08  (C) HEWLETT-PACKARD CO. 1980

       001100 IDENTIFICATION DIVISION.
       001200 PROGRAM-ID. DOLL2.
       001300 AUTHOR. JIM BACKUS.
       001400 ENVIRONMENT DIVISION.
       001500 CONFIGURATION SECTION.
       001600 SOURCE-COMPUTER. HP-3000.
       001700 OBJECT-COMPUTER. HP-3000.
       001800 INPUT-OUTPUT SECTION.
       001900 FILE-CONTROL.
       002000 SELECT EXPIN ASSIGN TO "HCCLIST".
       002100 SELECT PRTOUT ASSIGN TO "PRINTER".
       002200 DATA DIVISION.
       002300 FILE SECTION.
       002400 FD  EXPIN
       002500     LABEL RECORDS ARE STANDARD
       002600     RECORD CONTAINS 60 CHARACTERS.
       002700 01  EXPIN-REC    PIC X(60).
       002800 FD  PRTOUT
       002900     LABEL RECORDS ARE OMITTED
       003000     RECORD CONTAINS 132 CHARACTERS.
       003100 01  PRTOUT-REC    PIC X(132).
       003200 WORKING-STORAGE SECTION.
       003300 01  PROBATIONER-REC.
       003400     05  FILE-NUM      PIC X(6).
       003500     05  EXP-NUM       PIC 99.
       003600     05  RISK-LEVEL    PIC X(2).
       003700*RISK = "LO"  "MO"  "HI"
       003800     05  SUPER-LEVEL   PIC X(2).
       003900*SUPERVISION = "MA" "MI" "UN"
       004000     05  COST-OF-PROB  PIC 9(5)V99.
       004100*INTAKE=$62.05
       004200*$/MILE=$0.185
       004300*$/MINUTE=$0.3171
       004400     05  COSTS         PIC 9(5)V99.
       004500     05  FINES         PIC 9(5)V99.
       004600     05  RESTITUTION   PIC 9(5)V99.
       004700*COSTS, FINES, AND RESTITUTION PAID BY PROBATIONER
       004800     05  POINTS        PIC 9(4).
       004900     05  PROB-STATUS   PIC XX.
       005000*ACTIVE                >   "AC"
       005100*SUCCESSFUL            >   "SC"
       005200***SUCCESSFUL          >   "SC"
       005300***TERMINATED EARLY >   "TE"
       005400*UNSUCCESSFUL          >   "RE"
       005500***CONTINUED           >   "CO"
       005600***PV RECORDED         >   "PV"
       005700***REVOKED             >   "RE"
       005800***TERMINATED UNSC. >   "TU"
       005900     05  START-DATE    PIC 9(6).
       006000     05  END-DATE      PIC 9(6).
       006100     05  EXCL-CODE   PIC XX.
       006200*BOTH DATES ARE IN YYMMDD FORMAT
       006300 01  DOLLAR-RPT-DATA.
       006400     05  EXP-GRP OCCURS 3 TIMES
       006500             INDEXED BY EXP-CODE.
       006600*EXP-CODE=1 >> FIRST TIME
       006700*         =2 >> SUBSEQUENT TIME
       006800*         =3 >> ANY TIME
       006900         10  RS-GRP OCCURS 12 TIMES
       007000                 INDEXED BY RS-CODE.
       007100*RS-CODE =1 >> LOW RISK UNSUPERVISED
       007200*         =2 >> MOD RISK UNSUPERVISED
       007300*         =3 >> MOD RISK MIN SUPERVISION
       007400*         =4 >> MOD RISK MAX SUPERVISION
       007500*         =5 >> HI  RISK MIN SUPERVISION
       007600*         =6 >> HI  RISK MAX SUPERVISION
       007700*         =7 >> MOD RISK ANY SUPERVISION
       007800*         =8 >> HI  RISK ANY SUPERVISION
       007900*         =9 >> ANY RISK UNSUPERVISED
       008000*         =10>> ANY RISK MIN SUPERVISION
       008100*         =11>> ANY RISK MAX SUPERVISION
       008200*         =12>> ANY RISK ANY SUPERVISION
       008300             15  DSCP-GRP OCCURS 13 TIMES
       008400                     INDEXED BY DSCP-CODE.
       008500*DSCP-CODE = 1  >> 0 POINTS
       008600*           = 2  >> 100 POINTS
       008700*           = 3  >> 200 POINTS
       008800*           = 4  >> 300 POINTS
       008900*           = 5  >> 400 POINTS
       009000*           = 6  >> 500 POINTS
       009100*           = 7  >> 600 POINTS
       009200*           = 8  >> 700 POINTS
       009300*           = 9  >> 800 POINTS
       009400*           =10  >> 900 POINTS
       009500*           =11  >>1000 POINTS
       009600*           =12  >> MORE THAN 1000 POINTS
       009700*           =13  >> ANY POINT LEVEL
       009800                   20  NUMBER-OF-EXPS  PIC 9(5).
       009900                   20  RESTI  PIC 9(7)V99.
       010000                   20  RESTI-SQ  PIC 9(10)V9.
       010100*(COURT) COSTS CHARGED TO PROBATIONER:
       010200                   20  CCOSTS PIC 9(7)V99.
       010300                   20  CCOSTS-SQ PIC 9(10)V9.
       010400*(PROBATION) COSTS INCURRED FOR SUPERVISION:
       010500                   20  PCOST  PIC 9(7)V99.
       010600                   20  PCOST-SQ PIC 9(10)V9.
       010700 01  MISCELLANEOUS-STUFF.
       010800     05  EXPIN-EOF-SW  PIC X VALUE "N".
       010900     05  PRINT-STATUS-END-ERROR-SW PIC X.
       011000     05  LAST-INVALID-RS-FILE-NUM  PIC X(6).
       011100     05  LAST-INVALID-RS-EXP-NUM   PIC 99.
       011200     05  GOOD-DATE-SW  PIC X VALUE "N".
       011300     05  VALID-RS-SW   PIC X.
       011400     05  LINE-CNT     PIC 99     VALUE 60.
       011500     05  PAGE-CNT      PIC 99 VALUE ZERO.
       011600     05  TEMP          PIC 9(7)V99.
       011700     05  TEMP-SQ       PIC 9(6)V9.
       011800     05  GROSS-TEMP    PIC 9(7)V99.
       011900     05  EXCESS-TEMP   PIC 9(7)V99.
       012000     05  TEMP-DSCP     PIC 9(5).
       012100     05  RECORDS-READ  PIC 9(6)   VALUE ZEROES.
       012200     05  CORRECT-DATE-RANGE-CNT  PIC 9(6)  VALUE ZEROES.
       012300     05  FILE-NUM-CNT  PIC 9(6)  VALUE ZEROES.
       012400     05  INCLUDE-CNT   PIC 9(6)  VALUE ZEROES.
       012500     05  EXCLUDE-CNT   PIC 9(6)  VALUE ZEROES.
       012600     05  DUPLICATE-CNT PIC 9(6)  VALUE ZEROES.
       012700     05  TOO-LATE-CNT  PIC 9(6)  VALUE ZEROES.
       012800     05  TOO-EARLY-CNT PIC 9(6)  VALUE ZEROES.
       012900     05  INVALID-RS-CNT PIC 9(6) VALUE ZEROES.
       013000     05  INVALID-STATUS-CNT PIC 9(6) VALUE ZEROES.
       013100     05  INVALID-COST-CNT PIC 9(6) VALUE ZEROES.
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013200      05  INVALID-EXP-CNT PIC 9(6) VALUE ZEROES.
013300      05  LAST-FILE-NUM PIC X(6)   VALUE SPACES.
013400      05  TEMP-PTS    PIC 9(4).
013500      05  LONG-TEMP   PIC 9(18).
013600 01   FORM-FEED    PIC S9(4)     COMP VALUE 12.
013700 01   CONTROL-L    REDEFINES FORM-FEED PIC XX.
013800 01   PRINT-LINE-PARTS.
013900      05  CNTL-L   PIC XX.
014000      05  FILLER   PIC X(130)     VALUE SPACES.
014100 01   PRINT-LINE        PIC X(132).
014200 01   HEADER-LINE-1.
014300      05  FILLER        PIC X
014400          VALUE SPACES.
014500      05  FILLER        PIC X(32)
014600          VALUE "ARTHUR YOUNG & COMPANY DATA ANAL".
014700      05  FILLER        PIC X(32)
014800          VALUE "YSIS ORGANIZATION REPORTS - DATA".
014900      05  FILLER        PIC X(6)
015000          VALUE " FROM ".
015100      05  STUDY-START-DATE PIC 9(6).
015200      05  FILLER        PIC X(4)
015300          VALUE " TO ".
015400      05  REPORT-DATE   PIC 9(6).
015500      05  FILLER      PIC X(37)
015600          VALUE SPACES.
015700      05  FILLER        PIC X(5)
015800          VALUE "PAGE ".
015900      05  PAGE-NUM      PIC Z9.
016000      05  FILLER        PIC X
016100          VALUE SPACES.
016200 01   EDIT-HEADER-LINE.
016300      05  FILLER        PIC X
016400          VALUE SPACES.
016500      05  FILLER        PIC X(24)
016600          VALUE "EDIT PROBATIONER RECORDS".
016700      05  FILLER      PIC X(107)  VALUE SPACES.
016800 01   INVALID-EXP-NUM-LINE.
016900      05  FILLER        PIC X VALUE SPACES.
017000      05  FILLER        PIC X(26)
017100          VALUE "INVALID EXPERIENCE NUMBER ".
017200      05  FILLER        PIC X(7) VALUE SPACES.
017300      05  FILLER        PIC X(32)
017400          VALUE " PROBATIONER FILE AND EXP EQUAL ".
017500      05  INVALID-EXP-NUM-FILE-NUM-OUT PIC X(6).
017600      05  INVALID-EXP-NUM-EXP-NUM-OUT PIC 99.
017700      05  FILLER      PIC X(58)   VALUE SPACES.
017800 01   INVALID-RS-LINE.
017900      05  FILLER PIC X VALUE SPACES.
018000      05  FILLER PIC X(29)
018100          VALUE "INVALID RISK AND SUPERVISION ".
018200      05  INVALID-RISK-OUT PIC XX.
018300      05  INVALID-SUPER-OUT PIC XX.
018400      05  FILLER PIC X(32)
018500          VALUE " PROBATIONER FILE AND EXP EQUAL ".
018600      05  INVALID-RS-FILE-NUM-OUT PIC X(6).
018700      05  INVALID-RS-EXP-NUM-OUT PIC 99.
018800      05  FILLER      PIC X(58)   VALUE SPACES.
018900 01   INVALID-STATUS-LINE.
019000      05  FILLER      PIC X       VALUE SPACES.
019100      05  FILLER      PIC X(24)
019200          VALUE "INVALID STATUS & END    ".
019300      05  INVALID-STATUS-OUT PIC XX.
019400      05  FILLER      PIC X       VALUE SPACES.
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019500      05  INVALID-END-DATE-OUT    PIC 9(6).
019600      05  FILLER      PIC X(32)
019700          VALUE " PROBATIONER FILE AND EXP EQUAL ".
019800      05  INVALID-STATUS-FILE-NUM-OUT  PIC X(6).
019900      05  INVALID-STATUS-EXP-NUM-OUT   PIC 99.
020000      05  FILLER      PIC X(58)   VALUE SPACES.
020100 01   INVALID-COST-OF-PROB-LINE.
020200      05  FILLER      PIC X(27)
020300          VALUE " INVALID COST OF PROBATION ".
020400      05  INVALID-COST-OF-PROB-OUT PIC 9(5)V99.
020500      05  FILLER      PIC X(32)
020600          VALUE " PROBATIONER FILE AND EXP EQUAL ".
020700      05  INVALID-COST-OF-PROB-FILE-OUT PIC X(6).
020800      05  INVALID-COST-OF-PROB-EXP-OUT  PIC XX.
020900      05  FILLER      PIC X(58)   VALUE SPACES.
021000 01   DOLLAR-RPT-HEADER-LINE-2.
021100      05  FILLER      PIC X(55)   VALUE SPACES.
021200      05  EXPERIENCE-DESCRIPTION PIC X(22).
021300      05  FILLER      PIC X(55)   VALUE SPACES.
021400 01   DOLLAR-RPT-HEADER-LINE-3.
021500      05  FILLER      PIC X(52)   VALUE SPACES.
021600      05  DATA-DESCRIPTION        PIC X(29).
021700      05  FILLER      PIC X(51)   VALUE SPACES.
021800 01   DOLLAR-RPT-RISK-TITLE-LINE.
021900      05  FILLER      PIC X(6)    VALUE SPACES.
022000      05  FILLER      PIC X(13)   VALUE "RISK:        ".
022100      05  FILLER      PIC X(9)    VALUE "      LOW".
022200      05  FILLER      PIC X(9)    VALUE " MODERATE".
022300      05  FILLER      PIC X(9)    VALUE " MODERATE".
022400      05  FILLER      PIC X(9)    VALUE " MODERATE".
022500      05  FILLER      PIC X(9)    VALUE "     HIGH".
022600      05  FILLER      PIC X(9)    VALUE "     HIGH".
022700      05  FILLER      PIC X(9)    VALUE " MODERATE".
022800      05  FILLER      PIC X(9)    VALUE "     HIGH".
022900      05  FILLER      PIC X(9)    VALUE "      ANY".
023000      05  FILLER      PIC X(9)    VALUE "      ANY".
023100      05  FILLER      PIC X(9)    VALUE "      ANY".
023200      05  FILLER      PIC X(9)    VALUE "      ANY".
023300      05  FILLER      PIC X(5)    VALUE SPACES.
023400 01   DOLLAR-RPT-SUPER-TITLE-LINE.
023500      05  FILLER      PIC X       VALUE SPACES.
023600      05  FILLER      PIC X(5)    VALUE "DSCP ".
023700      05  FILLER      PIC X(13)   VALUE "SUPERVISION: ".
023800      05  FILLER      PIC X(9)    VALUE " UNSUPER.".
023900      05  FILLER      PIC X(9)    VALUE " UNSUPER.".
024000      05  FILLER      PIC X(9)    VALUE "  MINIMUM".
024100      05  FILLER      PIC X(9)    VALUE "  MAXIMUM".
024200      05  FILLER      PIC X(9)    VALUE "  MINIMUM".
024300      05  FILLER      PIC X(9)    VALUE "  MAXIMUM".
024400      05  FILLER      PIC X(9)    VALUE "      ANY".
024500      05  FILLER      PIC X(9)    VALUE "      ANY".
024600      05  FILLER      PIC X(9)    VALUE " UNSUPER.".
024700      05  FILLER      PIC X(9)    VALUE "  MINIMUM".
024800      05  FILLER      PIC X(9)    VALUE "  MAXIMUM".
024900      05  FILLER      PIC X(9)    VALUE "      ANY".
025000      05  FILLER      PIC X(5)    VALUE SPACES.
025100 01   DOLLAR-RPT-DATA-LINE-AVG.
025200      05  FILLER      PIC X       VALUE SPACES.
025300      05  NUM-PTS     PIC ZZZ9.
025400      05  VALUE-PLUS  PIC X       VALUE SPACES.
025500      05  FILLER      PIC X(13)   VALUE SPACES.
025600      05  DATA-PORTION-AVG        OCCURS 12 TIMES
025700              INDEXED BY AVG-INDEX.
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025900      05  FILLER       PIC X(5)     VALUE SPACES.
026000 01   DOLLAR-RPT-DATA-LINE-STDDEV.
026100      05  FILLER       PIC X(5)     VALUE " +/- ".
026200      05  FILLER       PIC X(14)    VALUE SPACES.
026300      05  DATA-PORTION-STDDEV     OCCURS 12 TIMES
026400              INDEXED BY STDDEV-INDEX.
026500          10  DATA-STDDEV PIC ZZZZZ9.99.
026600      05  FILLER       PIC X(5)     VALUE SPACES.
026700 01   COUNT-OUT-LINE.
026800      05  FILLER PIC X VALUE SPACES.
026900      05  COUNT-DESC PIC X(21).
027000      05  FILLER PIC X VALUE SPACES.
027100      05  COUNT-OUT  PIC 9(6).
027200      05  FILLER PIC X(103) VALUE SPACES.
027300 PROCEDURE DIVISION.
027400 0000-PRODUCE-DOLLAR-STATS.
027500      PERFORM 1000-SETUP.
027600      PERFORM 2000-PROC-EACH-REC UNTIL
027700          EXPIN-EOF-SW EQUAL TO "Y".
027800      CLOSE EXPIN.
027900      PERFORM 3000-WRITE-RESULTS.
028000      CLOSE PRTOUT.
028100      STOP RUN.
028200 1000-SETUP.
028300      MOVE "N" TO EXPIN-EOF-SW.
028400      OPEN INPUT EXPIN.
028500      OPEN OUTPUT PRTOUT.
028600      MOVE "N" TO GOOD-DATE-SW.
028700      PERFORM 1100-GET-DATE-PARMS UNTIL
028800          GOOD-DATE-SW EQUAL TO "Y".
028900      MOVE ZEROES TO EXP-GRP ( 1 ).
029000      MOVE ZEROES TO EXP-GRP ( 2 ).
029100      MOVE ZEROES TO EXP-GRP ( 3 ).
029200 1100-GET-DATE-PARMS.
029300      DISPLAY SPACE.
029400      DISPLAY "ENTER STUDY START DATE YYMMDD:".
029500      ACCEPT STUDY-START-DATE.
029600      DISPLAY SPACE.
029700      DISPLAY "ENTER END OF REPORT PERIOD YYMMDD:".
029800      ACCEPT REPORT-DATE.
029900      DISPLAY SPACE.
030000      DISPLAY "SHALL I PRINT STATUS/END ERRORS (Y/N)?: ".
030100      ACCEPT PRINT-STATUS-END-ERROR-SW.
030200      DISPLAY SPACE.
030300      DISPLAY STUDY-START-DATE.
030400          " THROUGH ", REPORT-DATE.
030500          " OKAY? ".
030600      DISPLAY SPACE.
030700      DISPLAY "TYPE Y TO CONFIRM:".
030800      ACCEPT GOOD-DATE-SW.
030900 2000-PROC-EACH-REC.
031000      READ EXPIN RECORD INTO PROBATIONER-REC
031100          AT END MOVE "Y" TO EXPIN-EOF-SW.
031200      IF EXPIN-EOF-SW NOT EQUAL TO "Y"
031300        ADD 1 TO RECORDS-READ
031400        IF FILE-NUM > LAST-FILE-NUM
031500          ADD 1 TO FILE-NUM-CNT
031600          MOVE FILE-NUM TO LAST-FILE-NUM
031700          IF START-DATE NOT < STUDY-START-DATE
031800            IF END-DATE NOT > REPORT-DATE
031900              ADD 1 TO CORRECT-DATE-RANGE-CNT
032000              IF EXCL-CODE = SPACES
032200                IF COST-OF-PROB > 62.04
032300                  IF PROB-STATUS = "SC"
032400                  OR PROB-STATUS= "TE"
032500                  OR PROB-STATUS= "CO"
032600                  OR PROB-STATUS= "PV"
032700                  OR PROB-STATUS= "TU"
032800                  OR PROB-STATUS = "RE"
032900                    PERFORM 2100-UPDATE-DOLLAR-RPT-DATA
033000                  ELSE PERFORM 2200-WRITE-INVALID-STATUS
033100                ELSE PERFORM 2400-WRITE-INVALID-COST-PROB
033200              ELSE ADD 1 TO EXCLUDE-CNT
033300            ELSE ADD 1 TO TOO-LATE-CNT
033400          ELSE ADD 1 TO TOO-EARLY-CNT
033500        ELSE ADD 1 TO DUPLICATE-CNT.
033600 2100-UPDATE-DOLLAR-RPT-DATA.
033700      IF EXP-NUM = 1
033800          SET EXP-CODE TO 1
033900          PERFORM 2110-UPDATE-SPECD-EXP
034000          SET EXP-CODE TO 3
034100          PERFORM 2110-UPDATE-SPECD-EXP
034200      ELSE IF EXP-NUM > 1
034300          SET EXP-CODE TO 2
034400          PERFORM 2110-UPDATE-SPECD-EXP
034500          SET EXP-CODE TO 3
034600          PERFORM 2110-UPDATE-SPECD-EXP
034700      ELSE PERFORM 2140-WRITE-INVALID-EXP-NUM.
034800 2110-UPDATE-SPECD-EXP.
034900      MOVE "Y" TO VALID-RS-SW.
035000      IF RISK-LEVEL = "LO"
035100          IF SUPER-LEVEL = "UN"
035200              SET RS-CODE TO 1
035300              PERFORM 2111-UPDATE-SPECD-RS
035400              SET RS-CODE TO 9
035500              PERFORM 2111-UPDATE-SPECD-RS
035600          ELSE PERFORM 2112-WRITE-INVALID-RS
035700      ELSE IF RISK-LEVEL = "MO"
035800          IF SUPER-LEVEL = "UN"
035900              SET RS-CODE TO 2
036000              PERFORM 2111-UPDATE-SPECD-RS
036100              SET RS-CODE TO 7
036200              PERFORM 2111-UPDATE-SPECD-RS
036300              SET RS-CODE TO 9
036400              PERFORM 2111-UPDATE-SPECD-RS
036500          ELSE IF SUPER-LEVEL = "MI"
036600              SET RS-CODE TO 3
036700              PERFORM 2111-UPDATE-SPECD-RS
036800              SET RS-CODE TO 7
036900              PERFORM 2111-UPDATE-SPECD-RS
037000              SET RS-CODE TO 10
037100              PERFORM 2111-UPDATE-SPECD-RS
037200          ELSE IF SUPER-LEVEL = "MA"
037300              SET RS-CODE TO 4
037400              PERFORM 2111-UPDATE-SPECD-RS
037500              SET RS-CODE TO 7
037600              PERFORM 2111-UPDATE-SPECD-RS
037700              SET RS-CODE TO 11
037800              PERFORM 2111-UPDATE-SPECD-RS
037900          ELSE PERFORM 2112-WRITE-INVALID-RS
038000      ELSE IF RISK-LEVEL = "HI"
038100          IF SUPER-LEVEL = "MI"
038200              SET RS-CODE TO 5
038300              PERFORM 2111-UPDATE-SPECD-RS
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038400                SET RS-CODE TO 8
038500                PERFORM 2111-UPDATE-SPECD-RS
038600                SET RS-CODE TO 10
038700                PERFORM 2111-UPDATE-SPECD-RS
038800            ELSE IF SUPER-LEVEL = "MA"
038900                SET RS-CODE TO 6
039000                PERFORM 2111-UPDATE-SPECD-RS
039100                SET RS-CODE TO 8
039200                PERFORM 2111-UPDATE-SPECD-RS
039300                SET RS-CODE TO 11
039400                PERFORM 2111-UPDATE-SPECD-RS
039500            ELSE PERFORM 2112-WRITE-INVALID-RS
039600        ELSE PERFORM 2112-WRITE-INVALID-RS.
039700        IF VALID-RS-SW = "Y"
039800            SET RS-CODE TO 12
039900            PERFORM 2111-UPDATE-SPECD-RS.
040000 2111-UPDATE-SPECD-RS.
040100        DIVIDE POINTS BY 100 GIVING TEMP-DSCP.
040200        ADD 1 TO TEMP-DSCP.
040300        IF TEMP-DSCP > 12
040400            MOVE 12 TO TEMP-DSCP.
040500        SET DSCP-CODE TO TEMP-DSCP.
040600        PERFORM 2120-UPDATE-SPECD-DSCP.
040700        SET DSCP-CODE TO 13.
040800        PERFORM 2120-UPDATE-SPECD-DSCP.
040900 2112-WRITE-INVALID-RS.
041000        MOVE "N" TO VALID-RS-SW.
041100        IF FILE-NUM = LAST-INVALID-RS-FILE-NUM
041200            IF EXP-NUM  = LAST-INVALID-RS-EXP-NUM
041300                NEXT SENTENCE
041400            ELSE PERFORM 2113-WRITE-INVALID-RS-2
041500        ELSE PERFORM 2113-WRITE-INVALID-RS-2.
041600 2113-WRITE-INVALID-RS-2.
041700        ADD 1 TO INVALID-RS-CNT.
041800        MOVE FILE-NUM TO INVALID-RS-FILE-NUM-OUT.
041900        MOVE EXP-NUM  TO INVALID-RS-EXP-NUM-OUT.
042000        MOVE RISK-LEVEL TO INVALID-RISK-OUT.
042100        MOVE SUPER-LEVEL TO INVALID-SUPER-OUT.
042200        ADD 1 TO LINE-CNT.
042300        IF LINE-CNT > 55
042400            PERFORM 8888-WRITE-EDIT-HEADER.
042500        MOVE INVALID-RS-LINE TO PRINT-LINE.
042600        PERFORM 9999-WRITE-PRINT-LINE.
042700        MOVE FILE-NUM TO LAST-INVALID-RS-FILE-NUM.
042800        MOVE EXP-NUM  TO LAST-INVALID-RS-EXP-NUM.
042900 2120-UPDATE-SPECD-DSCP.
043000        ADD 1 TO NUMBER-OF-EXPS ( EXP-CODE, RS-CODE, DSCP-CODE ).
043100        ADD RESTITUTION TO RESTI ( EXP-CODE, RS-CODE, DSCP-CODE ).
043200        MULTIPLY RESTITUTION BY RESTITUTION
043300            GIVING TEMP-SQ.
043400        ADD TEMP-SQ TO RESTI-SQ ( EXP-CODE, RS-CODE, DSCP-CODE ).
043500        ADD COSTS TO CCOSTS ( EXP-CODE, RS-CODE, DSCP-CODE ).
043600        MULTIPLY COSTS BY COSTS
043700            GIVING TEMP-SQ.
043800        ADD TEMP-SQ TO CCOSTS-SQ ( EXP-CODE, RS-CODE, DSCP-CODE ).
043900        ADD COST-OF-PROB TO PCOST ( EXP-CODE, RS-CODE, DSCP-CODE ).
044000        MULTIPLY COST-OF-PROB BY COST-OF-PROB
044100            GIVING TEMP-SQ.
044200        ADD TEMP-SQ TO PCOST-SQ ( EXP-CODE, RS-CODE, DSCP-CODE ).
044300 2140-WRITE-INVALID-EXP-NUM.
044400        ADD 1 TO INVALID-EXP-CNT.
044500        MOVE FILE-NUM TO
044600            INVALID-EXP-NUM-FILE-NUM-OUT.
044700        MOVE EXP-NUM TO
044800            INVALID-EXP-NUM-EXP-NUM-OUT.
044900        ADD 1 TO LINE-CNT.
045000        IF LINE-CNT > 55
045100            PERFORM 8888-WRITE-EDIT-HEADER.
045200        MOVE INVALID-EXP-NUM-LINE TO PRINT-LINE.
045300        PERFORM 9999-WRITE-PRINT-LINE.
045400 2200-WRITE-INVALID-STATUS.
045500        ADD 1 TO INVALID-STATUS-CNT.
045600        MOVE FILE-NUM TO INVALID-STATUS-FILE-NUM-OUT.
045700        MOVE EXP-NUM  TO INVALID-STATUS-EXP-NUM-OUT.
045800        MOVE PROB-STATUS TO INVALID-STATUS-OUT.
045900        MOVE END-DATE TO INVALID-END-DATE-OUT.
046000        IF PRINT-STATUS-END-ERROR-SW = "Y"
046100            ADD 1 TO LINE-CNT
046200            IF LINE-CNT > 55
046300                PERFORM 8888-WRITE-EDIT-HEADER.
046400        IF PRINT-STATUS-END-ERROR-SW = "Y"
046500            MOVE INVALID-STATUS-LINE TO PRINT-LINE
046600            PERFORM 9999-WRITE-PRINT-LINE.
046700 2400-WRITE-INVALID-COST-PROB.
046800        ADD 1 TO INVALID-COST-CNT.
046900        MOVE FILE-NUM TO INVALID-COST-OF-PROB-FILE-OUT.
047000        MOVE EXP-NUM  TO INVALID-COST-OF-PROB-EXP-OUT.
047100        MOVE COST-OF-PROB TO INVALID-COST-OF-PROB-OUT.
047200        ADD 1 TO LINE-CNT.
047300        IF LINE-CNT > 55
047400            PERFORM 8888-WRITE-EDIT-HEADER.
047500        MOVE INVALID-COST-OF-PROB-LINE TO PRINT-LINE.
047600        PERFORM 9999-WRITE-PRINT-LINE.
047700 3000-WRITE-RESULTS.
047800        SET EXP-CODE TO 1.
047900        MOVE "FIRST EXPERIENCES" TO EXPERIENCE-DESCRIPTION.
048000        PERFORM 3100-PRINT-7-PAGES.
048100        MOVE "SUBSEQUENT EXPERIENCES" TO EXPERIENCE-DESCRIPTION.
048200        SET EXP-CODE TO 2.
048300        PERFORM 3100-PRINT-7-PAGES.
048400        SET EXP-CODE TO 3.
048500        MOVE "ALL EXPERIENCES" TO EXPERIENCE-DESCRIPTION.
048600        PERFORM 3100-PRINT-7-PAGES.
048700        PERFORM 9000-WRITE-FIRST-HEADER-LINE.
048800        MOVE "RECORDS READ" TO COUNT-DESC.
048900        MOVE RECORDS-READ TO COUNT-OUT.
049000        PERFORM 3010-WRITE-COUNT.
049100        MOVE "VALID DATE RANGES" TO COUNT-DESC.
049200        MOVE CORRECT-DATE-RANGE-CNT TO COUNT-OUT.
049300        PERFORM 3010-WRITE-COUNT.
049400        MOVE "DISTINCT FILE NUMBERS" TO COUNT-DESC.
049500        MOVE FILE-NUM-CNT TO COUNT-OUT.
049600        PERFORM 3010-WRITE-COUNT.
049700        MOVE "INCLUDED RECORDS" TO COUNT-DESC.
049800        MOVE INCLUDE-CNT TO COUNT-OUT.
049900        PERFORM 3010-WRITE-COUNT.
050000        MOVE "EXCLUDED RECORDS" TO COUNT-DESC.
050100        MOVE EXCLUDE-CNT TO COUNT-OUT.
050200        PERFORM 3010-WRITE-COUNT.
050300        MOVE "MULTIPLE EXPERIENCES" TO COUNT-DESC.
050400        MOVE DUPLICATE-CNT TO COUNT-OUT.
050500        PERFORM 3010-WRITE-COUNT.
050600        MOVE "TOO LATE END DATE" TO COUNT-DESC.
050700        MOVE TOO-LATE-CNT TO COUNT-OUT.
050800        PERFORM 3010-WRITE-COUNT.
050900        MOVE "TOO EARLY START DATE" TO COUNT-DESC.
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051000      MOVE TOO-EARLY-CNT TO COUNT-OUT.
051100      PERFORM 3010-WRITE-COUNT.
051200      MOVE "INVALID RISK & SUPER" TO COUNT-DESC.
051300      MOVE INVALID-RS-CNT TO COUNT-OUT.
051400      PERFORM 3010-WRITE-COUNT.
051500      MOVE "INVALID STATUS" TO COUNT-DESC.
051600      MOVE INVALID-STATUS-CNT TO COUNT-OUT.
051700      PERFORM 3010-WRITE-COUNT.
051800      MOVE "INVALID COST" TO COUNT-DESC.
051900      MOVE INVALID-COST-CNT TO COUNT-OUT.
052000      PERFORM 3010-WRITE-COUNT.
052100      MOVE "INVALID TIMES ON PROB" TO COUNT-DESC.
052200      MOVE INVALID-EXP-CNT TO COUNT-OUT.
052300      PERFORM 3010-WRITE-COUNT.
052400 3010-WRITE-COUNT.
052500      MOVE COUNT-OUT-LINE TO PRINT-LINE.
052600      PERFORM 9999-WRITE-PRINT-LINE.
052700 3100-PRINT-7-PAGES.
052800      MOVE "NUMBERS OF EXPERIENCES" TO DATA-DESCRIPTION.
052900      PERFORM 3110-WRITE-DOLLAR-RPT-HEADER.
053000      PERFORM 3120-WRITE-NUM-EXPS-DATA-LINE VARYING TEMP-DSCP
053100          FROM 1 BY 1 UNTIL TEMP-DSCP = 14.
053200      MOVE "AVERAGE RESTITUTION RECEIVED" TO DATA-DESCRIPTION.
053300      PERFORM 3110-WRITE-DOLLAR-RPT-HEADER.
053400      PERFORM 3160-WRITE-RESTI-DATA-LINES VARYING TEMP-DSCP
053500          FROM 1 BY 1 UNTIL TEMP-DSCP = 14.
053600      MOVE "AVERAGE COSTS COLLECTED" TO DATA-DESCRIPTION.
053700      PERFORM 3110-WRITE-DOLLAR-RPT-HEADER.
053800      PERFORM 3170-WRITE-COSTS-DATA-LINES VARYING TEMP-DSCP
053900          FROM 1 BY 1 UNTIL TEMP-DSCP= 14.
054000      MOVE "AVERAGE COSTS INCURRED" TO DATA-DESCRIPTION.
054100      PERFORM 3110-WRITE-DOLLAR-RPT-HEADER.
054200      PERFORM 3180-WRITE-PCOST-DATA-LINES VARYING TEMP-DSCP
054300          FROM 1 BY 1 UNTIL TEMP-DSCP = 14.
054400 3110-WRITE-DOLLAR-RPT-HEADER.
054500      PERFORM 9000-WRITE-FIRST-HEADER-LINE.
054600      MOVE DOLLAR-RPT-HEADER-LINE-2 TO PRINT-LINE.
054700      PERFORM 9999-WRITE-PRINT-LINE.
054800      MOVE DOLLAR-RPT-HEADER-LINE-3 TO PRINT-LINE.
054900      PERFORM 9999-WRITE-PRINT-LINE.
055000      MOVE SPACES TO PRINT-LINE.
055100      PERFORM 9999-WRITE-PRINT-LINE.
055200      PERFORM 9999-WRITE-PRINT-LINE.
055300      MOVE DOLLAR-RPT-RISK-TITLE-LINE TO PRINT-LINE.
055400      PERFORM 9999-WRITE-PRINT-LINE.
055500      MOVE DOLLAR-RPT-SUPER-TITLE-LINE TO PRINT-LINE.
055600      PERFORM 9999-WRITE-PRINT-LINE.
055700      MOVE SPACES TO PRINT-LINE.
055800      PERFORM 9999-WRITE-PRINT-LINE.
055900 3120-WRITE-NUM-EXPS-DATA-LINE.
056000      PERFORM 3122-SET-UP-DATA-LINE-TEXT.
056100      PERFORM 3121-MOVE-A-NUM-EXP-COLUMN
056200          VARYING RS-CODE FROM 1 BY 1
056300          UNTIL RS-CODE > 12.
056400      MOVE DOLLAR-RPT-DATA-LINE-AVG TO PRINT-LINE.
056500      PERFORM 9999-WRITE-PRINT-LINE.
056600 3122-SET-UP-DATA-LINE-TEXT.
056700      MULTIPLY TEMP-DSCP BY 100 GIVING TEMP-PTS.
056800      SUBTRACT 100 FROM TEMP-PTS.
056900      MOVE TEMP-PTS TO NUM-PTS.
057000      MOVE SPACES TO VALUE-PLUS.
057100      IF TEMP-DSCP = 12
057200          MOVE 1000 TO NUM-PTS
057300          MOVE "+"  TO VALUE-PLUS.
057400      IF TEMP-DSCP > 12
057500          MOVE ZEROES TO NUM-PTS
057600          MOVE "&" TO VALUE-PLUS.
057700 3121-MOVE-A-NUM-EXP-COLUMN.
057800      SET AVG-INDEX TO RS-CODE.
057900      SET DSCP-CODE TO TEMP-DSCP.
058000      MOVE NUMBER-OF-EXPS ( EXP-CODE, RS-CODE, DSCP-CODE )
058100          TO DATA-AVG ( AVG-INDEX ).
058200 3132-WRITE-2-DATA-LINES.
058300      PERFORM 3122-SET-UP-DATA-LINE-TEXT.
058400      MOVE DOLLAR-RPT-DATA-LINE-AVG TO PRINT-LINE.
058500      PERFORM 9999-WRITE-PRINT-LINE.
058600      MOVE DOLLAR-RPT-DATA-LINE-STDDEV TO PRINT-LINE.
058700      PERFORM 9999-WRITE-PRINT-LINE.
058800 3160-WRITE-RESTI-DATA-LINES.
058900      PERFORM 3161-MOVE-A-RESTI-COLUMN
059000          VARYING RS-CODE FROM 1 BY 1
059100          UNTIL RS-CODE > 12.
059200      PERFORM 3132-WRITE-2-DATA-LINES.
059300 3161-MOVE-A-RESTI-COLUMN.
059400      SET AVG-INDEX TO RS-CODE.
059500      SET STDDEV-INDEX TO RS-CODE.
059600      SET DSCP-CODE TO TEMP-DSCP.
059700      IF NUMBER-OF-EXPS ( EXP-CODE, RS-CODE, DSCP-CODE ) > 1
059800          DIVIDE RESTI ( EXP-CODE, RS-CODE, DSCP-CODE )
059900              BY NUMBER-OF-EXPS ( EXP-CODE, RS-CODE, DSCP-CODE )
060000              GIVING DATA-AVG ( AVG-INDEX )
060100          COMPUTE LONG-TEMP =
060200          ( ( RESTI-SQ ( EXP-CODE, RS-CODE, DSCP-CODE )
060300          - ( RESTI ( EXP-CODE , RS-CODE , DSCP-CODE )
060400          * RESTI ( EXP-CODE , RS-CODE , DSCP-CODE )
060500          / NUMBER-OF-EXPS ( EXP-CODE , RS-CODE ,
060600          DSCP-CODE ) ) )
060700          / ( NUMBER-OF-EXPS ( EXP-CODE, RS-CODE, DSCP-CODE )
060800          - 1 ) )
060900          COMPUTE DATA-STDDEV ( STDDEV-INDEX ) =
061000          LONG-TEMP ** 0.5
061100      ELSE MOVE RESTI ( EXP-CODE, RS-CODE, DSCP-CODE )
061200          TO DATA-AVG ( AVG-INDEX )
                                    ^
WARNING 179  LEFT TRUNCATION MAY OCCUR.
061300          MOVE ZEROES TO DATA-STDDEV ( STDDEV-INDEX ).
061400 3170-WRITE-COSTS-DATA-LINES.
061500      PERFORM 3171-MOVE-A-COSTS-COLUMN
061600          VARYING RS-CODE FROM 1 BY 1
061700          UNTIL RS-CODE > 12.
061800      PERFORM 3132-WRITE-2-DATA-LINES.
061900 3171-MOVE-A-COSTS-COLUMN.
062000      SET AVG-INDEX TO RS-CODE.
062100      SET STDDEV-INDEX TO RS-CODE.
062200      SET DSCP-CODE TO TEMP-DSCP.
062300      IF NUMBER-OF-EXPS ( EXP-CODE, RS-CODE, DSCP-CODE ) > 1
062400      DIVIDE CCOSTS ( EXP-CODE, RS-CODE, DSCP-CODE )
062500          BY NUMBER-OF-EXPS ( EXP-CODE, RS-CODE, DSCP-CODE )
062600          GIVING DATA-AVG ( AVG-INDEX )
062700          COMPUTE LONG-TEMP =
062800          ( ( CCOSTS-SQ ( EXP-CODE, RS-CODE, DSCP-CODE )
062900          - ( CCOSTS ( EXP-CODE , RS-CODE , DSCP-CODE )
063000          * CCOSTS ( EXP-CODE , RS-CODE , DSCP-CODE )
063100          / NUMBER-OF-EXPS ( EXP-CODE , RS-CODE ,
063200          DSCP-CODE ) ) )
063300          / ( NUMBER-OF-EXPS ( EXP-CODE, RS-CODE, DSCP-CODE )
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063400          - 1 ) )
063500          COMPUTE DATA-STDDEV ( STDDEV-INDEX ) =
063600          LONG-TEMP ** 0.5
063700      ELSE MOVE CCOSTS ( EXP-CODE, RS-CODE, DSCP-CODE )
063800          TO DATA-AVG ( AVG-INDEX )
                                        ^
. WARNING 179  LEFT TRUNCATION MAY OCCUR.  SEE 061200
063900          MOVE ZEROES TO DATA-STDDEV ( STDDEV-INDEX ).
064000 3180-WRITE-PCOST-DATA-LINES.
064100      PERFORM 3181-MOVE-A-PCOST-COLUMN
064200          VARYING RS-CODE FROM 1 BY 1
064300          UNTIL RS-CODE > 12.
064400      PERFORM 3182-WRITE-2-DATA-LINES.
064500 3181-MOVE-A-PCOST-COLUMN.
064600      SET AVG-INDEX TO RS-CODE.
064700      SET STDDEV-INDEX TO RS-CODE.
064800      SET DSCP-CODE TO TEMP-DSCP.
064900      IF NUMBER-OF-EXPS ( EXP-CODE, RS-CODE, DSCP-CODE ) > 1
065000          DIVIDE PCOST ( EXP-CODE, RS-CODE, DSCP-CODE )
065100              BY NUMBER-OF-EXPS ( EXP-CODE, RS-CODE, DSCP-CODE )
065200              GIVING DATA-AVG ( AVG-INDEX )
065300          COMPUTE LONG-TEMP =
065400          ( ( PCOST-SQ ( EXP-CODE, RS-CODE, DSCP-CODE )
065500          - ( PCOST ( EXP-CODE , RS-CODE , DSCP-CODE )
065600          * PCOST ( EXP-CODE , RS-CODE , DSCP-CODE )
065700          / NUMBER-OF-EXPS ( EXP-CODE , RS-CODE ,
065800          DSCP-CODE ) ) )
065900          / ( NUMBER-OF-EXPS ( EXP-CODE, RS-CODE, DSCP-CODE )
066000          - 1 ) )
066100          COMPUTE DATA-STDDEV ( STDDEV-INDEX ) =
066200          LONG-TEMP ** 0.5
066300      ELSE MOVE ZEROES TO DATA-STDDEV ( STDDEV-INDEX )
066400          MOVE PCOST ( EXP-CODE, RS-CODE, DSCP-CODE )
066500              TO DATA-AVG ( AVG-INDEX ).
                                        ^
. WARNING 179  LEFT TRUNCATION MAY OCCUR.  SEE 063800
066600 8888-WRITE-EDIT-HEADER.
066700      PERFORM 9000-WRITE-FIRST-HEADER-LINE.
066800      MOVE PAGE-CNT TO PAGE-NUM.
066900      WRITE PRTOUT-REC FROM EDIT-HEADER-LINE
067000          AFTER ADVANCING 1.
067100      ADD 1 TO LINE-CNT.
067200 9000-WRITE-FIRST-HEADER-LINE.
067300      MOVE CONTROL-L TO CNTL-L.
067400      MOVE PRINT-LINE-PARTS TO PRINT-LINE.
067500      PERFORM 9999-WRITE-PRINT-LINE.
067600      ADD 1 TO PAGE-CNT.
067700      MOVE ZEROES TO LINE-CNT.
067800      MOVE PAGE-CNT TO PAGE-NUM.
067900      MOVE HEADER-LINE-1 TO PRINT-LINE.
068000      PERFORM 9999-WRITE-PRINT-LINE.
068100 9999-WRITE-PRINT-LINE.
068200      WRITE PRTOUT-REC FROM PRINT-LINE
068300          AFTER ADVANCING 1.

 DATA AREA IS %040665 WORDS.
 CPU TIME = 0:00:30.  WALL TIME = 0:24:40.
) COBOL/3000 COMPILATION.  NO ERRORS, 003 WARNINGS.  SEE 066500

) OF COMPILE

) OF PREPARE
 VE DOLL2SV
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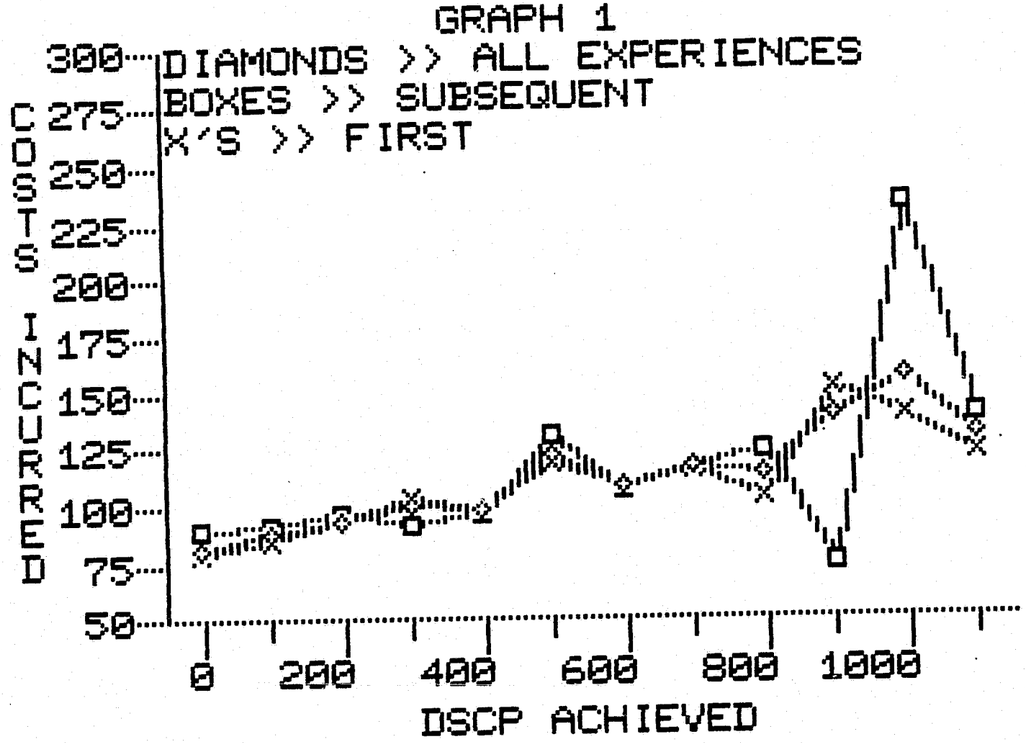
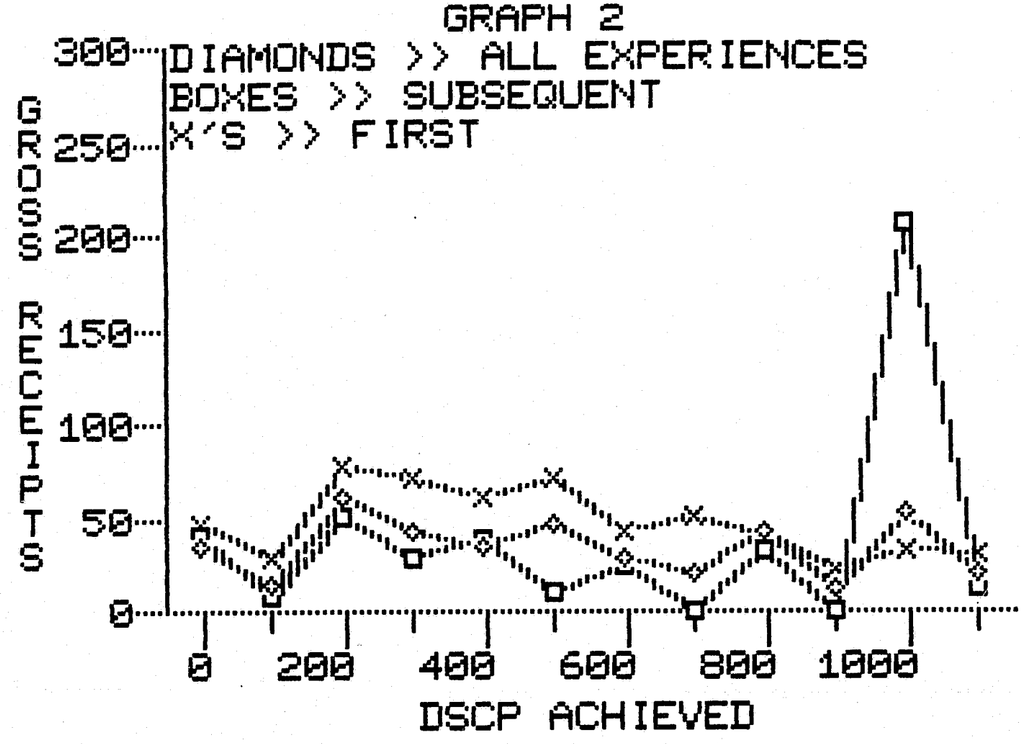
Appendix C

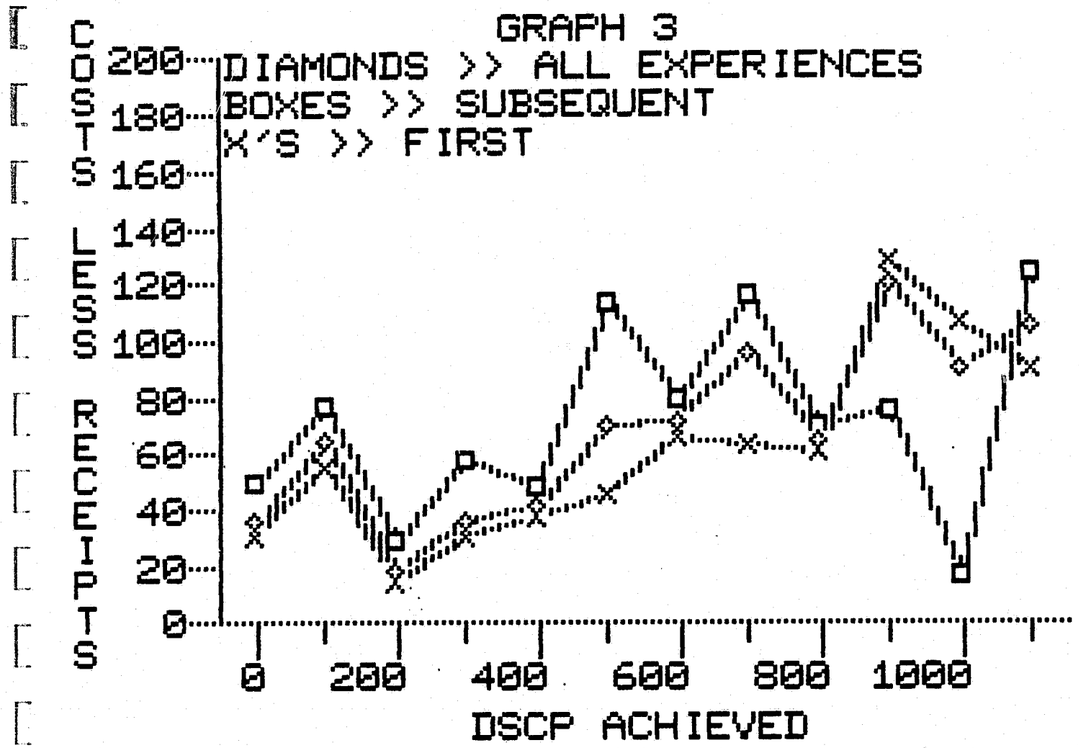
Graphs

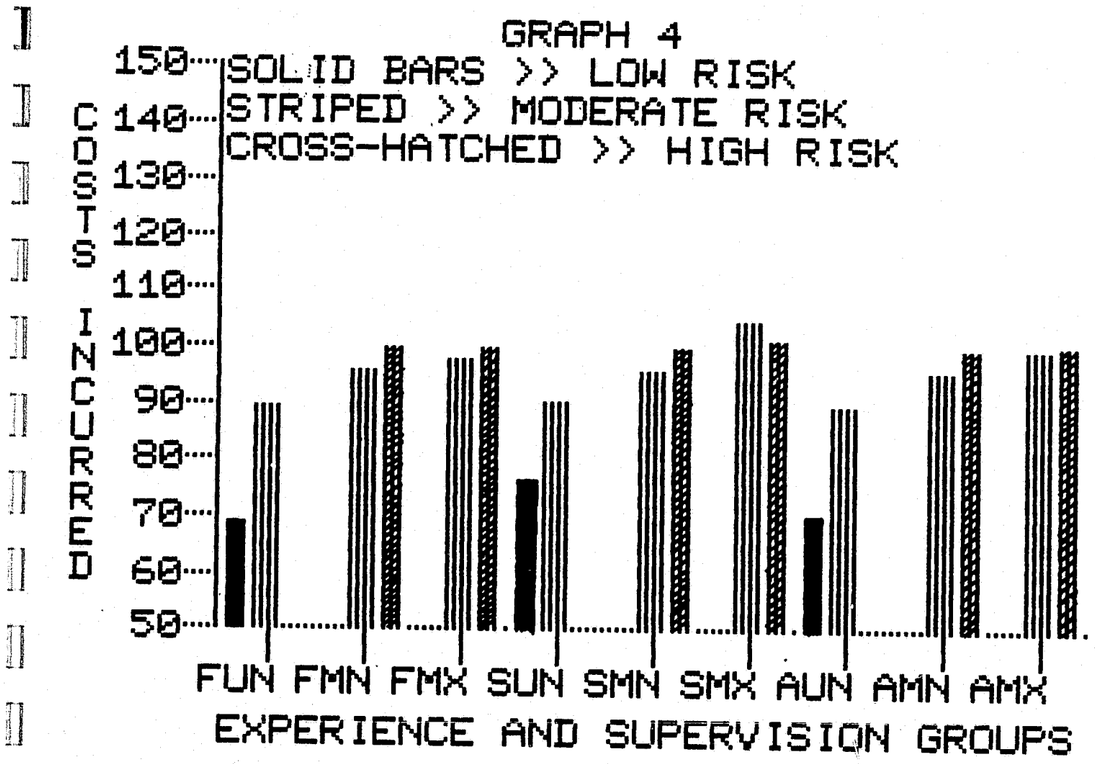
GRAPH 1



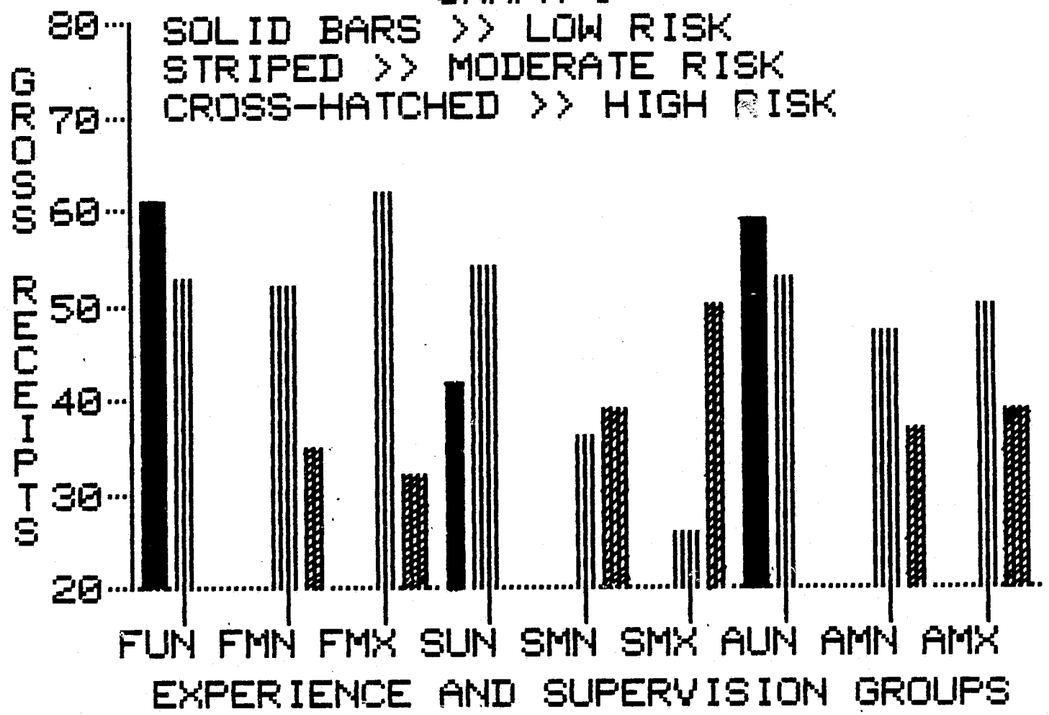
GRAPH 2



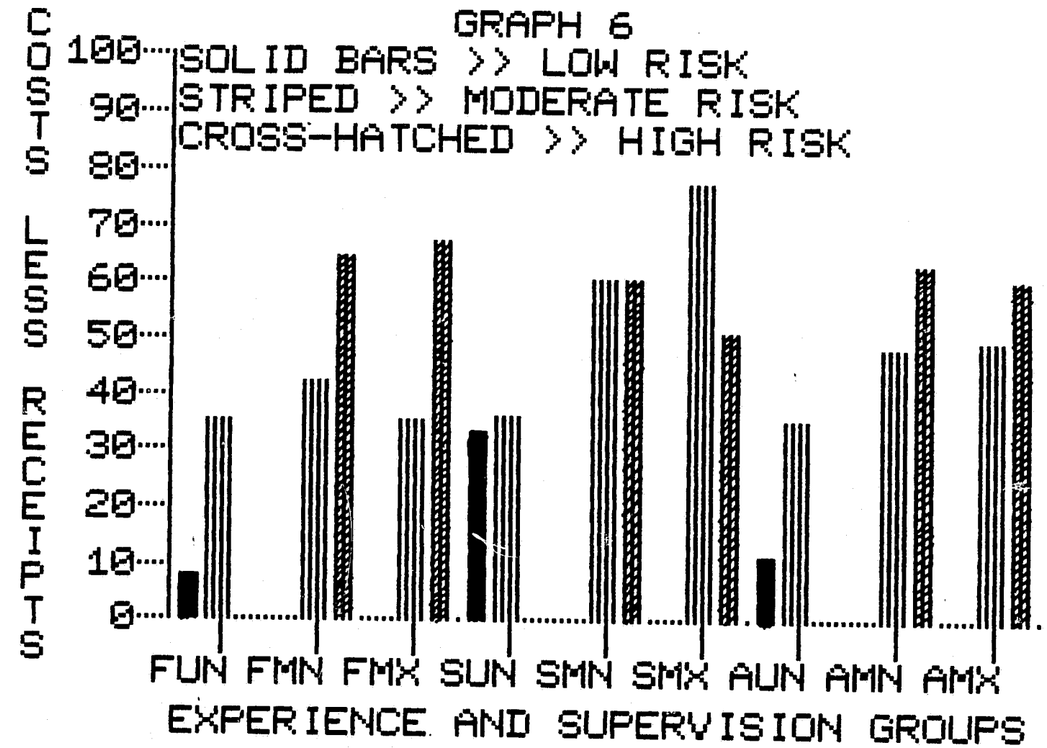

GRAPH 3
DIAMONDS >> ALL EXPERIENCES
BOXES >> SUBSEQUENT
X'S >> FIRST
COSTS LESS RECEIPTS
200
180
160
140
120
100
80
60
40
20
0
0
200
400
600
800
1000
DSCP ACHIEVED


GRAPH 4
SOLID BARS >> LOW RISK
STRIPED >> MODERATE RISK
CROSS-HATCHED >> HIGH RISK
COSTS INCURRED
150
140
130
120
110
100
90
80
70
60
50
FUN FMN FMX SUN SMN SMX AUN AMN AMX
EXPERIENCE AND SUPERVISION GROUPS

GRAPH 5



GRAPH 6



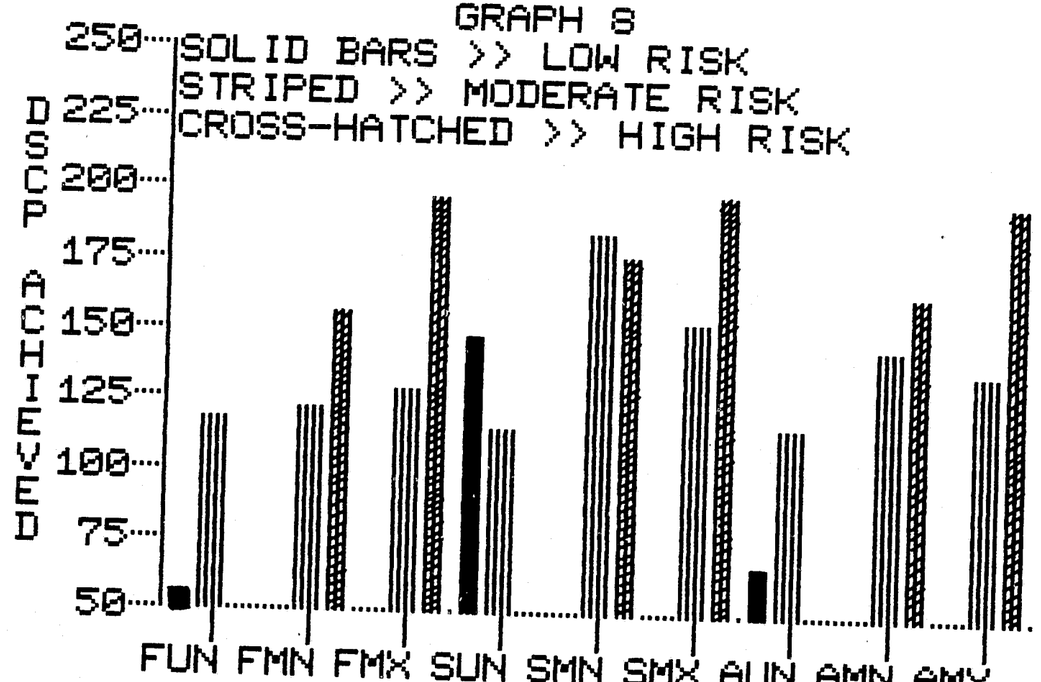
GRAPH 7

SOLID BARS >> UNSUPERVISED
STRIPED >> MINIMUM SUPERVISION
CROSS-HATCHED >> MAXIMUM

EXPERIENCE AND RISK GROUPS

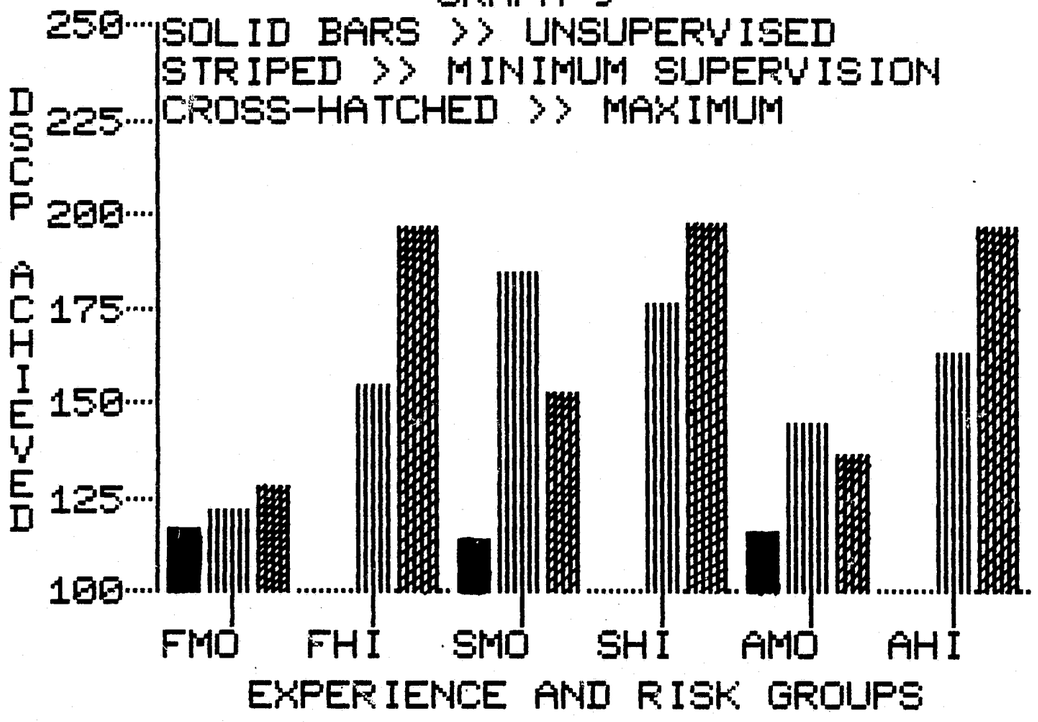
GRAPH 8

SOLID BARS >> LOW RISK
STRIPED >> MODERATE RISK
CROSS-HATCHED >> HIGH RISK

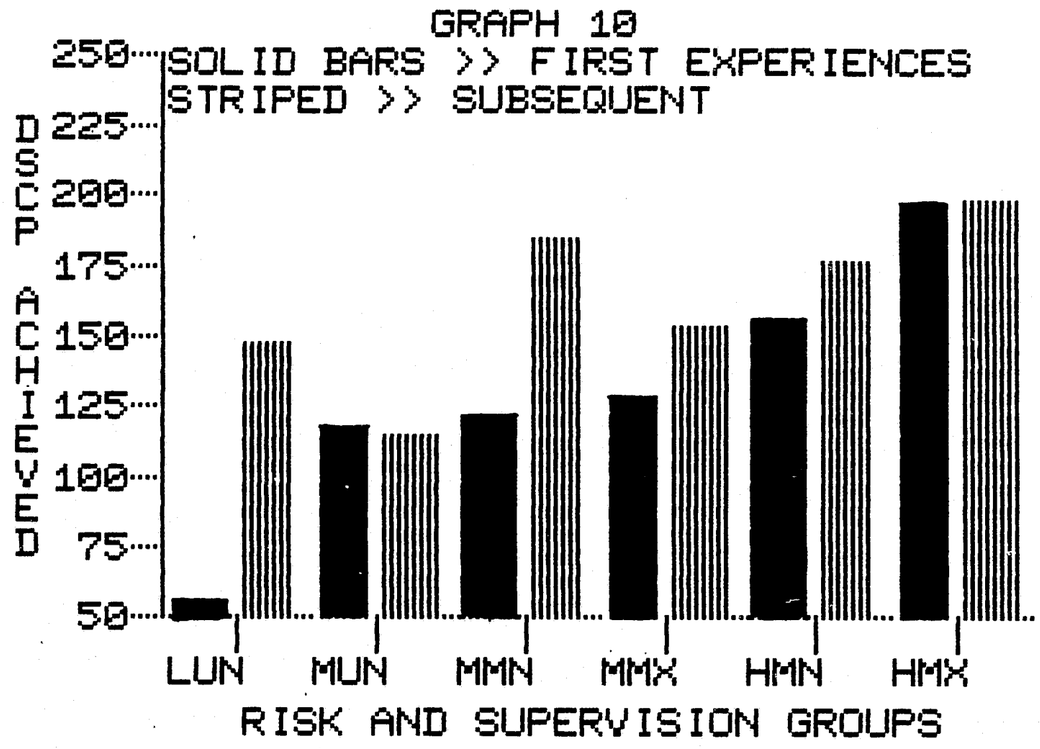


EXPERIENCE AND SUPERVISION GROUPS

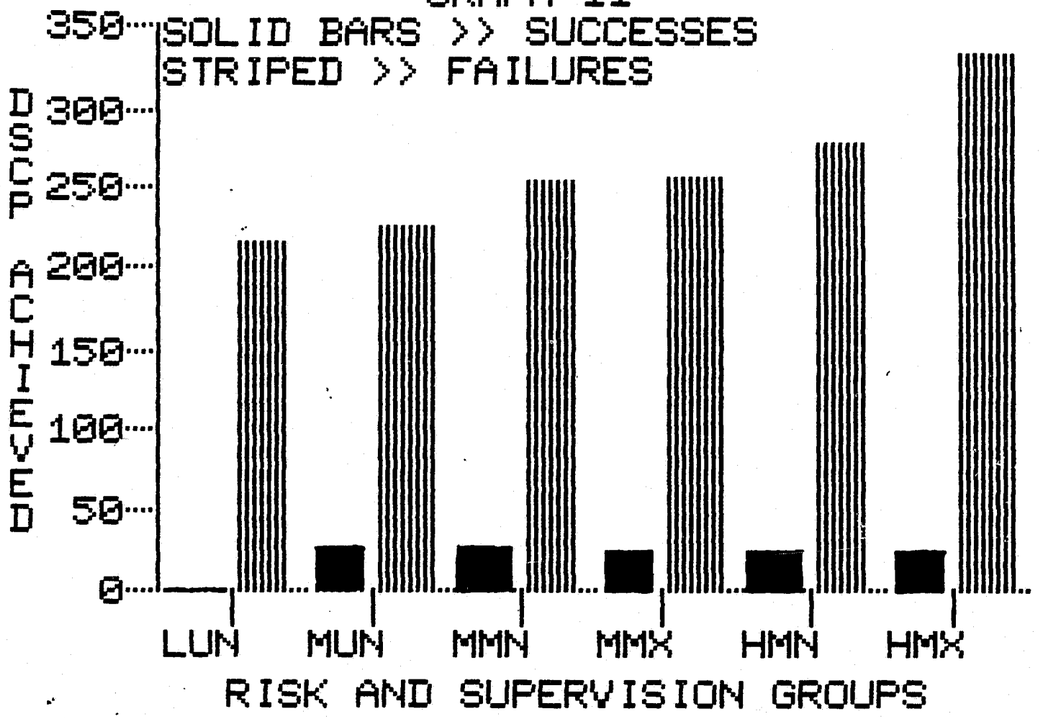
GRAPH 9



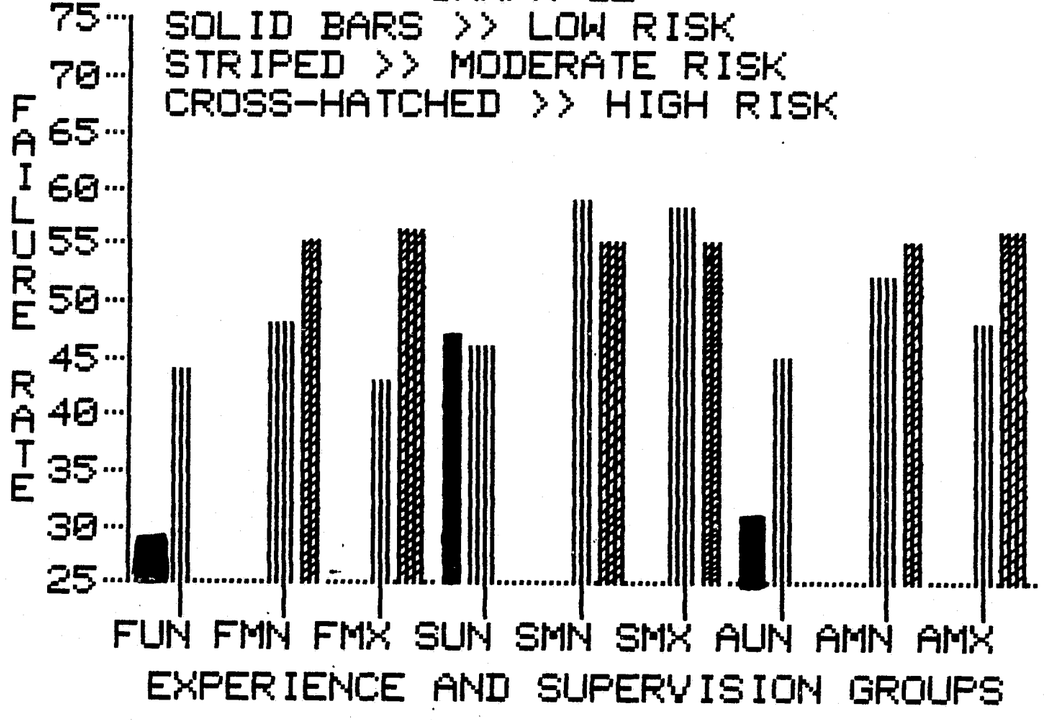
GRAPH 10



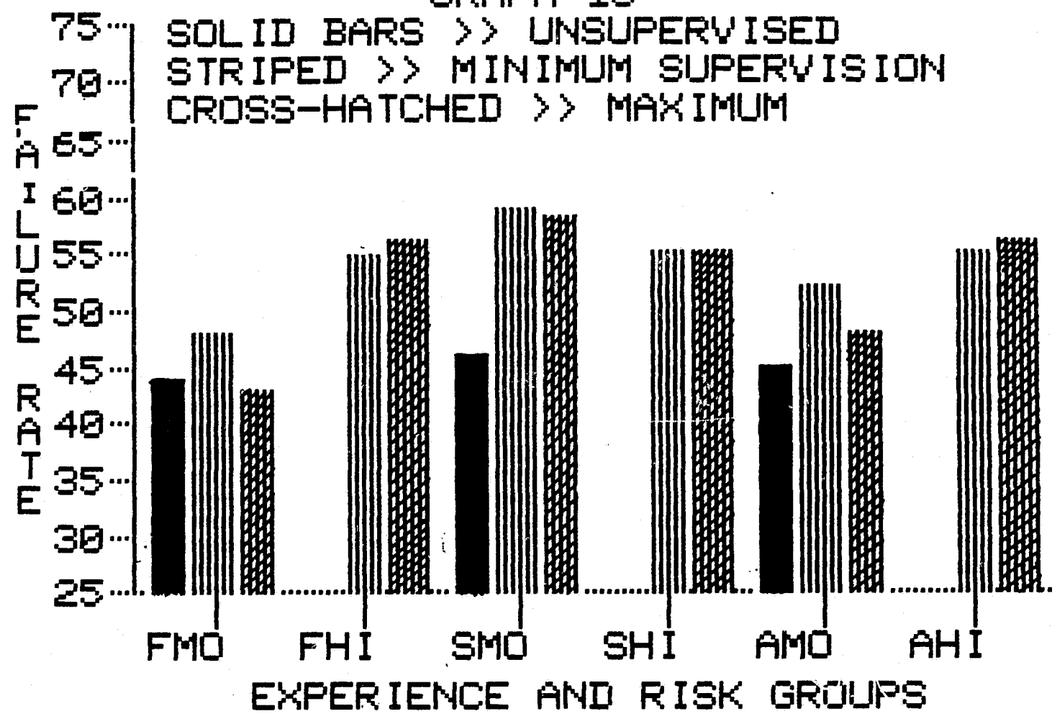
GRAPH 11



GRAPH 12



GRAPH 13



GRAPH 14

Appendix D

Probation Department Exhibits

PROBATION DEPARTMENT EXHIBITS

P-1 PSI and Probation Assignment Sheet

P-2 Interview Form

P-3 Drinking Questionnaire

P-4 Drug Questionnaire

P-5 Risk Prediction Score Sheet

P-6 Representative Model of the Design

P-7 Conditions of Probation (Supervised)

P-8 Conditions of Informal, Non-Reporting Probation

P-9 Major Events in the Intake Process

P-10 Memorandum - Intake

P-11 Memorandum - February 9, 1981 Training Session

P-12 Daily Probationer Supervision Log

P-13 Table of Probation Standards

P-14 Collections Sheet

P-15 Data Coordinator Consolidated Data Sheet

HAMILTON COUNTY MUNICIPAL COURT
PROBATION DIVISION -- LOWER LEVEL
222 E. Central Parkway
Cincinnati, Ohio 45202

PSI and Probation Assignment Sheet

Court Date:

_____, having been convicted as charged

of_____, before Honorable

_____, is this day:

Assigned to the Probation Division for a Pre-Sentence Investigation and written report. DATE DUE_____

1. Facts of Arrest	☐	5. Physical or Mental Health (Drugs/Alcohol)	☐
2. Prior Record	☐	6. Restitution/Damages	☐
3. Employment	☐	7. Fines Only	☐
4. P.W.'s Feeling about Sentence	☐	8. Complete PSI & Report	☐

Granted probation and assigned to the Probation Division for supervision. The sentence of the Court is as follows:

CASE NO.		PROBATION TERM
_____	_____	_____
_____	_____	_____
_____	_____	_____

IMPORTANT: If granted probation, the probationer is required by the Court to comply with the CONDITIONS OF PROBATION as set forth on the reverse side of this form. The Court also imposes the following additional requirements:

SPECIAL CONDITIONS: _____

_____

_____

By Order of_____

PLEASE NOTE:

If Court appearance occurs Monday through Friday at the County Courthouse report to the above address on the same day by 1:00 P.M. if Morning Court or 3:30 P.M. if Afternoon Court. If Court appearance occurs on Saturday report by Noon the following Monday.

If Court appearance in County Courts occurs Monday through Thursday nights, report the following morning by 9:00 A.M. to the above address. If Court appearance occurs in County Courts on Friday night, report the following Monday morning by 9:00 A.M.

INTERVIEW FORM

R.P.#_____

Name_____Folder #_____Date_____

Docket No.(s)_____Charge(s)_____

Present Offense_____

_____

_____

Marital Status M SP D W S How long?_____

Education (Last school attended)_____

Last grade completed_____Check box if client has GED ☐

Military Branch_____Yrs. in Service_____to_____

Type of Discharge: Honorable___General___Dishonorable___

Employment (3 jobs)

Company	Position	Salary	Dates
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Prior Record of Juvenile and out of County offenses. If client is under 21, contact Juvenile Court to check juvenile record, Dial 8096. Check box if Juvenile Court contacted ☐

Date	Charge	Disposition
_____	_____	_____
_____	_____	_____
_____	_____	_____

Health Good___Fair___Poor___(if poor) Why_____

_____

Alcohol Problem yes___no___?___ Drug Problem yes___no___?___

Comments_____

_____

_____

DRINKING QUESTIONNAIRE

1. How many days a week do you drink alcoholic beverages?_____
2. How much do you usually drink?_____
3. How much does it take to get you high?_____
4. How many times a week do you get high?_____
5. Do you drink more now than you used to?_____
6. Do you ever drink more than you plan to?_____
7. How much do you think you can drink at one time?_____
8. Have you ever thought about cutting down?_____
9. Were you drinking when you got into this trouble?_____
10. Have you ever been arrested before because of something you did while under the influence of alcohol?____Charge(s)_____
11. Have you ever lost time from work because of drinking?_____ How many times in the past year?_____
12. Do you ever drink in the morning?_____How often?_____
13. Do you ever drink alone?_____How often?_____
14. Do you sometimes forget what happened while you were drinking?_____ _____
15. Have you ever felt bad or guilty about drinking?_____
16. Have you ever had money problems because of drinking?_____
17. Do you ever drink when you're worried, angry, or lonely?_____
18. Has your spouse, family, or friends ever expressed concern about your drinking?_____
19. Have either of your parents, grandparents, or brothers and sisters ever had a drinking problem?_____
20. Have you ever been involved in a program for problem drinkers?_____ Program_____When_____
21. Have you ever attended an A.A. Meeting?_____

DRUG QUESTIONNAIRE

1. What drugs have you tried?_____
2. Have you ever tried marijuana___hashish___hallucinogens (LSD,PCP, MDA)___barbiturates (downs)___amphetamines (ups, speed)___ tranquilizers (valium,librium)___heroin___morphine___cocaine___ T's & B's____codeine____dilaudid____sopors____preludin____ glue/aerosol___or any other drug_____
3. Which of these drugs have you used on a regular basis_____ occasionally_____ more than once_____
4. What drug(s) are you currently using_____ _____
5. How often do you use the drug(s) Daily___Several times a week___ Once a week_____Less than once a week_____.
6. When did you use the drug(s) last_____ How much did you use?_____
7. How much do you usually use (of each)_____
8. How much does it take to get you high?_____
9. How much money do you spend on drugs a week?_____
10. Do you use more now than you used to?_____
11. Have you ever thought about cutting down?_____
12. Were you high when you got into this trouble?_____
13. Have you ever been arrested before because of something you did while under the influence of drugs?____Charge(s)_____
14. Have you ever felt bad or guilty about using drugs?_____
15. Do you ever use drugs when you're worried,upset, or lonely?_____
16. Do you ever mix drugs with alcohol?_____ What combination?_____How often?_____
17. Have you ever had money problems because of drugs?_____
18. Has your spouse, family, or friends ever expressed concern about your using drugs?_____
19. Do any of your friends use drugs?_____
20. Have you ever tried to quit using drugs?_____
21. Have you ever been involved in any kind of drug treatment program?_____When_____

RISK PREDICTION SCORE SHEET

(Give appropriate weights to information drawn from case history interview. Add score and check in proper category at bottom.)

Client_____

Screener_____

EDUCATION

(-2) _____ high school graduate or G.E.D.
(2) _____ 12th grade or below

MARITAL

(0) _____ married, living with spouse
(6) _____ separated, (less than one year)
(2) _____ divorced, widowed, single

MILITARY

(0) _____ honorable discharge
(2) _____ no service
(6) _____ general or undesirable discharge

PRIOR RECORD

(2) _____ less than 3 misdemeanors
(4) _____ 3 or more misdemeanors
(6) _____ 1 or more felony convictions

DRINKING

(2) _____ none/occasional
(6) _____ problem drinking
(6) _____ prior drinking-related arrest

DRUGS

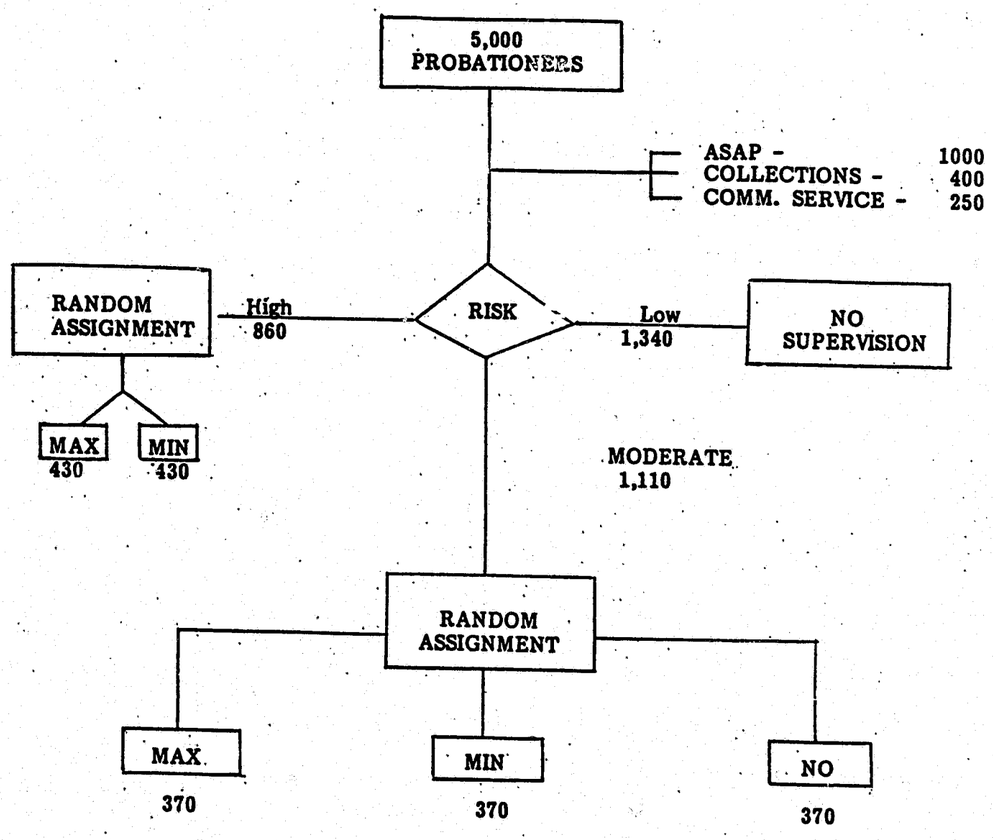
(2) _____ none/occasional
(6) _____ problem drug use
(6) _____ prior drug-related arrest

(+/-2) _____ Screener's assessment

_____ Total

Low Risk_____ Marginal Risk_____ High Risk_____
(4-10) (12-16) (18 or higher)

REPRESENTATIVE MODEL OF THE DESIGN



MAX - Maximum Supervision
MIN - Minimum Supervision
NO - No Supervision

PROBATION DEPARTMENT
HAMILTON COUNTY MUNICIPAL COURT
GENERAL RULES FOR PROBATIONERS

Probation is a privilege not a right. This privilege may be revoked at any time. Make sure you understand all the conditions of your probation before you sign them. If you have questions, ask your Probation Officer to explain them to you.

The Probation Officer wants to help you, but the first and most important step is for you to help yourself. When you have a problem, talk to your Probation Officer.

As a probationer, you can be arrested on sight without a warrant by any Probation Officer or any other Police authority, whenever there are reasonable grounds to believe that you have violated the terms of your probation.

Although a strict curfew has not been given to you, it is certainly in your best interest to keep reasonable hours. Should you prove you are not keeping these hours, a curfew will be imposed.

Following is a summary of the General Rules for all probationers which you shall follow:

1. I shall obey all laws, this includes city, county, state and federal laws.
2. I may not carry a firearm or other lethal weapon.
3. I shall not use narcotics, and shall stay out of places where they are sold or dispensed. I shall consent to medical tests to determine if I have violated this rule.
4. I shall support those persons whom I am required by law to maintain and support.
5. I shall improve myself and will seek additional education or vocational training. I will seek a job and, upon getting a job, I will work regularly. I will be punctual and industrious on the job.
6. I shall FIRST obtain permission from my Probation Officer before leaving any employment.
7. I shall obtain permission from the Probation Department before leaving either Hamilton County or the State of Ohio.
8. I shall report, immediately, any change of my home residence or telephone number to my Probation Officer.
9. I shall report to my Probation Officer at such time and place and as often as the Municipal Probation Department or the Court may require. Failure to do so could be a ground for revocation of probation.
   My time to report is on_____of each week-month. I will report dressed properly.
10. I shall make restitution in the sum of$_____within_____months from the date of this Order, and pay Costs of Prosecution, estimated at $_____to the Municipal Probation Department. I agree to pay$_____per (week, month). I agree to pay a fine of $_____
    If I cannot meet these obligations I shall discuss it with my Probation Officer immediately
11. I agree to abide by the above rules and conditions of my probation. These rules may be modified in the future if the circumstances of my life change. I shall also abide by the following conditions as stated by Judge_____or my Probation Officer.

I HAVE READ OR HAVE HAD READ TO ME THE ABOVE WHICH MY PROBATION OFFICER HAS ALSO EXPLAINED TO ME. I UNDERSTAND ALL RULES AND PROMISE TO ABIDE BY THEM. I REALIZE ANY VIOLATION MAY CAUSE MY PROBATION TO BE REVOKED AND THE SENTENCE PUT INTO EFFECT FOR THE OFFENSE I HAVE COMMITTED. I WILL KEEP MY COPY OF THESE RULES.

DATE_____PROBATIONER_____

PROBATION OFFICER_____

CONDITIONS OF INFORMAL, NON-REPORTING PROBATION

You have been placed on informal, non-reporting probation. That means that you will not have a probation officer, and that you will not have to report to the probation department on a regular basis. However, you must understand that you are on probation and must obey the following rules or conditions:

(1) You must obey the law. Conviction of any offense may result in a violation of your probation.

(2) You may not leave Hamilton County for more than two (2) weeks without permission from Mr. Muse, Senior Probation Officer. Phone 632-8779.

(3) You must report any change of address, telephone number, or employment status to Mr. Muse within one week of the change.

(4) If you were ordered to pay fines, court costs, and/or restitution, through the probation department, you must make regularly scheduled payments as set up by the probation department.

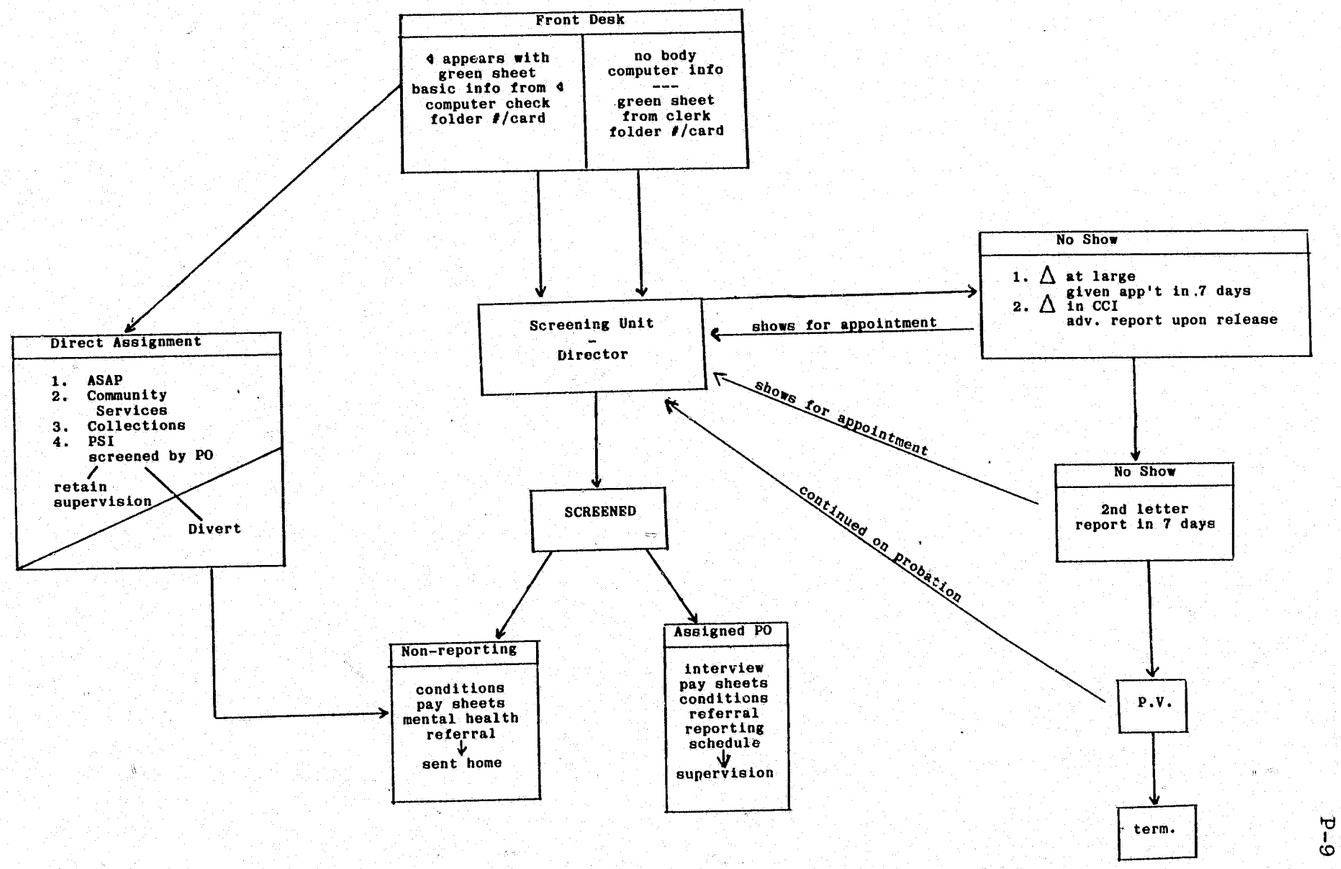
(5) You must comply with any special conditions imposed by the Court _____

_____.

If you do not obey all of the above conditions, your probation may be violated. If this happens, you will have to come back to court for a hearing in front of the Judge who put you on probation. If you are found guilty of violating the rules of your probation, the Judge can put you in jail for the number of days he originally suspended.

Remember to call Mr. Muse at 632-8779 if you plan to leave Hamilton County for more than two (2) weeks, or if you change your address, or phone number, or job. Mr. Muse will also be available to help you if you run into problems while you are on probation.

MAJOR EVENTS IN THE INTAKE PROCESS



OCT 31 1980

P-10

MEMORANDUM - Intake

TO: Dick Hartigan

FROM: Anne Bolduc

RE: Intake

Larry Muse and I have discussed the intake process and my concern as to accurate data collection on program participants at the point of intake. As you are aware, I have been unable to ascertain precisely who is placed on probation since no one list is currently compiled.

Since all probationers are screened, Larry and I have agreed that a daily list will be compiled by himself and his volunteers of all individuals screened. The attached data sheet indicates the columns which the screeners will fill-in daily. In addition, I will review the log book daily in order to collect data on those individuals who are unscreened.

If you concur this process will begin on November 5th.

cc: Larry Muse
Irv McMurtry
Jack Collins

OCT 31 1980

P-10

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cc: Larry Muse
Irv McMurtry
Jack Collins

MEMORANDUM

2/9/81 Training Session

TO: Project Participants

FROM: Anne Bolduc

RE: 2/9/81 Training Session

Per our discussion at the 2/9/81 Training Session the following codes should be used under the "I" on the data instrument:

- ✓ (with x minutes) = PO saw probationer on screening date
- P (with x minutes) = PO saw probationer with a previous pre-sentence investigation on the date he/she entered probation
- S (with 0 minutes) = Probationer was screened but not seen by PO on that day
- P (with 0 minutes) = Probationer with PI was not seen by PO on the date he/she entered probation

CONTINUED

2 OF 3

Rev. 3 Oct 1980

DAILY PROBATIONER SUPERVISION LOG

P.O.:______________________ Date______________________

PROBATIONER IDENTIFICATION			RISK	SUP'V	CONTACT NO.								TIME		M	P	PC	REVENUE:O/P			NEXT CONTACT				
Last Name, First Name, Initial	FILE NO.	J	H/M/L	MA/MI/U	I	T	O	H	A	U	L	C	IN	OUT	I	C	VALUE	C	F	R	TYPE	D	MO	YR	TI[illegible]

HAMILTON COUNTY PROBATION DEPARTMENT

MUNICIPAL COURT DIVISION

PROBATION MANAGEMENT INFORMATION SYSTEM

TABLE OF PROBATION STANDARDS

DESCRIPTION.

The successful completion of probation consists of the probationer, during his period of probation, fulfilling all of the conditions of probation defined by the Court. These conditions must be fulfilled to the satisfaction of the Probation Officer charged with the supervision such that the Probation Officer may with sufficient confidence recommend to the Court that the probationer be discharged from his probation at an appropriate point.

During the period of probation the probationer's conduct is in many instances between perfect conformity and perfect non-conformity with one or more of the conditions of probation, conduct which is unsatisfactory to the Probation Officer but not meriting a formal violation of probation being filed.

In the exercise of the supervisory power delegated to the Probation Officer by the Court he exercises significant discretion in determining the degree to which a probationer's conduct is or is not in conformity with each condition of probation. In these instances the Probation Officer exercises his supervisory judgment to determine the cause and degree of non-conformity and to determine the degree and type of direction, advice, instruction, admonishment, reproof, or caution he must provide the probationer. Each time the Probation Officer exercises the judgment and discretion described above he shall record that action in the form of one or more PC codes using the Table below.

Each PC code is merely a shorthand notation for a condition of probation. Each value assigned to a PC code is a value assigned by the Court based upon a rank ordering of the relative significance of each condition of probation. By so recording this information a readily recognizable and measurable indicator of probationer conduct may be examined during his period of probation and a degree of successful performance may be assigned upon his completion of probation.

ACTION.

Each Probation Officer shall select one or more of the PC codes listed in the STANDARDS TABLE below and record the same in the PC column of the applicable PMIS Report, whenever:

1. The probationer is displaying tendencies, the continuation of which would, in the Probation Officer's judgment, result in his filing a violation of one or more of the conditions of probation; and/or

2. The probationer is not meeting the payment schedule defined in the "PMIS Probationer Payment Schedule for Costs, Fines and Restitution" attached and/or

3. The Probation Officer advises the probationer to improve his conduct in relation to 1 above.

STANDARDS TABLE

PC	(PROBATION CONDITION)	VALUE	PC CODE
1	Conviction of Traffic Offense	100	T
2	Conviction of Minor Misdemeanor	100	MM
3	Left jurisdiction w/o permission	300	J
4	Failed to report address change	300	RA
5	Failed to report personally as required	100	RR
6	Failed to comply with special condition	200	SC
7	Conviction of misdemeanor	600	MD
8	Money Owed/Money paid on time	200	$/$
9	Treatment programs-participate fully in	300	TP
10	Conviction of felony	600	F
	Violation of one or more of the Conditions of Probation	0	PV
	Terminated Probation Successfully	0	TS

* The procedures described herein shall supplement applicable parts of the Probation Department "Rules and Procedures Manual" until such time as a change to that Manual is published on this subject.

COURT FINES & COSTS
RESTITUTION
CHILD SUPPORT

COLLECTIONS SHEET

File Nº_____
P.O._____
Date:_____
Term:_____

TOTAL AMOUNT OWED

Name

Address

Rev. 3 Oct 1980

DATA COORDINATOR
CONSOLIDATED DATA SHEET

Date: _____

PROBATIONER IDENTIFICATION		RISK	SUP'V	CONTACT NO.								TIME	COST	P	PC	REVENUE: O/P				NEXT CONTACT						P
Last Name, First Name, Initial	FILE NO.	H/M/L	MA/NI/U	I	T	O	H	A	U	L	O	MIN	$	C	VALUE	C	F	R		TYPE	D	NO	YR	TIME	O

Appendix E

Acronyms

ACRONYMS

Acronym	Meaning
CDS	Consolidated Data Sheet
CSSO	Computer System Service Organization
DAO	Data Analysis Organization
DC	Data Coordinator
DSCP	Degree of Successful Completion of Probation
HCMC	Hamilton County Municipal Court
MIS	Management Information System
NIJ	National Institute of Justice
PC	Probation Condition
PO	Probation Officer
PSI	Pre-Sentence Investigation
RLI	Risk Level Indicator

END