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COMMONWEALTH OF VIRGINIA DEPARTMENT OF CORRECTIONS DIVISION OF PROBATION AND PAROLE SERVICES

Client Profiles In Two Probation And Parole Districts

March, 1976

DIVISION OF PROBATION AND PAROLE SERVICES

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The analyses contained in this report were compiled by Ms. Bonnie Koontz of the Planning program of this agency's Program Development Services component, from data which was collected by two District Probation and Parole Offices in the Commonwealth of Virginia; namely District 9 (Charlottesville) and District 19 (Newport News/Hampton).

Statistical Tracking Retrieval Analysis Planning (STRAP) was a pilot project conducted by the Virginia Division of Probation and Parole Services in conjunction with the Virginia Division of Drug Abuse Control to generate drug abuse and socioeconomic patterns of clients in two Probation and Parole Districts. These client profiles were derived from frequency disbributions and cross tabulations.

The reader of this report is cautioned that generalizations to other districts in Virginia can not be made from the data herein presented.

INTRODUCTION

R. J. Polisky Assistant Director Program Development Services

ANALYSIS OF SELECTED POPULATION CHARACTERISTICS IN DISTRICT #9

INTRODUCTION

3/1/76

For both management and planning purposes, a basic understanding of the characteristics of each district's population is essential. Statistical Tracking Retrieval Analysis Planning is a pilot program that was generated by the Division of Probation and Parole Services in conjunction with the Virginia Division of Drug Abuse Control to gather and record information relating to drug abuse and socio-economic characteristics of clients in Districts 1. 9, and 19. Theoretically, the information captured by the system would provide typologies of client characteristics which in turn would depict actual and potential problem areas. The responsibility for collecting and coding the data has been delegated to the Probation and Parole Officers in these three districts. They, in turn, have submitted the data to VDAC for computer analysis.

The report represents a sample of the types of analysis that can be obtained from the STRAP program. Selected descriptive data on clients in Districts #9 are utilized. No attempt to analyze all of the information captured in STRAP system was made. In addition, the report discusses some of the problems related to the manner in which the system was set up and some of the problems related to the types of data that have been collected.

Since this report was composed from a planning perspective, the types of information examined are social background factors, criminal status variables, and social adjustment variables. The sample under consideration includes all clients under active supervision in District #9 between January 1, 1975, and March 1, 1975. By assuming that this sample is representative of the traits and events of District 9's population through differing time spans, the data

analysis will provide some useful information regarding District #9's true population.

The first type of data analysis presented is frequency distributions. Measures of central tendency and measures of dispersion also are given on variables that meet the assumptions of the measure. These types of statistics describe the sample's distribution on a single variable and relate them to the interpretation of one value or category of the variable. Social background factors, criminal status variables, and social adjustment variables are examined respectively.

A. Age - Due to the large range of values on this variable, age will be presented as grouped data rather than reporting the actual incidence of each value. The following statistics, however, relate to the actual value of age: Mean = 28.203 years Standard Deviation = 11.4 years Median = 24.222 years Interquartile Range = 20 to 31 years Mode = 20 years Range = 51 years with 18 years as lower limit

Since the age of 50 percent of the clients falls between 19 and 26 years of age, the interquartile range is a better indicator of the amount of dispersion than the standard deviation. Likewise, because of the skewed distribution, the median is a better indicator of central tendency than is the mean. The sample indicates that the bulk of the population in District 9 is young adults. The distribution for grouped age data is as follows:

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SOCIAL BACKGROUND FACTORS

	Absolute Erequency		Relative Frequency
age and below	79		25%
21 to 25 yrs	95	•	30%
21 to 20 yrs.	47		15%
20 co yrs.	29		9%
31 to 35 yrs.	65	•	11%
36 yrs. and above	2] 5	•	100%
TOTAL	315		100%

The age of one client was not obtained. The table indicates that 55 percent of the clients are 25 years of age or younger.

B. Race - The racial distribution for the 315 clients in District #9 is as follows:

Race	Absolute : Frequency :	Relative Frequency
White	199	63%
Black	115	37%
Other defined racial or ethnic groupings	1	00%
TOTAL	315	100%

The race or ethnic grouping for 1 (0.3%) client was not known. As the chart shows, white clients outnumber black clients by approximately 2 to 1.

C. Sex - The sample distribution regarding sex for the clients is enumerated below:

<u>Sex</u>	Absolute Frequency	:	Relative Frequency
Male	288		92%
Female	26		8%
TOTAL	314		100%

The sex of 2 (.6%) of the clients was not obtained. As can be seen from the relative frequency, males under supervision outnumber females by over 9 to one.

A. Supervisory Classification - The distrubtion of the supervisory classi-

fication is as follows:

Classification	Absolute : Frequency :	Relative Frequency
Probation	230	73%
Parole	83	26%
Pardon TOTAL	314	100%

The supervisory classification was not ascertained on 2 (.6%) of the clients. The chart indicates that there is a ratio of 3 probation clients to every one parole client.

B. Prior Drug Offenses - The distribution of the number of clients with previous drug convictions is depicted below:

Charge	Absolute : Frequency :	Relative Frequency
None	265	84%
Misdemeanant	12	4%
Felony	13	4%
Section 54-524.101.3	26	8%
TOTAL	316	100%

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CRIMINAL STATUS VARIABLES

Of the 51 clients with previous drug offenses, information concerning the sentencing for the offense was obtained on 48 of them. Of these 51 clients, 5 (10%) were jailed, 4 (8%) were sentenced to State correctional facilities, 35 (71%) were continued on probation or parole, and 6 (12%) received some other kind of sentence.

C. Arrests During Sample Period - The distribution of arrest charges for clients between January 1, 1975, and March 31, 1975, is enumerated below:

Arrest Charges	Absolute : Frequency :	Relative Frequency
No arrest charges	278	88%
Misdemeanant charges	14	4%
Felony charges	7	6%
Traffic violations	7	2%
TOTAL	316	100%

Arrest charges were brought against 12 percent of the clients during the sampling period. Of the 21 arrests on felony and misdemeanant charges, 5 (42%) were drug related charges.

D. Convictions During the Sample Period - The distribution of charges for which clients were convicted is cited below:

Charges	Absolute Frequency	;	Relative Frequency
No charges	289		91%
Misdemeanant charges	13		4%
Felon charges	8		3%
Adjudication Withheld	6		2%
TOTAL	316		100%

Of the 27 clients who were convicted, 7 (26%) were on drug related charges. In addition, 4 (17%) of the convicted clients were jailed, 3 (13%) were sentenced to a State correctional facility, 13 (54%) were continued on probation or parole, 4 (17%) received some other form of sentence. No information was obtained on the remaining 2 clients.

#9 is as follows:

Employment Status	Absolute	Relative
Employment	99	31%
Irregular Employmer	nt 47	54%
No Employment	170	15%
TOTAL	316	100%

B. Vocational Rehabilitation Status - Participation in vocational education programs is enumerated below: Vocational Education No participation Part time participati Full time participati TOTAL

C. Academic Education - Participation in academic educational programs of clients in District #9 is as follows:

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SOCIAL ADJUSTMENT VARIABLES

A. Employment Status - The employment status of the clients in District

	Absolute Frequency	Relative Frequency
	312	98.7%
on	3	• 9%
on	1.	. 3%
	316	100.0%

Academic Education	Absolute Frequency	Relative Frequency
No participation	303	95.9%
Part time participation	10	· 3.2%
Full time participation	3	.9%
TOTAL	316	, 100.0%

D. Actual Education Level - The grade level of clients in District

#9 is as follows:

Grade Level	Absolute Frequency
9	· 1
12	2
College Level	
Freshman	3
Sophomore	5
Junior	1
Senior	1
TOTAL	13
MISSING VALUES	303

The relative frequency isomot shown because there is no way to assess whether or not it is a true characteristic of the educational distribution in District #9. The value was not recorded on 303 clients. Thus, the little information that was gathered on this variable is virtually useless.

The second type of data analysis presented is correlational analysis. Correlation coefficients describe the relationship between two or more variables, or the extent to which the values of the variables vary concomitantly. While correlations measure the degree of covariance between two or more variables, they are merely descriptive and in no way can one infer from correlations that one variable is causally dependent upon another.

Correlation coefficients have been computed between only those variables that meet the assumptions for ordinal data. An ordinal level of measurement assumes that the values of the variables can be categorized as larger or smaller, better or worse, etc. The correlation coefficient computed is gamma, an ordinal measure of association. Gamma was selected because of its suitability for ordinal data and its proportional reduction in error interpretation. Gamma is based on pairs of cases and their order relative to each other on each of two variables rather than individual scores. Any reported gamma represents the degree to which one can reduce the error in predicting the order of the value of one variable from knowledge of the order on a second variable over mere guessing: The following tables denote the relationship between selected variables.

Age	No Employment	Irregular Employment	Employment	Total
20 yrs. & under	34	10	35	79
20 to 25 yrs.	29	12	54	95
25.1 to 30 yrs.	11	14	22	47
30.1 to 35 yrs.	7	5	17	29
35.1 yrs. & over	18	6	41	65
TOTAL	99	47	169	315

Gamma = .160

Thus, there is virtually no relationship between the age of a client and his respective employment status. Young clients are just as likely as older clients to be employed, unemployed, or irregularly employed.

•		-	•	
, Race	No Employment	Irregular Employment	Employment	Total
White	62	26	. 111	199
Black	37	21	57	115
TOTAL	98	47	168	314

EMPLOYMENT STATUS BY RACE

Missing values on 12 clients

• Gamma = .085

Once again, there is no relationship between the race of clients and their employment status. Blacks are as likely as whites to be either employed, irregularly employed, or unemployed.

e	AGE	BY	RAC	E
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Race	20 Yrs. & Under	20.01 to 25 Yrs.	25.01 to 30 Yrs.	30.01 to 35 Yrs.	35.01 Yrs. & Over	TOTAL
White	55	63	25	22	35	200
Black	23	31	22	9	30	115
TOTAL	78	94	47	31	65	315

Missing values on 12 clients

Gamma = .172

There is virtually no degree of association between race and age as indicated by the value of gamma. Both black and white clients appear to be evenly distributed throughout the various age categories.

Drug Usage	20 Yrs. & Under	20.01 to 25 Yrs.	25.01 to 30 Yrs.	30.01 to 35 Yrs.	35.01 Yrs. & Over	TOTAL
None	38	54	22	13	28	155
Alcohol	14	15	17	. 13	35	94
Marijuana	25	18	2	١	0	46
Hard drugs	2	7	6	2	2	19
TOTAL	79	94	47	29	· 65 ·	314

Missing values on 6 clients.

Once again, there is virtually no association between drug usage of clients and the age of clients. Older clients are just as likely to use drugs as younger clients.

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AGE BY REPORTED DRUG USAGE

Gamma = -.054

DISTRIBUTION , AND EMPLOYME S IN DISTRICT OF AGE, RACE, SEX, I TRAITS OF CLIENTS

		No Empl	oyment		Rec	jular Eri	Joyment		. I	regular	Employmen	tt.	Totals :
Age	: Ma : White	le : Black	: Fe : White	male Black	Ma White	le Black	Fen White	nale Black	: Ma : white	le : Black	: Fen : White	ale : Black :	
Under 20 Yrs.	13	11	7	~	26	6	, ,	-	8	2	0	0	78
20.1 to 25 Yrs.	16	5	2	5	34	15	4	0	7	ß	0	0	. 94
25.1 to 30 Yrs.	2	4	0	0	12	6	-	0	പ	ω	0	-	47
30.1 to 35 Yrs.	m	m	0	-	13	က	-	0	Ċ	2	0	0	29
Over 35.1 Yrs.	EL	2 2	0	C	18	21	-	-	ς	2	0	-	65
Total	52	32	6	വ	103	55	8	2	26	19	0	2	313

The following tables represent cross tabulations of two variables. Gamma was not calculated for these particular distributions because of the larger number of zero cells. When a large number of zero cells are present, the obtained gamma grossly overestimates the degree of association between the variables.

Drug Use	No Arrest	Traffic Violation	Misdemeanor	Felony	Total
No Use	137	5	9	Ą	155 (49.1)
Alcohol	83	5	3	3	94 (27.7)
Marijuana	40	4	4	0	48 (15.2)
Hard drugs	18	0	1	0	19 (6.0)
Total	278 (88.0)	14 (4.4)	17 (5.4)	7 (2.2)	316 (100.0)

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DRUG USAGE BY TYPES OF ARREST DURING THE SAMPLE PERIOD

Drug Use	None	Misdemeanor	Felony	Adjudication Withheld	Total
None	143	6	6	0	155 (49.1)
Alcohol	89	4	0	• 1	94 (27.7)
Marijuana	39	2	ີ 2	5	48 (15.2)
Hard drugs	18	1	0	0	19 (6.0)
Total	289 (91.5)	13 (4.1)	8 (2.5)	6 (1.9)	316 (100.0)

DRUG USAGE BY TYPES OF CONVICTIONS DURING THE SAMPLING PERIOD

PROBLEMS

Though useful types of information can be retrieved from the STRAP system, there are some "bugs" and problems due to the way in which the system was set up. The major difficulties are related to the coding system. For most of the items, zero represents an actual response with a referent. However, no number has been assigned to represent no response or no information. As a result, there is no way to differentiate whether a zero really represents a true response or missing data. For example, zero was recorded for 501 clients for educational level. It is unrealistic to assume that 501 clients out of 524 have not even completed the first grade!. The figure apparently indicates the number of clients for whom their educational level was not recorded.

Using zero for a response also affects the type of analysis that can be done. When arithmetic computations are going to be performed, all of the zeros must be recoded to assure that the measure will not be nonsense. Setting up recoding procedure cards is a process that should not have to be done every time the user wishes to perform an arithmetic computation.

Another coding problem that needs to be mentioned is the intermingling of alpha-numeric and numeric codes on the same item. Though this intermingling saves card space, the procedure for unscrambling the codes and putting them in usable order is hectic. The benefit of saving time by not having to unscramble a code outweighs the card space saved.

Other problems involve the conceptual definitions of the data collected. The data collected are informative as they now are, but adding other qualitative types of data would greatly enhance the interpretation of the data. Employment status will be used as an example. The categories for employment status are employed, irregularly employed, and unemployed. At first glance, one might interpret irregular employment as inability to stick with one job. Another interpretation is that the clients with irregular employment do some kind of seasonal work such as construction, picking crops, etc. If occupational titles were obtained, we could tell which interpretation on any given client was correct. The same holds true for arrests and convictions. We would have a much better depiction of the population and individual clients if we knew what the actual offense was rather than using the broad categories of "misdemeanant" or "felon" charges.

SUMMARY

The report has described some of the types of analysis that can be obtained from the STRAP system, and provided a statistical analysis of some client characteristics of District 9's population. Though no statistically

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significant associations were found among client characteristic variables, the lack of such associations are just as meaningful. Also, the report has pointed out some of the difficulties that exist with the STRAP program.

ANALYSIS OF SELECTED POPULATION CHARACTERISTICS IN DISTRICT #19

INTRODUCTION

For both management and planning purposes, a basic understanding of the characteristics of each district's population is essential. Statistical Tracking Retrieval Analysis Planning is a pilot program that was generated by the Division of Probation and Parole Services in conjunction with the Virginia Division of Drug Abuse Control to gather and record information relating to drug abuse and socioeconomic characteristics of clients in Districts 1, 9, and 19. Theoretically, the information captured by the system would provide typologies of client characteristics which in turn would depict actual and potential problem areas. The responsibility for collecting and coding the data has been delegated to the Probation and Parole Officers in these three districts. They, in turn, have submitted the data to VDAC for computer analysis.

This report represents a sample of the types of analysis that can be obtained from the STRAP program. Selected descriptive data on clients in District #19 are utilized. No attempt to analyze all of the information captured in STRAP system was made. In addition, the report discusses some of the problems related to the manner in which the system was set up and some of the problems related to the types of data that have been collected.

Since this report was composed from a planning perspective, the types of information examined are social background factors, criminal status variables, and social adjustment variables. The sample under investigation included all probationers and parolees under active supervision in District #19 between January 1, 1975 and March 1, 1975. By assuming that this sample is representative of the traits and events of District #19's population through differing time spans, the data analysis will provide some useful information regarding District #19's true population.

The first type of data analysis presented is frequency distributions. Measures of central tendancy and measures of dispersion also are given on variables that meet the assumptions of the measure. These types of statistics describe the sample's distribution on a single variable and relate them to the interpretation of one value or category of the variable. Social background factors, criminal status variables, and social adjustment variables are examined respectively.

SOCIAL BACKGROUND FACTORS

A. Age - Due to the large range of values on this variable, age will be presented as grouped data rather than reporting the actual incidence of each value. The following statistics, however, relate to the actual value of age:

Mean = 24.96	Standard Deviation = 8.3 years
Median = 21 years	Interquartile Range = 19 to 26
of age	years of age
Mode = 20 years	Range = 54 years with 16 years
of age	of age as lower limit

Since the age of 50% of the clients falls between 19 and 26 years of age, the interquartile range is a better indicator of the amount of dispersion than the standard deviation. Likewise, because of the skewed distribution, the median is a better indicator of central tendancy than is the mean. The sample indicates that the bulk of the population is District #19 is young adults. The distribution for

grouped age data is as follows:

AGE	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY
20 yr. and below	176	338
21 to 25 yr.	193	378
26 to 30 yr.	62	12%
31 to 35 yr.	34	78
36 yr. and above	55	11%
TOTAL	520	100%

The age of 4 of the 524 clients was not obtained. The table indicates that 70% of the clients are 25 years of age or younger. B. Race - The racial distribution for the 524 clients in District

#19 is as follows:

RACE	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY
White	295	57%
Black	224	43%
Other defined racial or ethnic groupings	0	08
TOTAL	517	100%

The race or ethnic grouping for 6(1.1%) of the clients was not known. As the chart shows, the racial distribution for whites and blacks is practically evenly distributed. C. SEX - The sample distribution regarding sex for the clients is enumerated below:

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SEX	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY
Male	470	91%
Female	47	9%
TOTAL	417	100%

The sex of 7 (1.3%) of the clients was not obtained. As can be seen from the relative frequency, males under supervision out number females by over 9 to 1.

CRIMINAL STATUS VARIABLES

A. <u>SUPERVISORY CLASSIFICATION</u> - The distribution of the supervisory classification is as follows:

CLASSIFICATION	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY
Probation	431	82%
Parole	92	18%
Pardon	0	08
TOTAL	523	100%

The supervisory classification was not ascertained on one client. The chart indicates that there is a ratio of 4 probation clients to every one parole client.

B. <u>PRIOR DRUG OFFENSES</u> - The distribution of the number of clients with previous drug convictions is depicted below:

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	ABSOLUTE	RELATIVE
CHARGE	FREQUENCY	FREQUENCY
None	456	87.0%
Misdemeanant	39	7.4%
Felony	27	5.2%
Section		
54-524.101.3	2	.48
TOTAL	524	100%

Of the 78 clients with previous drug offenses, information concerning the sentencing for the offense was obtained on only 38 of them. Of these 38 clients, 4 (11%) were jailed, 4 (11%) were sentenced to State correctional facilities, 15 (39%) were placed on probation or parole, and 15 (39%) received some other kind of sentence. C. ARRESTS DURING THE SAMPLE PERIOD - The distribution of arrest

charges for clients between enumerated below:

ARREST CHARGES	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY
No Arrest Charges	479	91.4%
Misdemeanant Charges	18	3.4%
Felony Charges	14	2.7%
Traffic Violation	13	2.5%
TOTAL	524	100%

Arrests charges were brought against 8.6% of the clients during the sampling period. Of the 32 arrests on felon and misdeameanant charges, 8 (25%) were drug related charges. D. <u>CONVICTIONS DURING THE SAMPLE PERIOD</u> - The distribution of

D. <u>CONVICTIONS DURING THE SAMPLE PERIOD</u> - The distribution of charges for which clients were convicted is cited below:

CHARGES	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY
No Charges	494	94.3%
Misdemeanant Charges	21	4.0%
Felon Charges	6	1.1%
Adjudication Withheld	3	.6%
TOTAL	524	100.0%

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C. ARRESTS DURING THE SAMPLE PERIOD - The distribution of arrest charges for clients between January 1, 1975, and March 31, 1975 is

Of the 30 clients who were convicted, 6 (20%) were on drug related charges. In addition, 6 (20%) of the convicted clients were jailed, 1 (3.3%) was sentenced to a State correctional facility, 2 (6.7%) were continued on probation or parole, 12 (40%) received some other form of sentence, and no information was obtained on the remaining 9 (30%).

SOCIAL ADJUSTMENT VARIABLES

A. <u>EMPLOYMENT STATUS</u> - The employment status of the clients in District #19 is as follows:

EMPLOYMENT STATUS	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY
Employment	303	59%
Irregular Employment	106	21%
No Employment	105	20%
TOTAL	514	100%

Data was not obtained on 12 (2%) of the clients.

B. VOCATIONAL REHABILITATION STATUS - Participation in vocational

educational programs is numerated below:

VOCATIONAL EDUCATION	ABSOLUTE FREOUENCY	RELATIVE FREOUENCY
No Participation	513	97.9%
Part Time Participation	5	1.0%
Full Time Participation	6	1.1%
TOTAL	524	100.0%

C. <u>ACADEMIC EDUCATION</u> - Participation in academic educational

programs of clients in District #19 is as follows:



D. ACTUAL EDUCATIONAL LEVEL - The grade level of clients in

District #19 is as follows:



The relative frequency was not shown because there is no way to assess whether or not it is a true characteristic of the educational distribution in District #19. The value was not recorded on 501 clients. Thus the little information that was gathered on this variable is virtually useless.

The second type of data analysis presented is correlational analysis. Correlation coefficients describe the relationship between two or more variables, or the extent to which the values of the variables

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	ABSOLUTE	RELATIVE
<u>DN</u>	FREQUENCY	FREQUENCY
	494	94.38
pation 6		1.18
ipation	24	4.6%

GRADE LEVEL	ABSOLUTE FREQUENCY
2	1
8	1
9	3
10	1
12	3
COLLEGE Level	
13	4
14	4
15	1
16	5
OTAL	23
IISSING VALUES	501

vary concomitantly. While correlations measure the degree of covariance between two or mare variables, they are merely descriptive and in no way can one infer from correlations that one variable is casually dependent upon another.

Correlation coefficients have been computed between only those variables that meet the assumptions for ordinal data. An ordinal level of measurement assumes that the values of the variables can be categorized as larger or smaller, better or worse, etc. The correlation coefficient computed is gamma, an ordinal measure of association. Gamma was selected because of its suitability for ordinal data and its proportional reduction in error interpretation. Gamma is based on pairs of cases and their order relative to each other on each of two variables rather than individual scores. Any reported gamma represents the degree to which one can reduce the error in predicting the order of the value of one variable from knowledge of the order on a second variable over mere guessing. The following tables denote the relationship between selected variables. When a moderate degree of association was obtained between two variables the Chi Square Test of significance was computed to see whether the distributions could have occurred by chance alone. The actual χ^2 is reported along with the appropriate level of significance achieved.

AGE	NO EMPLOYMENT	IRREGULAR EMPLOYMENT	EMPLOYMENT	TOTAL
20 Yr. and below	38	38	100	176 (34%)
25 to 25 yr.	41	41	108	193 (37%)
25.1 to 30 Yr.	13	18	31	62 (12%)
30.1 to 35 Yr.	4	3	27	34 (07%)
35.1 and over	10	6	39	55 (11%)
TOTAL	106 (20%)	109 (21%)	305 (59%)	520 (100%)

Gamma = .09

Thus, there is virtually no relationship between the age of a client and their respective employment statuses. Young clients are just as likely as older clients to be employed, unemployed, or irregularly employed.

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RACE	NO EMPLOYMENT	IRREGULAR EMPLOYMENT	EMPLOYMENT	TOTAL
White	56	59	180	296 (57%)
Black	49	47	123	219 (43%)
TOTAL	105 (20%)	106 (21%)	303 (59%)	514 (100%)

Missing Values on 12 Clients

Gamma = .09

Once again, there is no relationship between the race of clients and their employment statuses. Blacks are as likely as whites to be either employed, irregularly employed, or unemployed.

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EMPLOYMENT

EMPLOYMENT STATUS BY RACE

PLOYMENT STATUS

AGE BY RACE

AGE

RACE	20 Yr.& YOUNGER	20.01 to 25 Yr.	25.01 to 30 Yr.	30.01 to 35 Yr.	35.01 Yr. & Over	TOTAL
White	135	113	24	9	14	295 (57%)
Black	41	78	37	25	38	219 (43%)
TOTAL	176 (34%)	191 (37%)	61 (12%)	34 (7%)	52 (10%)	514 (100%)

Missing Values on 12 Clients

Gamma = .53

 χ^2 = 71.17 Significant at the .01 level df=4

There is a moderate degree of association between race and age as indicated by the value of gamma. Thus we can reduce the error in predicting race from the ordering of age by 53%.

Drug Usage	Age										
	20 Yr.& Younger	20.01 to 25 Yr.	25.01 to 30 Yr.	30.01 to 35 Yr.	35.01 Yr & Older	Total					
No Drug Use	36	40	28	22	22	158 (30%)					
Alcohol	13	20	5	11	22	71(14%) [.]					
Marijuana	116	104	19	1	0	240 (46%)					
Hard Drugs	11	29	10	0	11	51 (10%)					
Total	176 (34%)	193 (37%)	62 (12%)	34 (7%)	55 (10%)	520(100%)					

Missing Values on 6 clients

Gamma = .39

The second

Significant at the .01 level χ^2 = 159.73 with 12 df With knowledge of a probationer or parolees age ordering, we can reduce the error of predicting drug usage by 39% over guessing.

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AGE BY REPORTED DRUG USAGE

	TNI	19
UTION	PLOYMI	TRICT
RIB	EM	DIS
DIST	AND	NI
THE	SEX,	LENTS
ОF	E	G
ARY	RAC	OF
SUMM	AGE,	ALTS
	OF	E

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Totals			176		161			61			34			52			514	
mployment	ale	Black	m		-1			0			1			0			S	
	Fem	White	2		2			0			0			0			4	
gular I	e	Black	9		20			11			0			ഗ			42	
Irre	Ma	White	27		19			9			2			1			55	
4	le	Black	2		m			7			0			4		l	11	
Regular Employmen	Fema	White	9					7			2			1		1	12	
	e	Black	21		34			15			21			21		1	112	
	Mal	White	71		70			12			4			11			168	
	le	Black	0		Ś			m			0			-1		1	7	
oyment	Fema	White	4					2			-1			0			8	
No Empl	le	Black	6		17			9			m			~			42	
	Ma		25		20			2			0			Ч			48	
			Below 20 years of age	Between 20.1	<pre>& 25 years</pre>	ot age	Between 25.1	& 30 years	of age	Between 30.1	& 35 years	of age	Over 35.1	years of	age		Total	

The following tables represent cross tabulations of two variables. Gamma was not calculated for these particular distributions because of the larger number of zero cells. When a large number of zero cells are present, the obtained gamma grossly over estimates the degree of association between the variables.

DRUG USAGE BY TYPES OF ARREST DURING

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	TYPES OF ARRESTS								
DRUG USE	NO ARREST	TRAFFIC VIOLATION	MISDEMEANOR	FELONY	TOTAL				
No Use	139	7	5	8	159 (30.2%)				
Alcohol	64	2	5	2	73 (13.9%)				
Marijuana	229	4	7	3	243 (46.2%)				
Hard Drugs	47	0	2	2	51 (9.7%)				
TOTAL	479 (91.1%	13 (2.5%)	19 (3.6%)	15 (2.9%)	526 (100.0%)				

DRUG USAGE	NONE	MISDEMEANOR	FELONY	ADJUDICATION WITHHELD	TOTAL
None	146	7	6	0	159 (30.2%)
Alcohol	66	7	0	0	73 (13.9%)
Marijuana	233	7	0	3	243 (46.2%)
Hard Drugs	50	0	1	0	51 (9.7%)
TOTAL	495 (94.1%)	21 (4.0%)	7 (1.3%)	3 (0.6%)	526 (100.0%)

THE SAMPLE PERIOD

DRUG USAGE BY TYPES OF CONVICTIONS DURING THE SAMPLING PERIOD

PROBLEMS

Though useful types of information can be retrieved from the STRAP system there are some bugs and problems due to the way in which the system was set up. The major difficulties are related to the coding system. For most of the items, zero represents an actual response with a referent. However, no number has been assigned to represent no response or no information. As a result, there is no way to differentiate whether a zero really represents a true response or missing data. For example, zero was recorded for 501 clients for educational level. It is unrealistic to assume that 501 clients out of 524 have not even completed the first grade! The figure apparently indicates the number of clients for whom their educational level was not recorded.

Using zero for a response also affects the type of analysis that can be done. When arithmetic computations are going to be performed, all of the zeros must be recoded to assure that the measure will not be nonsense. Setting up recoding procedure cards is a process that should not have to be done everytime the user wishes to perform an arithmetic computation.

Another coding problem that needs to be mentioned is the intermingling of alpha-numeric and numeric codes on the same item. Though this intermingling saves card space, the procedure for unscrambling the codes and putting them in usable order is hectic. The benefit of saving time by not having to unscramble a code out-weighs the card space saved.

Other problems involve the conceptual definitions of the data collected. The data collected are informative as they now are,

interpretation is that the clients with irregular employment do some SUMMARY

The report has described some of the types of analysis that can be obtained from the STRAP system, and provided a statistical analysis of some client characteristics of District #19's population. Also, the report has pointed out some of the difficulties that exist with the STRAP program.

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but adding other qualitative types of data would greatly enhance the interpretation of the data. Employment status will be used as an example. The categories for employment status are employed, irregularly

employed, and unemployed. At first glance, one might interpret irregular employment as inability to stick with one job. Another

kind of seasonal work such as construction, picking crops, etc. If occupational titles were obtained, we could tell which interpretation on any given client was correct. The same holds true for arrests and convictions. We would have a much better depiction of the population and individual clients if we knew what the actual offense was rather than using the broad categories of misdemeanant or felon charges.

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