DOT HS 803 018

 \nearrow ANALYTICAL STUDY NO. 3 AN ANALYSIS OF ASAP PATROL ACTIVITY

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16. Abstrect

The Idaho ASAP began in June of 1972 and was in full operation by septemberous 1972. All other countermeasures were successfully implemented and functioned throughout the operational project period.

In June of 1975, after three years of operation, the full federal funding of the program expired. However, a modified version of the program was continued under state funding. The regional ASAP coordinators were discontinued and only the central project director in Boise was continued. The Public Information and Education countermeasure was discontinued. The ASAP Enforcement Patrol of twenty-six specially trained state policemen, the presentence investigation team, and the ASAP project management continued, using state funding drawn from a two percent state liquor tax surcharge. The Alcohol Data Bank and the Evaluation Information System were continued under a special ASAP evaluation extension in order to report on the effectiveness of the ASAP in its modified version.

Although the Idaho ASAP and its integrated countermeasure approach has expired, many of the functions will continue.

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ABSTRACT

Analytic Study Number 3 addresses the productivity, efficiency and impact of the Idaho ASAP Alcohol Emphasis Patrol. The Alcohol Emphasis Patrol (AEP) is a specially-trained 26-man patrol force which is deployed statewide. The AEP functions as a subunit of the Idaho State Police which provides a patrol captain and three regional sergeants to administer the patrol.

Section 2 analyzes ASAP patrol activity. In 1975, six, of 23.1 percent of the Alcohol Emphasis Patrol terminated or transferred to other law enforcement agencies.

Actual manpower utilization during 1975 differed little from the planned distribution by time of day. The 8 a.m. - 8 p.m. period had an excessive representation of patrol hours by the Alcohol Emphasis Patrol and the 8 p.m. - 8 a.m. period showed a deficient representation in patrol hours. This variation held true when we compared the distribution of alcohol-related accidents by time of day to Alcohol Emphasis Patrol deployment by time of day.

When comparing the distribution of alcohol-related accidents by day of week to Alcohol Emphasis Patrol deployment by day of week, we noted no significant differences.

Section 2.2 analyzes the relationship between ASAP patrol activity and accident reduction. There was a significant increase in the percentage of people that believe their chance of arrest for DWI is greater than 50 percent.

Section 2.4 provides a comparison of DWI offenders by the Alcohol Emphasis Patrol and the Idaho State Police to fatally injured drivers, the average Idaho Driver and Baseline DWI offenders.

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1.0 INTRODUCTION

This report is an analysis of the full three operational years of the Idaho Alcohol Safety Action Project (ASAP). This is the fourth in a series of annual analytic studies which are written in an effort to determine the effects of the project in Idaho. The first series of studies dealt with only six months of operational data collected during the start-up period. The present series of studies will primarily analyze the data collected during 1973, 1974 and 1975. Data previous to 1973 is mainly indicative of the drinker-driver situation before the ASAP began impacting the community towards the close of 1972.

The Idaho ASAP began in June of 1972 and was in full operation by September of 1972. Twelve countermeasures, as listed below, were utilized in the design of the project:

- Project Management
- Enforcement
- Judicial and Prosecution Assistance
- Expert Witness/Chemical Laboratory
- Education/Re-education
- Rehabilitation
- Driver Testing, Licensing and Regulation
- Public Information and Education
- Legislative and Regulatory
- Medical Advisory Board
- Alcohol Data Bank
- Information Services

The Prosecution Assistance function was intended to aid monetarily in the prosecution of DWI cases, but was discontinued due to resistance from the prosecution office. A team of twelve presentence investigators was created and functional throughout the project period. These investigators reviewed the background of convicted DWI's and presented recommendations on sentencing and rehabilitation.

The medical advisory board, intended to develop criteria for withholding licenses for medical reasons, was not implemented and was also discontinued. This function is carried out by the Idaho Licensing sub-division of the Department of Law Enforcement.

All other countermeasures were successfully implemented and functioned throughout the operational project period.

In June of 1975, after three and one-half years of operation, the full federal funding of the program expired and the program was continued, although in a somewhat modified version. The Public Information and Education countermeasure was discontinued. The ASAP enforcement patrol of twenty six specially trained state policemen and the presentence investigation team and the ASAP project management continued, using state funding drawn from a three percent state liquor tax surcharge. The Alcohol Data Bank and the Evaluation Information System were continued under a special ASAP evaluation extension in order to report on the effectiveness of the ASAP in its modified version. The remainder of the countermeasure functions were continued in the state agencies in which they originally evolved.

In June of 1976, the ASAP project management will be discontinued. However, two countermeasures which are perhaps the most effective will be continued. The team of pre-sentence investigators will be continued under the Probation and Parole Department and under this agency their function will be extended to criminal as well as DWI offenses. The ASAP Alcohol Emphasis Patrol will be continued as long as their funding is renewed each year by the legislature.

The final post-ASAP analytic studies will be completed in June of 1977.

This study is Analytic Study Number 3 of the series, An Analysis of ASAP Patrol Activity,

Prior to the implementation of the ASAP Emphasis Patrol in June of 1972, the Idaho State Police had a patrolling force of 104 men. It was possible during early morning hours to have no State Police on duty in many areas of the state.

As a result of Idaho's participation in the ASAP project, the Idaho State Police patrolling force has increased 25% and the entire State Police force has been rescheduled, so there are always State Police on duty.

The Alcohol Emphasis Patrol (AEP) is a 26-man force specially trained in the detection and apprehension of drinking drivers. Each man received the standard State Police training as well. These men operate from cars marked like regular State Police cars. Because of the increased emphasis on the drinker-driver by the AEP; the regular State Patrol, the county sheriffs, and the city police of Idaho have also increased their emphasis on drinker-driver apprehension. ASAP patrol activity has contributed to public awareness of the Idaho Alcohol Safety Action Project. A major point of interest throughout Idaho has been the number of State Police that ASAP added to the force.

This report describes the special ASAP patrol enforcement countermeasure operation and strategies. The report also attempts to explore relationships between levels of enforcement and levels of accident occurrence. Demographic profiles of arrested DWI's are compared with profiles of fatally injured drivers to determine whether the target group is the same group at which enforcement is aimed. In addition, the efficiency of the patrol and its effect on other patrol activity in the state is discussed.

1.1 DESCRIPTION OF THE ASAP COMMUNITY

In order to understand the nature of the drinking driving problem with which the Idaho ASAP must deal, an understanding of the characteristics of the community is desirable. Exhibit 1.1-1 presents a summary of community descriptor data relating to the Idaho ASAP. Other less tangible aspects of the Idaho ASAP community are also described in this section.

Idaho is a largely rural state of approximately five hundred miles in length and three hundred miles in width. Most of the inhabitants live in population centers under 50,000. There are approximately 56,000 miles of roads in the state with only 142 state patrolmen in addition to local enforcement to provide traffic have enforcement. Many of the state's roads are through winding mountainous areas which are slick with ice and snow in the winter. There is a migrant farm labor population during the summer, along with Indian reservations and military bases which account for a disproportionate number of DWI offenders. During the recreational season, normal traffic is swelled with a large tourist population. All nation.

Against these factors, the Idaho ASAP is attempting to reduce alcohol-related fatality and injury accidents, but there are many obstacles. The extent of the drinking problem is severe with the average positive BAC (before ASAP) being 15 percent. It is illegal in Idaho to publicly identify the BAC of a fatally injured driver, so that this must be done indirectly with many BAC samples going unmatched, unidentified, not submitted, taken after four hours from the time of the accident, or contaminated with embalming fluid. Less than 50 percent of the fatal blood samples are received. Most recordkeeping is done manually and the few automated systems that do exist keep only that data required for internal use, and much of this is entered with no data verification. The drinking age was lowered to 19 in July of 1972. There is no lesser violation to which a DWI can be plea bargained down to and still retain its indication as an alcohol-involved arrest. A DWI is routinely treated as a misdemeanor. Subsequent DWI violations may be treated as a felony, but this requires special action on the part of the prosecutor. Withheld judgements are not considered to be convictions by the court, and they are not always included in the driver's record.

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According to current statutes, it is legal to have an open container of beer in the driver's compartment, because the amount of alcohol in beer does not meet the definition of an alcoholic beverage. These factors combine to make alcohol involvement a large factor in accidents.

In order to operate the ASAP project on a statewide basis, Idaho has been divided into three administrative regions with a functional coordinator reporting to Project Management in each region. These regional coordinators act as a localized management in each region and provide aid to the separate countermeasures in carrying out their operations. In addition, these coordinators oversee the roadside surveys and address civic groups and various community organizations, thereby aiding in the dissemination of information regarding ASAP goals and activities and soliciting public support.

EXHIBIT 1.1-1 ASAP COMMUNITY DESCRIPTOR

Annual Alcohol Consumption Rate	1973	1974	1975	1973-1974 Variance	1974-1975 Variance
Beer (Million Gallons)	17.5	18.9	17 r		
Wine (Thousand Gallons)	935	975	17.5	8.0%	- 7.4%
Liquor (Thousand Gallons)	977	1032	1114	4.4%	14.3%
Equivalent Drinks (Millions)*	300	321	1131	5.6%	9.6%
Per Capita Drink Consumption**	386.6		319	7.0%	6%
	300.0	412.1	386.6	6.4%	- 6.2%
Licensed Drivers (Thousands)	540	551	567	2.0%	2.9%
Fuel Consumption (Million Gallons)	469	443	486	-5.5%	9.7%
Miles Driven (Billion Miles)	5.455	5.387	5.828	-1.2%	8.2%
Accidents					
Fatal Accidents	277	281	277		
A/R Fatal Accidents	92	93	237	1.4%	-15.7%
Fatalities	349	327	89	1.1%	- 4.3%
Injury Accidents	7533	7234	281	-6.3%	-14.1%
A/R Injury Accidents	910	977	7362	-4.0%	- 1.8%
,	310	9//	766	7.4%	-21.6%
ASAP Data - H Tables					
DWI Arrests	6892	7719	6504	10.00	
DWI Convictions	5995 ·	7719	6504	12.0%	-15.7%
	(87.2%)		5644	18.7%	-20.7%
BAC's Taken	2965	(92.2%)	(86.8%)		
		3652	3235	23.2%	-11.4%
Presentence Investigations	(43.2%)	(51.3%)	(49.7%)		
. resourcemen turanstrations	2749	2991	2545	8.8%	-14.9%
	(45,8%)	(42.0%)	(39.1%)		-

Equivalent Drinks: 12 oz. beer = 4 oz. wine - 1.5 oz. liquor
Based on population respectively for 1973, 1974 and 1975 of 776,000, 779,000, and 825,000.

ASAP project personnel consists of a project director, an assistant project director, and three regional coordinators. A functional coordinator for each countermeasure represents the agency which is directly involved in the countermeasure activities. Active countermeasures are Evaluation, Public Information, Project Management, Court Alcohol School (Alcohol Safety School), Driver Testing and Licensing, Driver Regulation, Magistrate Training, Alcohol Emphasis Patrol, Social Rehabilitation, Chemical Laboratory and Expert Witness, and the Alcohol Data Bank. Inactive countermeasures are the Medical Advisory Board and Prosecution Assistance.

The Chemical Laboratory is operated by the Idaho State Department of Health and Welfare. Public Information and Education has been subcontracted to an advertising agency. The Court Alcohol School is operated by the State Department of Education on a self-paying basis. Driver Testing, Licensing, and Regulation, along with Legal Advisory, are fulfilled by the State Department of Law Enforcement. The 26 man Alcohol Emphasis Patrol is managed by the Idaho State Police. Eleven presentence investigators and a supervisor are directed by a functional coordinator from the Supreme Court. Rehabilitation is provided by the Court Alcohol School established as an ASAP countermeasure, the Driver Improvement Counseling Program operated by the driver licensing division of the State Department of Law Enforcement, Defensive Driving Course and other rehabilitation agencies, such as Halfway House, AA, private hospitals, Mental Health facilities, and other available rehabilitation in each region.

Because of the lack of centralized administration of the State's rehabilitation facilities, and the independent operating characteristics of the local judiciaries, no attempt has been made to initiate control groups for the purpose of evaluating rehabilitation treatment modalities.

1.2 EVALUATION INFORMATION SYSTEM

The evaluation of the Idaho ASAP was contracted to a private systems development corporation. In order to accomplish the objectives of evaluation, an Evaluation Information System was developed. This system is composed of an Alcohol Data Bank, the computer programs which create and maintain it; and the evaluation computer programs which create Appendix H quarterly and annual tables and data analyses included in the analytic studies. In addition, the project evaluators prepare the data collected from various agencies for data entry to the Alcohol Data Bank and aid Project Management in decision-making activities by providing information and special reports on an on-request basis.

When the ASAP program was in the planning stage, alcohol-related data was gathered by many different agencies for internal use in a multitude of data organization techniques. In order to facilitate the integration of data concerning each individual who came in contact with the ASAP system, the Alcohol Data Bank was established. This file acts as a central repository of data concerning each individual and is organized so that pertinent data can be easily retrieved by authorized personnel to form a case history of an individual. Data from participating agencies is collected on an on-going basis as subjects have initial or repeat contacts with an agency.

Exhibit 1.2-1 Summarizes the data elements collected from various agencies within the ASAP system. All elements taken together constitute a very complete picture of the history and present status of any individual in the system. In practice, defendant data is complete only to the extent that it is collected by each agency. For instance, demographic data is available only for valid, licensed drivers. Out-of-state drivers and unlicensed drivers do, in fact, account for a significant number of drivers arrested for DWI. Other demographic data such as family income, education, employment status, occupation, religious preference, etc., is collected by the presentence investigator in approximately ninety percent of the investigations. Since presentence investigations are requested in 42% of the convictions, then this data is present approximately 37.8% of the time. If a driver has recently moved to Idaho, then his driver history folder will not contain his past violations. A driver arrested for DWI who forfeits bond will not have a record of the arrest in the driver file unless the arrest was made by the Idaho State Police. Courts are only required to record convictions, and because withheld judgments are not considered to be convictions by the court, they go unreported unless the disposition was recorded by the Idaho State Police or a presentence investigator and reported to the Alcohol Data Bank.

As with all computer systems, the data that comes out is only as good as the data that goes in, and the Evaluation Information System is no exception. The pre-ASAP baseline data that was collected going back to the year 1969 reflects to a large extent the recent upgrades made to Idaho's traffic records data. The Department of Law Enforcement began recording DWI convictions statewide in 1969. Some records of withheld judgments were submitted by the courts, but none were entered on the driver records file. In 1969, only accidents that occurred on State and Federal highways were recorded centrally. In 1970, all accidents

1.2 EVALUATION INFORMATION SYSTEM (Continued)

were recorded by the locations in which they occurred, but the license numbers of the participants were not recorded. In 1972, the Department of Highways constructed a manual index from police and citizen's accident reports to connect driver license numbers with accident report numbers. The index was built to gain statistical data from the accident changed format several times, further complicating the matching process. In April 1972, the Department of Law Enforcement began its own accident index and the Department of Highways abandoned its accident index, except for the copy retained by ASAP. Using the combined accident index against the Alcohol Data Bank and accident segments are added whenever the accidents requested from the baseline history tape were added to the Alcohol Data Bank.

The extent of alcohol involvement is understated for the Pre-ASAP period due to the small number of blood alcohol tests taken and the low sample rate of autopsy BACs. The Had Been Drinking indicators on traffic tickets are seldom used by officers because they may become personally liable if they cannot furnish proof of the implication of drinking. Referrals to rehabilitation agencies are recorded when they are made by an ASAP presentence investigator. The actual attendance of the rehab is currently only known in the case of Court Alcohol School. In other cases, there are no records of no-shows, drops, or satisfactory completion.

EXHIBIT 1.2-1

ALCOHOL DATA BANK DATA ELEMENTS

Information	Source
Subject Demographic Data	DLE Driver Licensing Data
License Suspension Data	DLE Driver History File
Driver Improvement Counseling Program Data	DLE Driver History File
Blood Alcohol Test Data	DH&W Chem Lab
Court Alcohol Attendance Data	Department of Education
Autopsy BAC Data	DH&W Chem Lab
BAC Test Refusal Data	DLE Driver Records
Accident Data	DLE Accident History
Driving Violation History	DLE Driver History File
DWI Conviction Data	DLE Driver History File
DWI Trial Data	Presentence Investigator
DWI Arrest Data	Idaho State Police
Probation Follow-Up Data	Presentence Investigator
Records Check History	Presentence Investigator
Defendant Interview Data	Presentence Investigator
Family Interview Data	Presentence Investigator
Rehab Agency Contact Data	Presentence Investigator
Criminal Investigation Division Data	Presentence Investigator
Employer Interview	Presentence Investigator
Drinker Classification	Presentence Investigator

2.0 ANALYSIS OF ASAP PATROL ACTIVITY

The 26-man Alcohol Emphasis Patrol is faced with the task of patrolling the entire State of Idaho. In order to accomplish this, the patrol is broken up into three sections with one section headquartered in each ASAP management region. Although the number of miles of roadway in the state totals over 56,000, the population of Idaho centers around three major clusters, one in each management region. This allows the patrol to center its activity near or between the more populous sections where the majority of alcohol-related accidents occur.

Because the patrol units must be spread over such large areas of the state, it is impractical to use specialized techniques developed and successfully used in other states such as mobile blood alcohol testing vans or centralized arresting or booking units for efficient processing of DWI's. Pre-arrest breath testing devices are not used in Idaho simply because there are no statutes which give the officer the authority to administer such a test, nor does it appear that the political climate is right for passing such a law. Video tape is available in a few enforcement centers. However, video tape is not part of the standard arrest procedures.

Although no special techniques are used, the ASAP patrol continues to arrest over two and one-half times the number of DWI's projected, and the conviction rate of DWI cases is at the 90% level.

2.1 ASAP ARREST PROCEDURE AND STRATEGY

The purpose of this section is to provide a backdrop against which Idaho ASAP Alcohol Emphasis Patrol (AEP) activities may be viewed. The selection and training of the original members of the Alcohol Emphasis Patrol unit and the selection and training of replacement personnel are briefly described. General operating characteristics, arrest procedures, and deployment strategies are also discussed.

2.1.1 SELECTION AND TRAINING OF ASAP PERSONNEL

Since there were six personnel turnovers among the 26 AEP officers in 1975 (no personnel turnovers occurred among the three regional sergeants or the Captain of the AEP), attention will also be given to the selection and training of replacements.

2.1.1.1 SELECTION AND TRAINING OF THE ORIGINAL AEP UNIT

The original AEP unit was composed of seven experienced Idaho state Police troopers and nineteen new recruits. These men were hand-picked by the AEP Captain based on personal interviews and entrance examination scores.

The 26 members of the AEP and their three regional sergeants were given an intensive sixty-hour course on DWI arrest procedures, collection of evidence, etc., in addition to their regular POST training.

This course was conducted by instructors from the International Association of Chiefs of Police. Both pre- and post-instructional tests were administered. A statistical analysis of these tests was performed and is documented in Evaluation Report DRC-72-001-I, dated August 1, 1972. An abstract of that report follows.

2.1.1.1 SELECTION AND TRAINING OF THE ORIGINAL AEP UNIT (Continued)

STATISTICAL ANALYSIS OF ALCOHOL EMPHASIS PATROL TRAINING--ABSTRACT

This report concerns the evaluation of the Alcohol Emphasis Patrol Training Countermeasure. Under this countermeasure, 44 policemen (26 Alcohol Emphasis Patrolmen and 18 regular Idaho State Policemen) received sixty hours of specialized training directed at the problem drinker-driver. This course was administered by instructors from the International Association of Chiefs of Police.

Evaluation of this countermeasure involves analysis of "pre" and "post" test scores to determine if the participants learned from the course and, of so, was this increase in knowledge statistically significant.

The average pre-test score for the 26 Alcohol Emphasis Patrolmen was 34.69. The average post-test score was 39.27, an increase of 4.58 points or 13%. Using Fisher's "t" test for determining significant differences between sample means, this increase was proven to be statistically significant with a 99% level of confidence.

The 13% increase in knowledge fell short of the targeted 25% increase; however, a background check of the 26 patrolmen tested revealed that they had a combined experience background of 53 years in police work. That is an average of 2.03 years per man. In light of this fact, the 13% increase obtained is a notable achievement.

Forty-four policemen successfully completed the course. This was four more than the number targeted. The total cost of the training, including the salaries of the policemen attending, was \$9,975.75, or \$226.72 per man. Relating this cost to the knowledge gained, the cost of bringing a new recruit to the knowledge level of an experienced officer was only \$226.72.

2.1.1.2 SELECTION AND TRAINING OF AEP REPLACEMENTS

When AEP officers were transferred to other regular ISP force or left the force, replacements had to be selected quickly in order to maintain the full patrol strength. The choice of officers who might be replacements is limited; therefore, when the vacancies occurred in 1975, the replacements were selected through negotiations of the AEP commanding officer and his superior. These selections were based primarily on the AEP commanding officer's judgment and his negotiation skills.

The turnover rates of Alcohol Emphasis Patrol personnel are presented in Exhibit 2.1-1. We noted a 23.1% turnover rate in personnel in 1975 To date, 13 of the original AEP force have transferred to the regular ISP force or terminated. Replacements did not go through the same training as the original force.

To date, only 50% of the original force remains. The experience level of the Alcohol Emphasis Patrol force has decreased because the replacements have little or no prior police experience.

2.1.1.2 SELECTION AND TRAINING OF AEP REPLACEMENTS (Continued)

EXHIBIT 2.1-1 ALCOHOL EMPHASIS PATROL TURNOVER ANALYSIS

	1972	1973	1974	1975
Patrolmen Turnover Turnover % Original Force Left	26 2 7.7% 24	26 3 11.5% 21	26 6 23.1% 15	26 6 23.1% 13
% Original Force Left	92.3%	80.8%	57.7%	50%

2.1.1.3 GENERAL OPERATION CHARACTERISTICS

The Idaho ASAP Alcohol Emphasis Patrol operates as a sub-unit of the Idaho State Police. The AEP officers have the same responsibilities and authority as regular Idaho State Police officers. The following data describes the general operating characteristics of the Alcohol Emphasis Patrol.

Personnel Assignment

Full-time assignments are used. Individual officers may work overtime if required; however, this is not part of the operating plan.

Vehicle

Vehicles marked and equipped identically to regular Idaho State Police vehicles are used.

Type of Unit

One-man patrol units are employed.

Patrol Unit Density

Due to the large geographic area patrolled, patrol unit densities are normally single units. The patrol is allowed the flexibility to assign multiple units at the Regional ASAP Sergeant's discretion.

Patrol Area

The average patrol route involves approximately 150 patrol miles per shift. These are typically State and Federal highways with occasional patrol on county roads. The land use characteristics in these areas are generally rural and agricultural. Approximately eighty-seven percent of all Idaho fatal accidents occur on rural roads.

Duration

Patrol duration is normally nine hours per day, with one hour off for lunch. Actual hours expended exceed this amount by 1.16 hours per day.

Time Frame

The Alcohol Emphasis Patrol is deployed in the shifts as follows:

Shift 1 - 0900 to 1800 = 19% of available force

Shift 2 - 1600 to 0100 = 34% of available force

Shift 3 - 1800 to 0300 = 47% of available force

ic lests

BAC tests are taken at the site of arrest, using portable (SM-7) Mobile Breath Alcohol Test kits (MOBAT).

2.1.1.2 SELECTION AND TRAINING OF AEP REPLACEMENTS (Continued)

Physical Coordination Tests

Physical coordination tests are conducted at the site of arrest. The following tests are used:

- Balance
- Walking
- Finger to Nose
- Pick Up

Disposition of Arrestee

The arrestee is transported to the nearest law enforcement complex where he may elect to be released on bail or be incarcertated.

2.1.2 DWI ARREST PROCEDURES

DWI arrest procedures for the Alcohol Emphasis Patrol unit are the same as those used by the regular Idaho State Police force. A brief description of this procedure is contained in this section. For a detailed description of Idaho State Police DWI arrest procedures, the reader is referred to Section 3.6 of the Idaho ASAP Detail Plan.

Arrest Procedure

The ASAP officer when on patrol observes a DWI--he stops the vehicle. The officer observes the physical condition and gives the subject the tests from the Alcoholic Influence Report Form. At this time, the officer determines if he will arrest, orally warm, or arrest for a lesser offense.

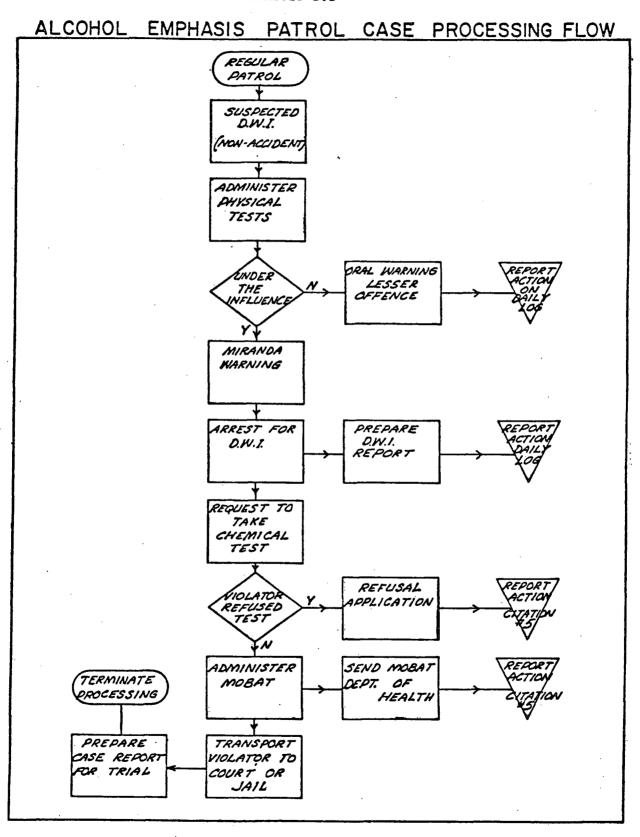
He then arrests the violator, gives the Miranda Warning, and gets a chemical test from the offender. Upon refusal, the officer reads the offender 49-352, Refusal Code, and makes note of refusal on the citation for the Headquarters file. Upon refusal, an Affidavit of Refusal will be filled out, notarized, and sent to Boise.

Upon administering a MOBAT (Mobile Breath Alcohol Test), the finished MOBAT is mailed to the nearest Department of Environmental and Community Services Laboratory.

MOBAT taken, not taken, refused, or not offered is noted on citation. The suspect is transported to county jail, is either submitted to bail or jail. The officer then prepares his case for court.

A visual flow chart of this process is presented in Exhibit 2.1-2.

EXHIBIT 2.1-2



2.1.3 CURRENT DEPLOYMENT STRATEGY DESCRIPTION

The current AEP deployment strategy is contained in this section. Those persons desiring more detailed information are referred to Section 3.6.4.4.3.1 of the Idaho ASAP Detailed Plan.

The Alcohol Emphasis Patrol operates on a rural patrol basis where 86.9% of all fatal accidents occur. The AEP is deployed in areas with a high level of alcohol-related traffic incidents. These were determined by an analysis of the times and locations of past alcohol-related traffic accidents and citations.

2.1.3.1 REGIONAL DEPLOYMENT

Based upon the high accident locations (see Exhibit 2.1-3) in each region, the twenty-six ASAP patrolmen are deployed as follows:

One sergeant and eight troopers are assigned to Region I. The sergeant and five troopers are stationed at Coeur d'Alene. Three troopers are stationed at Lewiston.

One sergeant and eight troopers are assigned in Region II and are stationed in the Boise Valley area.

One sergeant and ten troopers are stationed in Region III. The sergeant and five troopers live in Twin Falls; three troopers in Pocatello; and two troopers at Idaho Falls.

EXHIBIT 2.1-3

NUMBER OF MEN PER REGION

Basis for Deployment	Region I	Region II	Region III
According to DWI (1971) According to Accidents	6.76	4.94	14.3
Combined DWI and Accident Rates	7.54 7.59	7.02 6.78	11.44 11.61
Officers Assigned	8	8	10

Alcohol Emphasis Patrolmen have been deployed in accordance with the combined DWI and accident rates shown in the above table, except one man was moved from Region III to Region II because of the population density in Region II.

2.1.3.2 ALCOHOL EMPHASIS PATROL DEPLOYMENT BY TIME OF DAY

The Alcohol Emphasis Patrol is deployed in three shifts as follows:

- 1. Shift 1 0900 to 1800 = 19% of available force
- 2. Shift 2 1600 to 0100 = 34% of available force
- 3. Shift 3 = 1800 to 0300 = 47% of available force

Planned and actual manpower distributions for 1974 and 1975 are presented in Exhibit 2.1-4.

EXHIBIT 2.1-4
ALCOHOL EMPHASIS PATROL MANPOWER DISTRIBUTION

Time of Day	Plan	Actual Hours	1974 Actual %	Cum %	Actual Hours	1975 Actual	Cum %
4 am - 4 pm	.147	9,019	. 154	.154	9,647	. 166	.166
4 pm - 8 pm	.853	17,362	. 296	.450	17,412	.299	.465
8 pm - M	.853	19,643	. 335	.785	18,674	.321	.786
M - 4 am	.853	12,630	.215	1.000	12,501	.215	1.000
		58,654			58,254		:

EXHIBIT 2.1-5
IDAHO FATAL AND INJURY A/R ACCIDENTS
BY TIME OF DAY

	1972				1973			1974			1975		
Time of Day	A/R	8	Cum %	A/R	%	Cum %	A/R	%	Cum %	A/R	%	Cum %	
Noon - 4 pm	79	.078	.078	82	.082	.082	91	.085	.085	73	.085	.085	
4 pm - 8 pm	225	.223	.301	206	. 206	.288	192	.180	.265	148	.173	. 258	
8 pm - Midnight	309	.306	.607	309	.309	.597	361	.339	.604	204	.238	.496	
Midnight - 4 am	322	.319	.926	328	.328	.925	338	.317	.921	256	. 299	.795	
4 am - 8 am	39	039	.965	40	.040	.965	47	.045	.966	62	.073	.868	
8 am - Noon	30	.030	.995	25	.025	.990	29	.027	.993	40	.046	.914	
Unknown	6	.006	1.000	10	.010	1.000	8	.007	1.000	72	.084	1.000	
Total	1010	•		1000	٠		1066			855			

KS Values for P = .05

 1972 vs
 1973
 .0606

 1972 vs
 1974
 .0596

 1973 vs
 1974
 .0599

 1972 vs
 1975
 .0632

 1974 vs
 1975
 .0624

2.1.3.2 ALCOHOL EMPHASIS PATROL DEPLOYMENT BY TIME OF DAY (Continued)

The basis for deployment by time of day is the time of day when alcohol-related accidents occurred based on Fatal Accidents. As reported in Exhibit 2.1-5, the periods of highest alcohol involvement were from 8 pm to midnight and from midnight to 4 am. The next period of moderate involvement was from 4 pm to 8 pm. In order to patrol during these times, the patrol would have to be deployed in twelve-hour shifts. This was not possible. The basic patrol period was from 1800 or 6 pm to 0300 or 3 am.

We compared and tested the distribution of alcohol-related accidents for 1972, 1973, 1974, and 1975. We utilized the Kolmogorov-Smirnov technique described in Section 3.3. The results of these tests are also presented in Exhibit 2.1-5. In comparing 1974 and 1975, there is a significant decrease in the number of A/R fatal and injury accidents in the 8 pm to midnight time period. There is also a significant increase in the "unknown" time period accident class.

We also compared and tested the distribution of Alcohol Emphasis Patrol hours by time of day. We utilized the Kolmogorov-Smirnov technique described in Section 3.3. The results of these tests are presented in Exhibit 2.1-6. We found no significant differences in the distribution by time of day of AEP patrol hours.

EXHIBIT 2.1-6
ALCOHOL EMPHASIS PATROL HOURS DISTRIBUTION
BY TIME OF DAY

		19	74		1975	
	Patrol Hours	%	Cum %	Patrol Hours	%	Cum %
Noon - 4 pm	6186	.1055	.1055	5888	.101	.101
4 pm - 8 pm	17362	.2960	.4015	17412	. 299	.400
8 pm - Midnight	19643	.3349	.7364	18764	.322	.722
Midnight - 4 am	12630	.2153	.9517	12501	. 214	.936
4 am - 8 am	651	.0101	.9628	482	.008	.944
8 am - Noon	2182	.0372	1.0000	3277	.056	1.000
	58654			58234		

KS @ P.05 = .007

2.1.3.2 ALCOHOL EMPHASIS PATROL DEPLOYMENT BY TIME OF DAY (Continued)

Comparing 1974 and 1975 patrol hour distributions, there has been a decrease in hours from 8 pm to midnight, and an increase in patrol hours in the 8 am to noon slot because of the schedule change in July, 1975.

We compared and tested the 1975 distributions of alcohol-related accidents and Alcohol Emphasis Patrol patrol hours. We utilized the Kolmogorov-Smirnov technique described in Section 3.3. These results are presented in Exhibit 2.1-7. We noted a significant increase or overabundance in the deployment of AEP personnel during the 4 pm - 8 pm time period. A significant decrease or lack of AEP personnel being deployed during the midnight to 4 am time period was noted.

EXHIBIT 2.1-7
A/R ACCIDENTS VS PATROL HOURS

•			Accidents		Patrol Hours		
		%	Cum %		- %	Cum %	
Noon - 4 pm	73	.085	.085	5,888	.101	.101	
4 pm - 8 pm	148	.173	.258	17,412	.299	.400	
8 pm - Midnight	204	.238	.496	18,764	.322	.722	
Midnight - 4 am	256	. 299	.795	12,501	.214	.936	
4 am - 8 am	62	.073	.868	482	.008	.944	
8 am - Noon	40	.046	.914	3,277	.056	1.000	
Unknown	72	.084	1.000	0	.000	1.000	
Total	855			58,234			

^{*} KS for P = .05 is .047

^{**}KS for P = .01 is .056

2.1.3.3. ALCOHOL EMPHASIS PATROL DEPLOYMENT BY DAY OF WEEK

A normal work week consists of forty hours of effort less fringe benefits, such as vacation, sick leave, etc. If an officer worked forty hours per week in five 8-hour shifts, he could expend 40 percent of his time on Friday and Saturday nights. Based on Exhibit 2.1-8, Fatal and Injury Accidents by Day of Week, it appears that an optimum deployment by day of week would dictate a Thursday through Monday work week. However, current Idaho State Police policy and Idaho State Personnel Commission policy establish that an officer's work schedule shall be four periods of six days on and two days off followed by one period of six days on and four days off.

We compared and tested the distribution of alcohol-related accidents by day of week. We utilized the Kolmogorov-Smirnov technique described in Section 3.3. The results of these tests are presented in Exhibit 2.1-8. We noted no significant variation in the distribution of alcohol-related accidents by day of week.

We wanted to compare and test the distribution of Alcohol Emphasis Patrol patrol hours by day of week and the distribution of alcohol-related accidents to the deployment distribution by day of week. However, this data was not readily available and, therefore, the analysis is not included in this study.

2.1.4 SPECIAL ASPECTS

No special equipment of procedures are employed by the Alcohol Emphasis Patrol. Because of the large geographic area covered by the Alcohol Emphasis Patrol, the use of specialized techniques, such as mobile blood alcohol testing vans or centralized booking units are impractical.

The only special aspect to be noted is that the Alcohol Emphasis Patrol does not patrol in cities of over 5,000 population, but rather patrols rural highways. This aspect is special only in comparison to other ASAP's since the regular State Police also patrol rural highways.

Geographically, Idaho is a large area (83,557 square miles) with 56,049 miles of road. The population of Idaho is 712,267 (all figures are 1970). Thus, for a small number of people, it has large physical size. This low population density means that the ASAP patrol must travel a great distance to achieve reasonable exposure to the driving public.

EXHIBIT 2.1-8 IDAHO FATAL AND INJURY ACCIDENTS BY DAY OF WEEK

, , , , , , , , , , , , , , , , , , , ,		1	972		T	197	73	
Day of Week	Total	A/R	%	Cum %	Total	A/R	%	Cum %
Monday	1068	96	.094	.095	1019	89	.089	.089
Tuesday	1140	81	.080	.174	1058	99	.099	.188
Wednesday	1008	91	.089	. 263	1010	91	.091	.279
Thursday	1091	108	.106	. 369	1049	112	.112	.391
Friday	1384	155	.152	.521	1235	158	.158	.549
Saturday	1511	279	.274	.795	1388	246	.246	. 795
Sunday	1188	208	.204	1.000	1056	205	.205	1.000
TOTAL	8390	1018			7815	1000		

		19	74			19	75	
Day of Week	Total	A/R _.	%	Cum %	Total	A/R	%	Cum %
Monday	964	82	.076	.076	969	87	.102	.102
Tuesday	977	113	.106	.182	966	86	.100	.202
Wednesday	1003	110	.103	. 286 .	914	94	.110	.312
Thursday	1023	121	.113	. 399	1195	123	.144	.456
Friday	1140	163	.152	.552	1346	177	.207	.663
Saturday	1307	280	.262	.815	1137	177	.207	.870
Sunday	1001	197	.184	1.000	1019	108	.126	.996
Unknown		0			53	3	.004	1,000
TOTAL	7415	1066			7599	855		

KS @ P .05

1972 vs 1973 = .0606 1972 vs 1974 = .0596 1973 vs 1974 = .0599

1972 vs 1975 = .0632 1973 vs 1975 = .0633 1974 vs 1975 = .0634

2.2 RELATIONSHIP BETWEEN ASAP PATROL ACTIVITY AND ACCIDENT REDUCTIONS

2.2.1 CROSS CORRELATIONS AS LAG CORRELATIONS

NHTSA guidelines for this section of the analytical study suggest correlating changes in ultimate performance measures with changes in patrol activity in each countermeasure evaluation area. Relationships may exist between evaluation and performance measures; however, these relationships may not be simple enough to be observed by cross correlations. For this reason, lagged cross correlations (also known as cross spectral correlations) of evaluation and performance measures were performed. Lagged correlations differ from cross correlations in that an observation of one variable is compared with a later observation in another variable. Lagged correlations will detect if the number of arrests in one time period have an effect on crashes in a later time period.

In this study, monthly data for the following crash subsets were lag correlated with monthly DWI arrest volumes.

- Fatal and Injury Crashes
- Injury Crashes
- Fatal Crashes
- Single Vehicle Fatal & Injury Crashes
- Single Vehicle Injury Crashes
- Single Vehicle Fatal Crashes
- Weekend Fatal & Injury Crashes
- Weekend Injury Crashes
- Weekend Fatal Crashes
- Nighttime Fatal & Injury Crashes
- Nighttime Injury Crashes
- Nighttime Fatal Crashes

2.2.2 RESULTS OF CORRELATION OF LEVELS OF ARRESTS VERSUS LEVELS OF ACCIDENT OCCURRENCE

The results of the lag correlation of various crash subsets with DWI and volumes are presented in Exhibit 2.2-1. Significant correlations were found for the single vehicle injury crash and single vehicle injury and fatal crash subsets for lags of one, two and three periods. These were significant at P <.01 for lags one and two and P <.05 for lag 3. Significant correlations were also observed for total fatal and injury crashes or the injury crash subset with P <.05 for lags one and two. A significant P <.05 correlation was observed for the Weekend Fatal and Injury Crash subset for lag period one.

All relationships identified were positive. One possible explanation is that both arrests and accidents are increasing at a steady rate, thus showing a positive relationship. If this is the case, then there does not seem to be any significant relationship between DWI arrest and crash levels.

2.2.2 RESULTS OF CORRELATION OF LEVELS OF ARRESTS VERSUS LEVELS OF ACCIDENT OCCURRENCE (Continued)

Log correlations were not re-calculated in 1975. Arrest levels were down 7.5 percent in 1975 as compared to 1974. At the same time, the number of accidents during high alcohol imvolvement periods decreased. Any correlations resulting from further analysis would tend to show that accidents decrease when arrest levels decrease. Although no causal relationship is implied, this result is opposed to general findings of the other ASAP projects.

EXHIBIT 2.2-1

ARREST/CRASH SUBSETS LAG CORRELATION TABLE

Degrees of Freedom	71	70	69	68	67	66	65	64	63	62	61	60
Lag Periods	1	2	3	4	5	6	7	8	9	10	11	12
Crash Category	1					•						12
Fatal & Injury	* .280	*.240	.201	.109	054	009	001	014	053	127	112	066
Injury	* .277	* 238	.200	.108	049	003	003	019	058	136	121	074
Fata1	.164	.128	.101	051	066	053	048	059	048	018	017	011
Single Vehicle Fatal & Injury	* *. 345	**.312	*. 286	.210	.158	.121	.111	.108	085	046	075	.100
Single Vehicle Injury	* * 350	** 318	*. 296	.219	.162	.122	.114	.109	088	047	071	098
Single Vehicle Fatal	.181	.129	078	034	060	055	038	053	022	015	090	096
Weekend Fatal & Injury	*.232	.142	.121	019	019	035	016	029	093	176	116	069
Weekend Injury	.217	.129	.104	005	002	017	034	048	116	202	140	089
Weekend Fatal	.225	.153	.179	.123	.150	.148	.109	096	.120	.119	.138	.133
Nighttime Fatal & Injury	.175	.113	082	006	037	.060	056	065	086	116	084	028
Nighttime Injury	.171	.111	082	008	037	061	059	069	092	116	079	019
Nighttime Fatal	083	.029	009	037	021	037	059	055		ł	105	125
										-	-	

^{*} P .01 **P .05

2.2.3 AWARENESS OF RISK OF ARREST FOR DRIVING WHILE INTOXICATED

To obtain information on the public's perceived risk of arrest for driving while intoxicated, household survey respondents were asked, "If you drive after drinking too much, what are your chances of being arrested by the police?"

The results of the 1972, 1973, 1974 and 1975 household surveys are presented in Exhibit 2.2. We compared and tested the perception percentages for significance using a test for the significance of the difference between percentages described in Section 3.1. The results of these tests are presented in Exhibit 2.2-3 and 2.2-4.

Comparison of 1974 and 1975 results show a significant increase in the percentages of respondents that believe their chance of arrest is greater than 50 percent ($P \le .01$, CR = 4.90).

EXHIBIT 2.2-2
RISK OF ARREST PERCEIVED BY RESPONDENTS
IN 1972, 1973, 1974 AND 1975 HOUSEHOLD SURVEYS

		Ch	ance of Arr	rest
Year	Respondents	Less Than 50%	50%	More Than 50%
1972	637	.322	.391	.287
1973	483	.293	.370	.337
1974	829	.330	.352	.318
1975	496	. 266	.308	.425

EXHIBIT 2,2-3 1974 vs 1975

Chance of Arrest	Degrees of Freedom	Ррор	σ%	CR	· P Value
< 50%	1325	.306	.02615	2.416	۷.02
50%	1325	.336	.02681	1.632	۷.11
> 50%	1325	.358	.02722	3,929	< .01

EXHIBIT 2.2-4 1972 vs 1975

Chance of Arrest	Degrees of Freedom	Ррор	σ%	CR	P Value
< 50%	1131	.297	.02735	1.97	∠.05
50%	1131	.354	.02863	2.82	<.01
> 50%	1131	.347	.02850	4.90	<.01

2.3 ASAP PATROL ARREST EFFICIENCY

The following are ratios for comparison of the efficiency of the combined regular State Police and Alcohol Emphasis Patrols, regular State Police, and Alcohol Emphasis Patrol units. Comparison of the Alcohol Emphasis Patrol to the regular Idaho State Police is not valid, since the State Police provide the overhead facilities, such as radio dispatchers, district offices, etc., for the Alcohol Emphasis Patrol.

The time expended for the various components of the arrest procedure is not recorded in sufficient detail for analysis of the relative time and cost of each of these components.

Calculation of efficiency rates includes the ASAP regional sergeants and the regular patrol sergeants, even though they may not be actively patrolling. The cost and efficiency rate comparisons of the ISP and AEP were not done for 1974 and 1975 because fiscal control was given to the state and federal funds were not used.

2.3.1 ASAP PATROL DWI ARREST EFFICIENCY

Efficiency Rates Per Patrolmen: (Arrests/Patrolmen)

	19	73	197	Variance	
ISP & AEP	2949 139	21.21	$\frac{3154}{148}$	21.31	.5%
ISP	1154 110	10.49	1177	9.89	- 5.7%
AEP (Including Sgts)	1795 29	61.89	<u>1977</u> 29	68.17	10.1%
AEP (Excluding Sgts)	1795 26	69,03	<u>1977</u> 26	76.04	10.2%

Efficiency Rates Per Patrol Hour

•	197	<u>2</u>	197	3	
ISP & AEP	391,533	132,76	325,128	103.08	- 22.4%
ISP	$\frac{327,730}{1,154}$	283.99	$\frac{266,472}{1,177}$	226.39	- 20.3%
AEP	63,803	35.54	58,654 1,977	29.67	- 16.5%

2.3.1 ASAP PATROL DWI ARREST EFFICIENCY (Continued)

The efficiency of the Alcohol Emphasis Patrol by time of day is presented in Exhibit 2.3-1. The results showed that patrol hours to a DWI arrest have been decreasing. We noted a 33.3% decrease from project startup through 1974, and a 30.0% increase in 1975 from 1974 levels for an overall 13.3% decrease since project startup.

EXHIBIT 2.3-1

AEP PATROL EFFICIENCY BY TIME OF DAY 1972 - 1975 (Patrol Hours /Arrests)

Time of Day	1972	1973	1974	1975
Midnight - 4 AM 4 AM - 8 AM 8 AM - Noon Noon - 4 PM 4 PM - 8 PM 8 PM - Midnight	17 207 372 391 144 38	17 113 102 234 120 35	13 72 436 163 114 29	16 40 33 218 123 36
AVERAGE	45	37	30	39

Efficiency Rates in Terms of Cost: (Per Arrest)

TCD C ACAD		1973		1974	Variance
ISP & ASAP	$\frac{3,377,182}{2,949}$	1145.20	3,552,293 3,154	1126.28	- 1.7%
ISP	3,062,626 1,154	2653.92	$\frac{3,079,043}{1,177}$	2616.01	- 1.4%
ASAP	$\frac{314,556}{1,795}$	175.24	$\frac{473,250}{1,977}$	239.38	36.6%

2.3.2 ASAP PATROL MOVING TRAFFIC VIOLATION (MTV) ARREST EFFICIENCY

Efficiency Rates Per Patrolman:

TCD C ADD		1973		1974	Variance
ISP & AEP	40,139 139	288.76	$\frac{44,254}{148}$	299.01	3.5%
ISP	$\frac{32,178}{110}$	292.52	36,472 119	306.49	4.8%
AEP (Including Sgts)	7,961 29	274.51	7,782	268.34	- 2.2%
AEP (Excluding Sgts)	$\frac{7,961}{26}$	306.19	$\frac{7,782}{26}$	299.31	- 2.2%

2.3.2 ASAP PATROL MOVING TRAFFIC VIOLATION (MTV) ARREST EFFICIENCY (Continued)

Efficiency Rates Per	Patrol Hour:	(Patrol	Hours - Arres	ts)	
ISP & AEP	391,533 40,139	1973 9.75	325,128 44,254	1974 7.35	Variance - 24.6%
ISP	$\frac{327,730}{32,178}$	12.16	266,472 36,472	7.31	- 39.9%
AEP	63,803 7,961	8.01	58,654 7,782	7.53	- 6.0%
Efficiency Rates in	Terms of Cost:	(Per Ar	rest)		
ISP & AEP	3,377,182 40,139	1973 84.14	3,552,293 44,254	1974 80.27	Variance - 4.6%
ISP	$\frac{3,062,626}{32,178}$	95.18	$\frac{3,079,043}{36,472}$	84.42	-11.3%
AEP	$\frac{314,556}{7,961}$	39.51	$\frac{473,250}{7,782}$	60.81	52.3%

2.3.3 ASAP PATROL CRIMINAL ARREST EFFICIENCY

The data available for this analysis was insufficient for any meaningful analysis.

2.4 PROFILE COMPARISONS

In considering the arrest strategy and deployment pattern of the Alcohol Emphasis Patrol, the target group of the arrest strategy must be considered. The objective of the ASAP's is to decrease the incidence of alcohol-related fatal and injury accidents; thus, one facet of the ASAP patrol arrest strategy should be to apprehend those drunk drivers whose profiles most closely match the profiles of drivers involved in fatal alcohol-related accidents. In reality, however, the patrolman has no real opportunity to make this type of judgment; he merely investigates any and all occurrences of unusual driving behavior. If, as a result, the profile of arrested DWI's does not match the profile of drivers causing alcohol-related fatal accidents, then the other factors must be examined, such as the distribution of deployment hours versus the distribution of alcohol-related accident occurence, or the locations of deployment versus the locations of alcohol-related accidents. Another factor to be considered is that, while two-thirds of the alcohol-related fatalities involve problem drinkers, a majority of apprehended DWI's are social drinkers. In this section, comparisons were made between profiles of drivers arrested, and profiles of fatally injured drivers, and between ASAP DWI arrested drivers and drivers arrested by the regular patrol. Following the comparisons is a detailed presentation of the profile data for each group and a section on profile methodology.

2.4.1 COMPARISON OF ARRESTED DWI OFFENDERS, FATALLY INJURED DRIVERS AND AVERAGE IDAHO DRIVERS

Comparative data for these sets of profiles are presented in Exhibit 2.4-1.

The distribution of drivers by sex is similar for fatally injured drivers and the average Idaho driver. However, the percentage of male drivers arrested appeared higher than the percentage of male drivers in other groups. We compared and tested the sex distribution utilizing the Kolmogorov-Smirnov technique described in Section 3.3. We found male representation in year 3 (1975) operational DWI's significantly higher with a value of P < .05. In other words, male drivers are over-represented in DWI arrests.

When observing the age distribution of the three groups, it appeared that fatally injured drivers under 25 were higher than either DWI arrests or the average Idaho driver samples. We compared and tested the age distribution utilizing the Kolmogorov-Smirnov technique described in Section 3.3. We found no significant difference in the age distributions.

2.4.1 COMPARISON OF ARRESTED DWI OFFENDERS, FATALLY INJURED DRIVERS AND AVERAGE IDAHO DRIVERS (Continued)

EXHIBIT 2.4-1
PROFILE TABLE

e e	PROFILE TABI	LE	
	Fatally Injured Drivers	DWI Arrests Year 3	Average Idaho Drivers
Sex	N=(51)	N=(300)	N=(212)
Male	.725	.893	.696
Female	.275	.107	.340
Age Distribution	N=(53)	N=(415)	N=(212)
< 20	.226	.171	.142
20-24	.189	.183	.170
25-29	.094	. 156	.100
30-34	.057	.101	.071
35~39	.075	.067	.146
40-44	.057	.089	.052
45-49	.075	.077	.075
50-59	.057	.113	.123
60 +	.170	.040	.123
Average Positive BAC	. 171	153	

2.4.2 PROFILE COMPARISON OF DRIVERS ARRESTED BY ASAP PATROLS, REGULAR PATROLS AND BASELINE DATA

Comparisons of profile data for drivers arrested by the AEP patrol with profile data for drivers arrested by the regular patrol were made using the following factors. The results of these comparisons are presented in Exhibit 2.4-2.

- Sex Distribution
- Income Distribution
- Age Distribution
- BAC Distribution

2.4.2.1 SEX COMPARISON

We compared and tested the sex distribution utilizing the Kolmogorov-Smirnov technique described in Section 3.3. We noted no significant differences in the male/female distribution.

2.4.2.2 INCOME DISTRIBUTION

We included income as an observable factor because the age and condition of a vehicle has good correlation with a level of income. We compared and tested the cumulative distributions of income levels below \$6,000.00, \$8,000.00 and \$10,000.00 per annum utilizing the Kolmogorov-Smirnov technique described in Section 3.3. We noted no significant difference in the sampled groups.

2.4.2.3 AGE DISTRIBUTION

We compared and tested the cumulative age distributions of the following groups utilizing the Kolmogorov-Smirnov technique described in Section 3.3.

- Fatally injured drivers
- Average Idaho drivers
- Year 3 operational DWI's
- Baseline DWI's
- Alcohol Emphasis Patrol DWI's
- Regular DWI's

The results of these tests are presented in Exhibit 2.4-3. We noted no significant difference in age distributions of any of the profiles compared.

2.4.2.4 BAC DISTRIBUTION

We compared and tested the cumulative distributions of the following groups utilizing the Kolmogorov-Smirnov technique described in Section 3.3.

- Fatally injured drivers
- Baseline DWI's
- Alcohol Emphasis Patrol DWI's 1974
- Alcohol Emphasis Patrol DWI's 1975
- Regular DWI's 1974
- Regular DWI's 1975

2.4.2.4 BAC DISTRIBUTION (Continued)

The results of these tests are presented in Exhibit 2.4-4. The Kolmogorov-Smirnov values for the various comparisons are presented in Exhibit 2.4-5. We noted significant increases in Alcohol Emphasis Patrol DWI's arrested at BAC's below .15 when compared to fatally injured drivers. The percentages of arrestees by the Alcohol Emphasis Patrol and the Regular patrol were significantly higher for BAC below .15 when compared to Baseline DWI's. After noting the significant increase in 1975 DWI's at BAC levels below .15, we then compared and tested the distribution of violations for offenders arrested in the Alcohol Emphasis Patrol and the Regular patrol utilizing the Kolmogorov-Smirnov technique described in Section 3.3. The results of these tests are presented in Exhibit 2.4-6.

EXHIBIT 2.4-2
PROFILE COMPARISON
ASAP ARRESTED OFFENDERS VERSUS REGULAR PATROL ARRESTS

-	AEP	Regular
Sex Male Female	N = (264) 88.2 11.8	N = (342) 86.8 13.1
Income ∠ 6,000.00 ∠ 8,000.00 ∠ 10,000.00	N = (141) .446 .623 .786	N = (172) .499 .655 .823
Average Positive BAC	.144	.153

EXHIBIT 2,4-3

AGE DISTRIBUTION

	In	tally jured ivers	•	Baseline DWI's		975 EP VI's	R	975 eg WI's	I	erage daho ivers		or 3
n	!	53	39	0.	29	92		348		212	41	
	8	Cum %	*	Cum %	8	Cum %	8	Cum	8	Cum	8	Cum
< 20	.226	.226	.010	.010	.089	.089	.129	.129	.142	.142	.171	.171
20 - 24	.189	.415	.118	.128	.174	.263	.186	.315	.170	.311	.183	.354
25 - 29	.094	.509	.179	.308	.157	.420	.160	.475	.100	.410	.156	.510
30 - 34	.057	.566	.136	.444	.099	.519	.094	.568	.071	.481	.101	.611
35 - 39	.075	.641	.108	.551	.109	.628	.068	.637	.146	.627	.067	.678
40 - 44	.059	.698	.082	.633	.095	.723	.071	.708	.052	.679	.089	. 767
45 - 49	.075	.773	.110	.743	. 102	.825	.103	.811	.075	.755	.077	.844
50 - 59	.057	.830	.169	.913	.092	.917	.132	.943	.123	.877	.113	.957
60 +	.170	1.000	.087	1.000	.078	1.000	.051	1.000	.123	1.000	.040	1.000
	ļ)	,	i i								

EXHIBIT 2.4-4
BAC DISTRIBUTION

	Fatally Injured Drivers		Injured Baseline AEP Drivers DWI's DWI's		P	1974 Reg DWI's		1975 AEP DWI's		1975 Reg DWI's		
n	65		68		29	91	27	6	7	292	26	6
	8	Cum %	%	Cum %	%	Cum %	8	Cum %	8	Cum	8	Cum
.0004	.092	.092	.015	.015	.045	.045	.051	.051	.044	.044	.056	.056
.0509	.092	.184	.044	.059	.141	.186	.072	.123	.123	.167	.097	.153
.1014	.200	.384	.176	.235	.320	.505	.337	.460	.332	.499	.312	.465
.1519	.231	.615	.338	.574	.333	.838	.322	.783	.339	.838	.319	.784
.2024	.154	.769	.191	.765	.137	.976	.145	.928	.133	.971	.116	.900
.25 +	.231	1.000	.235	1.000	.024	.1000	.072	1.000	.027	1.000	.097	1.000
Average Positive BAC	.171	1	.197		.143	(.156		.142	,	.160	

34

TABLE OF KS VALUES FOR BAC DISTRIBUTIONS

	95%	99%	
Fatally Injured vs Baseline Fatally Injured vs 74 AEP Fatally Injured vs 74 Reg Fatally Injured vs 75 AEP Fatally Injured vs 75 Reg	.236 .187(1) .187 .187(2) .188	.283 .224 .225 .224 .226	
Baseline vs 74 AEP Baseline vs 74 Reg Baseline vs 75 AEP Baseline vs 75 Reg	.183 .184 .183 .184	.220 ⁽³⁾ .221 .219 (4) .221	

⁽¹⁾ Significant at BAC levels below .15, below .20 and below .25

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⁽²⁾ Significant at BAC levels below .20, below .25

⁽³⁾ Significant at BAC levels below .15, below .20 and below .25

⁽⁴⁾ Significant at BAC levels below .15 and below .20

EXHIBIT 2.4-6
VIOLATIONS

	Bas	eline	197 AEP		197 Reg		197 AEI		197 Reg	
<u> </u>		400	400		400		400)	400	
	*	Cum %	*	Cum %	%	Cum %	8	Cum %	%	Cum %
1	.818	.818	.713	.713*	.718	.718*	.715	.715	.697	.697
2	.168	.985	.183	.895	.193	.910	.187	.902	.187	.884
3	.013	.998	.073	.968	.073	.983	.070	.972	.087	.971
4	.000	.998	.025	.993	.008	.990	.020	.992	.012	.983
5 +	.002	1.000	.007	1.000	.010	1.000	.007	1.000	.007	1.000
Average	1.20	· .	1.43	u	1.41		1.41]	1.48	

^{*} KS @ P <.01 = .096

2.4.3 PROFILE DEVELOPMENT METHODOLOGY

In order to develop a profile of a specific group, the Alcohol Data Bank was utilized as an input source because of its data content and organization. As previously discussed in Section 1.2 (Evaluation Information System), the Alcohol Data Bank is organized so that all available information from participating agencies relevant to an individual's case history is stored as a case, so that the data can later be analyzed to provide a more complete picture in terms of alcohol-related data than can be obtained anywhere else in the State.

Exhibit 2.4-7 depicts all possible data that is available for compilation. If this data were present in all cases, the resulting profile would be very complete. In actuality, however, data is available from an agency only if that agency has had contact with the individual. For instance, PHYSICAL CHARACTERISTICS are gathered from the Driver Licensing Bureau and available to ASAP through the Department of Law Enforcement. In a random sample of one hundred individuals arrested for DWI, this information was present in only 71 percent of the cases, because the arrest population is drawn not only from licensed Idaho drivers but also from out-of-state drivers touring in Idaho, migrant farm laborers, unlicensed rural inhabitants and Indian populations, and out-of-state military servicemen temporarily stationed in Idaho. PERSONAL DATA is collected by the presentence investigator in the process of gathering subject information but, in 1973, only 46 percent of the convicted DWIs received a presentence investigation and, of those, only approximately 90 percent required an in-depth investigation. Therefore, presentence investigation data that is presented cannot be represented as a percentage of the sample group, but as a percentage of the number in the sample group which had presentence investigations done on them. For example, the RACIAL CHARACTERISTICS for the profile of drivers arrested and referred to the combined treatment modalities of Court Alcohol School and the Driver Improvement Counseling Program are presented below.

Race		Percent
White	160	88.3
Black	1	.5
American Indian	10	5.5
Mexican	9	4.9
Oriental	. 0	0.0
Latin	1	.5
Other races	0	0.0
Race data total	181	99.7

In this example, the sample size was 228, and racial characteristics were available for 181 or 79.4 percent of the sample. Of the total reported racial characteristics, 160 were white. This represents 88.397 percent of the total racial sample. The reported percentages do not total up to one hundred percent because of the truncation of the least significant digits.

REHABILITATION DATA is included in the profile and is collected from the Court Alcohol School and the Driver Improvement Counseling Program (DICP). Anyone in the sample who attends the program may be reported

EXHIBIT 2.4-7

PROFILE DATA

Alcohol Data Bank Data	Data Source
PHYSICAL CHARACTERISTICS Age Sex Height Weight	Department of Law Enforcement
DRIVER EDUCATION Defensive Driving	Driver Improvement Counseling Program Data
REHABILITATION ATTENDANCE Court Alcohol School Driver Improvement Counseling Program	Court Alcohol School Instructor Data Driver Improvement Counseling Program Data
BAC TEST DATA BAC Test Results Refusals to Take BAC Test	Department of Health and Welfare Department of Law Enforcement
DRIVING VIOLATION HISTORY Non-Alcohol-Related Violations Alcohol-Related Violations DWIs Accidents	Department of Law Enforcement/Idaho State Police/Court Conviction Data
PERSONAL DATA Employment Status Occupation Marital Status Years Married Years in Idaho Years Education Income Number Dependents Ethnic Group Religion	Presentence Investigator
ALCOHOL-RELATED PERSONAL DATA ALCADD Test Score Drinker Classification	Presentence Investigator
CRIMINAL HISTORY Misdemeanors Felonies Alcohol-Related Misdemeanors Alcohol-Related Felonies	Idaho Criminal Investigation Division/FBI. Reported by presentence investigators.
DRINKER/DRIVER SUMMARIZATION DATA DWI Arrest Recidivism Rate DWI Arrest and Crash Recidivism Rate Estimated Drinker Classification	ASAP Evaluation Information System

2.4.3 PROFILE DEVELOPMENT METHODOLOGY (Continued)

by that agency as having attended; therefore, the percentages as given below represent the percentage of the total sample that were reported as having attended the treatment.

Rehabilitation Data	Percent		
Attended Defensive Driving	31	13.5	
Attended DICP	88	38.5	
Attended Court Alcohol School	144	63.1	

Using the sample as above, 31 out of 228 completed the Defensive Driving Course or 13.5, where 228 was the total sample size.

The <u>DICP</u> attendance figure is based on a record of completion. This does not include subjects who are currently enrolled in the program or subjects who attended one or more sessions and then dropped out or were dropped from the program. The number of subjects who attended Defensive Driving represent subjects who attended the Driver Improvement Counseling Program and were referred by one of the DICP Counselors to Defensive Driving.

Court Alcohol School pre- and post-test score data is presented to indicate the improvement of knowledge level of the student. It should be noted that a zero improvement may be a student who had a perfect score on both the pre- and post-test. A negative improvement means that the student scored higher on the pre-test than on the post-test. The percentages given are based on the total number of scores available for those persons attending Court Alcohol School.

BAC data is analyzed to determine the average BAC and the average positive BAC. In addition, the number of subjects having only one BAC record, the number of subjects having two BAC records, three BAC records, etc., are tabulated, along with the percentage each group represents in relation to the total number of persons who had at least one BAC. The average BAC is calculated for each group. For example:

	Percent
Average if 1 BAC	.077
Average if 2 BACs	.156
Average if 3 BACs	.173
Average if 4 BACs	.165

For that group who had three BACs, the average of their BACs was .17 percent. For DWIs that refused to take a BAC test, the percentage of the total sample that refused, once, twice, or three or more times is calculated.

ALCADD tests are administered by the presentence investigators during the defendant contact interview. Although every presentence investigation is supposed to include the test, use varies widely according to the habits of the individual presentence investigators. In a sample of 300 presentence investigations, an ALCADD score greater than 00 was reported in 118 (39 percent) cases. ALCADD scores of 00 were not considered in the analysis, because it was not known whether this field was left blank or filled with zeroes when the test was not administered.

2.4.3 PROFILE DEVELOPMENT METHODOLOGY (Continued)

Another consideration is that there is a high probability that even an occasional drinker will answer yes to at least one question, so that a score of 00 is questionable for all but total abstainers.

Drinker classes are presented whenever presentence investigation (PSI) data classifying problem drinkers was present. The percentages represent the category divided by the sum of the occurrences of each category.

Estimated Problem Drinkers classification is a computer-assigned classification based on information contained in the Alcohol Data Bank. The percentage is calculated from the total sample, because each member of the sample goes through the estimation process, not just those that have had presentence drinker classifications conducted on them. The Estimated Problem Drinkers Classification was developed for the profile analysis to validate the PSI drinker classification techniques. Because of the fact that PSI drinker classifications are not always made, a classification of Non-Problem Drinker may be made by the PSI on an initial arrest and on a subsequent arrest may not be updated or perhaps a presentence investigation was not requested by the judge. The Estimated Problem Drinker classification, however, is based on the latest data and may be conducted at any time. The only limitation is that Non-Problem Drinkers cannot be isolated from Undefined without defendant contact data, so that only problem drinkers are identified.

The Evaluation Information System uses the following criteria in identifying problem drinkers.

- 1. PSI reported subject was diagnosed as an alcoholic by a competent medical or treatment facility
- 2. PSI reported subject admits being alcoholic or problem drinker
- Subject has more than two DWI arrests
- 4. Subject has two DWIs and a BAC of .15 or greater
- 5. Subject has two DWIs and an ALCADD score of 12 or greater as reported by a PSI
- 6. Subject has one DWI, a prior plea bargained arrest (inattentive or reckless driving) and an ALCADD score of 12 or greater

For each profile, the number of violations stored on the Alcohol Data Bank are tallied and reported. Those subjects having only one DWI are tallied, the number having two DWI arrests are tallied, and so forth. The size of each group is expressed as a percentage of the total group of subjects having one or more DWIs.

Violations on Alcoho	ol Data Bank	Percent
1 DWI	165	72.3
2 DWIs	49	21.4
3 DWIs	12	5.2
4 DWIs	1	0.4
5+DWIs	1	0.4
Average Number DWIs	1.35	

For example, one-time recidivists (those with two DWIs) represented 21.4 percent of the sample who had one or more DWIs 49 = 214 (165+49+12+1+1).

2.4.3 PROFILE DEVELOPMENT METHODOLOGY (Continued)

The average number of DWIs is calculated by adding the total of all DWIs divided by the total sample size. The average number of non-alcohol-related violations is calculated by dividing violation groups by the number of cases that contained moving violation history obtained from the Department of Law Enforcement. The reason for this is because the Department of Law Enforcement is the sole source for non-alcohol-related violations, whereas DWI violations may be obtained from many sources. Accident average is calculated by dividing by the total sample size.

Criminal investigation data		Percent
1-2 Misdemeanors	41	48.8
3-4 Misdemeanors	19	22.6
5+ Misdemeanors	24	28.5
Average number misdemeanors	3.47	_

For those subjects who had misdemeanors reported by a PSI, 48.8 percent had one or two misdemeanors (41 of 41+19+24). The average number of misdemeanors for those people who had misdemeanors was 3.47.

For each profile group, three types of recidivism are calculated.

Type 1	DWI arrest
Type 2	DWI arrest or crash
Type 3	DWI arrest, crash, or A/R violation

A/R violation means a traffic violation with a BAC test or affidavit or refusal taken on the same day.

Average days to recidivism are calculated for 1, 2, 3, 4, 5 time recidivists for each of the three classes of recidivists.

2.5 CATALYTIC EFFECT ON ASAP ON THE REGULAR PATROL

During the Idaho ASAP planning phase, the close coordination with the Idaho State Police in establishing the Alcohol Emphasis Patrol and the publicity given the developing ASAP project contributed to an increase in the number of DWI arrests by state and local agencies. At the same time, the Department of Environmental and Community Services Laboratory Division and the Idaho Traffic Safety Commission implemented a program to provide MOBAT training and certification of peace officers. As part of this program, the state provides MOBAT kits to the enforcement agencies at no cost to the agency. This project was a spin-off of the Idaho ASAP planning activity.

Together these two factors significantly impacted DWI enforcement in the State of Idaho. Exhibit 2.5-1 shows DWI arrest activity by quarter for the years 1969 through 1975. As can be seen from this Exhibit, DWI arrest volumes have increased steadily since the beginning of the ASAP planning phase January 1, 1972 except for the decrease in 1975.

2.6 EFFECT OF ASAP PATROL ACTIVITY ON OTHER ASAP COUNTERMEASURES AND THE OVERALL TRAFFIC SAFETY SYSTEM

The most obvious effect of the ASAP patrol activities is the increased number of DWI cases and other moving traffic violations which are entering the court system. This increased load offers more opportunities for use of presentence investigation. Furthermore, the increased number of persons referred to various rehabilitation modalities are partially due to the DWI arrest made by the Alcohol Emphasis Patrol.

EXHIBIT 2.5-1

DWI ARRESTS BY QUARTER
1969 - 1975

Year - Qtr	ASAP	Non-ASAP	Qtr Total	Year Total	17
1969 - 01	,			Total	Variance
		395	395	•	
Q2 Q3		449	449		
Ų3 04		419	419		•
Q4		472	472	1735	
1970 - 01				1755	
7-		497	497		
Q2	•	510	510		
Q3		530	530		
Q4		480	480	2017	
1071		_	400	2017	162.5%
1971 - Q1		553	553		
Q2		735	735		
Q3		683	683		
Q4		695	695	2444	
• • • •			093	2666	32.2%
1972 - Q1		930	930	•	•
Q2		1123	1123		
Q3	328	1352	1680		
Q4	400	1383	1783	4=0.4	
			1/63	4516	69.4%
1973 - Q1	384	1383	1767		
Q2	429	1317	1746		
Q3	447	1247			
Q4	537	1154	1694		
		1104	1689	6896	52.7%
1974 - Q1	591	1341	1070		•
Q2	459	1426	1932		
Q3	515	1523	1885		
Q4	412	1452	2038		
•		1432	1864	7719	11.9%
1975 - Q1	402	1740			
	416	1340	1742		
Q2 Q3	393	1404	1820	•	
Q4	300	1210	1603		
٧,	500	1039	1339	6504	-15.7%

3.0 METHODOLOGY

Descriptions of the various statistical methodologies used in this study are presented in this section. Also included is a description of the methodology used to develop group profiles for analysis.

3.1 SIGNIFICANCE OF THE DIFFERENCE BETWEEN PERCENTAGES

In much experimental work, we are able to get the percent occurrence of a given behavior in two or more independent samples. We then want to know whether the incidence of this behavior is reliably different in the two groups. The following problem will provide an illustration.

Example: In a study of cheating among elementary-school children, 144 or 41.4% of 348 children from homes of good socio-economic status were found to have cheated on various tests. In the same study, 133 or 50.2% of 265 children from homes of poor socio-economic status also cheated on the same tests. Is there a true difference in the incidence of cheating in these two groups?

Let us set up the hypothesis that no true difference exists as between the percentages cheating in the two groups and that, with respect to cheating, both samples have been randomly drawn from the same pouplation. A useful procedure in testing this null hypothesis is to consider P_1 (41.4%) and P_2 (50.2%) as being independent determinations of the common population parameter, P_1 and to estimate P_1 by pooling P_1 and P_2 . A pooled estimate of P_1 is obtained from the equation:

$$P = \frac{N_1 P_1 + N_2 P_2}{N_1 + N_2}$$

Q being, of course, (1 - P).

The estimated percentages, P and Q, may now be put in formula to give the SE of the difference between P_1 and P_2 .

 $\sigma_{D_{q_0}} = \sigma_{P_1 - P_2} = \sqrt{\sigma^2_{P_1} + \sigma^2_{P_2}}$

or

$$= \sqrt{PQ\left[\frac{1}{N_1} + \frac{1}{N_2}\right]}$$

(SE of the difference between two uncorrelated percentages)

In the present example, $P = \frac{348 \times 41.4 + 265 \times 50.2}{348 + 265}$ or 45.2% and

Q = (1 - P) or 54.8%. Substituting these two values, we get

$$\sigma_{P_1 - P_2} = \sqrt{45.2 \times 54.8 \left[\frac{1}{348} + \frac{1}{265} \right]} = 4.06\%$$

The difference between the two percents P and P is 8.8% (50.2 - 41.4);

and dividing by 4.06 (CR= $\frac{(P_1 - P_2) - 0}{\sigma P_1 - P_2}$ we get a CR of 2.17. Entering

the table of CR values presented in Exhibit 3.1-1, we find that our CR exceeds 1.96 (.05 level) but does not reach 2.58 (.01 level).

EXHIBIT 3.1-1

Table of CR Values, for use in determining the significance of statistics

Example: When the df are 35 and cr = 2.03, the .05 in column 3 means that 5 times in 100 trials a divergence as large as that obtained may be expected in the positive and negative directions under the null hypothesis.

Degrees of		Pr	obability (P)	
Freedom	0.10	0.05	0.02	0.01
1	CR = 6.34	CR = 12.71	CR = 31.82	CR= 63.66
2	2.92	4.30	6.96	9.92
. 3	2.35	3.18	4.54	5.84
4	2.13 2.02	2.78 2.57	3.75	4.60
3 6	1.94	2.45	3.36 3.14	4.03 3.71
3 4 5 6 7	1.90	2.36	3.00	3.50
8	1.86	231	2.90	3.36
ğ	1.83	2.26	2.82	3.25
10	1.81	2.23	2.76	3.17
11	1.80	2.20	2.72	3.11
12	1.78	2.18	2.68	3.06
13	1.77	2.16	2.65	3.01
14 15	1.76 1.75	2.14 2.13	2.62 2.60	2.98 2.95
16	1.75	2.12	2.58	2.92
17	1.74	2.11	2.57	2.90
18	1.73	2.10	2.55	2.88
19	1.73	2.09	2.54	2.86
20	1.72	2.09	2.53	2.84
21	1.72	2.08	2.52	2.83
22	1.72	2.07	2.51	2.82
23 24	1.71 1.71	2.07	2.50	2.81 2.80
25	1.71	2.06 2.06	2.49 2.48	2.79
26	1.71	2.06	2.48	2.78
27	1.70	2.05	2.47	2.77
28	1.70	2.05	2.47	2.76
29	1.70	2.04	2.46	2.76
30	1.70	2.04	2.46	2.75
35	1.69	2.03	2.44	2.72
40 45	1.68 1.58	2.02	2.42	2.71 2.69
50	1.68	2.02 2.01	2.41 2.40	2.68 2.68
60	1.67	2.00	2.39	2.66
70	1.67	2.00	2.38	2.65
80	1.66	1.99	2.38	2.64
90	1.66	1.99	2.37	2.63
100	1.66	1.98	2.36	2.63
125	1.66	1.98	2.36	2.62
150 200	1.66 1.65	1.98 1.97	2.35 2.35	2.61 2.60
300 300	1.65	1.97	2.33	2.59
400	1.65	1.97	2.34	2.59
500	1.65	1.96	2.33	2.59
1000	1.65	1.96	2.33	2.58
∞	1.65	1.96	2.33	2.58

3.2 SIGNIFICANCE OF THE DIFFERENCE BETWEEN MEANS

To discover whether two groups differ sufficiently in mean performance to enable us to say with confidence that there is a difference between the means of the populations from which the samples were drawn, we need to know the standard error of the difference between the two sample means. Two situations arise with respect to differences between means: those in which the means are uncorrelated and those in which the means are correlated. Means are uncorrelated or independent when computed from different samples or from uncorrelated tests administered to the same sample.

THE SE OF THE DIFFERENCE (σ_D) WHEN MEANS ARE UNCORRELATED AND SAMPLES ARE LARGE.

The formula for the SE of the difference between uncorrelated or independent means is

$$\sigma_D = \sqrt{\frac{\sigma^2_1}{N_1} + \frac{\sigma^2_2}{N_2}}$$

(standard error of the difference between uncorrelated means) in which:

 σ_{H1} = the SE of the mean of the first sample σ_{H2} = the SE of the mean of the second sample σ_D = the SE of the difference between the two sample means N_1 and N_2 = sizes of the two samples

Application of this formula to a problem is shown in the following example:

Example: In a study of abstract reasoning, a sample of 83 twelfth-grade boys and a sample of 95 twelfth-grade girls scored as shown below on a test of abstract reasoning:

Sex	N	Mean	σ
Girls	95	29.21	11.56
Boys	83	30.92	7.81

Assuming that our samples are random, would further testing of similar groups of boys and grils give virtually the same result: or would the difference in means be reduced to zero or even reversed in favor of the girls?

To answer these questions, we must compute the SE of the difference between the two means.

$$\sigma_D = \sqrt{\frac{(7.81)^2}{83} + \frac{(11.58)^2}{95}}$$

$$= \sqrt{2.1415}$$

$$= 1.46 \text{ (to two decimals)}$$

3.2 SIGNIFICANCE OF THE DIFFERENCE BETWEEN MEANS (Continued)

The obtained difference between the means of the boys and girls is 1.71 (i.e., 30.92 - 29.21); and the SE of this difference (σ_D) is 1.46. As a first step in determining whether twelfth-grade boys and girls actually differ in mean ability, we shall set up a null hypothesis. This hypothesis asserts that the difference between the population means of boys and girls is zero and that-except for sampling accidents-mean differences from sample to sample will all be zero. Is the obtained mean difference of 1.71--in view of its SE--large enough to cast serious doubt on this null hypothesis?

To answer this question, we must compute a critical ratio or CR found by dividing the difference between the sample means by its standard error (CR = D/ σ_D). This operation reduced the obtained difference to a σ score, and enables us to measure it off along the base line of the sampling distribution of differences. In the present problem, CR = 1.71/1.46 or 1.17. When the N's of the samples are large (30 or more is "large"), the distribution of CR's is known to be normal around the true difference between the population means. In testing the null hypothesis, we set up a normal sampling distribution. The mean difference is set at zero (true difference) and the SD of this distribution of differences is 1.46(σ_D). Our CR falls at 1.17 on the base line to the right of the mean of 0, and also at -1.17 to the left of this mean. We need to measure in both directions, since under the null hypothesis (true difference of zero) differences between sample means are as likely to be plus as minus--to fall above as below the mean difference of zero.

From a Table of Areas under the Normal Curve, Exhibit 3.2-1, we can determine that 38% X 2 or 76% of the cases in a normal distribution fall between the mean and + 1.17 σ_D ; and 24% of the cases fall outside these limits. This means that under the null hypothesis we can expect CR's as large as or larger than + 1.17 to occur "by chance" 24 times in 100 comparisons of the means of samples of twelfth-grade boys and girls on this test. A mean difference of + 1.71 (i.e., a CR of + 1.17), therefore, might easily arise as a sampling fluctuation from zero, and is clearly not significant. Accordingly, we retain the null hypothesis since—as far as our tests to—there is no reason to believe twelfth-grade boys and girls actually differ in mean performance on abstract reasoning tests. With respect to reasoning as represented by our test, the two groups could well have been random samples from the same population.

EXHIBIT 3.2-1

TABLE OF AREAS OF THE NORMAL CURVE

	1	T			,					
=	.00	.01	. 02	.03	.04	. 05	.06	.07	.08	. 09
0.0	.0000	.0040	.0080	.0120	.0159	.0199	0220	2222		
0.1	.0398	.0438	0478	.0517		1	.0239	.0279	.0319	.0359
0.2	.0793	.0832	.0871	.0910	.0557	.0596	.0636	.0675	.0714	.0753
0.3	.1179	. 1217	.1255	.1293	.0948	.0987	.1026	. 1064	.1103	.1141
0.4	.1554	. 1591	. 1628		. 1331	. 1368	.1406	.1443	.1480	. 1517
1			. 1028	.1664	.1700	. 1736	. 1772	. 1808	.1844	-1879
0.5	. 1915	. 1950	. 1985	.2019	. 2054	. 2088	.2123	. 2157	. 2190	2224
0.6	. 2257	. 2291	. 2324	. 2357	. 2389	. 2422	.2454	. 2486	. 2518	. 2224
0.7	. 2580	. 2612	. 2642	. 2673	.2704	.2734	. 2764	. 2794		. 2549
0.8	. 2881	. 2910	. 2939	. 2967	. 2995	.3023	.3051	.3078	. 2823	. 2852
0.9	.3159	. 3186	. 3212	.3238	. 3264	.3289	. 3315	.3340	. 3106	.3133
1.		1	ľ					.3340	. 3365	. 3389
1.0	. 3413	. 3438	. 3461	. 3485	.3508	. 3531	.3554	. 3577	3500	,,,, l
1.1	. 3643	. 3665	. 3686	. 3708	. 3729	. 37 49	.3770	.3790	. 3599	.3621
1.2	. 3849	. 3869	. 3888	.3907	. 3925	. 3944	.3962		. 3810	.3830
1.3	. 4032	. 4049	.4066	.4082	.4099	.4115	.4131	.3980	. 3997	.4015
1.4	.4192	. 4207	. 4222	. 4236	.4251	.4265	- 1	.4147	.4162	.4177
1 1			1		. 7	203	.4279	. 4292	. 4306	.4319
1.5	. 4332	. 4345	. 4357	.4370	. 4382	.4394	.4406		1	
1.6	.4452		. 4474	.4485	. 4495	. 4505	-	.4418	. 4430	.4441
1.7	.4554		. 4573	.4582	. 4591	. 4599	. 4515	.4525	. 4535	.4545
1.8	. 4641	- 1	. 4656	.4664	.4671		.4608	.4616	. 4625	. 4633
1.9	. 4713		. 4726	.4732		.4678	4686	. 4693	. 4699	. 4706
1 1				. 7/32	. 4738	. 4744	. 4750	. 4756	. 4762	- 4767
2.0	. 4773	. 4778	. 4783	. 4788	. 4793	. 4798	. 4803			
2.1	. 4821		. 4830		. 4838		- 1			.4817
2.2	:4861				. 4875			4850		. 4857
2.3				- 1						.4890
2.4	. 4918									. 4916
]	1	- 1		,	, , ,	. 49 29	. 4931	. 4932	. 4934	. 4936
2.5			. 4941	. 4943	. 4945	. 4946	. 4948	. 4949	. 4951	. 4952
2.6			. 4956	. 4957	. 4959		1		1	. 4964
2.7			4967						•	4974
2.8		. 4975	4976			- 1			1	
2.9	-4981	4982 .	1							4981
3.0									7.00	,
3.1	. 49865					. 4989	. 4989	4989	. 4990	4990
		4991 .	4991 .	4991	. 4992 📗		4			4993
3.2	. 49931]	1		- 1	1				
3.3	. 49952		1	Į	- 1	- 1	· [ł	ı	- 1
3.4	. 49966		[[j	- 1	- 1	l	1	- 1
3.5	. 49977	.		.	1	- 1.		1	ı	
3.6	. 49984	1	- 1	1	i	1	- 1	1	- 1	- 1
	. 49989	1	- 1		1	1		į	1.	
	. 49993	- 1	J	j	1	ĺ	J	ı	1	1
!	. 49995	ı	· 1	i		1	. 1	- 1	- 1	. [
- 1		- 1		- 1	- 1	- 1	- 1		1	1
4.0	. 49997		1	- 1	.	•	1		I	İ
	. • > > > /									

3.3 KOLMOGOROV-SMIRNOV TEST FOR GOODNESS OF FIT

In the analysis of the changes in distribution, classical tests may not be appropriate, since the distributions may be skewed significantly from normal. The Kolmogorov-Smirnov test for Goodness of Fit makes no assumptions of normality and is thus appropriate for measuring shifts in distributions.

The Kolmogorov-Smirnov test is based on the sample distribution function $F_n(X)$, defined in the preceding section; the statistic used is the maximum absolute deviation of $F_n(X)$ from $F_n(X)$:

$$D_{\mathbf{a}} = \max_{-\mathbf{c} < \mathbf{x} < \mathbf{o}} |F_{\mathbf{a}}(\mathbf{x}) - F_{\mathbf{o}}(\mathbf{x})|.$$

(To be mathematically accurate, the word "sup"--for supremum or least upper bound--should be used in place of "max," but it is not assumed that the reader is aware of this fine point.) The distribution of the random variable D_n , which is indeed a statistic and varies from sample to sample, has been computed under the assumption that the null hypothesis holds. The results are given in Exhibit 3.3-1 for sample sizes up to n=20, for various preselected values of α , called significance levels. It happens that the distribution does not depend on what $F_0(X)$ is, so the same table can be used in all such problems. For large values of n there are given asymptotic formulas.

This technique is extremely powerful; however, to obtain this power, some sensitivity is lost. The following example will illustrate both the technique and the sensitivity lost.

In an analysis of income levels of persons convicted of DWI and persons receiving withheld judgments during 1974, the following data was obtained:

EVALUATION NEW TOTAL		ted DWI	With	held		
EVALUATION MEASURE	Number	Cum %	Number		Diff	P
INCOME						
Less than \$4000	26	27.7	14	26.9	0.8	N C
4000-5999	26	55.4	7	40.4	15.0	N.S.
6000-7999	22	78.8	11	61.6	17.2	N.S.
8000-9999	10	89.4	9	78.9	10.5	N.S.
10000-11999	3	92.6	4	86.6	6.0	N.S.
12000-13999	. 2	94.7	3	92.4	2.3	N.S.
14000-15999	2	96.8	. 3	98.2	1.4	N.S.
16000-17999	1	97.9	1	100.0	1.1	N.S.
18000-19999	0	97.9	ō	100.0		N.S.
20000-UP	2	100.0	0		1.1	N.S.
	_	100.0	. 0	100.0	0.0	N.S.

The KS value for P=.05 is computed as

1.36
$$\sqrt{\frac{m+n}{mn}}$$

where:

m = number in sample 1
n = number in sample 2

3.3 KOLMOGOROV-SMIRNOV TEST FOR GOODNESS OF FIT (Continued)

In this case we have

$$\frac{146}{1.36} = .235,$$

thus a difference of 23.5 percent or more will have to be measured to be significant at $P \angle .05$.

Analysis of the percentage of persons with incomes less than \$8000 using a test for the significance of the difference between percentages (described in Section 3.1) shows a significant difference between these samples. Using the formula:

$$\sigma_{\rm D}^{\rm q} = \sqrt{\rm PQ \ (\frac{1}{N_1} + \frac{1}{N_2})}$$

where:

$$P = \frac{P_1 N_1 + P_2 N_2}{N_1 + N_2}$$

$$Q = 1 - P$$

We have

$$P = \frac{74 + 32}{146} = .726$$

Q = .274

$$\sigma_D$$
% = $\sqrt{(.726)(.274)(.019 + .011)}$ = .077

$$CR = \frac{P_1 - P_2 - 0}{\sigma^*}$$

$$CR = \frac{.788 - .616}{.077} = 2.23$$

giving P = .0258

Some sensitivity is regained as sample sizes increase. At a sample size of 400, the KS technique will measure a change of 9.6 percent at P=.05, while the test for differences in percentages will measure (assuming P=.5) 6.9 percent at P=.05. Thus, the use of the Kolmogorov-Smirnov technique is best made with large sample sizes; however, its ease of use makes it desirable as a preliminary screening method when significant differences are expected. If no significance is found using the KS technique, the researcher can always use other techniques when appropriate.

EXHIBIT 3.3-1

ACCEPTANCE LIMITS FOR THE KOLMOGOROV-SMIRNOV TEST OF GOODNESS OF FIT

Sample size		Sig	nificance	level	
(n)	.20	.15	.10	.05	.01
1	.900	.925	.950	.975	.995
2	.684	.726	.776	.842	.92 9
3	.565	.597	.642	.708	.829
4	.494	.52 5	.564	.624	.734
5	.446	.474	.510	.563	.66 9
6 ·	.410	.436	.470	.521	.618
7	.381	.405	.438	.486	.577
8	.358	.381	.411	.457	.543
9	.339	.360	.388	.432	.514
10	.322	.342	.368	.409	.486
11	.307	.326	.352	.391	.468
12	.295	.313	.338	.375	450
13	284	.302	.325	.361	.433
14	.274	.292	.314	.349	.418
15	.266	.283	.304	.338	.404
16	.258	.274	.295	.328	.391
17	.250	.266	.286	.318	.380
18	.244	.259	.278	.309	.270
19	.237	.252	.272	.301	.361
20	.231	.246	.264	.294	.352
25	.21	.22	.24	.264	.32
30.	.19	.20	.22	.242	.29
35	.18	.19	.21	.23	.27
40	1			.21	.25
50	ì			.19	.23
60	l			.17	.21
70	ł			.16	.19
80				.15	.18
90	1			.14	
100				.14	
Asymptotic formula:	$\frac{1.07}{\sqrt{n}}$	$\frac{1.14}{\sqrt{n}}$	$\frac{1.22}{\sqrt{\pi}}$	$\frac{1.36}{\sqrt{\pi}}$	$\frac{1.63}{\sqrt{n}}$

Reject the hypothetical distribution F(x) if $D_n = \max |F_n(x) - F(x)|$ exceeds the tabulated value,

(For n = 0, and .05, asymptotic formulas give values which are too high—by 1.5 percent for n = 80)

4.0 SUPPLEMENTAL INFORMATION

Complete profile data for the groups compared are presented in this section for those readers interested in performing additional analyses. Profiles provided are:

4.0-1	Fatally Injured Drivers
4.0-2	Average Idaho Driver
4.0-3	Year 2 Operation DWI Offenders
4.0-4	Year 1 Operation DWI Offenders
4.0-5	Baseline DWI Offenders
4.0-6	AEP DWIS 1974
4.0-7	AEP DWIS 1973
4.0-8	Regular DWIS 1974
4.0-9	Regular DWIS 1973
4.0-10	AEP DWI's 1975
4.0-11	Regular DWI's 1975
4.0-12	Year 3 Operation DWI Offenders

EXHIBIT 4.0-1

TDAHO ALCOHOL SAFETY ACTION PROJECT PROFILE ANALYSIS

FATALLY INJURED DRIVERS

	SAMPLE STZE :	246	
SEX	•	N= (. 155)	
	MALES	115	7/ 20
	FEMALES	40	74.19 25.89
HEIGHT		N=(155)	
	AVERAGE HEIGHT	67.8	
WEIGHT		N=(155)	
	AVERAGE WEIGHT	154.8	
AGE		N=(157)	
	AVERAGE AGE	36.9	
	AGE 19 OR LESS	26	16.57
	AGE 20 - 24	31	19.7%
	AGF 25 - 29	16	10.1%
	△GE 30 - 34	14	8.9%
	AGE 35 - 39	12	7.6%
	AGF 40 - 44	12	7.6%
	AGE 45 - 49	7	4.49
	AGE 50 - 59	15	9.59
	AGE 60 AND OVER	24	15.27
RACE		N= (g)	
	WHITE	5	
	BLACK	'n	62.57
	AMERICAN INDIAN	1	0.0%
	MEXICAN	2	12.5%
	ORIENTAL	Ô	25.0%
	LATIN	ő	0.0%
	OTHER RACES	ő	0.0% 0.0%
EMPLOYMENT	STATUS	N= (8)	
	FULL-TIME	N= (8) 4	50.00
	PART-TIME	2	50.09
	NOT EMPLOYED	1	25.0%
	HOUSEWIFF	0	12.5%
	STUDENTS	· 1	0.0%
	RETIRED	Ô	12.5% 0.0%
OCCUPATION	TYPE	N= (7)	
	UNEMPLOYED	• • •	
	PROF / TECH	1	14.27
	CLERICAL / SALES	1	14.2%
•	SERVICES	0	0.09
	AGRI CHLTHRE	1 3	14.2%
	PROCESSING	3 0	42.8%
	MACHINE TRADES) ()	0.0%
	FABRICATION / PEPAIR		0.0%
•	STRUCTURAL	0	0.0%
	OTHER	1	0.0%
		1	14.2%

YEARS IN IDAH	n	N= (4)	,
	AVERAGE YEARS		24.0	
~	1		1	25.09
	2		ō `	0.09
	3		1	25.09
•	4		Ô	0.0%
	5		ő	0.07
	6-10	1	0 .	0.0%
	11-15		ő	0.0%
	16-20		ő	0.09
	21 AND OVER		2	50.0%
REHABILITATIO	N DATA	N= (2461	
	ATTENDED DEF.		2	0.8%
	ATTENDED DICP		3	1.27
	ATTENDED COUR		3	1.29
COURT ALCOHOL	SCHOOL DATA	N= (3)	•
	NEGATIVE THPP		õ	0.09
	ZERO IMPROVEM		ő	0.0%
	IMPROVEMENT 1		2	.66.69
	_	<u>-</u> 9	Õ,	0.0%
	. 10-	•	o	0.03
	15-		ő	0.09
	20-	_	1	33.37
MAPITAL STATUS	5	N= (8)	
	MARRIED	• •	4	50.09
	SINGLE		Ó	0.07
	DIVORCED		4	50.09
	MIDOMED		0 -	0.0%
	SEPERATED		0	0.0%
	OTHER		0	0.0%
DEPENDENTS		N= (4)	
	0		0	0.0%
	1		2	50.07
	2		0	0.09
	2 3 4 5		2	50.0%
	4		0	0.0%
			0	0.09
	6		0	0.07
	7		0	0.0%
	8	•	0	0.0%
	9		n	0.07
	10		0	0.09
	11+		0	0.0%
RELIGION	•	· N= (31	
. ,	PROTECTANT		1	33.39
	CATHOLIC		0	0.0%
	JEWISH		0	0.07
	WUSWUN		1	33.39
	OTHER		1	33.3%

YEARS MARRIED	N=(3)	
AV ER AGE	14.0	
1	, Č	0.07
2 3	1	33.37
4	0	70.0% 70.0%
5-10	1	33.3%
11-15	Ô	0.02
16-20	0	0.09
20+	1	33.3₹
EDUCATION	N= (8)	
AVERAGE YEARS	10.6	
1-6	1	15.2%
7-9	1	12.59
10 ·11	1 0	12.5%
12	4	0.0% 50.0%
13	1	12.5%
14	Ō	0.09
15	n	0.0%
16	0	0.02
17 AND HP	0	0.0%
INCOME	N= (R)	
LESS THAN \$4000	4	50.0%
4000-5999	1	12.59
5000-7999	1.	12.57
9000-9999	1	12.59
10000-11999 12000-13999	0	0.07
14000-15999	1	12.5%
16000-17999	0	0.07
18000-19999	ņ	0.09
20000-HP	0	0.09
BAC DATA	N= (262)	
AVERAGE RAC	• Üəəx	
AVERAGE POSITIVE BAC	.1774	
NEGATIVE	115	43.8%
•01 - •04	12	4.59
.0509 .1014	13 29	4.99
.1519	29 33	12.57
.2024	25	0.5g
•25 +	35	13.3%
AVERAGE ALCADO	6.3	
1-11	3	100.07
12-19	<u>o</u>	0.07
20-29	9	0.02
30-39	0	0.0%
49-49 50-UP	0 0	0.0%
⊃() −() P	O	0.09

DRINKER CLASS	DATA	N- (O)	
	PROBLEM	N=(8)	
		4	50.0%
	NON-PROBLEM	4	50.07
	ANDELINED	0	0.07
	EST. PROP. DRINKERS	6	2.49
•		•	2 • * *
VIOLATIONS ON	ADB		-
74 04 4 7 1 7 1 7 3 1 2 4		N=(246)	
	1 DWI	21	8.57
	S DMI	5	2.09
•	3 OWI	1	0.48
	4 DWT	Ō	0.09
	5+ nwr	o O	
	AVERAGE NO DWIS		0.09
	AANAMO MILIMID	.13	
	I-2 NON A/R VIOLATIO	NS 51	20.7%
	3-4	9	3.6%
	5-6	2	0.89
	7-8	Õ	
	9 110		0.0%
		O	0.0%
	AVERAGE NON AZR VIOL	• 43	
	1 ACCIDENT	74	30.0%
	2 ACCIDENTS		
		4	1.6%
	3 ACCIDENTS	1	0.49
	4 OR MORE	n	0.0%
	AVER NO ACCIDENTS	.34	
CRIMINAL THVES	TICATION DATA	N-1 01	
		4=(2)	
	1-2 MISDEMEANORS	1	50 . 0%
	3-4 MISDEMEANORS	1	50.09
	5+ MISDEME ANDRS	0	0.09
	AVG NO. MISDEMEANDRS	2.00	• • • • •
	1-2 FELONTES		0.00
	3-4 FELONIES	0	0.04
		0	0.07
	5+ FELONIES	0	0.09
	AVG NO EFLONIES	•00	
	1-2 A/R MISDEMEANORS	2	100.07
	3-4 A/P MISDEMEANORS	õ	
	5+ A/R MISDEMEANORS		0.0%
		0	0.0%
	AVG NO AZR MISDEMFANO		
	1-2 A/P FFLONTES	. 0	0.0%
	3-4 A/R FELONIES	o ·	0.02
4	5+ A/R FELONIES	ņ	0.0%
	AVG NO A/P FELONIES		0.04
	440 4 4 4 4	•00	
And the second second second			
AVG DAYS TO TY	PE 1 RECID	,	
	1	5	427 DAYS
	2	2	
·	_	۷	63 0445
AVE DAYS TO TYP	פר זיי		
1	· · · · · · · · · · · · · · · · · · ·		
		2	449 DAYS
		. 6	150 DAYS
•	3	3	70 DAYS
AVC DAVE TO THE			
AVG DAYS TO TY	•		
]		?	449 DAYS
7		6	150 DAYS
1	ţ	3	70 DAYS
	**************************************		9 /413
	56		

EXHIBIT 4.0-2

IDAHO ALCOHOL SAFETY ACTION PROJECT PROFILE ANALYSIS

AVERAGE IDAHO DRIVERS

	SAMPLE SIZE :		212	
SEX	•	N= (207)	
	MALES	•	144	69.5%
	FEMALES		63	30.4%
HEIGHT		N= (207)	
	AVERAGE HEIGHT		68.0	
WEIGHT		N= (206)	
	AVERAGE WEIGHT		157.7	
AGE		N= (212)	
	AVERAGE AGE		37.1	
	AGE 19 OR LESS		30	14.17
	AGE 20 - 24		36	16.97
	AGE 25 - 29		21	9.9%
	AGE 30 - 34		15	7.0%
	AGE 35 - 39		31	14.6%
	AGE 40 - 44	•	11	5.1%
	AGE 45 - 49 AGE 50 - 59		16	7.52
	AGE 60 AND OVER		26	12.2%
			26	12.27
RACE		N= (10)	
	WHITE		8	80.0%
	BLACK		0	0.0%
	AMERICAN INDIAN		2	20.0%
	MEXICAN		0	0.0%
	ORIENTAL		0	0.0%
	LATIN		0	0.0%
	OTHER RACES		0	0.0%
EMPLOYMENT		N= (10)	
	FULL-TIME		9	90.0%
·	PART-TIME		0	0.0%
	NOT EMPLOYED		1	10.0%
	HOUSEWIFE		0	0.0%
•	STUDENTS RETIPED		0	0.0%
			0	0.0%
CCCUPATION		N= (10)	
	UNEMPLOYED		1	10.0%
	PROF / TECH		1	10.0%
	CLERICAL / SALES		4	40.0%
	SERVICES		0	0.0%
	AGRICULTURE PRCCESSING	-	1	10.0%
	MACHINE TRADES		0	0.0%
	FABRICATION / REPAIR		0	0.0%
	STRUCTURAL	•	1	10.0%
	CTHER		0 2	20.0%
			۷	20.0%

YEARS IN IDAH	10 .	N= (6)	
		EARS IN IDA	21.0	
	1 2		0	0.02
•	3		1 0	16.6% 0.0%
•	4		ŏ	0.0%
	5		. 0	0.0%
	6-10 11-15	•	1	16.6%
	16-20		0 0	%0.0 %0.0
	21 AND OVE	R	4	66.6%
REHABILITATIO	N DATA	· N= (212)	•
		EF. DRIVING	15	7.0%
	ATTENDED D		7	3.3%
		OURT-SCHOOL	4	1.8%
COURT ALCOHOL			4)	
	NEGATIVE I ZERO IMPRO	M PROVEMENT	0	70.0
	IMPROVEMEN		0 1	0.0% 25.0%
		5-9	2	50.0%
		10-14	1	25.0%
		15-19 20-UP	0	0.0%
		20-07	0	0.0%
MARITAL STATU		N= (10)	
	MARRIED SINGLE		5	50.0%
	DIVORCED		3 · 0	30.0% 0.0%
	WI DOWED		ŏ	0.0%
	SEPERATED		2	20.0%
	CTHER		0	0.0%
DEPENDENTS	_	N= (7)	•
	0 1		3	42.8%
•			1 1	14.2% 14.2%
•	2 3 4	•	ō	0.0%
	4		1	14.2%
	5 6	•	0 0	0.02
	6 7		0	0.0% 0.0%
	8		0	0.0%
•	9		1 .	14.2%
	10 11+		0 0	0.0% 0.0%
RELIGION		N = 1		
	PRCTESTANT	N= (5) 1	20.0%
	CATHOLIC		2	40.0%
	JEWISH		0	0.0%
	MORMON OTHER		1	20.0%
	CITIEN		1	20.0%

	EMILETI, 4.0-2 (C)	ontinueaj	
YEARS MARRI	_	N= (1)	
	AVERAGE	27.0	
	1	0	0.0%
	2	0	0.07
	3	0	0.0%
•	4 ·	0	0.0%
	5-10	Ō	0.0%
	11-15	Ö	
	16-20	Ö	0.02
	20+	1	0.0% 100.0%
EDUCATION		N=(10)	
	AVERAGE YEARS	11.2	
	1-6	11.2	
	7-9	0	12.2%
	10		0.0%
	11	2	20.0%
	12	3	30.0%
		1	10.0%
	13	2	20.0%
	14	0	0.0%
	15	0	0.0%
	16	1	10.0%
	17 AND UP	0	0.0%
INCOME		N=(10)	
	LESS THAN \$4000	1	10.0%
	4000-5999	3	
	6000-7999	1	30.0%
	8000-9999		10.07
•	10000-11999	2	20.0%
	12000-13999	0	0.0%
		1	10.0%
	14000-15999	2	20.0%
	16000-17999	. 0	0.02
	18000-19999	. 0	0.0%
	2000C-UP	0	0.0%
BAC DATA	•	N=(24)	
AVERAGE BAC	•	.175%	
AVERAGE POSI	TIVE BAC	.182%	
	NEGATIVE	1	4.17
	.0104	ō	0.0%
	.0509	2	
	.1014	8 .	8.3%
	.1519	O .	33.32
	.2024	·5	20.8%
	.25 +	2	8.32
	·	6	25.0%
REFUSED TEST	ONCC	N=(212)	
	ONCE .	5	2.3%
	TWICE	0	0.0%
	3 OR MORE	0	0.0%
_			

	EXHIBIT 4.0-2 (CONCI	macal		
DIAGNOSTIC TE	ST SCORES AVERAGE ALCADD 1-11 12-19 20-29 30-39 40-49 50-UP	N= (4) 12.5 3 0 0 1 0	75.0% 0.0% 0.0% 25.0% 0.0% 0.0%
DRINKER CLASS	DATA PROBLEM NON-PROBLEM UNDEFINED EST. PROB. DRINKERS	N= (8) 5 2 1 8	62.5% 25.0% 12.5% 3.7%
VIOLATIONS ON	ADB 1 DWI 2 DWI 3 DWI 4 DWI 5+ DWI AVERAGE NO DWIS	N= (212) 27 10 1 1 2	12.7% 4.7% 0.4% 0.4% 0.9%
	1-2 NON A/R VIOLATION 3-4 5-6 7-8 9 UP AVERAGE NON A/R VIOL		68 18 7 2 2	32.0% 8.4% 3.3% C.9% 0.9%
	1 ACCIDENT 2 ACCIDENTS 3 ACCIDENTS 4 OR MORE AVER NO ACCIDENTS		20 6 0 0	9.42 2.87 0.02 0.03
	TIGATION DATA 1-2 MISDEMEANORS 3-4 MISDEMEANORS 5+ MISDEMEANORS AVG NO. MISDEMEANORS 1-2 FELONIES 3-4 FELONIES 5+ FELONIES AVG NO FELONIES	N= (7) 4 0 3 7.14 1 0 0	57.1% 0.0% 42.8% 14.2% 0.0% 0.0%
	1-2 A/R MISDEMEANORS 3-4 A/R MISDEMEANORS 5+ A/R MISDEMEANORS AVG NO A/R MISDEMEAN 1-2 A/R FELONIES 3-4 A/R FELONIES 5+ A/R FELONIES AVG NO A/R FELONIES	5	1 0 2 4.14 0 0 0	14.2% 0.0% 28.5% 0.0% 0.0% 0.0%

AVG	DAYS	TO TYPE	1 RECID		•	
		1		10	508	DAYS
		2		2	86	
		3	•	3	77	DAYS
		4		4	53	DAYS
		5		7	23	DAYS
AVG	DAYS	TO TYPE	2 RECID			
		1		10	508	DAYS
		2		2		DAYS
		3		3	77	DAYS
		4		4	53	DAYS
		5	•	7	23	DAYS
ΔVG	DAYS	TO TYPE	3 RECID			
		1		10	508	DAYS
		2		2		DAYS
		3		3	77	DAYS
		4	·	4	53	DAYS
		5	•	7	23	DAYS

EXHIBIT 4.0-3 IDAHO ALCOHOL SAFETY ACTION PROJECT PROFILE ANALYSIS

YEAR 2 OPERATIONAL DWIS

	SAMPLE SIZE :		400	
. SE X	MALES FEMALES	N= (289) 268 21	92.7% 7.2%
HEIGHT	AVERAGE HEIGHT	N= (281) 69.0	
WEIGHT	AVERAGE WEIGHT		281) .65.0	
AGE	AVERAGE AGE AGE 19 OR LESS AGE 20 - 24 AGE 25 - 29 AGE 30 - 34 AGE 35 - 39 AGE 40 - 44 AGE 45 - 49 AGE 50 - 59 AGE 60 AND OVER	N= (343) 35.0 45 51 56 29 38 30 29 46 19	13.17 14.87 16.38 8.47 11.08 8.77 8.47 13.48 5.57
RACE	WHITE BLACK AMERICAN INDIAN MEXICAN ORIENTAL LATIN OTHER RACES	N= (170) 151 0 11 8 0 0	88.87 0.07 6.47 4.77 0.03 0.07
EMPLOYMENT	STATUS FULL-TIME PART-TIME NOT EMPLOYED HOUSEWIFE STUDENTS RETIRED	N= (171) 121 12 23 1 8 6	70.7% 7.0% 13.4% 0.5% 4.6% 3.5%
OCCUPATION	TYPE UNEMPLOYED PROF / TECH CLERICAL / SALES SERVICES AGRICULTURE PROCESSING MACHINE TRADES FABRICATION / REPAIR STRUCTURAL OTHER	N=(168) 16 7 11 21 16 21 9 10 11	9.5% 4.1% 6.5% 12.5% 9.5% 12.5% 5.3% 5.9% 6.5% 27.3%

EXHIBIT 4.0-3 (Continued)

YEARS IN TOAH	10	N= (149)	
	AVERAGE YEAD 1 2 3 4 5 6-10 11-15 16-20 21 AND OVER	RS IN IDA	22.3 9 7 2 4 4 13 10 19	6.0% 4.6% 1.3% 2.6% 2.6% 8.7% 6.7% 12.7%
REHABILITATIO	N DATA ATTENDED DE ATTENDED DIO ATTENDED COO	CP	400) 34 31 75	8.5% 7.7% 18.7%
COURT ALCOHOL	NEGATIVE IMIZERO IMPROVE IMPROVEMENT	PROVEMENT EMENT	75) 2 0 20 34 16 1 2	2.6% 0.0% 26.6% 45.3% 21.3% 1.3% 2.6%
MARITAL STATUS	MARRIED SINGLE DIVORCED WIDOWED SEPERATED CTHER	N= (170) 79 46 28 5 10 2	46.48 27.08 16.48 2.98 5.88 1.18
DEPENDENTS	0 1 2 3 4 5 6 7 8 9 10 11+	N= {	158) 54 28 24 20 16 7 2 2 4 1 0	34.17 17.78 15.17 12.68 10.17 4.48 1.27 2.58 0.67 0.07
	PRCTESTANT CATHOLIC JEWISH MORMON OTHER	N= {	153) 55 30 0 30 38	35.9% 19.6% 0.0% 19.6% 24.8%

YEARS MARRIED	EXHIBIT 4.0-3 ((•	
TEAKS MARKIEU	AVERAGE	N=(82)	
	1	10.0	
	2	14 11	17.0%
	3	4	13.4%
	4	6	4•8 % 7•3 %
•	5-10	17	20.7%
•	11-15	8	9.78
	16-20	9	10.9%
	20+	13	15.8%
EDUCATION		N=(167)	
	AVERAGE YEARS	11.4	
	1-6	3	5.5%
	7-9	31	18.5%
	10	16	9.5%
	11	15	8.9%
	12 13	63	37.7%
	14	10	5.9%
	15	16	9.5%
	16	5 5	2.9% 2.9%
	17 AND UP	3	1.7%
THEOME			
INCOME	LECC TUAN ACOA	N=(163)	
	LESS THAN \$4000	43	26.3%
	4000 - 5999 6000 - 7999	35	21.4%
	8000-7999	29	17.7%
	10000-11999	25 14	15.3% 8.5%
	12000-13999	. 7	4.2%
	14000-15999	4	2.4%
	16000-17999	i	0.6%
	18000-19999	1	0.6%
	20000-UP	4	2.49
BAC DATA		N= (240)	
AVERAGE BAC		.148%	
AVERAGE POSITI		.150%	
·	NEGATIVE	2	0.8%
	.0104	2	0.8%
	.1014	. 34	14.1%
	.1519	. 79 77	32.9%
	.2024	33	32.0% 13.7%
	•25 +	13	5.48
REFUSED TEST		N= (400)	
	ONCE .	11	2.7%
	TWICE	ō	0.0%
	3 OR MORE	O	0.0%

DIAGNOSTIC TE		N=(103)	
	AVERAGE ALCADD	12.0	
	1-11 12-19	59	57.2%
	20-29	28	27.1%
	30-39	11 4	10.6%
•	40-49	1	3.8%
	50-UP	0	0.9% 0.0%
			0.05
ORINKER CLASS	DATA PROBLEM	N= (160)	
	NGN-PROBLEM	70 77	43.7%
	UNDEFINED	7 7 13	48.1%
	EST. PROB. DRINKERS	90	8.1% 22.5%
VIOLATIONS ON			22 • 74
VI 00N VI 0NO 0N	1 DWI	N=(400)	70 70
	2 DWI	283 76	70.7%
	3 DWI	26	19.0%
	4 DWI	10	6.5% 2.5%
	5+ DWI	5	1.2%
	AVERAGE NO DWIS	1.45	1.65
	1-2 NON A/R VIOLATIO		27.2%
	3-4 5-6	42	10.5%
	7-8	13	3.2%
	9 UP	6 3	1.5%
	AVERAGE NON A/R VIOL		0.7%
	1 ACCIDENT	69	17.2%
	2 ACCIDENTS	21	5.2%
	3 ACCIDENTS	6	1.5%
	4 OR MORE	0	0.0%
	AVER NO ACCIDENTS	•32	•
		N= (46)	
	1-2 MISDEMEANORS	27	58.6%
	3-4 MISDEMEANORS 5+ MISDEMEANORS	12	26.0%
	AVG NO. MISDEMEANORS	7	15.2%
	1-2 FELONIES	3.19 1	2 1 9
	3-4 FELONIES	0	2.1% 0.0%
	5+ FELONIES	Ö	0.02
	AVG NO FELONIES	•02	0002
	1-2 A/R MISDEMEANORS		41.37
	3-4 A/R MISDEMEANORS		8.6%
	5+ A/R MISDEMEANORS	1	2.1%
	AVG NO A/R MISDEMEAN		
	L-2 A/R FELONIES 3-4 A/R FELONIES	0	Ú.0%
	5+ A/R FELONIES	0	0.0%
	AVG NO A/R FELONIES	•00	0.0%
	The transfer of the contress	•00	

AVG DAYS TO TYPE 1 RECID (Con	ntinued)	
t	76	423 DAYS
2	52	275 DAYS
3	30	154 DAYS
4	16	69 DAYS
5	6	41 DAYS
AVG DAYS TO TYPE 2 RECID		
1	67	481 DAYS
2	56	274 DAYS
3	42	110 DAYS
4	20	87 DAYS
5	16	44 DAYS
AVG DAYS TO TYPE 3 RECID		
1	67	481 DAYS
2	56	274 DAYS
3	42	110 DAYS
4	20	87 DAYS
5	16	44 DAYS

EXHIBIT 4.0-4 IDAHO ALCOHOL SAFETY ACTION PROJECT PROFILE ANALYSIS

YEAR 1 OPERATIONAL DWIS.

	SAMPLE SIZE :		400	
SE X		N= (2071	
	MALES	14-1	297) 267	89.8%
	FEMALES		30	10.1%
HEIGHT		N= (293)	
	AVERAGE HEIGHT		68.7	
WE IGHT		N= {	293)	v
	AVERAGE WEIGHT		65.1	
AGE		N= (322)	
	AVERAGE AGE		38.1	
	AGE 19 OR LESS		19	5.9%
	AGE 20 - 24		48	14.9%
	AGE 25 - 29		48	14.9%
	AGE 30 - 34 AGE 35 - 39		28	8.6%
•	AGE 40 - 44		34	10.5%
	AGE 45 - 49		29 41	9.0%
	AGE 50 - 59		50	12.7% 15.5%
	AGE 60 AND OVER		25	7.7%
RACE	•	N= (164)	
	WHITE	14-4	135	82.3%
	BLACK		1	0.68
	AMERICAN INDIAN		13	7.9%
	MEXICAN		13	7.9%
	ORIENTAL		1	0.6%
	LATIN		0	0.0%
	OTHER RACES		1	0.6%
EMPLOYMENT		N= (166)	
•	FULL-TIME		121	72.8%
	PART-TIME NOT EMPLOYED		8	4.8%
	HOUSEWIFE		18	10.8%
	STUDENTS		3 7	1.8%
	RETIRED		9.	4.2% 5.4%
OCCUPATION	TYPE	N= (165)	
•	UNEMPLOYED	14- (20	12.1%
	PROF / TECH		14	8.43
	CLERICAL / SALES		12	7.2%
	SERVICES		19	11.5%
	AGRICULTURE		14	8.4%
	PRICESSING		21	12.7%
	MACHINE TRADES		7	4.2%
	FABRICATION / REPAIR		9	5.4%
	STRUCTURAL OTHER		8	4.8%
	CTILK		41	24.8%

EXHIBIT 4.0-4 (Continued)

YEARS IN IDAH	0	N= (80)	
	AVERAGE YEARS IN I 1 2 3 4		23.9 2 4 2 2 2	2.5% 5.0% 2.5% 2.5%
	5 6-10 11-15 16-20 21 AND OVER		2 10 8 11 39	2.5% 12.5% 10.0% 13.7% 48.7%
REHABILITATIO	N DATA ATTENDED DEF. DRIV: ATTENDED DICP ATTENDED COURT-SCHO		400) 39 44 73	9.7% 11.0% 18.2%
COURT ALCOHOL	SCHOOL DATA NEGATIVE IMPROVEMENT ZERO IMPROVEMENT IMPROVEMENT 1-4 5-9 10-14 15-19 20-UP	N= (N T	73) 3 0 19 31 14 3 3	4.1% 0.0% 26.0% 42.4% 19.1% 4.1%
MARITAL STATUS	MARRIED SINGLE DIVORCED WIDOWED SEPERATED OTHER	N= (165) 73 43 27 10 11	44.28 26.08 16.38 6.08 6.68 0.68
DEPENDENTS	0 1 2 3 4 5 6 7 8 9 10 11+	N= (90) 30 22 11 10 6 5 1 0 0	33.3% 24.4% 12.2% 11.1% 6.6% 5.5% 1.1% 0.0% 0.0% 0.0%
	PROTESTANT CATHOLIC JEWISH MORMON OTHER	N= (81) 26 15 0 14 26	32.0% 18.5% 0.0% 17.2% 32.0%

YEARS MARRIED	EXHIBIT 4.0-4		
	AVERAGE 1 2 3 4 5-10 11-15 16-20 20+	N=(51) 13.1 6 6 3 3 10 2 5 16	11.7% 11.7% 5.8% 5.8% 19.6% 3.9% 9.8% 31.3%
EDUCATION	AVERAGE YEARS 1-6 7-9 10 11 12 13 14 15 16 17 AND UP	N=(164) 11.1 9 27 23 13 58 13 10 1	7.7% 16.4% 14.0% 7.9% 35.3% 7.9% 6.0% 0.6% 4.2% 1.8%
INCOME	LESS THAN \$4000 4000-5999 6000-7999 8000-9999 10000-11999 12000-13999 14000-15999 16000-17999 18000-19999 20000-UP	N=(163) 54 38 26 21 10 5 2 2 0 5	33.1% 23.3% 15.9% 12.8% 6.1% 3.0% 1.2% 1.2% 0.0% 3.0%
	VE BAC NEGATIVE .0104 .0509 .1014 .1519 .2024 .25 +	N=(224) •158% •161% 3 3 23 65 73 41 16	1.3% 1.3% 10.2% 29.0% 32.5% 18.3% 7.1%
•	ONCE TWICE 3 CR MORE	N= (400) 22 1 0	5.5% 0.2% 0.0%

EXHIBIT 4.0-4 (Continued)

	EXHIBIT 4.0-4 (Con	tinue	1)	
DIAGNOSTIC TE	ST SCORES	N= (57)	
	AVERAGE ALCADD	•	11.5	
	1-11		36	63.1%
	12-19		11	19.23
	20-29		7	
	30-39			12.23
	40-49		2	3.5%
•			1	1.7%
	50-UP		0	0.0%
DRINKER CLASS	•	N= (135)	
	PROBLEM		42	31.1%
	NON-PROBLEM		78	57.7%
	UNDEFINED		15	11.1%
	EST. PROB. DRINKERS		90	22.5%
VIOLATIONS ON	ADB	N= (400)	
	1 DWI		267	66.7%
	2 DWI		99	24.7%
	3 DWI		21	5.28
	4 DWI		11	
	5+ DWI		2	2.78
	AVERAGE NO DWIS		1.46	0.5%
	AVERAGE NO DWIS		1.40	•
	1-2 NON A/R VIOLATION	ONS	137	34.2%
	3-4		25	6.2%
	5-6		14	3.5%
	7-8		3	0.7%
	9 UP		i	0.2%
	AVERAGE NON A/R VIOL	L	•95	0.24
	1 ACCIDENT		75	18.7%
	2 ACCIDENTS		19	4.78
	3 ACCIDENTS		12	
	4 CR MORE		1	3.0%
	AVER NO ACCIDENTS		_	0.2%
			•38	
CRIMINAL INVES	STIGATION DATA	N= (66)	
	1-2 MISDEMEANORS		29	43.9%
	3-4 MISDEMEANORS		13	19.6%
•	5+ MISDEMEANORS		24	36.3%
	AVG NO. MISDEMEANORS		5.21	
	1-2 FELONIES		0	0.0%
	3-4 FELONIES		0	0.0%
	5+ FELGNIES		2	3.0%
,	AVG NO FELONIES		•15	
•	1-2 A/R MISDEMEANORS	3	18	27.2%
	3-4 A/R MISDEMEANORS		3	4.5%
•	5+ A/R MISDEMEANURS		6	9.0%
•	AVG NO A/R MISDEMEAN	IORS	1.43	> • • •
	1-2 A/R FELONIES		1	1.5%
	3-4 A/R FELONIES		Ô	0.0%
	5+ A/R FELONIES		o o	0.0%
	AVG NO A/R FELONIES		.01	U • U *
	ATO HE WAY FELUNICS		• • 1	-

AVG DAYS TO TYPE 1 RECID 4.0-4	(Continued)	
1	99	322 DAYS
2	42	177 DAYS
3	33	96 DAYS
AVG DAYS TO TYPE 2 RECID		
· 1	. 87	368 DAYS
2	58	141 DAYS
3	42	97 DAYS
4	4	81 DAYS
5	10	54 DAYS
AVG DAYS TO TYPE 3 RECID		
. 1	87	368 DAYS
2	58	141 DAYS
3	42	ST DAYS
4	4	81 DAYS
,	10	54 DAYS

EXHIBIT 4.0-5 IDAHO ALCOHOL SAFETY ACTION PROJECT PROFILE ANALYSIS

BASELINE DWIS

•	SAMPLE SIZE :		400	
SEX	,	N- 1	253)	
	MALES	14-1	229	90.5%
	FEMALES		24	9.48
HEIGHT		A1 4	2221	
	AVERAGE HEIGHT	14= (232) 69.0	
			37.0	
WEIGHT	AVERACE LIFTOUT		2321	
	AVERAGE WEIGHT		165.9	
AGE		N= (3901	
	AVERAGE AGE		39.4	
	AGE 19 OR LESS		4	1.0%
	AGE 20 - 24		46	11.7%
	AGE 25 - 29 AGE 30 - 34		70	17.9%
	AGE 35 - 39		53	13.5%
	AGE 40 - 44		42 32	10.7%
	AGE 45 - 49		43	8.2 % 11.0%
	AGE 50 - 59		66	16.9%
	AGE 60 AND OVER		34	8.7%
RACE				
\ACC	WHITE	N= (1)	
	BLACK		0	0.0%
	AMERICAN INDIAN		0	0.0% 100.0%
	MEXICAN		0	0.0%
	ORIENTAL		0	0.0%
	LATIN		Ö	0.0%
	OTHER RACES		0	0.0%
EMPLOYMENT	STATUS	N= (1)	
	FULL-TIME	14-1	0	0.0%
•	PART-TIME		Ö	0.0%
	NOT EMPLOYED		ì	100.0%
	HOUSEWIFE		0	0.0%
	STUDENTS		0	0.0%
	RETIRED		0	0.0%
OCCUPATION	TYPE	N= (1)	
•	UNEMPLOYED	,	ī	100.03
	PROF / TECH		ō	0.0%
	CLERICAL / SALES		0	0.0%
	SERVICES		0	0.0%
	AGRICULTUP 5		0	0.0%
	PROCESSING		0	0.0%
	MACHINE TRADES	,	0	0.0%
	FABRICATION / REPAIR STRUCTURAL	•	0	0.0%
	OTHER		0	0.0%
	-		9	0.0%

•			
	EXHIBIT 4.0-5 (C	ontinued)	
REHABILITATI	ON DATA	N= (400)	
	ATTENDED DEF. DR	IVING 12	
	ATTENDED DICP	7	3.0%
MARITAL STAT	us	N=(1)	1.7%
	MARRIED	1	100.07
,	SINGLE	Ô	80.0
	DIVORCED	Ŏ	0.0%
	WIDOWED	Õ	0.0%
	SEPERATED	Õ	0.0%
	OTHER	o	0.0%
50	•	_	
EDUCATION		N= (1)	
	AVERAGE YEARS	11.0	
	1-6	0	8.7%
	7-9	0	0.0%
	10	0	0.0%
,	11	1	100.0%
	12	0	0.0%
•	13	0	0.0%
	14	0	0.0%
	15	0	0.0%
	16	. 0	0.0%
	17 AND UP	O	0.0%
INCOME			
THOOME	LECC THAN ACOO	$N=(\qquad 1)$	
	LESS THAN \$4000	0	0.0%
	4000-5999	1	100.02
	6000-7999	0	0.0%
	8000-9999	0	0.0%
	10000-11999	0	0.0%
	12000-13999 14000-15999	0	0.0%
	16000-17999	0	0.0%
	18000-17999	0	0.0%
	20000-UP	0	0.0%
	20000-02	0	0.0%
BAC DATA		N=(68)	
AVERAGE BAC		·	
AVERAGE POSIT	IVE BAC	•197% •197%	
,	NEGATIVE	• 1974	0.00
	.0104	. 1	0.0%
	.0509	3	1.48
	.1014	12	4.4% 17.6%
	•15 - •19	23	33.8%
	.2024	13	19.1%
	•25 +	16	23.5%
		• •	E-J-6-J-M
REFUSED TEST		N= (400)	
	ONCE	10	2.5%
	TWICE	0	0.0%
	3 OR MORE	0	0.0%
•			

PROB PROB NON- UNDE		0) 0 1 0 20	0.0% 100.0% 0.0% 5.0%
VIOLATIONS ON ADB 1 DW 2 DW 3 DW 4 DW 5+ DI AVER	I I I	400) 327 67 5 0 1	81.7% 16.7% 1.2% 0.0% 0.2%
3-4 5-6 7-8 9 UP	NON A/R VIOLATIONS AGE NON A/R VIOL	84 21 1 0 0	21.0% 5.2% 0.2% 0.0% 0.0%
2 AC 0 3 AC 0 4 DR	CIDENT CIDENTS CIDENTS MORE NO ACCIDENTS	14 0 0 0 0	3.5% 0.0% 0.0% 0.0%
AVG DAYS TO TYPE 1	RECID	67 10	266 DAYS 148 DAYS
AVG DAYS TO TYPE 2	RECID	67 10	266 DAYS 148 DAYS
AVG DAYS TO TYPE 3	RECID	67 10	266 DAYS 148 DAYS

EXHIBIT 4.0-6 IDAHO ALCOHOL SAFETY ACTION PROJECT PROFILE ANALYSIS

AEP DWIS 1974

·	SAMPLE SIZE :		400		
SEX	MALES Females	N= (258) 226 32	·	87.5% 12.4%
HEIGHT	AVERAGE HEIGHT	N= (249) 68.9	-	
WEIGHT	AVERAGE WEIGHT		249) 161.3		
AGE	AVERAGE AGE AGE 19 OR LESS AGE 20 - 24 AGE 25 - 29 AGE 30 - 34 AGE 35 - 39 AGE 40 - 44 AGE 45 - 49 AGE 50 - 59 AGE 60 AND OVER	N= (288) 35.7 26 53 42 30 27 28 37 25 20		9.0% 18.4% 14.5% 10.4% 9.3% 9.7% 12.8% 8.6% 6.9%
RACE	WHITE BLACK AMERICAN INDIAN MEXICAN ORIENTAL LATIN OTHER RACES	N= (141) 129 1 4 5 0 0		91.4% 0.7% 2.8% 3.5% 0.0% 0.0%
EMPLOYMENT	STATUS FULL-TIME PART-TIME NOT EMPLOYED HOUSEWIFE STUDENTS RETIRED	N= (143) 104 9 18 4 2 6		72.7% 6.2% 12.5% 2.7% 1.3% 4.1%
OCCUPATION	TYPE UNEMPLOYED PROF / TECH CLERICAL / SALES SERVICES AGRICULTURE PROCESSING MACHINE TRADES FABRICATION / REPAIR STRUCTURAL OTHER	N= (140) 18 14 6 12 5 17 5 10 10 43		12.8% 10.0% 4.2% 8.5% 3.5% 12.1% 3.5% 7.1% 7.1% 30.7%

EXHIBIT	4.0-6	(Continued)	j
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	EXHIBIT 4.0-6	(Continued	1)	
YEARS IN IDAH	10	N= (119)	
	AVERAGE YEARS	IN IDA	22.6	
•	1		5	/ 20
	2		5	4.28
	2 3		2	4.2%
e e e e e e e e e e e e e e e e e e e	4		2	1.6%
•	5			4.2%
	6-10		4	3.3%
			12	10.0%
	11-15		13	10.9%
	16-20		8	6.7%
	21 AND OVER		65	54.6%
REHABILITATIO		N= (400)	
	ATTENDED DEF.	DRIVING	33	8.2%
	ATTENDED DICP		53	13.2%
	ATTENDED COURT	-s chani	83	20.7%
COURT ALCOHOL				20 • 7 •
COCK! ALCOHOL	SCHOOL DATA	N= (83)	
	NEGATIVE IMPRO	DVEMENT	1	1.2%
	ZERO IMPROVEME		0	0.0%
	IMPROVEMENT 1-		31	37.3%
	5-	.9	36	43.3%
	10 -1	4	10	12.0%
•	15-1	9	2	2.4%
	20 <i>-</i> U	P	3	3.6%
MADITAL CTITUE			_	3404
MARITAL STATUS		N= {	144)	
	MARRIED		74	51.3%
	SINGLE		30	20.8%
	DIVORCED		32	22.2%
	WIDOWED		2	1.3%
	SEPERATED		6	4.18
	GTHER		Ö	0.0%
DEPENDENTS				3.53
or, chocking	٥	N= (131)	
	0 1		39	29.7%
			23	17.5%
	2 3		20	15.2%
	3		. 13	9.9%
	4		23	17.5%
	5		9 2	6.8%
	6		2	1.5%
	7		1	0.7%
	8		0	0.0%
	9		Ō	0.0%
	10		i	0.7%
	11+		. 0	0.0%
RELIGION				
	00 OT	N= (122)	
	PROTESTANT		57	46.7%
	CATHOLIC		23	18.8%
	JEWISH		•0	0.03
	MORMON		20	16.3%
(OTHER .		22	18.0%

	EXHIBIT 4.0-6	(Continued)	
YEARS MARRIED		N=(73)	
	AVERAGE	13.2	
	1	6	8.2%
	2	5	6.8%
	3	4	5.4%
	4	5	6.8%
•	5-10	13	17.8%
	11-15 16-20	14	19.1%
	20+	10 16	13.6% 21.9%
	201	.10	21.74
EDUCATION		N= (141)	
	AVERAGE YEARS	11.0	
	1-6	5	6.9%
	7-9 10	25	17.7%
	11	12	8.5%
	12	20 59	14.1%
	13	6	41.8%
	14	9	6.3%
	15	í	0.7%
	16	4	2.8%
	17 AND UP	0	0.0%
INCOME		N=(133)	
11100112	LESS THAN \$4000	40	30.0%
	4000-5999	22	16.5%
	6000-7999	26	19.5%
	8000-9999	20	15.0%
	10000-11999	10	7.5₹
	12000-13999	1	0.7%
	14000-15999	7	5.2%
	16000-17999	0	0.0%
	18000-19999	2 5	1.5%
	20000-UP	5	3.7%
BAC DATA		N=(291)	
AVERAGE BAC	,	. 142%	
AVERAGE POSITI		143%	
	NEGATIVE	3	1.0%
	.0104	10	3.4%
	.0509	41	14.0%
	.1014	93	31.9%
	•15 - •19 •20 - •24	97 40	33.3%
	.25 +	40 7	13.7% 2.4%
	-	•	20.0
REFUSED TEST	ONCE	N=(400)	. ==
	ONCE TWICE	19	4.7%
	3 OR MORE	. 0	0.0%
	שאטיין אט כ	J	0.0%

EXHIBIT	4.0-6	(Continued)

	EXHIBIT 4.0-6 (Co	ntinued)	
DIAGNOSTIC TE	ST SCORES	N=(97)	
	AVERAGE ALCADD	11.9	
	1-11	52	53.6%
	12-19	33	34.0%
	20-29	9	9.2%
	30-39	3	3.0%
•	40-49	0	0.0%
	50-UP	0	0.0%
DRINKER CLASS	DATA		
SKIAVER CEMP2	PROBLEM	N=(133)	-
	NON-PROBLEM	51	38.3%
	UNDEFINED	71.	53.3%
	EST. PROB. DRINKER	11 S 92	8.2%
	ESTS TROBE BRINKER	3 72	23.0%
VIOLATIONS ON	ADB	N=(400)	
	1 DWI	285	71.2%
	2 DWI	73	18.2%
	3 DWI	29	7.2%
	4 DWI	10	2.5%
	5+ DWI	3	0.7%
	AVERAGE NO DWIS	1.43	
	1-2 NON A/O WINA	• • • • • • •	
	1-2 NON A/R VIOLAT		24.2%
	5 - 6	29	7.2%
	7-8	10 4	2.5%
	9 UP	2	1.0%
	AVERAGE NON A/R VI		0.5%
		•05	
	1 ACCIDENT	53	13.2%
	2 ACCIDENTS	16	4.0%
	3 ACCIDENTS	2	0.5%
	4 OR MORE	1	0.2%
	AVER NO ACCIDENTS	.24	
CRIMINAL INVES	TICATION DATA		
OKTATIONE THACS	TIGATION DATA 1-2 MISDEMEANORS		
	3-4 MISDEMEANORS	15	38.4%
	5+ MISDEMEANORS	14 10	35.8%
	AVG NO. MISDEMEANOR	10	25.6₹
•	1-2 FELONIES	1	2.5%
	3-4 FELONIES	ī	2.5%
	5+ FELONIES	ō	0.0%
	AVG NO FELONIES	.10	
	1-2 A/R MISDEMEANOR	.S 20	51.2%
	3-4 A/R MISDEMEANOR	S 4	10.2%
	5+ A/R MISCEMEANORS	1	2.5%
	AVG NO A/R MISDEMEA	•	
	1-2 A/R FELONIES	0	0.0%
	3-4 A/R FELONIES 5+ A/R FELONIES	0	0.0%
	AVG NO AZR FELONIES	0	0.0%
<i>'</i>	THE MER PERSONNES	.00	

AVG	DAYS	TO TYPE	EXHIBIT 4.0-6 1 RECID	(Continued)	
		1		7 3	442 DAYS
		2		5 &	225 DAYS
		3		30	122 DAYS
		4		. 8	90 DAYS
		5		5	72 DAYS
AVG	DAYS	TO TYPE	2 RECID		
		1		66	495 DAYS
		2		5 <i>2</i>	237 DAYS
		3		57	107 DAYS
		. 4		12	71 DAYS
		5		5	72 DAYS
AVG	DAYS	TO TYPE	3 RECID	•	
		1		66	495 DAYS
		2		52	237 DAYS
		3		57	107 DAYS
		4		12	71 DAYS
		5		5	72 DAYS

EXHIBIT 4.0-7 IDAHO ALCOHOL SAFETY ACTION PROJECT PROFILE ANALYSIS

AEP DWIS 1973

	SAMPLE SIZE :	400	
SE X	MALES FEMALES	N=(261) 247 14	94.6% 5.3%
HEIGHT	AVERAGE HEIGHT	N=(255) 69.5	
WEIGHT	AVERAGE WEIGHT	N=(255) 166.6	
AGE	AVERAGE AGE AGE 19 OR LESS AGE 20 - 24 AGE 25 - 29 AGE 30 - 34 AGE 35 - 39 AGE 40 - 44 AGE 45 - 49 AGE 50 - 59 AGE 60 AND OVER	N=(285) 38.6 12 34 44 42 29 24 34 46 20	4.2% 11.9% 15.4% 14.7% 10.1% 8.4% 11.9% 16.1% 7.0%
RACE	WHITE BLACK AMERICAN INDIAN MEXICAN ORIENTAL LATIN OTHER RACES	N=(157) 145 0 6 6 0 0	92.3% 0.0% 3.8% 3.8% 0.0% 0.0%
EMPLOYMENT	STATUS FULL-TIME PART-TIME NOT EMPLOYED HOUSEWIFE STUDENTS RETIRED	N=(159) 130 5 18 1 2	81.7% 3.1% 11.3% 0.6% 1.2% 1.8%
OCCUPATION	TYPE UNEMPLOYED PROF / TECH CLERICAL / SALES SERVICES AGRICULTURE PROCESSING MACHINE TRADES FABRICATION / REPAIR STRUCTURAL CTHER	N= (156) 13 12 15 23 11 16 6 12 12 12 36	8.3% 7.6% 9.6% 14.7% .7.0% 10.2% 3.3% 7.6% 7.6% 23.0%

	EXHIBIT	4.0-7 (Contin	ued)	
YEARS IN IDAH	0	N	= (97)
	AVERAGE Y	EARS IN IDA		•
	1		3	3.0%
	2 3		0	0.0%
			6	6.1%
	4		2	2.0%
	5		1	1.0%
	6-10		8	8.2%
	11-15		5	5.1%
	16-20	55	11	11.3%
	21 AND OV	EK	61	62.8%
REHABILITATIO			= (400)	
		DEF. DRIVING	29	7.2%
	ATTENDED		31	7.7%
	ATTENDED	COURT-SCHOOL	63	15.7%
COURT ALCOHOL	SCHOOL DA	TΔ N:	= (63)	\
		IMPROVEMENT	2	3.1%
	ZERO IMPRI		Õ	0.0%
	IMPROVEME		18	28.5%
		5-9	27	42.8%
		10-14	8	12.6%
		15-19	4	6.3%
		20-UP	4	6.3%
MARITAL STATUS	5	N:	=(160)	
	MARRIED	.,,	80	50.0%
	SINGLE		36	22.5%
	DIVORCED		32	20.0%
	WIDOWED		4	2.5%
	SEPERATED		7	4.3%
·	CTHER		1	0.6%
DEPENDENTS		N=	:(110)	
oe, endent	0	14-	31	29.17
			22	20.0%
	1 2 3 4		21	19.0%
	3		13	11.8%
	4		9	8.1%
	5		4	3.6%
	6	•	4	3.6%
	7		2	1.87
	8		1	0.9%
	9		2	1.8%
	10		1	0.9%
	11+		0	0.0%
RELIGION		N=	(105)	
	PROTESTANT		33	31.4%
	CATHOLIC		16	15.2%
	JEWISH		0	0.0%

JEWISH

MORMON

CTHER

0

21

35

0.0%

20.0%

VEADE MADOICO	EXHIBIT 4.0-7	(Continued)	
YEARS MARRIED	AVEDACE	N=(65)	
	AVERAGE 1	12.8	
	2	3	4.6%
	3	5 5	7.6%
	4	5	7.6% 7.6%
	5-10	15	23.0%
,	11-15	10	15.3%
	16-20	7	10.7%
	20+	15	23.0%
EDUCATION		N=(157)	
	AVERAGE YEARS	10.9	
,	1-6	6	7.0%
	7-9	37	23.5%
	10	12	7.6%
	11	14	8.9%
	12 13	58	36.9%
	14	9	5.78
	15	11 5	7.0%
	16	4	3.1% 2.5%
•	17 AND UP	1	0.6%
		-	0.00
INCOME	•	N=(155)	
	LESS THAN \$4000	30	19.3%
	4000-5999	. 20	12.9%
	6000-7999	42	27.0%
	8000-9999	29	18.7%
	10000-11999 12000-13999	20	12.9%
	14000-15999	8 3	5.1%
	16000-17999	0	1.9% 0.0%
•	18000-19999	2	1.2%
	20000-UP	ī	0.6%
BAC DATA		N=(261)	
AVERAGE BAC		.161%	
AVERAGE POSITI	VE BAC	.163%	
	NEGATIVE	4	1.5%
	.0104	2	0.7%
	.0509	. 27	10.3%
	.1014	73	27.98
	.1519	89	34.0%
• •	•20 - •24 •25 +	42 24	16.0%
		۷٦	フ⊕ 1. 4
REFUSED TEST	Ou of	N= (400)	
	ONCE	20	5.0%
	TWICE	0	0.0%
	3 OR MORE	0	0.0%

DIAGNOSTIC TE	EXHIBIT 4.0-7 (Continu		
DIAGRUSTIC TE	ST SCORES N= AVERAGE ALCADD	13.8	
	1-11	37	48.6%
	12-19	23	30.2%
	20-29	10	13.1%
	30-39	3	3.9%
•	40-49	3	3.9%
	50-UP	ō	0.0%
			•
DRINKER CLASS	• •	(153)	
	PROBLEM	64	41.8%
	NON-PROBLEM	74	48.3%
	UNDEFINED	15	9.8%
	EST. PROB. DRINKERS	82	20.5%
VIOLATIONS ON		(400)	
	1 DWI	302	75.5%
	2 DWI	60	15.0%
	3 DWI	25	6.2%
	4 DWI	11	2.7%
	5+ DWI	2	Q•5 %
	AVERAGE NO DWIS	1.38	
	1-2 NON A/R VIOLATIONS	95	23.7%
	3-4	28	7.0%
	5-6	9	2.2%
•	7-8	3	0.7%
	9 UP	0	0.0%
•	AVERAGE NON A/R VIOL	•71	
	1 ACCIDENT	55	13.7%
	2 ACCIDENTS	12	3.0%
	3 ACCIDENTS	0	0.0%
	4 OR MORE	4	1.0%
	AVER NO ACCIDENTS	• 24	
CRIMINAL INVES	TIGATION DATA N=	(68)	
	1-2 MISDEMEANORS	37	54.48
	3-4 MISDEMEANORS	11	16.1%
•	5+ MISDEME ANORS	20	29.48
	AVG NO. MISDEMEANORS	4.00	
	1-2 FELONIES 3-4 FELONIES	5	7.3%
	5+ FELONIES	0 1	0.0%
	AVG NO FELONIES	.19	1,48
	1-2 A/R MISDEMEANORS	32	47.0%
	3-4 A/R MISDEMEANORS	8	11.7%
	5+ A/R MISDEMEANORS	2	2.9%
	AVG NO A/R MISDEMEANORS		
	1-2 A/R FELONIES	4	5.8%
	3-4 A/R FELONIES	0	0.0%
	5+ A/R FELCNIES	0	0.0%
	AVG NO A/R FELONIES	.07	

AVG	DAYS	TO	TYPE	EX	HIBIT 4.0-7	(Continued)			
			1				60	515	DAYS
			2				50		DAYS
			3				33		DAYS
			4				4		DAYS
			5				5	and the second s	DAYS
AVG	DAYS	TC	TYPE	2	RECID				
			1				54	515	DAYS
			2				58		DAYS
			3				27		DAYS
			4				20		DAYS
			5				5		DAYS
AVG	DAYS	TG	TYPE	3	RECID				
			1				54	515	DAYS
			2				58		DAYS
			3				27		DAYS
			4				20		DAYS
			5				5		DAYS

EXHIBIT 4.0-8 IDAHO ALCOHOL SAFETY ACTION PROJECT PROFILE ANALYSIS

REG DWIS 1974

	SAMPLE SIZE :	400	
SEX	MALES FEMALES	N=(339) 304 35	89.6% 10.3%
HEIGHT	AVERAGE HEIGHT	N=(339) 69.2	
WE IGHT	AVERAGE WEIGHT	N=(339) 161.2	
AGE	AVERAGE AGE AGE 19 DR LESS AGE 20 - 24 AGE 25 - 29 AGE 30 - 34 AGE 35 - 39 AGE 40 - 44 AGE 45 - 49 AGE 50 - 59 AGE 60 AND OVER	N=(352) 35.3 42 67 55 27 26 31 31 53 20	11.9% 19.0% 15.6% 7.6% 7.3% 8.8% 8.8% 15.0% 5.6%
RACE	WHITE BLACK AMERICAN INDIAN MEXICAN ORIENTAL LATIN OTHER RACES	N=(205) 185 0 11 6 2 0	90.2% 0.0% 5.3% 2.9% 0.9% 0.0%
EMPLOYMENT	STATUS FULL-TIME PART-TIME NOT EMPLOYED HOUSEWIFE STUDENTS RETIRED	N=(203) 138 10 34 2 10 9	67.9% 4.9% 16.7% 0.9% 4.9% 4.4%
OCCUPATION	TYPE. UNEMPLOYED PROF / TECH CLERICAL / SALES SERVICES AGRICULTURE PROCESSING MACHINE TRADES FABRICATION / REPAIR STRUCTURAL OTHER	N=(202) 31 20 10 21 11 17 4 10 9	15.3% 9.9% 4.9% 10.3% 5.4% 8.4% 1.9% 4.9% 4.4%

EXHIBIT 4.0-8 (Continued)

YEARS IN IÚAH	O N=(AVERAGE YEARS IN IDA	181)	
	1 2 3 4 5 6-10 11-15 16-20 21 AND OVER	14 11 3 4 3 13 7 35 91	7.78 6.08 1.68 2.28 1.68 7.19 3.88 19.38 50.28
REHABILITATIO	N DATA N= (ATTENDED DEF. DRIVING ATTENDED DICP ATTENDED COURT-SCHOOL	400) 35 36 74	8.7% 9.0% 18.5%
COURT ALCOHOL	SCHOOL DATA N=(NEGATIVE IMPROVEMENT ZERO IMPROVEMENT IMPROVEMENT 1-4 5-9 10-14 15-19 20-UP	74) 2 0 33 29 6 2	2.7% 0.0% 44.5% 39.1% 8.1% 2.7% 2.7%
MARITAL STATU	S N= (MARRIED SINGLE DIVORCED WIDOWED SEPERATED OTHER	208) 97 58 40 3 10	46.6% 27.8% 19.2% 1.4% 4.8% 0.0%
DEPENDENTS	N= (0 1 2 3 4 5 6 7 8 9 10 11+	196) 62 45 30 20 25 9 3 1 0	31.6x 22.9x 15.3x 10.2x 12.7x 4.5x 0.5x 0.5x 0.5x 0.0x 0.0x
RELIGION	PROTESTANT CATHOLIC JEWISH MORMON CTHER	183) 69 39 0 32 43	37.7% 21.3% 0.0% 17.4% 23.4%

*			
YEARS MARRIED	EXHIBIT 4.0-8	(Continued) N=(100)	
	AVERAGE	14.0	
	1	13	13.0%
	2	8	8.0%
	3	· 5	5.0%
	4	2	2.0%
•	5-10	. 23	23.0%
	11-15	11	11.0%
	16-20	6	6.0%
	20+	32	32.0%
EDUCATION		N=(204)	
	AVERAGE YEARS	11.3	
	1-6	3	5.68
	7-9	39	19.1%
	10 11	24	11.7%
	12	19	9.3%
	13	77	37.7%
	14	11 13	5.3%
	15	7	6.3% 3.4%
	16	9	७•५५ ५ . 4%
	17 AND UP	2	0.9%
INCOME			0 7 7 3
INCOME	LESS THAN \$4000	N=(193)	_
	4000-5999	58	30.0%
	6000-7999	36 35	18.6%
	8000-9999	27	18.1%
	10000-11999	12	13.9% 6.2%
	12000-13999	9	4.68
	14000-15999	3	1.5%
	16000-17999	1	0.5%
	18000-19999	5	2.5%
	20000-UP	7	3.6%
BAC DATA		N=(276)	
AVERAGE BAC		.152%	
AVERAGE POSITI		• 156%	
	NEGATIVE	7	2.5%
	.0104	7	2.5%
	•05 - •09	20	7.2%
	•10 - •14 •15 - •19	93	33.6%
	.2024	89	32.2%
	.25 +	40 20	14.4% 7.2%
			1.64.6
REFUSED TEST	ONCE	N=(400)	
	TWICE	21	5.2%
	3 OR MORE	0 .	0.0%
		0	0.0%

DIAGNOSTIC TE	EXHIBIT 4.0-8 (Continue ST SCORES N= 0 AVERAGE ALCADD 1-11 12-19 20-29 30-39 40-49 50-UP		60.0% 25.3% 10.0% 3.3% 1.3% 0.0%
DRINKER CLASS	DATA N= (PROBLEM NON-PROBLEM UNDEFINED EST. PROB. DRINKERS	194) 77 102 15 103	39.6% 52.5% 7.7% 27.0%
VIOLATIONS ON	ADB N={ 1 DWI 2 DWI 3 DWI 4 DWI 5+ DWI AVERAGE NO DWIS	400) 287 77 29 3 4	71.78 19.28 7.28 0.78 1.0%
	1-2 NON A/R VIOLATIONS 3-4 5-6 7-8 9 UP AVERAGE NON A/R VIOL	125 41 13 9 1	31.2% 10.2% 3.2% 2.2% 0.2%
CO IMILAL INVES	1 ACCIDENT 2 ACCIDENTS 3 ACCIDENTS 4 OR MORE AVER NO ACCIDENTS	62 21 6 1 •31	15.5% 5.2% 1.5% 0.2%
	TIGATION DATA N=(1-2 MISDEMEANORS 3-4 MISDEMEANORS 5+ MISDEMEANORS AVG NO. MISDEMEANORS 1-2 FELONIES	45) 26 7 12 3.00	57.7% 15.5% 26.6%
	3-4 FELONIES 5+ FELONIES AVG NO FELONIES 1-2 A/R MISDEMEANORS 3-4 A/R MISDEMEANORS 5+ A/R MISDEMEANORS AVG NO A/R MISDEMEANORS	0 0 •02 23 4	0.0% 0.0% 51.1% 8.8% 2.2%
	1-2 A/R FELONIES 3-4 A/R FELONIES 5+ A/R FELONIES 4V - A/R FELONIES	1 0 0	2.2%

∿√G	DAYS	LIYPE	EXHIBIT 4.0-8	(Continued)	
		1		77	422 TAYS
		2		58	179 DAYS
		3		9	81 DAYS
		4		4	81 DAYS
		• 5		18	57 DAYS
AVG	DAYS	TO TYPE	2 RECID		
		1		72	448 DAYS
		2		62	204 DAYS
		3		. 18	· 80 DAYS
AVG	DAYS	TC TYPE	3 RECID		
		1		72	448 DAYS
		2		62	204 DAYS
		3		18	80 DAYS

EXHIBIT 4.0-9 IDAHO ALCOHOL SAFETY ACTION PROJECT PROFILE ANALYSIS

REG DWIS 1973

•	SAMPLE SIZE :	400	4
SE X	MALES FEMALES	N=(283) 249 34	87.9% 12.0%
не і снт	AVERAGE HEIGHT	N=(256) 68.9	
WEIGHT	AVERAGE WEIGHT	N=(255) 162.9	
AGE	AVERAGE AGE AGE 19 OR LESS AGE 20 - 24 AGE 25 - 29 AGE 30 - 34 AGE 35 - 39 AGE 40 - 44 AGE 45 - 49 AGE 50 - 59 AGE 60 AND OVER	N=(350) 36.6 23 53 61 38 42 30 32 52 19	6.58 15.18 17.48 10.88 12.08 8.58 9.18 14.88 5.48
RACE	WHITE BLACK AMERICAN INDIAN MEXICAN ORIENTAL LATIN OTHER RACES	N=(131) 112 2 7 8 0 1	85.4% 1.5% 5.3% 6.1% 0.0% 0.7% 0.7%
EMPLCYMENT	STATUS FULL-TIME PART-TIME NOT EMPLOYED HOUSEWIFE STUDENTS RETIRED	N=(.135) 95 . 9 26 1 2 2	70.3% 6.6% 19.2% 0.7% 1.4%
CCCUPATION	TYPE UNEMPLOYED PROF / TECH CLERICAL / SALES SERVICES AGRICULTURE PROCESSING MACHINE TRADES FABRICATION / REPAIR STRUCTURAL CTHER	N=(133) 20 11 7 15 17 15 6 4 12 26	15.08 8.28 5.28 11.28 12.78 11.28 4.58 3.08 9.08

EXHIBIT 4.0-9 (Continued)

YEARS IN IDA	10	N=	(53)	
	AVERAGE YE	ARS IN IDA	20.8	
	1		5	9.4%
	4		i	1.3%
	3 '		6	11.3%
·	4		4	7.5%
	5		ò	0.02
	6-10		4	7.5%
	11-15		ó	0.0%
	16-20	•	5	9.4%
	21 AND OVE	R	28	52.8%
REHABILITATIO		N= (400)	
	ATTENDED D	EF. DRIVING	27	6.7%
	ATTENDED D		36	9.0%
		DURT-SCHOOL	64	16.0%
COURT ALCOHOL	SCHOOL DATA	N= (64)	
	NEGATIVE IN	MPROVEMENT	.1	1.5%
	ZERO IMPROV		0	0.0%
	IMPROVEMENT	1-4	17	26.5%
ı	_	5-9	31	48.4%
		10-14	10	15.6%
		.5-19	1	1.5%
		!0 − UP	4	6.2%
MARITAL STATUS		N= {	135)	
1	MARRIED		7 <u>2</u>	53.3%
	SINGLE		30	22.2%
	DIVORCED		23	17.0%
	WIDOWED		4	2.9%
	SEPERATED		5	3.7%
	OTHER	ė.	. 1	0.7%
DEPENDENTS	•	N= (64)	
	0		23	35.9%
	1		12	18.7%
	2		7	10.9%
	3 4		8	12.5%
	5		7	10.9%
	2	•	1	1.5%
	6 7		1	1.5%
*	8		4	6.2%
	9		0	0.0%
	10		1	1.5%
	11+	•	0	0.0%
	11+		0	0.0%
RELIGION		N= (60)	
	PROTESTANT CATHOLIC		22	36.6%
	JEWISH		12	20.0%
	JEWISH MORMON		0	0.0%
	THER		12	20.0%
•	JI HEN		14	23.3%

YEARS MARRIED	EXHIBIT 4.0-9 AVERAGE 1 2 3 4 5-10 11-15 16-20 20+	(Continued) N=(31) 12.2 2 3 3 1 8 3 5 6	6.4% 9.6% 9.6% 3.2% 25.8% 9.6% 16.1% 19.3%
EDUCATION	AVERAGE YEARS 1-6 7-9 10 11 12 13 14 15 16 17 AND UP	N=(134) 10.9 7 34 7 13 46 8 8	5.48 25.38 5.28 9.78 34.38 5.98 5.98 3.78 4.48
INCOME	LESS THAN \$4000 4000-5999 6000-7999 8000-9999 10000-11999 12000-13999 14000-15999 16000-17999 18000-19999 20000-UP	N=(132) 39 19 25 21 17 4 2 2 0	29.5% 14.3% 18.9% 15.9% 12.8% 3.0% 1.5% 1.5% 0.0% 2.2%
	VE BAC NEGATIVE .0104 .0509 .1014 .1519 .2024 .25 +	N=(205) •160% •163% 4 2 18 60 67 37 17	1.9% 0.9% 8.7% 29.2% 32.6% 18.0%
•	ONCE TWICE 3 OR MORE	N= (400) 18 0 0	4.5% 0.0% 0.0%

EXHIBIT 4.0-9 (Continued)	
DIAGNUSTIC TEST SCORES N=(52)	
AVERAGE ALCADD 13.7	
1-11	50.07
12-19	26.9%
20-29	17.3%
30-39	3.8%
40-49	1.9%
50-UP 0	0.0%
DRINKER CLASS DATA	
00.001.54	
NON-BRODE EN	34.2%
UNDEFINED 62	55.8%
EST. PROB. DRINKERS 72	9.98
· ·	18.0%
VIOLATIONS ON ADB N= (400)	
1 DWI 309	77.2%
. 2 DWI 65	16.2%
3 DWI 17	4.2%
4 DWI 8	2.0%
5+ DWI	0.2%
AVERAGE NO DWIS 1.32	
1-2 NON AZO VIOLATIONO	
1-2 NON A/R VIOLATIONS 111 3-4	27.7%
5_4	4.2%
7_0	0.7%
9 UP 0	0.7%
AVERAGE NON A/R VIOL .60	0.0%
• • • • • • • • • • • • • • • • • • • •	
1 ACCIDENT 75	18.73
2 ACCIDENTS 14	3.5%
3 ACCIDENTS	0.2%
4 UR MORE 1	0.2%
AVER NO ACCIDENTS .27	****
CRIMINAL INVESTIGATION DATA N= (71)	
1-2 MICORNELUS	
1-2 MISDEMEANORS 29 3-4 MISDEMEANORS 15	40.8%
EL MICREUS MODE	21.1%
AVC NO MESSAGE	38.0%
1 - 2 FC Out me	_
3-4 FELONIES 1	1.4%
5+ FELONIES 1	1.4%
AVG NO FELONIES .12	1.48
1-2 A/R MISDEMEANORS 24	33.8%
3-4 A/R MISDEMEANORS 7	9.8%
5+ A/R MISDEMEANORS 5	7.0%
AVG NO A/R MISDEMEANORS 2.36	, • • •
1-2 A/R FELONIES O	0.0%
3-4 A/R FELONIES 0	0.0%
5+ A/R FELCNIES O	0.0%
AVG NO A/R FELONIES .00	

AVG	DAYS	TO	TYPE	EXHIBIT 4.0-9 1 RECID	(Continued)		
			1			65	432 DAYS
			2			34	259 DAYS
			3			24	129 DAYS
AVG	DAYS	TO	TYPE	2 RECID			
			1	•		58	453 DAYS
			. 2			42	229 DAYS
		•	3			33	105 DAYS
AVG	DAYS	TC	TYPE	3 RECID			
			1			58	453 DAYS
			2			42	229 DAYS
			3			33	105 DAYS

Exhibit 4.0-10

IDAHO ALCOHOL SAFETY ACTION PROJECT PROFILE ANALYSIS

AEP DWIS 1975

	SAMPLE SIZE :	400	
SEX		N=(264)	
	MALES	233	88.27
	FEMALES	31	11.79
		31	
HEIGHT		N=(258)	
	AVERAGE HEIGHT	69.0	
WEIGHT		N=(258)	
	AVERAGE WEIGHT	162.8	
4.05			
AGE	*****	N=(292)	•
	AVERAGE AGE	35.8	
	AGE 19 OR LESS	26	8.98
	AGE 20 - 24	51	17.47
	AGE 25 - 29	46	15.7%
	AGE 30 - 34	29	9.99
	AGE 35 - 39	32	10.9%
	AGE 40 - 44	28	9.5%
	AGE 45 - 49	30	10.27
	AGE 50 - 59	27	9.29
	AGE 60 AND OVER	23	7.8%
	•	2,3	. • 0 ~
RACE		N=(150)	
	WHITE	136	90.6%
	BLACK	1	0.6%
	AMERICAN INDIAN	5	3.3%
	MEXICAN	6	4.0%
	ORIENTAL	Ō	0.0%
	LATIN	Ŏ	0.0%
	OTHER RACES	2	1.39
		2	1.5
EMPLOYMENT		N=(150)	
	FULL-TIME	117	75.3%
	PART-TIME	8	5.39
	NOT EMPLOYED	15	10.0%
	HOUSEWIFE	5	3.37
	STUDENTS	2	1.37
	RETIRED	7	4.69
OCCUPATION	TYPE	N= (1//)	
00001 × 11014		N=(146)	
	UNEMPLOYED	17	11.67
	PROF / TECH	13	8.9₹
	CLERICAL / SALES	8	5.49
•	SERVICES	14	9.59
	AGRICULTURE	. 5	3.4%
	PROCESSING	15	10.29
	MACHINE TRADES	5	3.48
	. FABRICATION / REPAIR	10	6.89
	STRUCTURAL	10	6.87
	OT HE R	4 9	33.5%

Exhibit 4.0-10 (Continued)

YEARS IN IDAH	0	N= (121)		
	AVERAGE YEARS IN I		22.6		
	1		7		5.78
	2		. 4 3		3.38
	4		4		2.49 3.38
	5		4		3.3%
•	6-10		12		9.9%
	11-15		13		10.72
	16-20 21 AND OVER		10 64		8.29
REHABILITATIO					52.8%
W MANICIPATIO	ATTENDED DEF. DRIV	N= (TNG	400) 28		7 09
	ATTENDED DICP	1140	48		7.0% 12.0%
	ATTENDED COURT-SCHO	Dar	92		23.0%
CCUPT ALCOHOL		N= (921		
	NEGATIVE IMPROVEMENT	1.T	1		1.09
	IMPROVEMENT 1-4		0 32		0.0%
	5-9		43		34.7% 46.7%
	10-14		12		13.09
	15-19		1		1.02
	20 - !JP		3		3.2%
MARITAL STATUS		N= (151)		
	MARRIED	•	81		53.6%
	SINGLE		29		19.2%
	DI VORCED WIDOWED		30		19.8%
	SEPERATED		3 8		1.9% 5.2%
	OTHER		Ö		0.0%
DEPENDENTS		N= (136)		
	0	,	40		29.4%
	1		21		15.4%
	2 3		25		18.3%
	4		16 22		11.7%
	5		7		16.1%
	6		2	-	1.49
	7 8		1		0.7%
	9		1		0.7%
	10		0 1		0.0% 0.7%
	11+		ō		0.0%
RELIGION		N= (126)		
	PROTESTANT		56		44.49
	CATHOLIC JEWISH		27		21.47
	MORMON		0 22		0.0%
	OTHER		21		17.47

Exhibit 4.0-10 (Continued)

YEARS MARRIED		N= (78)	
Δ	V.ER AGE	.,,,	13.9	
	1		4	5.1%
	2		5	6.49
	4		5 3	6.49
5-	-10		18	3.8% 23.0%
	1-15		14	17.9%
	5-20		9	11.59
2	? 0+		20	25.6%
EFUCATION		N= (148)	
۵۱	FRAGE YEARS	,4- (11.1	
	1-6		5	7.89
	7-9		27	18.27
	10 11		11	7.49
	12		18	12.1%
*	13		62 9	41.8% 6.0%
	14		10	6.7%
	15		1	0.69
17	16		4	2.79
1.7	AND UP		1	0.69
INCOME		N= (141)	
LE	SS THAN \$4000	•	40	28.39
	4000-5999	•	23	16.37
	6000-7999		25	17.7%
	8000 -999 9 10000 -119 99		23	16.3%
	12000-13999		11 3	7.89 2.19
	14000-15999		8	5.69
	16000-17999		0	0.09
	18000-19999		2	1.49
	20000-UP		6	4.29
BAC DATA		N= (2921	
A VERAGE RAC		.,-,	.142%	
A VERAGE POSITIVE			.1449	
	SATIVE		3	1.09
	L04 509		10	3.49
	014		36 97	12.3% 33.2%
	519		99	33.9%
	24		30	13.3%
•2!	5·+		8	2.79
REFUSED TEST		AI- /	4001	
ONO	:E	N= (400) 19	4.79
TWI			1	0.29
3 (R MORE		ō	0.0%

Exhibit 4.0-10 (Continued)

DIAGNOSTIC TE	ST SCORES AVERAGE ALCADD 1-11 12-19 20-29 30-39 40-49 50-UP	N= (96) 11.2 55 31 8 2 0	57.28 32.28 8.39 2.09 0.08
DRINKER CLASS	DATA PROBLEM NON-PROBLEM UNDEFINED EST. PROB. DRINKERS	N= (142) 55 75 12 93	38.7% 52.69 8.4% 23.29
VIOLATIONS ON	ADB 1 DWI 2 DWI 3 DWI 4 DWI 5+ DWI AVERAGE NO DWIS	N= (400) 286 75 28 8 3	71.59 18.7% 7.09 2.0% 0.7%
	1-2 NON A/R VIOLATIO 3-4 5-6 7-8 9 UP 4V5RAGE NON A/R VIOL		104 34 7 4 2 •85	26.0% 8.5% 1.7% 1.0% 0.5%
COIMINAL INVES	1 ACCIDENT 2 ACCIDENTS 3 ACCIDENTS 4 OR MORE AVER NO ACCIDENTS TIGATION DATA	N-4	48 14 3 1 •22	12.0% 3.5% 0.7% 0.2%
	1-2 MISDEMEANDRS 3-4 MISDEMEANORS 5+ MISDEMEANORS AVG NO. MISDEMEANORS 1-2 FELONIES	N=(38) 17 12 9 3.42	44.7% 31.5% 23.6%
	3-4 FELONIES 5+ FELONIES AVG NO FELONIES 1-2 A/R MISDEMEANORS 3-4 A/R MISDEMEANORS	ı	1 0 .10 1° 4	2.6% 0.0% 50.0% 10.5%
	5+ A/R MISDEMEANORS AVG NO A/R MISDEMEAN 1-2 A/R FELONIES 3-4 A/R FELONIES 5+ A/R FELONIES AVG NO A/R FELONIES		1 1.23 0 0 0	2.6% 0.0% 0.0% 0.0%

AVG DAYS TO TYPE 1 RECTO		
1	7 5	436 DAYS
2	56	233 DAYS
3	24	119 DAYS
4	12	96 PAYS
AVG DAYS TO TYPE 2 RECID		
1	71	460 DAYS
2	48	224 FAYS
3	45	113 DAYS
4	16	30 DAYS
AVG DAYS TO TYPE 3 RECID		
1	71	460 DAYS
2	48	224 DAYS
3	45	113 DAYS
4	16	80 DAYS
		3 W 12 W 1 C

Exhibit 4.0-11

IDAHO ALCOHOL SAFETY ACTION PROJECT PROFILE ANALYSIS

REG DWIS 1975

	SAMPLE SIZE :		400	
SEX	MALES	N= (3421 297	86.8%
	FEMALES		45	13.1%
HEIGHT	AVERAGE HEIGHT	N= (3351 68.8	
WEIGHT	AVERAGE WEIGHT		335) 160.4	
ΔGF	AVERAGE AGE AGE 19 OP LESS AGE 20 - 24 AGE 25 - 29 AGE 30 - 34 AGE 35 - 39 AGE 40 - 44 AGE 45 - 49 AGE 50 - 59 AGE 60 AND OVER	N= (348) 34.5 45 65 56 33 24 25 36 46 18	12.9% 18.6% 16.0% 9.4% 6.8% 7.1% 10.3% 13.2% 5.1%
RACE	WHITE BLACK AMERICAN INDIAN MEXICAN ORIENTAL LATIN CTHER RACES	N= (181) 160 3 12 5 1 0	88.3% 1.6% 6.6% 2.7% 0.5% 0.0% 0.0%
FMPLGYMENT	STATUS FULL-TIME PART-TIME NOT EMPLOYED HOUSEWIFE STUDENTS RETIRED	N= (182) 123 9 29 3 8 10	67.59 4.99 15.98 1.69 4.32 5.49
CCCUPATION	TYPE UNEMPLOYED PROF / TECH CLERICAL / SALES SERVICES AGRICULTURE PROCESSING MACHINE TRADES FABRICATION / PEPAI STRUCTURAL OTHER	N= (180) 28 11 10 18 9 19 5 9	15.5% 6.1% 5.5% 10.0% 5.0% 10.5% 2.7% 5.0% 5.5% 33.8%

YEARS IN IDAH	0	N= (163)	
	AVERAGE YEARS IN IT		21.5	
	1		9	5.57
	2 3		10	6.17
	3 4		4	2.49
	5		4	2.4%
	6-10		4 9	2.49
	11-15		13	5•5% 7•9%
	16-20		35	21.47
	21 AND OVER		75	46.02
REHABILITATIO		N= (400)	
	ATTENDED DEF. DRIVI	NG	36	9.0%
	ATTENDED DICP	۵.	38	9.5%
	ATTENDED COURT-SCHO	OL	7 2	18.0%
CCURT ALCOHOL		N= (72)	
	NEGATIVE IMPROVEMENT	F	3	4.1%
	IMPROVEMENT 1-4		0	0.0%
	5-9		29 29	40 • 29 40 • 29
	10-14		9	11.17
	15-19		š	4.17
	20-UP		0	0.07
MARITAL STATU	-	N= (185)	
	MARRIED		72	38.9%
	SINGLE		54	29.19
	DIVORCED		44	23.7%
	WIDOWED SEPERATED		5	2.79
	OTHER		10 0	5.4%
DEBENDENTA	· ·		U	0.03
DEPENDENTS		N= (174)	
	0		55	31.6%
	2 .		44	25.2%
			27 16	15.5% 9.1%
	3 4		15	8.6%
	5		10	5.79
	6		4	2.2%
	7		· 0	0.09
	8		2	1.17
	9		0	0.0%
	10 11+		1	0.5%
	117		0	0.0%
RELIGION		N= (165)	
	PROTESTANT		60	36.3%
	CATHOLIC JEWISH		37	22.49
	MUSWICH AIMISH		0	0.0%
	OTHER.		28 40	16.97 24.29
			70	24.2%

	Exhibit	4.0-11 (Cor	ntinued)	
YEARS MARRIE		N= (81)	
	AVERAGE		13.8	
	1		7	8.62
	2		5	6.1%
	3 4		3	3.7%
	5-10		5	6.1%
	11-15		22 12	27.1%
	16-20		6	14.8% 7.4%
	20+		21	25.9%
EDUCATION		N= (1701	•
	AVERAGE YEARS	14-1	178) 11.1	·
	1-6		4	5.19
	7-9		3.5	19.6%
	10		18	10.1%
	11		21	11.7%
	12 13		70	39.39
	14		8	4.49
	15		10 . 4	5.6%
	16		6	2 • 2% 3 • 3*
	17 AND UP		2	1.1%
INCOME		N=(172)	
	LESS THAN \$4000		51	29.6%
	4000-5999		35	20.3%
	6000-7999		27	15.68
	8000-9999		29	16.8%
	10000-11999 12000-13999		11	6.3%
	14000-15999		8	4.6%
	16000-17999		5 1	2.9%
	18000-19999		3	0.5% 1.7%
	29000-UP		2	1.17
BAC DATA		N= (266)	
AVERAGE BAC			.153%	
AVERAGE POSIT			.160%	
	NEGATIVE		11	4.19
	.0104 .0509		4 .	1.5%
	.1014	•	26	9.7%
	.1519		83 85	31.2%
	.2024		31	31.9% 11.6%
	•25 +		26	9.79
REFUSED TEST		N= (400)	
	ONCE		18	4 . 5 %
	TWICE		0	0.0%
	3 OR MORE		0	7.0°

DIAGNOSTIC TE	EST SCORES AVERAGE ALCADD 1-11 12-19 20-29 30-39 40-49	N= (132) 14.5 75 26 14 14	56.87 19.67 10.67
	50 -U P		2	1.5% 0.7%
DRINKER CLASS	PROBLEM NON-PROBLEM UNDEFINED	N= (175) 75 81 19	42.89 46.27 10.89
	EST. PROB. DRINKERS	5	106	26.57
VIOLATIONS ON	1 DWI 2 DWI 3 DWI 4 DWI	N= (400) 279 75 35 5 6	69.7% 18.7% 8.7% 1.2% 1.5%
	1-2 NON A/R VIOLATI 3-4 5-6 7-8 9 UP AVERAGE NON A/R VIO		126 41 10 9 2 1.15	31.5% 10.2% 2.5% 2.2% 0.5%
	1 ACCIDENT 2 ACCIDENTS a 3 ACCIDENTS 4 OR MORE AVER NO ACCIDENTS		79 16 4 1	19.7% 4.0% 1.0% 0.2%
	TIGATION DATA 1-2 MISDEMEANORS 3-4 MISDEMEANORS 5+ MISDEMEANORS AVG NO. MISDEMEANORS 1-2 FELONIES 5+ FELONIES 5+ FELONIES AVG NO FELONIES 1-2 A/P MISDEMEANORS 5+ A/P MISDEMEANORS AVG NO A/R MISDEMEAN AVG NO A/R MISDEMEAN 1-2 A/R FELONIES AVG NO A/R MISDEMEAN 1-2 A/R FELONIES	S S	30) 13 6 11 3.66 2 0 0 .06 18 4 1 1.40 1 0	43.37 20.07 36.67 6.67 0.07 0.07 60.07 13.37 3.37
	5+ A/R FELONIES AVG NO A/P FELONIES		0 •03	0.0%

AVG DAYS TO TYPE 1 PECID		•
1	75	414 PAYS
2	70	240 DAYS
3	15	106 DAYS
4	8	93 PAYS
5	24	53 PAYS
AVG DAYS TO TYPE 2 RECID		
1	71	454 PAYS
2	66	214 DAYS
3	33	126 DAYS
AVG DAYS TO TYPE 3 RECID		
1	71	454 DAYS
2	66	214 DAYS
3	33	126 DAYS

Exhibit 4.0-12

IDAHO ALCOHOL SAFETY ACTION PROJECT PROFILE ANALYSIS

YEAR 3 OPERATIONAL DWI's

	SAMPLE SIZE :		500	
SEX	MALES FEMALES	N= (300) 268 32	89.3% 10.6%
HEIGHT	AVERAGE HEIGHT	N = (291) 69.0	
WEIGHT	AVERAGE WEIGHT		291) 160.3	
AGE	AVERAGE .AGE AGE 19 DR LESS AGE 20 - 24 AGE 25 - 29 AGE 30 - 34 AGE 35 - 39 AGE 40 - 44 AGE 45 - 49 AGE 50 - 59 AGE 60 AND OVER	N=(415) 33.0 71 76 65 42 28 37 32 47	17.1% 18.3% 15.6% 10.1% 6.7% 8.9% 7.7% 11.3% 4.0%
₹ ACF	WHITE 6LACK AMERICAN INDIAN MEXICAN CRIENTAL LATIN CTHER RACES	N= (126) 1C5 0 12 8 0 0	83.37 0.08 9.57 6.38 0.07 0.08
E MELCYMENT	STATUS FULL-TIME FART-TIME NOT EMPLOYED HOUSEWIFE STUDENTS PETIRED	N= (125) 87 6 24 2 3	69.6% 4.8% 19.2% 1.6% 2.4% 2.4%
CCCUPATION	TYPE UNEMPLOYED PECE / TECH CLEPICAL / SALES SERVICES AGRICULTURE PPCCESSING MACHINE TRADES FABPICATION / REPAIR STRUCTURAL CTHER	N = (122) 19 11 2 22 13 10 8 11 4	15.5% 9.0% 1.6% 18.0% 10.6% 8.1% 6.5% 9.0% 3.2%

YEARS IN IDAH	•	=(105)	
	AVERAGE YEARS IN IDA 1 2 3 4 5 6-10 11-15 16-20 21 AND OVER	21.1 8 5 3 5 1 16 10 11 46	7.69 4.78 2.88 4.78 0.98 15.28 9.58 10.48 43.88
REHABILITATIO	N DATA NATIONAL NEW ATTENDED DEF. DRIVING ATTENDED DICP ATTENDED COURT-SCHOOL	=(500) 30 49 65	6.0% 9.8% 13.0%
CCURT ALCOHOL	SCHOOL DATA - NE NEGATIVE IMPROVEMENT ZERO IMPROVEMENT IMPROVEMENT 1-4 5-9 10-14 15-19 20-UP	27 26 9 0 2	1.5% 0.0% 41.5% 40.0% 13.8% 0.0% 3.0%
MARITAL STATUS	NEMARRIED SINGLE DIVORCED WICOWED SEPERATED CTHER	126) 62 38 14 3 9	49.2% 30.1% 11.1% 2.3% 7.1% C.0%
DEPENDENTS	N= 0 1 2 3 4 5 6 7 8 9 10 11+	113) 32 29 12 12 14 5 2 2 3 0 0 1	29.28 25.67 10.68 10.67 12.38 4.48 1.78 1.78 1.78 2.68 0.08 0.08
RELIGION	PRETESTANT CATHOLIC JEWISH MORMON CTHER	106) 34 30 0 20 22	32.0% 28.3% 0.0% 18.8% 20.7%

	,		
YEARS MARRIE	•	N=(57)	
,	AVERAGE	12.5	
	1	7	12.2%
	2 3	4	7.02
:	4	5 3	8.7% 5.2%
	5-10	13	22.8%
	11-15	7	12.2%
	16-20 20+	4	7.0%
•	20+	14	24.5%
ECUCATION		N=(126)	
	AVERAGE YEARS	11.0	
	1-6	6	4.0%
	7 - 9 10	28	22.2%
	11	6 16	4.7%
	12	51	12.6% 40.4%
	13	4	3.1%
	14	4	3.1%
	15	3	2.3%
	16 17 AND UP	7	5.5%
	I' AND UP	1	0.7%
INCOME		N=(125)	
	LESS THAN \$4000	40	32.0%
	4000-5999	24	19.2%
	6000-7999 8000-9999	18	14.42
	10000-11999	17 9	13.6%
	12000-13999	4	7.2% 3.2%
	14000-15999	4	3.2%
	16000-17999	2	1.6%
	18000-19999	3	2.49
	20000-UP	4	3.2%
PAC CATA		N=(298)	
AVERAGE BAC		.152%	
AVERAGE POSIT		.153%	
	NEGATIVE •01 - •04	3	1.07
	•05 - •09	4 37	1.3%
	.1014	97	12.4% 32.5%
	.1519	87	29.1%
•	.2024	51	17.1%
	•25 +	19	6.39
REFUSED TEST		N=(500)	
	CNCE	22	4.48
•	TWICE	3	0.6%
	3 CR MCRE	0	0.0%

DIAGNESTIC TE	ST SCCPES AVERAGE ALCACD 1-11 12-19 20-29 30-39 40-49 50-UP	N'= (104) 12.0 61 29 12 1 1	58.6% 27.8% 11.5% C.9% G.9% O.0%
ORINKER CLASS	CATA PRCBLEM NGN-FRCBLEM UNDEFINED EST. PROB. DRINKERS	N=(123) 65 45 13 100	52.8% 36.5% 10.5% 20.0%
VICLATIONS ON	ADP 1 CWI 2 CWI 3 DWI 4 CWI 5+ DWI AVERAGE NO CWIS		500) 359 90 27 6 17	71.8% 18.0% 5.4% 1.2% 3.4%
·	1-2 NON A/R VIOLATI 3-4 5-6 7-8 9 UP AVERAGE NON A/R VIO		110 35 20 14 2	22.0% 7.0% 4.0% 2.8% 0.4%
	1 ACCIDENT 2 ACCIDENTS 3 ACCIDENTS 4 CR MORE AVER NO ACCIDENTS		76 25 4 1	15.2% 5.0% 0.8% 0.2%
	TIGATION DATA: 1-2 MISDEMEANDRS 3-4 MISDEMEANDRS 5+ MISDEMEANDRS AVG NO. MISDEMEANDRS	N = {	22) 8 6 8 7.00	36.3% 27.2% 36.3%
· · · · · · · · · · · · · · · · · · ·	1-2 FELONIES 3-4 FELONIES 5+ FELONIES AVG NO FELONIES 1-2 A/F MISDEMEANORS 3-4 A/R MISDEMEANORS 5+ A/R MISDEMEANORS		1 1 2 1.77 6 3	4.5% 4.5% 9.0% 27.2% 13.6% 18.1%
	AVG NO A/R MISDEMEAN 1-2 A/R FELONIES 3-4 A/R FELONIES 5+ A/R FELONIES AVG NO A/R FELONIES	IORS		0.0% 0.0% 0.0%

ANG DAYS TO TYPE 1 RECID		
1	90	351 DAYS
2	54	274 DAYS
3	18	138 DAYS
4	48	126 DAYS
. 5	27	79 DAYS
AVG DAYS TO TYPE 2 RECID		
1	83	376 DAYS
2	56	248 DAYS
3	36	141 DAYS
4	44	130 DAYS
5	32	75 DAYS
ANG DAYS TO TYPE 3 RECID		
1	83	376 DAYS
2	. 56	248 DAYS
3	36	141 DAYS
4	44	130 DAYS
5	32	75 DAYS

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