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 \swarrow Analytical study no. 3 an analysis of asap patrol activity

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MAUCHLY WOOD SYSTEMS CORPORTATION 102 SOUTH 27TH SUITE 100 BOISE, IDAHO 83706

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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.

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This study is Analytic Study Number 3 of the series, <u>An Analysis of ASAP</u> 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 law 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 these factors combine to make Idaho's fatality rate the fourth highest in the

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 manageout 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	<u>1973</u>	<u>1974</u>	1975	1973-1974 Variance	1974-1975 Variance
Beer (Million Gallons) Wine (Thousand Gallons) Liquor (Thousand Gallons) Equivalent Drinks (Millions)* Per Capita Drink Consumption**	17.5 935 977 300 386.6	18.9 975 1032 321 412.1	17.5 1114 1131 319 386.6	8.0% 4.4% 5.6% 7.0% 6.4%	-7.4% 14.3% 9.6% 6%
Licensed Drivers (Thousands)	540	551	567	2.0%	- 6.2%
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 A/R Fatal Accidents Fatalities Injury Accidents A/R Injury Accidents ASAP Data - H Tables	277 92 349 7533 910	281 93 327 7234 977	237 89 281 7362 766	1.4% 1.1% -6.3% -4.0% 7.4%	-15.7% - 4.3% -14.1% - 1.8% -21.6%
DWI Arrests DWI Convictions BAC's Taken	6892 5995 (87.2%) 2965 (43.2%)	7719 7118 (92.2%) 3652 (51.3%)	6504 5644 (86.8%) 3235 (49.7%)	12.0% 18.7% 23.2%	-15.7% -20.7% -11.4%
Presentence Investigations	2749 (45.8%)	2991 (42.0%)	2545 (39.1%)	8,8%	-14.9%

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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 files, and it was created using no controls. The accident report number changed format several times, further complicating the matching process. In April 1972, the Department of Law Enforcement began its own accident except for the copy retained by ASAP. Using the combined accident index, files of the two departments, the accident history file is passed against the Alcohol Data Bank and accident segments are added whenever there is a match on drivers license numbers. Using this technique, 40% 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.

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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	DLE Driver History File
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 Driver Records
Driving Violation History	DLE Accident History
DWI Conviction Data	DLE Driver History File
DWI Trial Data	DLE Driver History File
DWI Arrest Data	Presentence Investigator
Probation Follow-Up Data	Idaho State Police
Records Check History	Presentence Investigator
Defendant Interview Data	Presentence Investigator
Family Interview Data	Presentence Investigator
Rehab Agency Contact Data	Presentence Investigator
Criminal Investigation Division	Presentence Investigator
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)

	EXE	HIBIT 2.	.1-1	
ALCOHOL	EMPHASIS	PATROL	TURNOVER	ANALYSIS

	1972	<u>1973</u>	1974	1975
Patrolmen	26	26	26	26
Turnover	2	3	6	6
Turnover %	7.7%	11.5%	23.1%	23.1%
Original Force Left	24	21	15	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 BAC Tests

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 warn, 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.

ALCOHOL EMPHASIS PATROL CASE PROCESSING FLOW REGULAR PATROL SUSPECTED D.W.I. NON-ACCIDENT ADMINISTER PHYSICAL TESTS ORAL WARNING REPOR UNDER ACTIC LESSER THE OFFENCE NFLUENC Y MIRANDA WARNING ARREST FOR REPORT PREPARE ACTIC D.W.I. D.W.J. REPORT REQUEST TO TAKE CHEMICAL TEST REPORT REFUSAL NIOLATOR REFUSED ACTIO PPLICATION TEST FN REPORT ADMINISTER SEND MOBAT ACTION TERMINATE MOBAT DEPT. OF PROCESSING HEALTH 10A PREPARE . TRANSPORT CASE REPORT VIOLATOR TO FOR TRIAL COURT OR JAIL

EXHIBIT 2.1-2

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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)	6.76	4.94	14.3
According to Accidents	7.54	7.02	11.44
Combined DWI and Accident Rates	7.59	6.78	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.

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 рт - м	.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		.:.

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	E	CHIBIT 2	2.1-4	
ALCOHOL	EMPHASIS	PATROL	MANPOWER	DISTRIBUTION

		1972			1973	· · · · · · · · · · · · · · · · · · ·		1974			1975	
Time of Day	A/R	90 10	Cum	A/R	ž	Cum %	A/R	0 0	Cum %	A/R	20	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			1066			855		

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

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

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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.

		19	974	1	1975	
	Patrol Hours	8	Cum %	Patrol Hours	<u>0</u> 6	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		

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

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.

		A/R	Accidents		Patrol	
		0	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		

EXHIBIT 2.1-7 A/R ACCIDENTS VS PATROL HOURS

* 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.

· · · · · · · · · · · · · · · · · · ·		1	972	<u> </u>	<u>}</u>			
Day of Week	Total	A/R	%	Cum %	Total	A/R	0	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		

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

		19	74	_	1	19	75	
Day of Week	Total	A/R	%	Cum %	Total	A/R	8	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	.6 63
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	106 6			7599	855		
KS @ P	.05							
1972 vs 1973 = .060 1972 vs 1974 = .059 1973 vs 1974 = .059	6			1973 v	s 1975 = s 1975 = s 1975 =	.0633		

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 <u>positive</u>. 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 involvement 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.

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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		9	10	11	12
Crash Category	1							_	-	10	11	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
Fatal	.164	.128	.101	051	066	053	048	059	048	018	017	011
Single Vehicle Fatal ६ 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	074	091	105	125
* P .01 **	· .05										•	

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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 < .01, CR = 4.90).

\ <i>r</i>			ance of Ar:	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 2.2-2 RISK OF ARREST PERCEIVED BY RESPONDENTS IN 1972, 1973, 1974 AND 1975 HOUSEHOLD SURVEYS

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	< .11
> 50%	1325	. 358	.02722	3,929	< .01

EXHIBIT 2.2-4 1972 vs 1975

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

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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)

	<u>19</u>	73	197	1974		
ISP & AEP	<u>2949</u> 139	21.21	$\frac{3154}{148}$	21.31	.5%	
ISP	<u>1154</u> 110	10.49	<u>1177</u> 119	9.89	- 5.7%	
AEP (Including Sgts)	<u>1795</u> 29	61.89	<u>1977</u> 29	68.17	10.1%	
AEP (Excluding Sgts)	<u>1795</u> 26	69,03	<u>1977</u> 26	76.04	10.2%	

Efficiency Rates Per Patrol Hour

· · · · · · · · · · · · · · · · · · ·	19	72	19	73	
ISP & AEP	<u>391,533</u> 2,949	132,76	<u>325,128</u> 3,154	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	<u>58,654</u> 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)

		1973		1974	Variance
ISP & ASAP	3,377,182 2,949	1145.20	<u>3,552,293</u> <u>3,154</u>	1126.28	- 1.7%
ISP	<u>3,062,626</u> 1,154	2653.92	<u>3,079,043</u> 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:

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

Efficiency Rates Per	Patrol Hour:	(Patrol)	Hours - Arres	ts)	
ISP & AEP	<u>391,533</u> 40,139	<u>1973</u> 9.75	<u>325,128</u> 44,254	<u>1974</u> 7.35	<u>Variance</u> - 24.6%
ISP	327,730 32,178	12.16	$\frac{266,472}{36,472}$	7.31	- 39.9%
AEP	<u>63,803</u> 7,961	8.01	58,654	7.53	- 6.0%
Efficiency Rates in T	erms of Cost:	(Per Ari	est)		
ISP & AEP	<u>3,377,182</u> 40,139	<u>1973</u> 84.14	<u>3,552,293</u> 44,254	<u>1974</u> 80.27	<u>Variance</u> - 4.6%
ISP	$\frac{3,062,626}{32,178}$	95.18	<u>3,079,043</u> <u>36,472</u>	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.

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

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- PROFILE TABL		
	Fatally Injured Drivers	DWI Arrests Year 3	Averag e Idaho Drivers
Sex	N = (51)	N=(300)	N=(212)
Male Female	.725 .275	.893 .107	.696 .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	N = (264)	N = (342)
Male	88.2	86.8
Female	11.8	13.1
Income	N = (141)	N = (172)
∠ 6,000.00	.446	.499
∠ 8,000.00	.623	.655
∠ 10,000.00	.786	.823
Average Positive BAC	.144	.153

EXHIBIT 2,4-3

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AGE DISTRIBUTION

	In	tally jured ivers	•	line I's	A	975 EP WI's	R	975 eg WI's	I	erage laho ivers		tional
.n		53	. 39	0 .	29	92		348		212	41	
4	8	Cum %	8	Cum %	ş	Cum %	*	Cum %		Cum		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
i		i i										•

		ally ured /ers	· ·	seline)WI's	19 AE DW		Re	74 g I's	197 AEP DWI		197 Reg DWI	
<u>n</u>	65		68		29	01	27		1	292	26	
	8	Cum %	90	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	l	.156		.142	,	. 160	

BAC DISTRIBUTION

EXHIBIT 2.4-5

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17.4

TABLE OF KS VALUES FOR BAC DISTRIBUTIONS

95%

99%

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

Significant at BAC levels below .15, below .20 and below .25
 Significant at BAC levels below .20, below .25

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

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

EXHIBIT 2.4-6

VIOLATIONS

	· · · · · · · · · · · · · · · · · · ·									
	Bas	seline	197 Aep		197 Reg		19 AE		197 Reg	
n	_	400	400		400		40		400	
	*	Cum %	9	Cum %	8	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	ł	1.41	1	l 1.41	ł	1.48	i

* KS @ P <.01 = .096

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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 investi- gators.
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 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 attendance</u> 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.

<u>Court Alcohol School</u> 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.

<u>ALCADD tests</u> 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
- 3. Subject has more than two DWI arrests
- Subject has two DWIs and a BAC of .15 or greater
 Subject has two DWIs and an ALCADD score of 12 or
- greater as reported by a PSI

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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 Alcohol 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-alcoholrelated 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.

Туре	1 [DWI arre:	st
Туре	2 [DWI arre:	st or crash
Туре	3 E	OWI arres	st, 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

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DWI ARRESTS BY QUARTER 1969 - 1975

Year - Qtr	ASAP	Non-ASAP	Qtr Total	Year Total	17 t
1969 - 01				Total	Variance
		395	395		
Q2 Q3		449	449	•	
QS		419	419		
Q4		472	472	1775	
		_	472	1735	
1970 - Q1		497	497		
Q2		510	510		
Q3		530	530		
Q4		480			
		400	480	2017	162.5%
1971 - Q1		553			
Q2		735	553		
Q3			735		
Q4		683	683		
X.		695	695	2666	32.2%
1972 - Q1				•	02.20
Q2		930	930		
Q3	700	1123	1123		
Q3 Q4	328	1352	1680		
Q4	400	1383	1783	4516	60 49
1973 - 01					69.4%
	384	1383	1767		
Q2 Q3	429	1317	1746		
QS	447	1247	1694		
Q4	537	1154	1689	6896	
1074			2009	0090	52.7%
1974 - Q1	591	1341	1932		
Q2	459	1426	1885		
Q3	515	1523	2038		
Q4	412	1452			
-		1452	1864	7719	11.9%
1975 - Q1	402	1340			
Q2	416		1742		
Q3	393	1404	1820		
Q4	300	1210	1603		
Χ'	500	1039	1339	6504	-15.7%

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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; and to estimate P by pooling P_1 and P_2 . A pooled estimate of P 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 .

$$\sigma_{P_{\mathcal{G}}} = \sigma_{P_1 - P_2} = \sqrt{\sigma^2_{P_1} + \sigma^2_{P_2}}$$
$$= \sqrt{PQ\left[\frac{1}{N_1} + \frac{1}{N_2}\right]}$$

or

(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		Pro	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	2.78	3.75	4.60
5	· 2.02 1.94	2.57	3.36 3.14	4.03 3.71
5 6 7	1.94	2.45 2.36	3.14	3.71 3.50
8	1.85	2.31	2.90	3.36
9	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	1.76	2.14	2.62	2.98
15	1.75	2.13	2.60	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	2.85
20	1.72	2.09	2.53	2.54
21	1.72	2.08	2.52	2.83
22	1.72	2.07	2.51	2.82
23 24	1.71	2.07	2.50	2.81
25	1.71 1.71	2.06 2.06	2.49 2.48	2.80 2.79
26	1.71	2.00	2.48	2.79
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	1.68	2.02	2.42	2.71
45	1.68	2.02	2.41	2.69
50	1.68	2.01	2.40	2.68
60	1.67	2.00	2.39	2.66
70	1.67	2.00	2.38	2.65
80 90	1.66 1.66	1.99 1.99	2.38 2.37	2.64 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	1.65	1.97	2.35	2.50
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
æ	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_{HI} = the SE of the mean of the first sample

 σ_{W2} = 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.

$$\sigma_p = \sqrt{\frac{(7.81)^2}{83} + \frac{(11.56)^2}{95}}$$
$$= \sqrt{2.1415}$$
$$= 1.46 \text{ (to two decimals)}$$

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 $(CR = D/\sigma_D)$. 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 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 $\pm 1.17\sigma_{\rm D}$; 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 twelfthgrade 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

÷	.00	. 01	. 02	.03	.04	.05	.06	.07		
		1						. •1	.08	. 09
0.0		1	.0080	.0120	.0159	.0199	.0239	.0279	.0319	.0359
0.1		.0438	0478	.0517	.0557	.0596	. 0 6 3 6	.0675	.0714	.0753
0.3		.0832	.0871	.0910	.0948	.0987	.1026	.1064	. 1103	.1141
0.4		1217	.1255	.1293	. 1331	.1368	.1406	.1443	.1480	.1517
1.1		. 1591	.1628	.1664	.1700	.1736	. 1772	.1808	. 1844	.1879
0.5	. 1915	. 1950	. 1985	2010					·	
0.6		.2291	. 2324	.2019	. 2054	. 2088	.2123	.2157	. 2190	. 2224
0.7		. 2612	.2642	. 2673	.2389	.2422	.2454	. 2486	. 2518	. 2549
0.8	. 2881	. 2910	. 2939	. 2967	. 2995	.3023	.3051	. 2794	. 2823	.2852
0.9	. 3159	. 3186	. 3212	. 3238	3264	. 3289	. 3315	.3340	. 3106	.3133
									. 3303	. 3389
1.0	. 3413	. 3438	. 3461	. 3485	. 3508	. 3531	. 3554	. 3577	. 3599	. 3621
1.1	. 3643	. 3665	. 3686	. 3708	. 37 29	. 37 49	. 3770	. 3790	. 3810	. 3830
1.2	. 3849		. 3888	. 3907	. 3925	. 3944	. 3962	. 3980	. 3997	. 4015
1.4	. 4032	. 4049	. 4066	. 4082	. 4099	. 4115	. 4131	.4147	. 4162	. 4177
1	1	1. • 201	. 4222	. 4236	. 4251	. 4265	.4279	. 4292	. 4306	. 4319
1.5	. 4332	. 4345	. 4357	. 4370		·				
1.6	.4452	. 4463	. 4474	.4485	.4382	. 4394	.4406	. 4418	. 4430	. 4441
1.7	.4554	. 4564	. 4573	.4582	. 4591	. 4505	. 4515	.4525	. 4535	.4545
1.8	. 4641	. 4649	. 4656	. 4664	. 4671	.4678	.4688	. 4616	. 4625	. 4633
1.9	. 4713	. 4719	. 47 26	. 4732	. 4738	. 47 44	. 4750	. 4693	. 4699	. 4706
			1						. 4762	. 4767
2.0	. 4773	. 4778	. 4783	. 4788	. 4793	. 4798	. 4803	. 4808	. 4812	. 4817
2.1	. 4821	. 4826	. 4830	. 4834	. 4838		- 1			. 48 57
2.2	:4861	. 4865			. 4875	. 4878				. 4890
2.4	.4893 .4918						. 4909			. 4916
1		. 4920	. 4922	. 4925	. 4927	. 49 29	. 4931	. 4932	. 4934	. 4936
2.5	. 4938	. 4940	. 4941	4943	10.10					
2.6	. 4953	1					1	1	1	4952
2.7	. 4965									4964
2.8	.4974			1	1					4974
2.9	- 4981		1							4981
		1								4986
3.0				4988 .	4988	. 4989	4989	4989	4990	4990
3.1		- 4991	4991 .	4991 .	. 4992 .					4993
3.3	. 49931		1	· ·			. 1	· • •		
3.4	. 49952									1
1									1	
3.5	. 49977	·	1	·					1	
3.6	. 49984	1				ľ	1			
3.7	. 49989		1		1		1	1	1.	
3.8	. 49993				1				1	
3.9	. 49995		· 1				· [1		· [
4.0	. 49997			1	.					

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 $F_n(X)$:

(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 NEACON		cted DWI	With	held		
EVALUATION MEASURE	Numbe	r_Cum %	Number		Diff	Р
INCOME						
Less than \$4000	26	27.7	14	26.9	0.8	N.S.
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	
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.
1600 <u>0-1799</u> 9	1	97.9	1	100.0	1.4	N.S.
18000-19999	0	97.9	Ō	100.0	1.1	N.S.
20000-UP	2	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

$$1.36 \sqrt{\frac{146}{4888}} = .235,$$

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

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:

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

where:

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

$$Q = 1 - P_1$$

We have

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

$$Q = .274$$

$$\sigma_{D}^{\circ} = \sqrt{(.726)(.274)(.019 + .011)} = .077$$

$$CR = \frac{P_{1} - P_{2} - 0}{\sigma^{\circ}}$$

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

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		Significance 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	.82 9		
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	.35 2		
25	.21	.22	.24	.264	.32		
30.	.19	.20	.22	.242	.29		
35	.18	.19	.21	.23	.27		
40			•	.21	.25		
50	1	•		.19	.23		
60	1			.17	.21		
70				.16	.19		
80				.15	.18		
90	1			.14			
100				.14			
Asymptotic formula;	$\frac{1.07}{\sqrt{n}}$	$\frac{1.14}{\sqrt{n}}$	$\frac{1.22}{\sqrt{\pi}}$	$\frac{1.36}{\sqrt{n}}$	$\frac{1.63}{\sqrt{n}}$		

Reject the hypothetical distribution F(x) if $D_n = \max |F_n(x) - F(x)|$ exceeds the tabulated value. (For $n \to .01$ and .05, asymptotic formulas give values which are too high—by 1.5 percent for n = 80)

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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

EXHEBIT 4.0-1

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IDAHO ALCOHOL SAFETY ACTION PROJECT PROFILE ANALYSIS

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FATALLY INJURED DRIVERS

·	SAMPLE STZE :	245	
SEX			
	MALES	N=(. 155)	
	EEMALES	115	74.12
		40	25.8%
HEIGHT		N=(155)	
	AVERAGE HEIGHT	67.8	
WEIGHT	••••	N = (155)	
· .	AVERAGE WEIGHT	154.8	
AGE		•••	
	AVERAGE AGE	N=(157)	
	AGE 19 DR LESS	36.9	
	AGE 20 - 24	26	16.57
	AGF 25 - 29	31	19.7%
	AGE 30 - 34	14	10.1%
	AGE 35 - 29	12	8.97
	465 40 - 44	12	7.6%
	AGE 45 - 49	7	7.69 4.49
	AGE 50 - 59	15	9.5%
	AGE 60 AND OVER	24	15.27
RACE			
	WHITE	N=(8)	
	BLACK	5	62.57
	AMERICAN INDIAN	0	0.0*
	MEXICAN	1	12.5%
	ORIENTAL	2	25.0%
,	LATIN	0	0.0%
	OTHER RACES	0	0.0%
		0	0.07
EMPLOYMENT		N=(8)	
	FULL-TIME	4	50 .0 %
	PART-TIME	2	25.02
	NOT EMPLOYED	1	12.5*
	HOUSEWIEE	. 0	0.0%
	STUDENTS RETIRED	1	12.57
	ACC 1 1 B 7 (2	0	0.07
OCCUPATION	TYPE	N= (7)	
	UNEMPLOYED	1	
	PROF / TECH	1	14.27
	CLERICAL / SALES	Ō	14.2%
	SEPVICES	1	0.09 14.29
	AGRICULTURE	3	42.8%
	PROCESSING	ō	0.0%
	MACHINE TRADES	0	0.0%
	FABRICATION / REPAIR	0	0.0%
	STRUCTURAL	0	0.0%
	DTHER	1	14.2%

EXHIBIT 4.0-1 (Continued)

YEARS IN IDAH	n N= (4)	
	AVERAGE YEARS IN IDA	24.0	
~	1	1	25.0%
	2	ວ່	0.0%
	3	1	25.07
	4	0	0.0%
	5	0	0.0%
	6-10	0	0.0%
	11-15	0	0.0%
	16-20	0	0.0%
	21 AND OVER	2	50.0%
REHABILITATIO			
	ATTENDED DEF. DRIVING	2	0.8%
	ATTENDED DICP	3	1.27
	ATTENDED COURT-SCHOOL	3	1.29
COURT ALCOHOL		3)	
	NEGATIVE IMPROVEMENT	0	0.0%
	ZERO IMPROVEMENT	0	0.0%
	IMPROVEMENT 1-4	2	.66.69
	5-9	0	0.07
	10-14	0	20°0
	15-19 20-UP	0 1	0.0%
	20-08	L .	33.3%
MAPITAL STATH		8)	
	MARRIED	4	50.09
	SINGLE	0	0.07
	DIVORCED	4	50.09
		0	. 0.0%
	SEPERATED OTHER	0	0.0%
		()	0.0%
DEPENDENTS	N= (4)	•
	0	0	0.0%
	1 .	2	50.0%
	2 3 4 . 5	0	0.09 50.09
	3	2 0	0.02
	т. 5	0	0.02
	6	õ	0.07
	7	ő	0.0%
	8	0	0.0%
	9	n	0.07
	10	0	0.07
· · · ·	11+	0	0.0%
RELIGION	N= (3)	
· , ·	PROTESTANT	1	33.39
	CATHOLIC	0	0.0%
	JEWISH	0	0.0%
	MORMON	1	33.39
	OTHER	1	33.32

EXHIBIT 4.0-1 (Continued)

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YEARS MARRIED	N=(3)	
AVERAGE	14.0	
1	Ċ,	0.07
2	1	33.3%
3	0	0.07
4	0	0.07
5-10 11-15	1	33.37
16-20	0	0.0%
20+	0 N	0.0%
297	1	33.3*
EDVICATION	N=(8)	
AVERAGE YEARS	10.6	
1-6	1	15.27
7-9	1	12.57
10	1	12.5%
-11	0	0.0%
12	4	50.09
13	1	12.57
14	0	0.09
15	0	0.0%
16	0	0.02
17 AND HP	0	0.0%
INCOME		
	N=(?)	FO OF
LESS THAN \$4000 4000-5999	4	50.0%
6000 -7 999	1 1	12.59
8000-9999	1	12.59 12.59
10000-11999	0	0.07
12000-13999	1	12.59
14000-15999	n n	0.09
16000-17999	0	0.07
18000-19999	ņ	0.04
20000-UP	0	0.09
BAC DATA	N=(262)	
AVEPAGE BAC	• Üasā	
AVERAGE POSITIVE BAC	. 1779	
NEGATIVE	115	43.8%
.0104	12	4.59
.0509	13	4.9%
.1014	29	11.09
.1519 .2024	<u>,</u> ,,	12.57
•25 +	25	0,5% 13.3%
	35	13.37
	3	100.09
12-19	° 0	0.0₹
20-29	0	0.0%
30-39	Ő	0.0%
40-49	0	0.0%
50-UP	0	0.09
		·· • ··

EXHIBIT 4.0-1 (Continued)

DRINKER CLASS	DATA	N=(8)	
	PROBLEM	4	50.0%
	NON-PROBLEM	4	
	UNDEETNED	0	50.07
	ST. PROP. DRINKERS		0.07
•	21. SUBSUE	6	2.4%
VIOLATIONS ON	ADB	N=(246)	
	1 DWI	21	8.57
	2 DWI	5	2.09
•	3 OWI	1	0.4%
	4 DWT	Ō	0.07
	5+ DWT	0	
	AVERAGE NO DWIS	•13	0.09
	1-2 NON AVE VIOLATIO		20.7%
	3-4	9	3.6%
	5-6	2	0.8%
	7-8	0	0.0%
	9 (10	n	0.0%
	AVERAGE NON AVE VIOL	• 43	
	1 ACCIDENT	74	30.07
	2 ACCIDENTS	4	
	3 ACCEDENTS	1	1.6%
	4 OR MORE		0.47
	AVER NO ACCIDENTS	0	0.0%
	ATTO TO ACCIDENTS	• 34	
CRIMINAL INVES		N=(2)	
	1-2 MISDEMEANDES	1	50.0%
	3-4 MISDEMEANDES	1	50.09
	5+ MISDEMEANDRS	Ō	0.07
	AVG NO. MISDEMEANDES		
	1-2 FELONTES	0	0.09
	3-4 FELONIES	Ő	0.07
	5+ FELONIES	0	0.07
	AVG NO EFLONTES	•00	1) e () k
	1-2 AIR MISDEMEANORS		100 00
	3-4 A/P MISDEMEANORS	2	100.09
	5+ A/R MISDEMEANORS	0	0.0%
	AVG NO AZR MISDEMEANO	0	0.07
	1-2 A/P FFLONTES		
	3-4 A/R FELONIES	. 0	0.09
		0	0 •0 2
	5+ A/R FELONIES	0	0.0*
	AVG NO AVP FELONIES	•00	
والمراجع المحاف الم			
AVG DAYS TO TY	PE 1 RECID		
	1	5	427 DAYS
	2	2	63 DAYS
AVE DAYS TO TY	_		
	1	2	449 DAYS
	2	6	150 DAYS
	3	3	70 DAYS
AVG DAYS TO TH			
· · · · · · · · · · · · · · · · · · ·	DE 3 SECIU	-	_
		2	449 0445
	2	6	150 DAYS
	•	3	70 DAYS
	· · · · · · · · · · · · · · · · · · ·	·	

EXHIBIT 4.0-2

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IDAHO ALCOHOL SAFETY ACTION PROJECT PROFILE ANALYSIS

AVERAGE IDAHO DRIVERS

	•	SAMPLE SIZE :		212		
	SEX					
	JLA	HALES	N= (207)		
		MALES		144	69.58	
•		FEMALES		63	30.4%	
	HEIGHT		N= (207)		
		AVERAGE HEIGHT	11-1	68.0		
				00.0		
	WEIGHT		N= (206)		
		AVERAGE WEIGHT		157.7		
	AGE					
	AUL	AVERAGE AGE	N= (212)		
		AGE 19 OR LESS		37.1		
		AGE 19 UK LESS AGE 20 - 24		30	14.1%	
		AGE 20 - 24 AGE 25 - 29		36	16.9%	
		AGE 30 - 34		21	9.9%	
		AGE 30 - 34 AGE 35 - 39		15	7.0%	
		AGE 40 - 44		31	14.67	
	. •	AGE 45 - 49		11	5.1%	
		AGE 50 - 59		16	7.5%	
		AGE 60 AND OVER		26	12.27	
		ADE SO AND DVER		26	12.27	
	RACE	•	N= (10)		
		WHITE		3	50.0%	
		BLACK		õ	0.0%	
		AMERICAN INDIAN		2	20.0%	
		MEXICAN		ō	0.0%	
		ORIENTAL		Ō	0.07	
		LATIN		0	0.0%	
		OTHER RACES		0	0.0%	
	EMPLOYMENT	STATUC	•			
	CMPECIMENT		N= (10)		
		FULL-TIME PART-TIMF		9	90.0%	
		NOT EMPLOYED		0	0.0%	
		HOUSEWIFE		1	10.0%	
		STUDENTS		0	0.0%	
	,	RETIPED		0	0.0%	
		RETIFIED		0	0.0%	
	CCCUPATION	TYPE	N= (10)		
		UNEMPLOYED		1	10.0%	
		PROF / TECH		ī	10.0%	
		CLERICAL / SALES		4	40.0%	
		SERVICES		0	0.0%	
		AGRICULTURE		1	10.0%	
		PRICESSING		Ō	0.0%	
		MACHINE TRADES		0	0.0%	
		FABRICATION / REPAI	R	1	10.0%	
		STRUCTURAL		0	0.0%	
		CTHER		2	20.0%	

	EXHIBIT 4	.0-2 (Continu	ued)	. .	
YEARS IN IDAH	10 .		N= (6)	
	AVERAGE YE				
	1			0	0.02
	2			1	16.6%
	3 4			0	0.0%
	5			0	0.0%
	6-10		· .	0	0.0% 16.6%
	11-15			ō	0.0%
	16-20			Ō	0.0%
	21 AND OVER	2		4	66.6%
REHABILITATIO			V= (212)	
	ATTENDED DE		G	15	7.0%
	ATTENDED DI			7	3.3%
	ATTENDED CC		-	4	1.8%
COURT ALCOHOL)= (4)	
	NEGATIVE IN ZERO IMPROV			0	0.0%
	IMPROVEMENT			0 1	0.0%
	1	5-9		2	25.0% 50.0%
	1	0-14		1	25.0%
		5-19		0	0.0%
	2	0-UP		0	0.0%
MARITAL STATU	s	N	= (10)	
	MARRIED			5	50.0%
	SINGLE			3	30.0%
	DIVORCED			0	0.0%
	WIDOWED SEPERATED			0	0.0%
	CTHER			2 0	20.0%
				-	0.07
DEPENDENTS	0	N	= (7)	
	0			3 1	42.8%
•	2			1	14.2% 14.2%
•	1 2 3 4			ō	0.0%
	4 .			1	14.2%
	5 6 7 8	•		0	0.02
	6 7			0	0.0%
	8			0	0.0%
	9			1	0.0% 14.2%
	10			ō	0.0%
	11+			0	0.07
RELIGION		N	= (5)	
	PRCTESTANT			1	20.0%
	CATHOLIC			2	40.0%
	JEWISH MORMEN			0	0.0%
	OTHER			1	20.0%
				T	20.02

	EXHIBIT 4.0-2	(Continued)		
YEARS MARRIE		N=	(1)		
	AVERAGE		27.0		
	1 2		0		0.0%
	- 3		0 0		0.07
	4	·	0		0.0%
	5-10		ŏ		0.0%
	11-15		Ō		0.07
	16-20		0		0.0%
	20+		1	10	0.0%
EDUCATION		N= (10)		
	AVERAGE YEARS		11.2		
	1-6		1	1	2.2%
	7-9		0		0.0%
	10 11		2		0.0%
	12		3		0.0%
	13		2		0.0% 0.0%
	14		2 3 1 2 0		0.0%
	15		0		0.0%
	16 17 AND UP		1		0.0%
	IT AND UP		0	1	0.0%
INCOME		N= (10)		
	LESS THAN \$4000	•	1	10	3.0%
	4000-5999		3		0.0%
	6000-7999		1		2-07
	8000-9999 10000-11999		2 0		0.0%
	12000-13999		1).0%).0%
м. М	14000-15999		2)•07
	16000-17999		Ō		.02
	18000-19999		. 0		.0%
	2000C-UP		0	C	.0%
BAC DATA		N= (24)		
AVERAGE BAC			.175%		
AVERAGE POSIT			.182%		
	NEGATIVE		1		.17
	•01 - •04 •05 - •09		0		•0%
	.1014		2 8		•3%
	.1519		5		.32 .87
	•20 - •24		5		.32
	•25 +		6		.02
REFUSED TEST					
	ONCE .	N= (212) 5	· •	
	TWICE		0		.37 .07
	3 OR MORE		õ		•0% •0%
			•	-	-

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	EXHIBIT 4.0-2 (Conti	inued)		•
DIAGNOSTIC TE	ST SCORES AVERAGE ALCADD	N= (4) 12.5	
	1-11 12-19		3	75.0%
	20-29		0 0	0.0%
	30-39		1	25.0%
	40-49		0	0.0%
	50-UP		0	0.0%
DRINKER CLASS	DATA	N= (8)	
	PROBLEM		5	62.5%
	NON-PROBLEM		2	25.0%
	UNDEFINED EST. PROB. DRINKERS		1 8	12.5¥ 3.7¥
VIOLATIENS EN			-	2014
FIGERITERS CH	1 DWI	N= (212) 27	12.7%
	2 DWI		10	4.7%
	3 DWI		1	0.4%
	4 DWI		1	0.4%
	5+ DWI		2	0.9%
	AVERAGE NO DWIS		.31	
	1-2 NON A/R VIOLATI	ONS	68	32.0%
	3-4		18	8.4%
	5-6 7-8		7	3.3%
	9 UP		2 2	C.9% 0.9%
	AVERAGE NON A/R VID	L 1	.09	0.76
	1 ACCIDENT 2 ACCIDENTS		20	9.4%
	3 ACCIDENTS		6 0	2.8% 0.0%
	4 OR MORE		õ	0.0%
	AVER NO ACCIDENTS		.15	
CRIMINAL INVES	TIGATION DATA	N= (7)	
	1-2 MISDEMEANORS		. 4	57.1%
	3-4 MISDEMEANORS 5+ MISDEMEANORS	• .	0 3	0.0%
	AVG NO. MISDEMEANORS	s 7	•14	42.8%
	1-2 FELONIES		1	14.27
	3-4 FELONIES		0	0.0%
	5+ FELONIES		0	0.0%
	AVG NO FELONIES 1-2 A/R MISDEMEANORS		•14	1/
	3-4 A/R MISDEMEANORS		1 0	14.2% 0.0%
	5+ A/R MISDEMEANORS		2	28.5%
	AVG NO A/R MISDEMEAN		•14	
	1-2 A/R FELONIES		Ο.	0.07
	3-4 A/R FELONIES		0	0.07
	5+ A/R FELONIES AVG NO A/R FELONIES		0 • 0 0	0.0%
	The second s			

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. . . EXHIBIT 4.0-2 (Continued)

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AVG DAYS TO TYPE 1 RECID

AND DATE TO TIPE I RECID		
1	10	508 DAYS
2	2	E6 DAYS
3	3	77 DAYS
4	4	53 DAYS
5	7	23 DAYS
AVG DAYS TO TYPE 2 RECID		
1	10	5C8 DAYS
2	2	86 DAYS
3	3	77 DAYS
4	4	53 DAYS
5	7	23 DAYS
AVG DAYS TO TYPE 3 RECID		
1	10	5C8 DAYS
. 2	· 2	86 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	
SEX	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	13.1% 14.8% 16.3% 8.4% 11.0% 8.7% 8.4% 13.4% 5.5%
RACE	WHITE BLACK AMERICAN INDIAN MEXICAN ORIENTAL LATIN OTHER RACES	N= (17C) 151 0 11 8 0 0 0	88.87 0.07 6.47 4.77 0.07 0.07 0.07
EMPLOYMENT	FULL-TIME PART-TIME NOT EMPLOYED	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 / REPAI STRUCTURAL GTHER	N= (R	168) 16 7 11 21 16 21 9 10 11 46	9.5% 4.1% 6.5% 12.5% 9.5% 12.5% 5.3% 5.3% 5.9% 6.5% 27.3%

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·	EXHIBIT 4.0-	3 (Continued)	
YEARS IN TOA	но	N= (149)	
	AVERAGE YEARS 1 2 3 4 5 6-10 11-15 16-20 21 AND OVER	IN IDA	22.3 9 7 2 4 13 10 19 81	6.0% 4.6% 1.3% 2.6% 2.6% 8.7% 6.7% 12.7% 54.3%
REHABILITATIC	ATTENDED DEF. ATTENDED DEF. ATTENDED DICP ATTENDED COURT		400) 34 31 75	8.5% 7.7% 18.7%
COURT ALCOHOL	SCHOOL DATA NEGATIVE IMPRO ZERO IMPROVEME IMPROVEMENT 1- 5- 10-1 15-1 20-0	DV E MEN T ENT -4 -9 -4 -9 -4 -9	75) 2 0 20 34 16 1 2	2.6% 0.0% 26.6% 45.3% 21.3% 1.3% 2.6%
MARITAL STATU	S MARRIED SINGLE DIVORCED WIDOWED SEPERATED CTHER	N= (17C) 79 46 28 5 10 2	46.4% 27.0% 16.4% 2.9% 5.8% 1.1%
DE PE NDE NT S	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 0	34.17 17.78 15.17 12.67 10.17 4.48 1.27 2.57 0.68 0.07 0.07
	PRCTESTANT CATHOLIC JEWISH MORMCN GTHER	N= (153) 55 30 0 30 38	35.9% 19.6% 0.0% 19.6% 24.8%

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	EXHIBIT 4.0-3 (Continued)	
YEARS MARRIED	,	N=(82)	
	AVERAGE	10.0	
	1 2	- 14	17.0%
	3	11	13.4%
	2 4	4	4.8%
	5-10	6	7.3%
	11-15	17 8	20.7%
	16-20	° 9	9.7%
	20+	13	10.9% 15.8%
		17	10.04
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	63	37.7%
	13	10	5.9%
	14	16	9.58
	15	5 5	2.98
	16	5	2.9%
	17 AND UP	3	1.7%
INCOME		N=(163)	
	LESS THAN \$4000	N=(163) 43	34 39
	4000-5999	35	26.3% 21.4%
	6000-7999	29	17.7%
	8000-9999	25	15.3%
	10000-11999	14	8.5%
	12000-13999	7	4.2%
	14000-15999	4	2.4%
	16000-17999	1	0.6%
	18000-19999	1	0.6%
	20000-UP	4	2.4%
BAC DATA			
AVERAGE BAC		N=(240)	
AVERAGE POSITI	VE BAC	.148%	
	NEGATIVE	۰150% ۲	0.03
	.0104	2 2	0.8%
	.0509	34	0.8%
	.1014	· 79	32.9%
	.1519	77	32.0%
	.2024	33	13.7%
	•25 +	13	5.48
			• •
REFUSED TEST	• ···• -	N=(400)	
	ONCE	11	2.7%
	TWICE	0	0.0%
	3 OR MORE	0	0.0%

· · · · · · · ·	· ··· · · · · · · · · · · · · · · · ·	والا مربعه والا	
	EXHIBIT 4.0-3 (Con	ntinued)	
DIAGNOSTIC TE		N=(103)	
	AVERAGE AL CADD	12.0	
	1-11	59	57.2*
	12-19	28	27.1%
	20-29	11	10.6%
	30-39	4	3.8%
•	40-49	1	0.9%
	50 UP	0	0.0%
ORINKER CLASS			
	PROBLEM	N=(160)	(
	NGN-PROBLEM	70 7 7	43.7%
	UNDEFINED	13	48.1% 8.1%
	EST. PROB. DRINKER	S 90	22.5%
			62070
VIOLATIONS ON		N=(400)	
	1 DWI	283	70.7%
	2 DWI	76	19.0%
	3 DWI	26	6.5%
	4 DWI 5+ DWI	10	2.5%
	AVERAGE NO DWIS	5	1.2%
	ATERAGE NO DWIS	1.45	
	1-2 NON A/R VIOLAT	IONS 109	27.2%
	3-4	42	10.5%
	5-6	13	3.2%
	7-8	6	1.5%
	9 UP	3	0.78
	AVERAGE NON A/R VI	OL 1.08	
	1 ACCIDENT 2 ACCIDENTS	69	17.2%
	3 ACCIDENTS	21	5.2%
	4 OR MORE	6 0	1.5%
	AVER NO ACCIDENTS	•32	0.0%
		• 52	
CRIMINAL INVES	TIGATION DATA	N=(46)	
	1-2 MISDEMEANORS	27	58.6%
	3-4 MISDEMEANORS	12	26.0%
	5+ MISDEMEANORS	7	15.2%
	AVG NO. MISDEMEANOR		
	1-2 FELONIES 3-4 FELONIES	1	2.1%
	5+ FELONIES	0 0	0.0%
	AVG NO FELONIES	•02	0.02
	1-2 A/R MISDEMEANOR		41.37
	3-4 A/R MISDEMEANOR		8.6%
	5+ A/R MISDEMEANORS	1	2.17
	AVG NO AZR MISDEMEA	NORS 1.36	
	L-2 A/R FELONIES	0	Ú.0%
	3-4 A/R FELONIES	0	0.0%
	5+ A/R FELONIES	0	0.0%
1	AVG NO A/R FELONIES	•00	

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AVG DAYS TO TYPE	EXHIBIT 4.0-3 (Continued)	· .	
ľ		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		· · · ·	274 DAYS
3			110 DAYS
4		20	87 DAYS
5	·	16	44 DAYS
AVG DAYS TO TYPE	3 RECID		
1		67	481 DAYS
2		· ·	274 DAYS
3			LIO DAYS
. 4		20	87 DAYS
5		16	44 DAYS

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EXHIBIT 4.0-4 Idaho Alcohol Safety Action project Profile Analysis

YEAR 1 OPERATIONAL DWIS.

	SAMPLE SIZE :		(0 0	
	SAFFLE SILE .		400	
SE X		N= (297)	
	MALES		267	89.8%
	FEMALES		30	10.1%
HEIGHT		N= (293)	
	AVERAGE HEIGHT		68.7	
WEIGHT			2021	v
	AVERAGE WEIGHT		29 3) 165.1	
AGE				
	AVERAGE ÅGE	N= (322)	
	AGE 19 OR LESS		38.1	
	AGE 20 - 24		19	5.9%
	AGE 25 - 29		48	14.9%
	AGE 30 - 34		48	14.9%
	AGE 35 - 39		28	8.6%
· · ·	AGE 40 - 44		34	10.5%
	AGE 45 - 49		29 41	9.0%
	AGE 50 - 59		41 50	12.7%
	AGE 60 AND OVER		25	15.5% 7.7%
RACE				
RACE		N= (
	WHITE		135	82.3%
	BLACK		· 1	0.6%
	AMERICAN INDIAN		13	7.9%
	MEXICAN ORIENTAL		13	7.98
			1	0.6%
	OTHER RACES		0	0.0%
			1	0.6%
EMPLOYMENT		N= (166)	
м М	FULL-TIME		121	72.8%
	PART-TIME		8	4.8%
	NOT EMPLOYED		18	10.8%
	HOUSEWIFE STUDENTS		3.	1.8%
	RETIRED		7	4.2%
			9	5.4%
OCCUPATION		N= (165)	· ·
	UNEMPLOYED		20	12.1%
	PROF / TECH		14	8.4%
	CLERICAL / SALES		12	7.2%
	SERVICES		19	11.5%
	AGRICULTURE		14	8.4%
	PROCESSING		21	12.7%
	MACHINE TRADES		7	4.2%
	FABRICATION / REPAIR STRUCTURAL		9	5.4%
	OTHER		8	4.8%
			41	24.8%

	EXHIBIT 4.	0-4 (Continued	1)	
YEARS IN IDA		N= (80)	2.5% 5.0% 2.5% 2.5% 2.5% 12.5%
	11-15 16-20 21 AND OVER		8 11 39	10.08 13.78 48.78
REHABILITATIC	ATTENDED DEF. ATTENDED DEF. ATTENDED DICP ATTENDED COUR		400) 39 44 73	9.7% 11.0% 18.2%
COURT ALCOHOL	SCHOOL DATA NEGATIVE IMPR ZERO IMPROVEM IMPROVEMENT 1 5 10- 15- 20-	OVEMENT ENT -4 -9 14 19	73) 3 0 19 31 14 3 3	4.1% 0.0% 26.0% 42.4% 19.1% 4.1% 4.1%
MARITAL STATU	S MARRIED SINGLE DIVORCED WIDOWED SEPERATED OTHER	N ≃ (165) 73 43 27 10 11 1	44.2% 26.0% 16.3% 6.0% 6.6% 0.6%
DE PENDENTS	0 1 2 3 4 5 6 7 8 9 10 11+	N= (90) 30 22 11 10 6 5 5 1 0 0 0 0	33.3% 24.4% 12.2% 11.1% 6.6% 5.5% 5.5% 1.1% 0.0% 0.0% 0.0%
RELIGICN	PROTESTANT CATHOLIC JEWISH MORMON OTHER	N= (81) 26 15 0 14 26	32.0% 18.5% 0.0% 17.2% 32.0%

YEARS MARRIED	KHIBIT 4.0-4 (Cont:	inued) N=(51)		
AVERA		13.1		
	02			- 3 GF
1 2		6		•7%
3		6		•7%
		3		.8%
5-10		3		•8%
11-15		10		•6%
16-20		2		•9%
20+		5		-8%
201		16	31	•3%
EDUCATION	,	N=(164)		
	SE YEARS	11.1		
1-6		9	-	79
7-9		27		•7%
10		23		.4%
11		13		.0%
12		58		•97
13		13		•3%
- 14		10		•9%
. 15		10		•0%
16		1		•6%
17 AND	110	3		•2% •8%
		5	1	• 0 4
INCOME	٨	I=(163)	•	
LESS T	HAN \$4000	54	33	.1%
	4000-5999	38		.37
	6000-7999	26		.9%
	8000-9999	21		.8%
10	000-11999	10		1%
12	000-13999	5		.0%
14	000-15999	2		2%
16	000-17999	2 2		2%
18	000-19999	ō		08
	000-UP	5		02
BAC DATA	N	= (224)		
AVERAGE BAC		•158%		
AVERAGE POSITIVE BAC		.161%		
NEGATI		3	1.	3%
.01 -		3	1.	3%
.05 -		23	10.	28
.10 -		65	29.	08
•15 -		73	32.	5%
-20 -	•24	41	18.	
•25 +		16	7.	18
REFUSED TEST		- ((00)		
ONCE	N	= (400)	F	E 04
TWICE		22		5%
3 CR MI	1R F	1		27 07
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			••		
	EXHIBIT 4.0-4 (Cont	tinued	1)		
DIAGNOSTIC TES	-	N= (57)		
	AVERAGE ALCADD		11.5		
	1-11		36	63.	192
	12-19		11		
	20-29			19.	
	30-39		7	12.	
			2		5%
	40-49		1		78
	50-UP		0	0.	0%
DRINKER CLASS	DATA	N= (135)		
	PROBLEM		42	31.	12
	NON-PROBLEM		78	57.	
	UNDEFINED		15	11.	
	EST. PROB. DRINKERS		90		
	Love those on the LAS		,70	22.	24
VIOLATIONS ON					
VICEATIONS ON		N= (400)		
	1 OWI		267	66.	
	2 DWI		99	24.	
	3 DWI		21	5.	2%
	4 DWI		11	2.	78
	5+ DWI		2	0.	
	AVERAGE NO DWIS		1.46		
	1-2 NON A/R VIOLATIC	INS	137	34.	28
	3-4		25	- 6.	
	5-6		14	3.	
	7-8				
	9 UP		3	0.	
			1	0.	28
	AVERAGE NON A/R VIOL	•	•95		
	1. 10010515				
	1 ACCIDENT		75	18.	
	2 ACCIDENTS		19	4.	
	3 ACCIDENTS		12	. 3.0	2%
	4 CR MORE		1	0.	28
	AVER NO ACCIDENTS		•38		
CRIMINAL INVES	TIGATION DATA	N= (66)		
	1-2 MISDEMEANORS		29	43.9	
	3-4 MISDEMEANORS		13	19.0	
	5+ MISDEMEANORS		24		
	AVG NO. MISDEMEANORS			36.	56
	1-2 FELONIES	•	5.21		
			0	0.0	
	3-4 FELONIES		0	0.0	
	5+ FELGNIES		2	3.0)%
	AVG NO FELONIES		•15		
	1-2 A/R MISDEMEANORS		18	27.2	28
	3-4 A/R MISDEMEANORS		3	4.5	5%
	5+ A/R MISDEMEANORS		6	9.0	
	AVG NO A/R MISDEMEAN	ORS			
	1-2 A/R FELONIES	-	1	1.5	5%
	3-4 A/R FELONIES		ō	0.(
	5+ A/R FELONIES		0	0.0	
	AVG NO A/R FELONIES		.01		1 ~
-	TO BU ANN FELURIES		• • •		

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

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EXHIBIT 4.0-5 IDAHO ALCOHOL SAFETY ACTION PROJECT PROFILE ANALYSIS

BASELINE DWIS

	SAMPLE SIZE :		400	
SEX	,	N= (253)	
	MALES		229	90.5%
	FEMALES		24	9.4%
HEIGHT		N= (232)	
	AVERAGE HEIGHT		69.0	
WEIGHT		N= (232)	
	AVERAGE WEIGHT	1	.65.9	
AGE		N= (390)	
	AVERAGE AGE		39.4	
	AGE 19 OR LESS		4	1.0%
	AGE 20 - 24 AGE 25 - 29		46	11.7%
	AGE 20 - 29 AGE 30 - 34		70	17.9%
	AGE 35 - 39		53 42	13.5%
	AGE 40 - 44		32	10.7¥ 8.2%
	AGE 45 - 49		43	11.0%
	AGE 50 - 59		66	16.9%
	AGE 60 AND OVER		34	8.7%
RACE		N= (1)	
	WHITE		0	0.0%
	BLACK		õ	0.0%
	AMERICAN INDIAN		1	100.0%
	MEXICAN		0	0.0%
	ORIENTAL		0	0.0%
			0	0.0%
	OTHER RACES		0	0.0%
EMPLOYMENT		N= (1)	
	FULL-TIME		0	0.0%
•	PART-TIME NOT EMPLOYED	•	0	0.0%
	HOUSEWIFE		1	100.0%
	STUDENTS		0 0	0.0%
·	RETIRED		0	0.0% 0.0%
OCCUPATION	ТҮРЕ	N= (1)	
	UNEMPLOYED	(4 - 1	1	100.03
	PROF / TECH		ò	0.0%
	CLERICAL / SALES		õ	0.0%
	SERVICES		Ō	0.0%
	AGRICULTUP		0	0.0%
	PRECESSING		0	0.0%
	MACHINE TRADES		0	0.0%
	FABRICATION / REPAIR	र	0	0.0%
	STRUCTURAL		0	0.0%
	OTHER		0	0.0%

		·	• • •
	EXHIBIT 4.0-5 (C	ontinued)	
REHABILITAT		N=(400)	
	ATTENDED DEF. DR	IVING 12	3.0%
	ATTENDED DICP	7	1.7%
MARITAL STA	-	N=(1)	
	MARRIED	1	100.0%
,	SINGLE	Ō	0.0%
	DIVORCED	õ	0.0%
	WIDOWED	0	0.0%
	SEPERATED	Ŭ O	0.0%
	OTHER	õ	0.0%
	·	Ū	
EDUCATION		N=(1)	
	AVERAGE YEARS	11.0	
	1-6	0	8.7%
	7-9	ŏ	0.0%
	10	Ŏ	0.0%
	11	1	100.02
	12	Ô	
	13	0	0.0%
	14	0	0.0%
	15	0	0.0%
	16	0	0.0%
	17 AND UP	0	0.0%
		0	0.0%
INCOME		N=(1)	
	LESS THAN \$4000		
	4000-5999	1	20.0
	6000-7999	0	100.02
	8000-9999	0	0.0%
	10000-11999	0	0.0%
	12000-13999	0	0.0%
	14000-15999	0	0.0%
	16000-17999	0	0.0%
	18000-19999	0	0.0%
	20000-UP	0	0.0%
	20000 01	0	0.0%
BAC DATA		N=(68)	
AVERAGE BAC			
AVERAGE POSIT	IVE BAC	• 1978	
	NEGATIVE	• 197%	
	.0104	0	0.0%
	.0509	. 1	1.4%
	.1014		4.4%
	•15 - •19	12	17.6%
	•20 - •24	23 13	33.8%
	•25 +		19.1%
		16	23.5%
REFUSED TEST		N=(400)	
	ONCE		o
	TWICE	10	2.5%
	3 OR MORE	0	0.0%
· ·		U	0.0%

	•	•
EXHIBIT 4.0-5 (Continue	สา	
DIAGNOSTIC TEST SCORES N=	-	
PROBLEM	0	0.0%
NON-PROBLEM	1	100.0%
UNDEFINED	Ō	0.03
EST. PROB. DRINKERS	20	5.0%
VI OLATIONS ON ADD		
VIOLATIONS ON ADB N=		
1 DWI 2 DWI	327	81.7%
2 DWI 3 DWI	67	16.7%
4 DWI	5	1.2%
5+ DWI	0	0.0%
AVERAGE NO DWIS	1	0.2%
	1.20	
1-2 NON A/R VIOLATIONS	84	21.0%
3-4	21	5.2*
5-6	1	0.2%
7-8	ō	0.0%
9 UP	0	0.0%
AVERAGE NON A/R VIOL	•45	
1 ACCIDENT		
1 ACCIDENT 2 ACCIDENTS	14	3.57
3 ACCIDENTS	0	0.0%
4 DR MORE	0	0.0%
AVER NO ACCIDENTS	0	0.0%
	•03	
AVG DAYS TO TYPE 1 RECID		
1 2	67	266 DAYS
. 4	10	148 DAYS
AVG DAYS TO TYPE 2 RECID		
1	67	266 DAYS
2	10	148 DAYS
	~~	THO DHID
AVG DAYS TO TYPE 3 RECID		
1	67	266 DAYS
2	10	148 DAYS

EXHIBIT 4.0-6 IDAHO ALCOHOL SAFETY ACTION PROJECT PROFILE ANALYSIS

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AEP DWIS 1974

	SAMPLE SIZE :		400	
SEX	MAX 50	N= (258)	
	MALES		226	87.5%
	FEMALES		32	12.4%
HEIGHT	·	N= (249)	
	AVERAGE HEIGHT	•	68.9	
WEIGHT				
WEIGHI	AVERAGE WEIGHT		249)	
	AVERAGE HEIGHI		161.3	
AGE		N= (288)	
	AVERAGE AGE		35.7	
	AGE 19 OR LESS		26	9.0%
	AGE 20 - 24		53	18.4%
	AGE 25 - 29		42	14.5%
	AGE 30 - 34		30	10.4%
	AGE 35 - 39		27	9.3%
	AGE 40 - 44		28	9.7%
	AGE 45 - 49		37	12.8%
	AGE 50 - 59		25	8.6%
	AGE 60 AND OVER		20	6.9%
RACE		N= (141)	
	WHITE		129	91.4%
	BLACK		1	0.7%
	AMERICAN INDIAN		4	2.8%
	MEXICAN		5	3.5%
	ORIENTAL		0	0.0%
	LATIN		0	0.0%
	OTHER RACES		2	1.4%
EMPLOYMENT	STATUS	N= (143)	
	FULL-TIME		104	72.7%
	PART-TIME		9	6.2%
	NOT EMPLOYED		18	12.5%
	HOUSEWIFE		4	2.7%
	STUDENTS		2	1.3%
	RETIRED		6	4.1%
OCCUPATION	TYPE	N= (140)	
	UNEMPLOYED	· • - •	18	12.8%
	PROF / TECH		14	10.0%
	CLERICAL / SALES		6	4.2%
	SERVICES		12	8.5%
	AGRICULTURE		5	3.5%
	PROCESSING		17	12.1%
	MACHINE TRADES		5	3.5%
	FABRICATION / REPAI	R	10	7.1%
	STRUCTURAL		10	7.1%
. *	OTHER		43	30.7%

YEARS IN IDA	EXHIBIT 4.0-6 (Co			
	AVERAGE YEARS IN 1 2 3 4 5 6-10 11-15 16-20 21 AND OVER	N= (I D A	119) 22.6 5 2 5 4 12 13 8 65	4.2% 4.2% 1.6% 4.2% 3.3% 10.0% 10.9% 6.7% 54.6%
REHABILITATIC	IN DATA ATTENDED DEF. DRIV ATTENDED DICP ATTENDED COURT-SCH		400) 33 53 83	8.2% 13.2% 20.7%
COURT ALCOHOL	SCHOOL DATA NEGATIVE IMPROVEMEN ZERO IMPROVEMENT IMPROVEMENT 1-4 5-9 10-14 15-19 20-UP	N= (NT	83) 1 0 31 36 10 2 3	1.2% 0.0% 37.3% 43.3% 12.0% 2.4% 3.6%
MARITAL STATU.	S MARRIED SINGLE DIVORCED WIDOWED SEPERATED GTHER	N= (144) 74 30 32 2 6 0	51.3% 20.8% 22.2% 1.3% 4.1% 0.0%
OE PENDENTS	0 1 2 3 4 5 6 7 8 9 10 11+	N= (131) 39 23 20 13 23 9 2 1 0 0 1 0	29.7% 17.5% 15.2% 9.9% 17.5% 6.8% 1.5% 0.7% 0.0% 0.0% 0.0% 0.0%
	PROTESTANT CATHOLIC JEWISH MORMON GTHER	N= (122) 57 23 0 20 22	46.7% 18.8% 0.0% 16.3% 13.0%

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	EXHIBIT 4.0-6	(Continued)	-		
YEARS MARRIED	AVERAGE	N= (73) 13.2		
	1		6		8.2%
	2		5 4		6.8% 5.4%
	4		5		6.8₹
•	5-10 11-15		13 14		7.8% 9.1%
	16-20		10		3.6%
	20+		16	2	21.9%
EDUCATION		N= (141)		
	AVERAGE YEARS 1-6		11.0 5		6.9%
	7-9		25	1	7.7%
	10 11		12 20	1	8.5%
	12		59		1.8%
	13 14		6 9		4.2% 6.3%
	15		1		0.7%
	16 17 AND UP		4 0		2.8% 0.0%
	IT AND OF		U		0.04
INCOME	LESS THAN \$4000	N= (133) 40	2	0.07
	4000-5999		22		6.5%
	6000-7999 8000-9999		26 20		9.5% 5.0%
	10000-11999		10		5.0% 7.5≭
	12000-13999 14000-15999		1 7		0.7%
	16000-17999		0		5.2% 0.0%
	18000-19999		2 5		1.5%
	20000-UP		2		3.7%
BAC DATA Average bac			291)		
AVERAGE POSITI	VE BAC		•142% •143%		
	NEGATIVE •01 - •04		3 10		1.0%
-	.0509		41		3.4% 4.0%
	.1014		93	3	1.98
	•15 - •19 •20 - •24		97 40		3.3% 3.7%
	•25 +		7		2.48
REFUSED TEST		N= (400)		
	ONCE Twice		19 0		4.7%
	3 OR MORE		0		0.0% 0.0%

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DIAGNOSTIC TEST SCORES N=(97) AVERAGE ALCADD 11.9 1-11 52 53.63 12-19 33 34.07 20-29 9 9 9.22 30-39 3 3.03 40-49 0 0.03 50-UP 0 0 0.03 DRINKER CLASS DATA N=(133) PROBLEM 51 38.33 NON-PROBLEM 71 53.37 UNDEFINEO 11 8.22 EST. PROB. DRINKERS 92 23.03 VIOLATIONS CN ADB N=(400) 1 DWI 285 71.23 2 DWI 73 18.23 3 DWI 229 7.23 4 DWI 10 2.53 5+ DWI 30.73 AVERAGE NO DWIS 1.43 1-2 NON A/R VIOLATIONS 97 24.23 3-4 5.6 10 2.53 7-8 4 1.03 9 UP 2 0.53 AVERAGE NO NA/R VIOL .83 1 ACCIDENTS 2 0.53 AVERAGE NON A/R VIOL .83 1 ACCIDENTS 2 0.53 AVERAGE NON A/R VIOL .83 1 ACCIDENTS 2 0.53 AVERAGE NON A/R VIOL .83 CRIMINAL INVESTIGATION DATA N=(39) 1-2 MID MACH DIA N=(39) 1-2 FELONIES 1 2.53 3-4 MIDEMEANORS 15 38.43 3-4 MIDEMEANORS 10 25.67 AVERAGE NO ACCIDENTS .24 CRIMINAL INVESTIGATION DATA N=(39) 1-2 FELONIES 1 2.53 3-4 FELONIES 1 3.50 3-50 3-50 3-50 3-50 3-50 3-5		EXHIBIT 4.0-6 (Cont	inved	
AVERAGE ALCADD 11.9 1-11 52 53.63 12-19 33 34.07 20-29 9 9 9.22 30-39 3 3.03 40-49 0 0.07 50-UP 0 0 0.07 DRINKER CLASS DATA N=(133) PR CBLEM 51 38.37 UNDEFINED 11 8.27 EST. PROB. DRINKERS 92 23.07 VIOLATIENS CN ADB N=(400) 1 DWI 265 71.23 2 DWI 73 18.22 3 DWI 29 7.23 4 DWI 20 7.23 4 DWI 10 2.57 5+ DWI 3 0.73 AVERAGE NO DWIS 1.43 1-2 NON A/R VIOLATIONS 97 7.24.23 3-4 29 7.23 4 DWI 50.073 AVERAGE NO DWIS 1.43 1-2 NON A/R VIOLATIONS 97 7.24.23 3-4 29 7.23 4 DWI 0.2.57 7-8 4 1.03 9 UP 2 0.57 AVERAGE NON A/R VIOL .83 1 ACCIDENT 53 13.27 2 ACCIDENTS 2 0.57 AVERAGE NON A/R VIOL .83 CRIMINAL INVESTIGATION DATA N=(39) 1-2 MISDEMEANORS 15 38.43 3-4 MISDEMEANORS 10 25.67 AVER NO ACCIDENTS .24 CRIMINAL INVESTIGATION DATA N=(39) 1-2 MISDEMEANORS 10 25.67 AVER NO ACCIDENTS .24 CRIMINAL INVESTIGATION DATA N=(39) 1-2 FELONIES 1 2.57 3-4 FELONIES 1 3.50 3-57 3-57 3-57 3-57 3-57 3-57 3-57 3-57 3-57 3-57 3-57 3-57 3-57 3	DIAGNOSTIC TE			
1-11 52 53.63 12-19 33 34.07 20-29 9 9.23 30-39 3 3.03 40-49 0 0.02 50-0P 0 0.02 DRINKER CLASS DATA N=(133) PROBLEM PROBLEM 51 38.33 NON-PROBLEM 71 53.37 UNDEFINED 11 8.23 EST. PROB. DRINKERS 92 23.03 VIOLATIONS CN ADB N=(400) 1 8.33 1 DWI 285 71.23 18.23 2 DWI 73 18.23 30.73 3 DWI 29 7.23 4 DWI 10 2.53 5 + DWI 3 0.73 18.23 0.73 AVERAGE NO DWIS 1.43 0.73 1.423 0.53 1-2 NON A/R VIOLATIONS 97 24.223 3-4 0.537 7-8 4 1.03 0.537 4.033 0.537 2 ACCIDENTS 2 0.537 4.03 4.037 0.537				
20-29 9 9.28 30-39 3 0.07 40-49 0 0.07 50-UP 0 0.07 DRINKER CLASS DATA N=(133) PROBLEM NON-PROBLEM 11 53.38 UNDEFINED 11 8.22 EST. PROB. DRINKERS 92 23.03 VIOLATIONS CN ADB N=(400) 1 DWI 265 71.23 2 DWI 73 18.23 3 DWI 29 7.22 4 DWI 10 2.52 5+ DWI 3 0.73 AVERAGE NO DWIS 1.43 0.73 1-2 NON A/R VIDLATIONS 97 24.22 3-4 29 7.22 5-6 10 2.57 7-8 4 1.03 9 UP 2 0.57 AVERAGE NON A/R VIOL .83 1 ACCIDENTS 2 0.57 AVERAGE NON A/R VIOL .83 1 ACCIDENTS 2.0 3 ACCIDENTS 2.0 3 ACCIDENTS <td></td> <td></td> <td></td> <td>53.6%</td>				53.6%
30-39 3 3.0% 40-49 0 0.0% 50-UP 0 0.0% DRINKER CLASS DATA N=(133) PROBLEM PROBLEM 51 38.3% NON-PROBLEM 71 53.3% UNDEFINED 11 6.2% EST. PROB. DRINKERS 92 23.0% VIOLATIONS CN ADB N=(400) 1 1 DWI 285 71.2% 2 OWI 73 18.2% 2 OWI 73 18.2% 3 DWI 29 7.2% 3 DWI 29 7.2% 4 DWI 10 2.5% 5+ DWI 3 0.7% AVERAGE NO DWIS 1.43 0.7% 1-2 NON A/R VIOLATIONS 97 24.2% 5-6 10 2.5% 7-8 4 1.0% 0.5% 40 0.5% AVERAGE NON A/R VIOL .83 13.2% 2.400 0.5% 4VERAGE NON A/R VIOL .83		-		
40-49 0 0.07 DRINKER CLASS DATA N=(133) PROBLEM 51 38.37 NON-PROBLEM 71 53.37 NON-PROBLEM 71 53.37 UNDEFINED 11 8.27 EST. PROB. DRINKERS 92 23.07 VIOLATIENS EN ADB N=(400) 1 8.27 1 DWI 285 71.27 18.27 2 DWI 73 18.27 3 2 DWI 29 7.27 4 4 DWI 10 2.57 3 5+ DWI 3 0.77 4 AVERAGE NO DWIS 1.443 1.27 2.4.27 3-4 29 7.27 5-6 10 2.57 7-8 4 1.03 9.77 24.27 3.4 1-2 NON A/R VIDLATIONS 97 24.27 3.4 0.57 3 ACCIDENTS 1.03 0.57 4.03 0.57 4 CR MORE 1 0.25 1.03 0.57 4 CR MORE 1 0.27 0.57 <			-	
SO-UP O O.02 DRINKER CLASS DATA N=(133) PRCBLEM 51 38.33 NON-PROBLEM 51 38.33 NON-PROBLEM 71 53.37 NON-PROBLEM 71 53.37 NON-PROBLEM 71 53.37 NON-PROBLEM 71 53.37 NON-PROBLEM 71 53.37 NON-PROBLEM 71 53.37 18.23 23.03 VIOLATIONS CN ADB N=(400) 1 6.23 23.03 VIOLATIONS CN ADB N=(400) 1 8.23 3.07 J DWI 285 71.23 18.23 3.07 J DWI 29 7.23 3.073 18.23 J -2 NON A/R VIDLATIONS 97 24.23 3.4 J -2 NON A/R VIDLATIONS 97 24.23 3.4 J -2 NON A/R VIDLATIONS 97 24.23 3.4 J -2 NON A/R VIDLATIONS 97 24.23 3.53 J ACCIDENT 53 13.23 0.53 J ACCIDENT<				
DRINKER CLASS DATA N=(133) PRCBLEM 51 NON-PROBLEM 71 UNDEFINED 11 EST. PROB. DRINKERS 92 Z3.0% VIOLATIONS CN ADB N=(400) 1 DWI 285 2 DWI 73 3 DWI 29 7.2% 3 DWI 2 DWI 73 3 DWI 29 7.2% 3 DWI 3 DWI 29 7.2% 3 DWI 3 DWI 29 7.2% 3 COTS 4 DWI 10 2.5% 3 -4 2 NON A/R VIDLATIONS 97 24.2% 3-4 29 7-8 4 9 UP 2 AVERAGE NOD M/R VIOL 83 1 ACCIDENT 53 3 ACCIDENTS 26 4 CR MORE 10 AVER NO ACCIDENTS 24 CRIMINAL INVESTIGATION DATA N=(39) 1-2 MISDEMEANORS 15 3-4 MISDEMEANORS 1				
PRCBLEM 51 38.3% NON-PROBLEM 71 53.3% UNDEFINED 11 6.2% EST. PROB. DRINKERS 92 23.0% VIOLATIONS CN ADB N=(400) 1 8.2% 1 DWI 285 71.2% 20% 2 DWI 73 18.2% 3 3 DWI 29 7.2% 4 4 DWI 10 2.5% 5 5+ DWI 3 0.7% 3 AVERAGE ND DWIS 1.43 1 2.5% 7-8 4 1.0% 9 9 UP 2 0.5% 4.0% AVERAGE NON A/R VIOL .83 1 3.2% 2 ACCIDENTS 16 4.0% 3 3 ACCIDENTS 2 0.5% 4.0% AVER ND ACCIDENTS 2 0.5% 4.0% 2 ACCIDENTS 16 4.0% 3 1 ACCIDENT 53 13.2% 4.0% 2 ACCIDENTS 2 0.5% 4.0% 4.0% 3 ACCIDENTS 2				
PROBLEM 51 38.3% NON-PROBLEM 71 53.3% UNDEFINED 11 8.2% EST. PROB. DRINKERS 92 23.0% VIOLATIONS CN ADB N=(400) 1 8.2% 1 OWI 285 71.2% 23.0% 2 OWI 73 18.2% 3 3 DWI 29 7.2% 4 4 OWI 10 2.5% 5+ 5+ DWI 3 0.7% 24.2% 3-4 29 7.2% 5-6 10 2.5% 7-8 4 1.0% 9 UP 2 0.5% 4.0% 0.5% AVERAGE NON A/R VIOL .83 13.2% 2.6% 1 ACCIDENT 53 13.2% 4.0% 2 ACCIDENTS 16 4.0% 4.0% 3 ACCIDENTS 2 0.5% 4.0% 0.2% 4 VER NO ACCIDENTS 24.2% 0.5% 4.0% 3.4% 1 ACCIDENT 53 13.2% 4.0% 4.0% 3.2% 2 ACCIDENTS	DRINKER CLASS	DATA	N=(133)	
NON-PROBLEM 71 53.3% UNDEFINED 11 8.2% EST. PROB. DRINKERS 92 23.0% VIOLATIONS ON ADB N=(400) 1 0WI 285 71.2% 2 OWI 73 18.2% 3.0% 73 18.2% 2 OWI 73 18.2% 3.0% 73 18.2% 3 DWI 209 7.2% 7.2% 3.0.7% 4 DWI 10 2.5% 7+2% 7-2% 5+0WI 3 0.7% 724.2% 3-4 29 7.2% 7-2% 5-6 10 2.5% 7-8 9 UP 2 0.5% 4 AVERAGE NON A/R VIOL .83 1.0% 3 1 ACCIDENT 53 13.2% 2.5% 2 ACCIDENTS 16 4.0% 3 2 ACCIDENTS 2 0.5% 4 2 ACCIDENTS 2 0.5% 4 2 ACCIDENTS .24 0.				38.3%
EST. PROB. DRINKERS 92 23.0% VIOLATIENS EN ADB N=(400) 1 OWI 285 71.2% 2 OWI 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/R VIOLATIONS 97 24.2% 3-4 29 7.2% 5-6 10 2.5% 7-8 4 1.0% 9 UP 2 0.5% AVERAGE NON A/R VIOL .83 1 ACCIDENT 53 13.2% 2 ACCIDENTS 16 4.0% 3 ACCIDENTS 2 0.5% 4 CR MORE 1 0.2% AVER NO ACCIDENTS .24 CRIMINAL INVESTIGATION DATA N=(39) 1-2 MISDEMEANORS 15 38.4% 3-4 MISDEMEANORS 10 25.6% AVG NO. MISDEMEANORS 3.76 1-2 FELONIES 1 2.5% 3-4 FELONIES 1 2.5% 3-4 FELONIES 1 2.5% 3 AVG NO FELONIES .10				53.3%
VIOLATIONS CN ADB N=(400) 1 OWI 285 71.23 2 DWI 73 18.23 3 DWI 29 7.23 4 DWI 29 7.23 4 DWI 10 2.53 5+ DWI 3 0.73 AVERAGE NO DWIS 1.43 1-2 NON A/R VIOLATIONS 97 24.23 3-4 29 7.23 5-6 10 2.53 7-8 4 1.03 9 UP 2 0.53 AVERAGE NON A/R VIOL 83 1 ACCIDENT 53 13.23 2 ACCIDENTS 16 4.03 3 ACCIDENTS 2 0.53 4 CR MCRE 1 0.23 4 VER NO ACCIDENTS .24 CRIMINAL INVESTIGATION DATA N=(39) 1-2 MISDEMEANORS 15 38.43 3-4 MISDEMEANORS 10 25.63 AVER NO ACCIDENTS 3.76 1-2 FELONIES 1 2.53 3-4 FELONIES 1 2.53 3-4 FELONIES 1 2.53 3-4 FELONIES 1 2.53 3 AVEN 00 FELONIES .10				
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/R VIOLATIONS 97 24.2% 3-4 29 7.2% 5-6 10 2.5% 7-8 4 1.0% 9 UP 2 0.5% AVERAGE NON A/R VIOL .83 1 ACCIDENT 53 13.2% 2 ACCIDENTS 16 4.0% 3 ACCIDENTS 2 0.5% 4 CR MORE 1 0.2% 4 VER NO ACCIDENTS .24 CRIMINAL INVESTIGATION DATA N=(39) 1-2 MISDEMEANORS 15 3-4 MISDEMEANORS 10 25.6% AVG NO. MISDEMEANORS 10 25.6% 1 2.5% 5+ FELONIES 1 2.5% 5+ FELONIES 0 0.0% AVG NO FELONIES .10 0.0%			92	23.0%
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/R VIDLATIONS 97 24.2% 3-4 29 7.2% 5-6 10 2.5% 7-8 4 1.0% 9 UP 2 0.5% AVERAGE NON A/R VIDL 83 1 ACCIDENT 53 13.2% 2 ACCIDENTS 16 4.0% 3 ACCIDENTS 2 0.5% 4 CR MORE 1 0.2% AVER NO ACCIDENTS .24 CRIMINAL INVESTIGATION DATA N=(39) 1-2 MISDEMEANORS 15 38.4% 3-4 MISDEMEANORS 10 25.6% AVG NO. MISDEMEANORS 3.76 1-2 FELONIES 1 2.5% 5+ FELONIES 1 2.5% 5+ FELONIES 1 2.5% 5+ FELONIES 1 2.5% 1 ACCIDENTES 10 0.0% 1 AC	VIOLATIENS EN			
3 DWI 29 7.23 4 DWI 10 2.53 5+ DWI 3 0.73 AVERAGE NO DWIS 1.43 1-2 NON A/R VIOLATIONS 97 24.23 3-4 29 7.24 5-6 10 2.57 7-8 4 1.03 9 UP 2 0.57 AVERAGE NON A/R VIOL 83 1 ACCIDENT 53 13.27 2 ACCIDENTS 16 4.03 3 ACCIDENTS 2 0.57 4 VER AGE NON A/R VIOL 83 0.23 1 ACCIDENT 53 13.27 2 ACCIDENTS 2 0.57 AVERAGE NON A/R VIOL 83 0.23 1 ACCIDENT 53 13.27 2 ACCIDENTS 2 0.57 4 CR MORE 1 0.23 4 VER NO ACCIDENTS .24 CRIMINAL INVESTIGATION DATA N=(39) 1-2 MISDEMEANORS 10 25.67 AVE NO ACIDENTS 10 25.67 AVG NO. MISDEMEANORS 1				
4 DWI 10 2.5% 5+ DWI 3 0.7% AVERAGE NO DWIS 1.43 1-2 NON A/R VIOLATIONS 97 24.2% 3-4 29 7.2% 5-6 10 2.5% 7-8 4 1.0% 9 UP 2 0.5% AVERAGE NON A/R VIOL 83 1 ACCIDENT 53 13.2% 2 ACCIDENTS 16 4.0% 3 ACCIDENTS 2 0.5% 4 CR MCRE 1 0.2% AVER NO ACCIDENTS .24 CRIMINAL INVESTIGATION DATA N=(39) 1-2 MISDEMEANORS 15 38.4% 3-4 MISDEMEANORS 10 25.6% AVER NO ACCIDENTS 3.76 1-2 FELONIES 1 2.5% 5+ FELONIES 1 2.5% 5+ FELONIES 0 0.0%				
5+ DWI 3 0.7% AVERAGE NO DWIS 1.43 1-2 NON A/R VIOLATIONS 97 3-4 29 3-4 29 5-6 10 7-8 4 9 UP 2 AVERAGE NON A/R VIOL .83 1 ACCIDENT 53 2 ACCIDENTS 16 3 ACCIDENTS 2 3 ACCIDENTS 2 4 CR MORE 1 AVER NO ACCIDENTS .24 CRIMINAL INVESTIGATION DATA N=(39) 1-2 MISDEMEANORS 15 3-4 MISDEMEANORS 10 25.67 AVG NO. MISDEMEANORS AVG NO. MISDEMEANORS 3.76 1-2 FELONIES 1 2.53 3-4 FELONIES 1 2.53 5+ FELONIES 10 0.03 AVG NO FELONIES .10 0.03				
1-2 NON A/R VIOLATIONS 97 24.2% 3-4 29 7.2% 5-6 10 2.5% 7-8 4 1.0% 9 UP 2 0.5% AVERAGE NON A/R VIOL 83 1 ACCIDENT 53 13.2% 2 ACCIDENTS 16 4.0% 3 ACCIDENTS 2 0.5% 4 CR MORE 1 0.2% AVER NO ACCIDENTS .24 CRIMINAL INVESTIGATION DATA N=(39) 1-2 MISDEMEANORS 14 35.8% 3+4 MISDEMEANORS 10 25.6% AVG NO. MISDEMEANORS 3.76 2.5% 3-4 FELONIES 1 2.5% 3+4 FELONIES 1 2.5% 3+4 FELONIES 1 2.5% 3+4 FELONIES 10 2.5%				
3-4 29 7.2% 5-6 10 2.5% 7-8 4 1.0% 9 UP 2 0.5% AVERAGE NON A/R VIOL .83 1 ACCIDENT 53 13.2% 2 ACCIDENTS 16 4.0% 3 ACCIDENTS 2 0.5% 4 CR MORE 1 0.2% AVER NO ACCIDENTS .24 CRIMINAL INVESTIGATION DATA N=(39) 1-2 MISDEMEANORS 15 3-4 MISDEMEANORS 15 3-4 MISDEMEANORS 10 25.6% AVG NO. MISDEMEANORS 1-2 FELONIES 1 2.5% 3-4 FELONIES 1 2.5% 3-4 FELONIES 1 2.5% 3-4 FELONIES 1 2.5% 3-4 FELONIES 10 0.0%		AVERAGE NO DWIS	1.43	
5-6 10 2.5% 7-8 4 1.0% 9 UP 2 0.5% AVERAGE NON A/R VIOL .83 1 ACCIDENT 53 13.2% 2 ACCIDENTS 16 4.0% 3 ACCIDENTS 16 4.0% 3 ACCIDENTS 2 0.5% 4 CR MORE 1 0.2% AVER NO ACCIDENTS .24 CRIMINAL INVESTIGATION DATA N=(39) 1-2 MISDEMEANORS 15 3-4 MISDEMEANORS 10 25.6% AVG NO. MISDEMEANORS AVG NO. MISDEMEANORS 3.76 1-2 FELONIES 1 2.5% 3-4 FELONIES 1 2.5% 3+4 FELONIES 1 2.5% 3+4 FELONIES 1 2.5% 3+4 FELONIES 10 0.0%			INS 97	24.28
7-8 4 1.0% 9 UP 2 0.5% AVERAGE NON A/R VIOL .83 1 ACCIDENT 53 13.2% 2 ACCIDENTS 16 4.0% 3 ACCIDENTS 2 0.5% 4 CR MORE 1 0.2% 4 VER NO ACCIDENTS .24 CRIMINAL INVESTIGATION DATA N=(39) 1-2 MISDEMEANORS 15 3-4 MISDEMEANORS 14 3-5 MISDEMEANORS 10 25.6% AVG NO. MISDEMEANORS 4 FELONIES 1 2.5% 2.5% 3-4 FELONIES 1 2.5% 0.0% AVG NO FELONIES .10				
9 UP 2 0.5% AVERAGE NON A/R VIOL .83 1 ACCIDENT 53 13.2% 2 ACCIDENTS 16 4.0% 3 ACCIDENTS 2 0.5% 4 CR MORE 1 0.2% AVER NO ACCIDENTS .24 CRIMINAL INVESTIGATION DATA N=(39) 1-2 MISDEMEANORS 15 3-4 MISDEMEANORS 14 35-8% 5+ MISDEMEANORS 5+ MISDEMEANORS 10 25:6% 2.5% AVG NO. MISDEMEANORS 3.76 1-2 FELONIES 1 2.5% 3-4 FELONIES 1 2.5% 3-4 FELONIES 1 2.5% 3-4 FELONIES 10 0.0%				
AVERAGE NON A/R VIOL .83 1 ACCIDENT 53 13.2% 2 ACCIDENTS 16 4.0% 3 ACCIDENTS 2 0.5% 4 CR MORE 1 0.2% AVER NO ACCIDENTS .24 CRIMINAL INVESTIGATION DATA N=(39) 1-2 MISDEMEANORS 15 38.4% 3-4 MISDEMEANORS 14 35.8% 5+ MISDEMEANORS 10 25.6% AVG NO. MISDEMEANORS 3.76 1-2 FELONIES 1 2.5% 3-4 FELONIES 1 2.5% 5+ FELONIES 0 0.0%				
2 ACCIDENTS 16 4.0% 3 ACCIDENTS 2 0.5% 4 OR MORE 1 0.2% AVER NO ACCIDENTS .24 CRIMINAL INVESTIGATION DATA N=(39) 1-2 MISDEMEANORS 15 38.4% 3-4 MISDEMEANORS 14 35.8% 5+ MISDEMEANORS 10 25.6% AVG NO. MISDEMEANORS 3.76 1-2 FELONIES 1 2.5% 3-4 FELONIES 1 2.5% 5+ FELONIES 0 0.0% AVG NO FELONIES .10				U • 7 4
2 ACCIDENTS 16 4.0% 3 ACCIDENTS 2 0.5% 4 OR MORE 1 0.2% AVER NO ACCIDENTS .24 CRIMINAL INVESTIGATION DATA N=(39) 1-2 MISDEMEANORS 15 38.4% 3-4 MISDEMEANORS 14 35.8% 5+ MISDEMEANORS 10 25.6% AVG NO. MISDEMEANORS 3.76 1-2 FELONIES 1 2.5% 3-4 FELONIES 1 2.5% 5+ FELONIES 0 0.0% AVG NO FELONIES .10			50	
3 ACCIDENTS 2 0.5% 4 CR MORE 1 0.2% AVER NO ACCIDENTS .24 CRIMINAL INVESTIGATION DATA N=(39) 1-2 MISDEMEANORS 15 38.4% 3-4 MISDEMEANORS 14 35.8% 5+ MISDEMEANORS 10 25.6% AVG NO. MISDEMEANORS 3.76 1-2 FELONIES 1 2.5% 3-4 FELONIES 1 2.5% 5+ FELONIES 0 0.0% AVG NO FELONIES .10			-	
4 CR MCRE10.2%AVER NO ACCIDENTS.24CRIMINAL INVESTIGATION DATAN=(39)1-2 MISDEMEANORS153-4 MISDEMEANORS143-4 MISDEMEANORS1025.6%AVG NO. MISDEMEANORS3.761-2 FELONIES12.5%3-4 FELONIES3-4 FELONIES12.5%00.0%AVG NO FELONIES.10				
CRIMINAL INVESTIGATION DATA N=(39) 1-2 MISDEMEANORS 15 38.43 3-4 MISDEMEANORS 14 35.83 5+ MISDEMEANORS 10 25.67 AVG NO. MISDEMEANORS 3.76 1-2 FELONIES 1 2.53 3-4 FELONIES 1 2.53 5+ FELONIES 0 0.03 AVG NO FELONIES .10		4 OR MORE		
1-2 MISDEMEANORS 15 38.4% 3-4 MISDEMEANORS 14 35.8% 5+ MISDEMEANORS 10 25.6% AVG NO. MISDEMEANORS 3.76 1-2 FELONIES 1 2.5% 3-4 FELONIES 1 2.5% 5+ FELONIES 0 0.0% AVG NO FELONIES .10		AVER NO ACCIDENTS	.24	
3-4 MISDEMEANORS 14 35.8% 5+ MISDEMEANORS 10 25.6% AVG NO. MISDEMEANORS 3.76 1-2 FELONIES 1 2.5% 3-4 FELONIES 1 2.5% 5+ FELONIES 0 0.0% AVG NO FELONIES .10	CRIMINAL INVES	TIGATION DATA	N=(39)	
5+ MISDEMEANORS 10 25.6% AVG NO. MISDEMEANORS 3.76 1-2 FELONIES 1 2.5% 3-4 FELONIES 1 2.5% 5+ FELONIES 0 0.0% AVG NO FELONIES .10 0				
AVGNO.MISDEMEANORS3.761-2FELONIES12.5%3-4FELONIES12.5%5+FELONIES00.0%AVGNOFELONIES.10				
1-2 FELONIES 1 2.5% 3-4 FELONIES 1 2.5% 5+ FELONIES 0 0.0% AVG NO FELONIES .10			3.76	22.04
3-4 FELONIES 1 2.5% 5+ FELONIES 0 0.0% AVG NO FELONIES .10		1-2 FELONIES		2.5%
AVG NO FELONIES .10				2.5%
				0.0%
		L-2 A/R MISDEMEANORS		51 7 49
3-4 A/R MISDEMEANORS 20 51.2% 3-4 A/R MISDEMEANORS 4 10.2%				
5+ A/R MISCEMEANORS 1 2.5%	-	5+ A/R MISDEMEANORS	1	
AVG NO A/R MISDEMEANORS 1.25	4	AVG NO AZR MISDEMEAN	DRS 1.25	_ · - ·
1-2 A/R FELONIES 0 0.0%				
3-4 A/R FELONIES 0 0.0% 5+ A/R FELONIES 0 0.0%				
AVG ND AVR FELONIES 0 0.0%	م	VG NO A/R FELONIES	.00	0.04

EXHIBIT 4.0-6	(Continued)	
AVG DAYS TO TYPE 1 RECID		
1	73	442 DAYS
2	58	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	52	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

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EXHIBIT 4.0-7 IDAHO ALCOHOL SAFETY ACTION PROJECT PROFILE ANALYSIS

AEP DWIS 1973

	SAMPLE SIZE :	400	·
SEX	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 0 0	92.3% 0.0% 3.8% 3.8% 0.0% 0.0% 0.0%
EMPLOYMENT	STATUS FULL-TIME PART-TIME NOT EMPLOYED HOUSEWIFE STUDENTS RETIRED	N=(159) 130 5 18 1 2 3	81.73 3.13 11.33 0.67 1.23 1.83
OCCUPATION	TYPE UNEMPLOYED PROF / TECH CLERICAL / SALES SERVICES AGRICULTURE PROCESSING MACHINE TRADES FABRICATION / REPAIR STRUCTURAL OTHER	N= (156) 13 12 15 23 11 16 6 R 12 12 36	8.37 7.67 9.67 14.77 7.07 10.27 3.37 7.67 7.67 23.07

YEARS IN IDAH	EXHIBIT 4.0-7 (•	
TEARS IN IDAN	AVERAGE YEARS IN 1		97) 25.3 3	3.0%
	2		0	0.0% 6.1%
	4 5		2 1	2.0%
	6-10 11-15		8 5	8.2% 5.1%
	16-20 21 AND OVER		11 61	11.3% 62.8%
REHABILITATIO		N= (400)	
	ATTENDED DEF. DRI ATTENDED DICP		29 31	7.2% 7.7%
	ATTENDED COURT-SO		63	15.7%
COURT ALCOHOL	SCHOOL DATA NEGATIVE IMPROVEN		63) 2	3.1%
	ZERO IMPROVEMENT IMPROVEMENT 1-4		0 18	0.0%
	5-9		27	28.5% 42.8%
	10-14 15-19		8 4	12.6% 6.3%
	20-UP		4	6.3%
MARITAL STATU		N= (160)	
	MARRIED SINGLE		80 36	50.0% 22.5%
	DIVORCED WIDOWED		32 4	20.0% 2.5%
	SEPERATED		7	4.38
	CTHER		ļ	0.6%
DEPENDENTS	0	N= (110) 31	23.1%
	1		22	20.0%
	2 3		21 13	19.0% 11.8%
	4 5		. 9 4	8.1% 3.6%
	6 7		4	3.6%
	8		2 1	1.8% 0.9%
	9 10		2 1	1.8% 0.9%
	11+		Ō	0.0%
RELIGION		N= (105)	
·	PROTESTANT CATHOLIC		33 16	31.4% 15.2%
	JEWISH Mormon		0 21	0.0%
	CTHER		35	33.3%

EXHIBIT 4.0-7 YEARS MARRIED AVERAGE 1 2 3 4 5-10 11-15 16-20 20+	(Continued) N=(65) 12.8 3 5 5 5 15 10 7 15	4.6% 7.6% 7.6% 23.0% 15.3% 10.7% 23.0%
EDUCATION AVERAGE YEARS 1-6 7-9 10 11 12 13 14 15 16 17 AND UP	N=(157) 10.9 6 37 12 14 58 9 11 5 4 1	7.08 23.58 7.68 8.98 36.98 5.78 7.08 3.18 2.58 0.68
INCOME LESS THAN \$4000 4000-5999 6000-7999 8000-9999 10000-11999 12000-13999 14000-15999 16000-17999 18000-19999 20000-UP	N= (155) 30 20 42 29 20 8 3 0 2 1	19.38 12.98 27.08 18.78 12.98 5.18 1.98 0.08 1.28 0.68
BAC DATA AVERAGE BAC AVERAGE POSITIVE BAC NEGATIVE .0104 .0509 .1014 .1519 .2024 .25 +	N= (261) . 161% . 163% 4 2 27 73 89 42 24	1.5% 0.7% 10.3% 27.9% 34.0% 16.0% 9.1%
REFUSED TEST ONCE TWICE 3 GR MORE	N= (400) 20 0 0	5.0% 0.0% 0.0%

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	EXHIBIT 4.0-7 (Cor	itinue	d)	
DIAGNOSTIC TE	ST SCORES	N= (76)	
	AVERAGE AL CADD		13.8	
	1-11 12-19		37	48.6%
	20-29		23 10	30.2% 13.1%
	30-39		3	3.9%
`	40-49		3	3.9%
	50-U P		0	0.08
				•
DRINKER CLASS	ΠΛΤΛ	N= (1621	
	PROBLEM	- N - N	153) 64	41.8%
	NON-PROBLEM		74	48.3%
	UNDEFINED		15	9.88
	EST. PROB. DRINKERS	S	82	20.5%
VIOLATIONS ON			(00)	
VIOLATIUNS UN	1 DWI	N= (400) 302	75 59
	2 DWI		60	75.5% 15.0%
	3 DWI		25	6.2%
	4 DWI		11	2.7%
	5+ DWI		2	0.5%
	AVERAGE NO DWIS		1.38	
	1-2 NON A/R VIOLATI	ONC	05	~~ 70
	3-4	UNS	95 28	23.7%
	5-6		9	7.0% 2.2%
	7-8		3	0.7%
	9 UP		õ	0.0%
	AVERAGE NON A/R VIC	L	•71	
	1 ACCIDENT			
	2 ACCIDENTS		55	13.7%
	3 ACCIDENTS		12	3.0% 0.0%
	4 OR MORE		4	1.0%
	AVER NO ACCIDENTS		•24	1.04
	TICATION DATA	•. •	(
CUTHINGE INVES	TIGATION DATA 1-2 MISDEMEANORS	N= (E/ /9
	3-4 MISDEMEANORS		37 11	54.4% 16.1%
	5+ MISDEMEANORS		20	29.48
	AVG NO. MISDEMEANOR	S		
	1-2 FELONIES	• ·	5	7.3%
	3-4 FELONIES		0	0.0%
	5+ FELONIES		1	1.4%
	AVG NO FELONIES		•19	•
	1-2 A/R MISDEMEANOR	-	32	47.0%
	3-4 A/R MISDEMEANOR		8	11.7%
	5+ A/R MISDEMEANORS		2	2.9%
	AVG NO A/R MISDEMEA 1-2 A/R FELONIES	MOK2	4	5.8%
	3-4 A/R FELONIES		4	5.8× 0.0%
	5+ A/R FELONIES		0	0.0%
	AVG ND A/R FELONIES		.07	
			=	

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AVG DAYS TO TYPE 1 RECID	(Continued)		
1	60	515	DAYS
2	50		DAYS
3	33	116	
4			DAYS
5	4		DAYS
	5	61	DAYS
AVG DAYS TO TYPE 2 RECID			
1	54	515	DAYS
<u>,</u> 2			DAYS
3			DAYS
4	20		DAYS
5	5		
		OT.	DAYS
AVG DAYS TO TYPE 3 RECID			
1	54	515	DAYS
2		158	DAYS
3			DAYS
4	20	49	DAYS
5	5		DAYS
,		OT	UAIS

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EXHIBIT 4.0-8 IDAHO ALCOHOL SAFETY ACTION PROJECT PROFILE ANALYSIS

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REG DWIS 1974

	SAMPLE SIZE :	400	
SEX			
CL X	MALES	N=(339)	
	FEMALES	304	89.6%
		35	10.3%
HEIGHT		N=(339)	
	AVERAGE HEIGHT	69.2	
WEIGHT			
	AVERAGE WEIGHT	N=(339)	
	A ERAGE WEIGHT	161.2	
AGE		N=(352)	
	AVERAGE AGE	35.3	
	AGE 19 DR LESS	42	11.9%
	AGE 20 - 24	67	19.0%
	AGE 25 - 29 AGE 30 - 34	55	15.67
	AGE 30 - 34 AGE 35 - 39	27	7.6%
	AGE 40 - 44	26 31	7.3%
	AGE 45 - 49	31	5.8%
	AGE 50 - 59	53	8.8% 15.0%
	AGE 60 AND OVER	20	5.6%
RACE			
NAVE	WHITE	N=(205)	
	BLACK	185	90.2%
•	AMERICAN INDIAN	0	0.0%
	MEXICAN	11 6	5.3%
	ORIENTAL	2	2.9% 0.9%
	LATIN	Ō	0.0%
	OTHER RACES	1	0.4%
EMPLOYMENT	2117 & T2		
	FULL-TIME	N=(203) 138	(
<i>c</i>	PART-TIME	10	67.9%
	NOT EMPLOYED	34	4.9% 16.7%
	HOUSEWIFE	2	0.9%
	STUDENTS	10	4.9%
	RETIRED	9	4.43
OCCUPATION	TYPE	N=(202)	
	UNEMPLOYED	N=(202) 31	15
	PROF / TECH	20	15.3% 9.9%
	CLERICAL / SALES	10	
	SERVICES	21	10.3%
	AGRICULTURE	11	5.4%
	PROCESSING	17	8.4%
	MACHINE TRADES	4	1.9%
	FABRICATION / REPAIR STRUCTURAL	• •	4.9%
	OTHER	9	4.4%
		69	34.1%

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	EXHIBIT 4.0-8 (Con	tinued)	
YEARS IN IÙAH	D AVERAGE YEARS IN IO 1 2 3 4 5 6-10 11-15 16-20 21 AND OVER		181) 22.3 14 11 3 4 3 13 7 35 91	7.7% 6.0% 1.6% 2.2% 1.6% 7.1% 3.8% 19.3% 50.2%
REHABILITATIO	N DATA ATTENDED DEF. DRIVI ATTENDED DICP ATTENDED COURT-SCHO		400) 35 36 74	9.7% 9.0% 18.5%
COURT ALCOHOL	SCHOOL DATA NEGATIVE IMPROVEMEN ZERO IMPROVEMENT IMPROVEMENT 1-4 5-9 10-14 15-19 20-UP	N ≐ (T	74) 2 0 33 29 6 2 2	2.7% 0.0% 44.5% 39.1% 8.1% 2.7% 2.7%
MARITAL STATU	MARRIED SINGLE DIVORCED WIDDWED SEPERATED OTHER	N= (208) 97 58 40 3 10 0	46.6% 27.8% 19.2% 1.4% 4.8% 0.0%
DEPENDENTS	0 1 2 3 4 5 6 7 8 9 10 11+	N= (196) 62 45 30 20 25 9 3 1 1 1 0 0	31.6% 22.9% 15.3% 10.2% 12.7% 4.5% 1.5% 0.5% 0.5% 0.0% 0.0% 0.0%
RELIGION	PROTESTANT CATHOLIC JEWISH MORMON GTHER	N= (183) 69 39 0 32 43	37.7% 21.3% 0.0% 17.4% 23.4%

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YEARS MARRIED	EXHIBIT 4.0-8	(Continued)	
TEANS MARKIED		N = (100)	
	AVERAGE	14.0	
	1	13	13.0*
	3	· 5 2	8.0%
	4	· 5	5.0%
	5-10		2.0%
	11-15	23	23.0%
	16-20	11	11.0%
	20+	6 32	6.0% 32.0%
EDUCATION			
	AVERAGE YEARS	N=(204)	
	1-6	11.3	
	7-9	3	5.68
	10	39	19.1%
	11	24	11.7%
	12	19 77	9.3%
	13	11	37.7% 5.3%
	14	13	5.3% 6.3%
	15	7	3.4%
	16	9	
:	17 AND UP	2	0.9%
INCOME		N=(193)	
t	LESS THAN \$4000	58	30.0%
	4000-5999	36	18.6%
	6000-7999	35	18.1%
	8000-9999	27	13.9%
	10000-11999	12	6.2%
	12000-13999	9	4.68
	14000-15999	3	1.5%
	16000-17999	1	0.5%
	18000-19999	5 7	2.5%
	20000-UP	7	3.6%
BAC DATA		N=(276)	
AVERAGE BAC		.152%	
AVERAGE POSITIV		• 156%	
	IEGATIVE	7	2.5%
	0104	7	2.5%
	0509	20	7.2%
	1014	93	33.6%
	1519	89	32.2%
	20 - •24 25 +	40 20	14.4% 7.2%
	_		1.25
REFUSED TEST	NCE	N=(400)	r
	WICE	21	5.2%
	OR MORE	0	0.0%
-	·	5	

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	EXHIBIT 4.0-8 (C	ontinued)	
DIAGNOSTIC TE		N= (150)	
	AVERAGE ALCADD	11.6	
	1-11	90	60.0%
	12-19	38	25.3%
	20-29	15	10.0%
	30-39	5	3.3%
•	40-49	2	1.3%
	50 - U P	0	0.0%
DRINKER CLASS			
UNITALLY CERUS	PROBLEM	N=(194) 77	39.6%
	NON-PROBLEM	102	52.5%
	UNDEFINED	15	7.7%
	EST. PROB. DRINKE		27.0%
VIOLATIONS ON		N= (400)	
	1 DWI	287	71.78
. · · ·	2 DWI	77	19.2%
	3 DWI	29	7.2%
	4 DWI	.3	0.7%
	5+ DWI AVERAGE NO DWIS	4	1.0%
	WACKAGE NO 1M12	1.41	
	1-2 NON A/R VIOLAT	FICHS 125	31.23
	3-4	41	10.2%
	5-6	13	3.2%
	7-8	9	2.2%
	9 UP	1	0.2%
	AVERAGE NON A/R VI	IOL 1.11	
	1 ACCIDENT	62	15.5%
	2 ACCIDENTS 3 ACCIDENTS	21	5.2%
	4 CR MORE	6 1	1.5%
	AVER NO ACCIDENTS		0.2%
		e J L	
CRIMINAL INVES	TIGATION DATA	N=(45)	
	1-2 MISDEMEANORS	26	57.7%
	3-4 MISDEMEANORS	7	15.5%
	5+ MISDEMEANORS	12	26.6%
	AVG NO. MISDEMEAND		
	1-2 FELONIES 3-4 FELONIES	1	2.2%
	5+ FELONIES	0	0.0%
	AVG NO FELONIES	0 • 02 -	0.0%
	1-2 A/R MISDEMEANO	•02 - IRS 23	51.1%
	3-4 A/R MISDEMEAND		8.8%
	5+ A/R MISDEMEANOR		2.2%
	AVG NO A/R MISDEME		
	1-2 A/R FELONIES	1	2.2%
·	3-4 A/R FELONIES	0	0.0%
	5+ AZR FELONITS		··· · • •
	AV STATE PRODUCE VIE		

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WG DAYS TO TYPE EXHIBIT 4.0-8	(Continued)	
1 2	77	422 PAYS
3	58 9	179 DAYS 81 DAYS
4 · 5	4 18	81 DAYS 57 DAYS
AVG DAYS TO TYPE 2 RECID		
1 2	72 62	448 DAYS
3	. 18	204 DAYS • 80 DAYS
AVG DAYS TO TYPE 3 RECID		
1 2	72 62	448 DAYS 204 DAYS
3	13	80 DAYS

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EXHIBIT 4.0-9 IDAHO ALCOHOL SAFETY ACTION PROJECT PROFILE ANALYSIS

REG DWIS 1973

	SAMPLE SIZE :	400	
SE X	MALES FEMALES	N=(283) 249 34	87.9% 12.0%
HEIGHT	AVERAGE HEIGHT	N=(256) 68.9	
WEIGHT	AVERAGE WEIGHT	N=(255) 162.9	
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= (350) 36.6 23 53 61 38 42 30 32 52 19	6.5% 15.1% 17.4% 10.3% 12.0% 8.5% 9.1% 14.8% 5.4%
RACE	WHITE BLACK AMERICAN INDIAN MEXICAN ORIENTAL LATIN OTHER RACES	N=(131) 112 2 7 8 0 1 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 26 1 2 2	70.3% 6.6% 19.2% 0.7% 1.4% 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	15.0% 8.2% 5.2% 11.2% 12.7% 11.2% 4.5% 3.0% 9.0% 19.5%

	EXHIBIT 4	.0-9 (Conti	nued)		
YEARS IN IDA				3)	
	AVERAGE YE	ARS IN IDA	20.8		
	1				9.4:
	۲ ۲		i	L	1.3%
	3 4		ŧ		11.3%
	4 5		4		7 - 5%
	6-10		C		0.02
	11-15		4		7.5*
	16-20		. 0		0.0% 9.4%
	21 AND OVER	ł	28		52.8%
			20		26004
REHABILITATIO		٢	N=(400	•)	
	ATTENDED DE	F. DRIVING			6.78
	ATTENDED DI		36		9.0%
	ATTENDED CO	URI-SCHUOL	. 64		16.0%
COURT ALCOHOL	SCHOOL DATA	N	={ 64	,	
	NEGATIVE IM	PROVEMENT	.1		
	ZERO IMPROV	EMENT	. 0		1.5* 0.0%
	IMPROVEMENT		17		26.5%
		5-9	31		48.4%
,		0-14	10		15.6%
		5-19	1		1.5%
	20	0 - UP	4		6.2%
MARITAL STATUS	,		_1 1051		
	-	IN I	= (135) 72	1	
	SINGLE		30		53.3%
	DIVORCED		23		22.2% 17.0%
	WIDOWED		4		2.9%
	SEPERATED		5		3.7%
	OTHER		. 1		0.7%
DEPENDENTS			•		
DEFENDENTS	0	N=	=(64)		
	0		23		35.9%
	1 2 3 4		12 7		18.7%
	3		8		10.9%
			5 7		12.5% 10.9%
	5		1		1.5%
	6		1		1.5%
`	7		4		6.2%
	8 9		0		0.0%
	10		1		1.5%
	11+		. 0		0.0%
			0		0.0%
RELIGION		N=	(60)		
	PROTESTANT		22		36.6%
	CATHOLIC		12		20.0%
	JEWISH		0		0.0%
	MORMON		12		20.0%
L	DTHER		14		23.3%

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YEARS MARRIE	EXHIBIT 4.0-9 D AVERAGE 1 2 3 4 5-10 11-15 16-20 20+	(Continued) N={ 31) 12.2 2 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 6 0	5.48 25.37 5.28 9.78 34.38 5.98 5.98 3.78 4.48 0.07
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 3	29.5% 14.3% 18.9% 15.9% 12.8% 3.0% 1.5% 1.5% 0.0% 2.2%
BAC DATA AVERAGE BAC AVERAGE POSIT	IVE BAC NEGATIVE •01 - •04 •05 - •09 •10 - •14 •15 - •19 •20 - •24 •25 +	N= (205) • 160% • 163% 4 2 18 60 67 37 17	1.9% 0.9% 8.7% 29.2% 32.6% 18.0% 8.2%
REFUSED TEST	ONCE TWICE 3 GR MORE	N= (400) 18 0 0	4 • 5 % 0 • 0 % 0 • 0 %

e en anna an anna an anna an anna an anna an an	e	• -
EXHIBIT 4.0-9 (Continued	1	
DIAGNOSTIC TEST SCORES N=(•	
AVERAGE AL CADD	52) 13.7	
1-11	26	5 0 0 -
12-19	28	50.07
20-29	9	26.98
30-39	2	17.3% 3.8%
40-49	1	2.8% 1.9%
50-UP	ō	0.0%
· · · · · · · · · · · · · · · · · · ·	-	0.00
DRINKER CLASS DATA	·	
PROBLEM N= (111)	
NON-PROBLEM	. 38	34.2%
UNDEFINED	62	55.8%
EST. PROB. DRINKERS	11	9.98
	72	18.0%
VIOLATIONS ON ADB N= (400)	
1 DWI	309	77 79
2 DWI	65	77.2% 16.2%
3 DWI	17	4.2%
4 DWI	8	2.0%
5+ DWI	1 .	0.2%
AVERAGE NO DWIS	1.32	
1-2 NON A/R VIOLATIONS		
3-4	111	27.7%
5-6	17	4.2%
7-8	3	0.72
9 UP	3 0	0.7%
AVERAGE NON A/R VIOL	•60	0.0%
	• 00	
1 ACCIDENT	75	18.7%
2 ACCIDENTS	14	3.5%
3 ACCIDENTS	1	0.2%
4 OR MORE	1	0.2%
AVER NO ACCIDENTS	•27	0.24
CRIMINAL INVESTIGATION DATA N= (
CRIMINAL INVESTIGATION DATA N= (
1-2 MISDEMEANDRS 3-4 MISDEMEANDRS		40.8%
5+ MISDEMEANORS	15	21.1%
	27	38.0%
1-2 FELONIES	• 32	
3-4 FELONIES	1	1.4%
5+ FELONIES	1	1.4%
	•12	1.4%
1-2 A/R MISDEMEANORS	24	22.05
3-4 A/R MISDEMEANORS	7	33.8%
5+ A/R MISDEMEANORS	5	9.8%
AVG NO A/R MISDEMEANORS 2	• 36	7.0%
1-2 A/R FELONIES	0	0.0%
3-4 A/R FELONIES	0	0.0%
5+ A/R FELONIES	0	0.0%
AVG NO A/R FELONIES	.00	

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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 TO TYPE	3 RECID		
1		58	453 DAYS
2		42	229 DAYS
3		. 33	105 DAYS

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Exhibit 4.0-10

IDAHO ALCOHOL SAFETY ACTION PROJECT PROFILE ANALYSIS

AEP DWIS 1975

	SAMPLE SIZE :	400	
SEX			
31. A	MALES	N=(264)	
	FEMALES	233	88.2%
		31	11.72
HEIGHT		N=(258)	•
	AVERAGE HEIGHT	69.0	
WEIGHT		N=(258)	
	AVERAGE WEIGHT	162.8	
AGE		N=(292)	
	AVERAGE AGE	35.8	
	AGE 19 OR LESS	26	8.97
	AGE 20 - 24	51	17.4%
	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	9.27
	AGE 60 AND OVER	23	7.8%
RACE		N=(150)	
	WHITE	136	90.6%
	BLACK	1	0.6%
	AMEPICAN INDIAN	5	3.3%
	MEXICAN	6	4.0%
	ORIENTAL	0	0.0%
	LATIN	0	0.0%
	OTHEP RACES	2	1.39
EMPLOYMENT	STATUS	N=(150)	-
	FULL-TIME	113	75.3%
	PART-TIME	8	5.39
	NOT EMPLOYED	15	10.0%
	HOUSEWIFE	5	3.37
	STUDENTS	2	1.3%
	RETIRED	7	4.67
000000			
OCCUPATION		N=(146)	
	UNEMPLOYED	17	11.67
	PROF / TECH	13	8.9 2
	CLERICAL / SALES	8	5.4%
	SERVICES	14	9.57
	AGRICULTURE	. 5	3.4%
	PROCESSING	15	10.27
	MACHINE TRADES	5	3.4%
	. FABRICATION / REPAIR STRUCTURAL		6.8%
	OT HE R	10	6.87
	sact € Dage TS	49	33.5%

Exhibit 4.0-10 (Continued)

	The second s	(concentration)	
YEARS IN IDAH	10	N=(121)	
	AVERAGE YEARS IN IDA		
	1	7	5.7%
	2	. 4	3.38
	2 3	3	2.4%
	. 4	4	3.3%
	5	4	
	6-10	12	3.3%
	11-15	13	9.9%
	16-20	10	10.72
	21 AND OVER	64	8.27
		04	52.8%
REHABILITATIO	N DATA N	=(400)	
	ATTENDED DEF. DRIVING		7.0%
	ATTENDED DICP	48	12.07
	ATTENDED COURT-SCHOOL	92	23.0%
		· · · · · ·	23.04
COURT ALCOHOL	SCHOOL DATA N	=(92)	
	NEGATIVE IMPROVEMENT	1	1.07
	ZERO IMPROVEMENT	0	0.0%
	IMPROVEMENT 1-4	32	34.7%
	5-9	43	46.79
	10-14	12	13.09
	15-19	1	1.02
	20-110	3	3.2%
,		2	J • Z ≉
MARITAL STATUS	5 N	=(151)	
	MARRIED	81	53.6%
	SINGLE	29	19.2%
	DIVORCED	30	19.8%
	WIDOWED	3	1.92
	SEPERATED	8	5.2%
	OTHER	ŏ	0.0%
		U	0.04
DEPENDENTS	N	=(136)	
	0	40	29.4%
	1	21	15.4%
	2 3	25	18.3%
	3	16	11.7%
	4	22	16.12
	5	7	5.1%
	6	2	1.47
	7	1	0.7%
	8	1	0.7%
	9	0	0.0%
	10	1	0.7%
	11+	0	0.0%
95110101			
RELIGION		=(126)	•
	PROTESTANT	56	44.4%
	CATHOLIC	27	21.4%
	JEWISH	0	0.0%
	MORMON	22	17.4%
	OTHER	21	16.67

	Exhibit	4.0-10 (Con	tinued)	
	YEARS MARRIED			
	AVERAGE	N= (
	1		13.9	
	2		4	5.1?
	3		5	6.49
	4		3	6.49
	5-10		18	3.87
	11-15		14	23.0%
•	16-20		9	17.9%
-	20+		20	11.5% 25.6%
			20	とう●です
•	EFUCATION	N= (148)	
	AVERAGE YEARS		11.1	
	1-6		5	7.89
	7-9		27	18.29
	10		11	7.49
	11		18	12.1%
	12		62	41.82
	13		9	6.0%
	14		10	6.7%
	15		1	0.67
	17 AND 110		4	2.79
			1	0.6%
	INCOME	N= (141)	
	LESS THAN \$400		40	28.3%
	4000-599	9	23	16.3%
	6000-799	Ģ	25	17.7%
	800 0-999	9	23	16.37
	10000-1199		11	7.89
	12000-1399		3	2.17
	14000-1599		8	5.6%
	16000-1799		0	0.07
	18000-1999	9	2	1.49
	20000-UP		6	4.2%
	BAC DATA	NI- (2921	
	AVERAGE BAC	(1 -1	•142%	
	AVERAGE POSITIVE BAC		• 1442	
	NEGATIVE		3	1.0%
	.0104		10	3.4%
	.0509		36	12.3%
	•10 - •14		97	33.2%
	•15 - •19		99	33.99
	•20 - •24		39	13.32
	•25 +		8	2.72
	REFUSED TEST	· · ·		
	ONCE	N= (400)	
	TWICE		19	4.72
	3 DR MORE		1	0.2%
			0	0.0%

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Exhibit 4.0-10 (Continued)

DIAGNOSTIC TE	ST SCORES N= AVERAGE ALCADD 1-11 12-19 20-29 30-39 40-49 50-UP	(96) 11.2 55 31 8 2 0 0	57.2% 32.2% 8.3% 2.0% 0.0% 0.0%
DRINKER CLASS	DATA N= PROBLEM NON-PPOBLEM UNDEFINED EST. PROB. DRINKERS	(142) 55 75 12 93	38。79 52。99 8。49 23。29
VICLATIONS ON	ADB N= 1 DWI 2 DWI 3 DWI 4 DWI 5+ DWI AVERAGE NO DWIS	(400) 286 75 28 8 3 1.41	71.57 18.77 7.07 2.07 0.7%
	1-2 NON A/R VIOLATIONS 3-4 5-5 7-8 9 UP AVERAGE NON A/R VIOL	104 34 7 4 2 .85	26.0% 8.5% 1.7% 1.0% 0.5%
	1 ACCIDENT 2 ACCIDENTS 3 ACCIDENTS 4 OR MORE AVER NO ACCIDENTS TIGATION DATA N=	48 14 3 1 .22	12.0% 3.5% 0.7% 0.2%
	ITIGATION DATA N= 1-2 MISDEMEANORS 3-4 MISDEMEANORS 5+ MISDEMEANORS AVG ND. MISDEMEANORS 1-2 FELONIES 3-4 FELONIES	(38) 17 12 9 3.42 1 1 0	44.7% 31.5% 23.6% 2.6% 2.6% 0.0%
	AVG NO FELONIES 1-2 A/R MISDEMEANORS 3-4 A/R MISDEMEANORS 5+ A/R MISDEMEANORS AVG NO A/R MISDEMEANORS 1-2 A/R FELONIES 3-4 A/R FELONIES 5+ A/R FELONIES AVG NO A/R FELONIES	•10 1° 4 1 5 1.23 0 0 0 0 0 0 0	50.0% 10.5% 2.6% 0.0% 0.0%

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Exhibit	4.0-10 ((Continued)
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AVG DAYS TO TYPE 1 RECTO		
1	75	436 DAYS
2	56	233 DAYS
3	24	119 DAYS
4	12	96 DAYS
AVG DAYS TO TYPE 2 RECID		
1	71	460 DAYS
2	48	224 6445
3	45	113 DAYS
4	16	BO DAYS
AVG DAYS TO TYPE 3 RECID		· · ·
	71	460 DAYS
2	48	224 DAYS
3	45	113 DAYS
4	16	80 DAYS

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Exhibit 4.0-11

IDAHO ALCOHOL SAFETY ACTION PROJECT PROFILE ANALYSIS

REG DWIS 1975

	SAMPLE SIZE :	400	
SEX		N=(342)	
	MALES	297	86.8%
	FEMALES	45	13.1%
HEIGHT		N=(335)	
	AVERAGE HEIGHT	68.8	
WEIGHT		N=(335)	
	AVERAGE WEIGHT	160.4	
ΔGF		N=(348)	
	AVERAGE AGE	34.5	
	AGE 19 OP LESS	45	12.9%
	AGF 20 - 24	65	18.6%
	AGE 25 - 29	56	16.0%
	465 30 - 34	33	9.42
	AGE 35 - 39	24	6.87
	AGE 40 - 44	25	7.19
	AGE 45 - 49	36	10-32
	AGE 50 - 59	46	13.2%
	AGE 60 AND DVER	18	5.1%
PACE		N=(181)	
	WHITE	160	98.3%
	BLACK	3	1.6%
	AMERICAN INDIAN	12	6.68
	MEXICAN	5	2.7%
	ORIENTAL	1	0.5%
	LATIN	ō	0.0%
	OTHER RACES	Ō	0.0%
CHOLONNENT	CT & TU C		
FMPLOYMENT		N=(182)	
	FULL-TIME PART-TIME	123	67.5%
	NOT EMPLOYED	9	4.99 15.99
	HOUSEWIFE	29	
	STUDENTS	3 8	1.69 4.39
	RETIRED	10	5.49
		10	_) • • • •
CCCUPATION	TYPE	N=(180)	
	UNEMPLOYED	28	15.53
	PROF / TECH	11	6.1%
·	CLERICAL / SALES	10	5.5%
	SERVICES	18	10.09
	AGRICULTURE	9	5.0%
	PROCESSING	19	10.5%
	MACHINE TPADES	5	2.7%
	FABRICATION / PEPAIR		5.0%
	STRUCTURAL	10	5.5%
9. N	OTHER	61	33.8%

Exhibit 4.0-11 (Continued)

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YEARS IN IDA	10	N=(163)	
	AVERAGE YEARS IN IDA		
	1 /	9	5.5%
	2	10	6.17
	3	4	2.49
	4 5	4	2.4%
•	6-10	4	2.4%
	11-15	9	5.5%
_ faur	16-20	13 35	7.9%
	21 AND OVER	75	21.47 46.07
REHABILITATIO		N=(400)	
	ATTENDED DEF. DRIVIN	-	9.0%
	ATTENDED DICP	38	9.5%
	ATTENDED COURT-SCHOO	L 72	18.07
COURT ALCOHOL		N=(72)	
	NEGATIVE IMPROVEMENT	3	4.1%
	ZERO IMPROVEMENT	0	0.0%
	IMPROVEMENT 1-4 5-9	29	40.27
	10-14	29	40.2%
	15-19	3 3	11.17
	20-UP	0	4.1% 9.0%
			ij € 0₽
MARITAL STATU	-	N=(185)	
	MARRIED	72	38.9%
	SINGLE DIVORCED	54	29.17
	WIDOWED	· 44 5	23.7%
	SEPERATED	10	2.7% 5.4%
	OTHER	0	0.03
DEDENDENTE			
DEPENDENTS		N = (174)	
	0	55	31.64
	1 2	44	25.2%
	3	27	15.5%
	4	16 15	9.12 8.67
	5	10	5.79
	6	4	2.2%
	7	0	0.09
	8	2	1.17
	9	0	0.0%
	10	1	0.5%
	11+	0	0.0%
RELIGION		=(165)	
	PROTESTANT	60	36.3%
	CATHOLIC	37	22.4%
	JEWISH	0	0.0%
	MORM'EN OTHER	28	16.97
	UINCK-	40	24.2%

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	Exhibit 4	.0-11 (Co	ntinued)	
YEARS MARRIED				
ICAND BARKIEU	AVERAGE	<u>N= (</u>		
			13.8	
	1 2		7	8.6%
	. 3		5	6.1%
	4		3	3.7%
	5-10		5	6.19
	11-15		22	27.1%
	16-20		12	14.8%
	20+		6	7.4%
	204		21	25.9%
ECUCATION		N= (178)	
	AVERAGE YEARS		11.1	
	1-6		- 101	5.17
	7-9		35	19.6%
	10		18	10.1%
	11		21	11.73
	12		70	39.32
	13		8	4.4%
	14		10	5.6%
	15		. 4	2.2%
	16		6	3.3*
	17 AND UP	· · ·	2	1.1%
1.0000			-	
INCOME		N= (172)	
	LESS THAN \$4000		51	29.6%
	4000-5999		35	20.3%
	6000-7999		27	15.6%
	8000-9999		29	16.8%
	10000-11999		11	6.32
	12000-13999		8	4.67
	14000-15999		5	2.9%
	16000-17999		1 3	0.5%
	18000-19999		3	1.79
	2000 0- UP		2	1.1*
BAC DATA		N= (266)	
AVERAGE BAC			.153%	
AVERAGE POSITI	VE BAC		•160%	
	NEGATIVE		11	4.19
	.0104		<u> </u>	1.5%
	.0509		26	9.7%
	.1014		83	31.2%
	.1519	-	85	31.9%
	•20 - •24		31 -	11.6%
	•25 +		26	9.79
REFUSED TEST				
	ONCE	N= (400)	•
	TWICE		18	4.5%
	3 OR MORE		0	0.0%
	e en conce		0	20.0

•

· · · · ·	Exhibit 4.0-11 ((Continued)	
DIAGNOSTIC TE	ST SCORES AVERAGE ALCADD 1-11 12-19 20-29 30-39 40-49 50-UP	N=(132) 14.5 75 26 14 14 2 1	56.87 19.67 10.67 10.67 1.57 0.77
DRINKER CLASS	DATA PROBLEM NON-PROBLEM UNDEFINED EST. PROB. DRINKERS	N=(175) 75 81 19 106	42.8¥ 46.2¥ 10.8¥ 26.5¥
	ADB 1 DWI 2 DWI 3 DWI 4 DWI 5+ DWI AVERAGE NO DWIS 1-2 NON A/R VIOLATIN 3-4 5-6 7-8 9 UP AVERAGE NON A/R VIOL 1 ACCIDENT 2 ACCIDENTS 3 ACCIDENTS 4 OR MORE AVER NO ACCIDENTS	1.48 ONS 126 41 10 9 2	69.7% 18.7% 8.7% 1.2% 1.5% 31.5% 10.2% 2.5% 2.2% 0.5% 19.7% 4.0% 1.0% 0.2%
CRIMINAL INVES	_	N={ 30} 13 6 11 3.66 2 0 0 0 0 0 0 18 4 1	43.37 20.07 36.67 6.67 0.07 0.07 13.37 3.37 3.37 3.37 0.07 0.07

103

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AVG DAYS TO TYPE 1 RECID		
1	75	414 DAYS
2	70	240 DAYS
3	15	106 DAYS
4	8	93 DAYS
5	24	53 DAYS
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

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Exhibit 4.0-12

IDAHO ALCOHOL SAFETY ACTION PROJECT PROFILE ANALYSIS

YEAR 3 OPERATIONAL DWI'S

	SAMPLE SIZE :		500	1	
SEX		N= (300)		
	MALES		268		89.3%
	FEMALES		32		10.6%
HEIGHT		NI (291)		
	AVERAGE HEIGHT	14-1	69.0		
FEIGHT					
FEIGHT	AVERAGE WEIGHT		291) 160.3		
			166.3		
AGE		N= (415)		
	AVERAGE AGE AGE 19 DR LESS		33.0		
	AGE 19 JA LESS AGE 20 - 24		71		17.1%
	AGE 25 - 29		76		18.37
-	AGE 30 - 34		65		15.6%
	AGE 35 - 39		42 28		10.12
	AGE 40 - 44		37		6.7%
	AGE 45 - 49		32		8.9%
	AGE 50 - 59		47		7.7% 11.3%
	AGE 60 AND OVER		17		4.0%
RACE		· • •			
< ₽0, F	WHITE	N= (
	BLACK		105		83.37
	AMERICAN INDIAN	·	0		0.0%
	MEXICAN		12 8		9.57
	CRIENTAL		Õ		6.3%
	LATIN		0		0.07 0.07
	CTHER RACES		1		0.7%
ENFLOYMEN	Τ ΣΤΑΤΗς				
	FULL-TIME	N= (125)		
	PART-TIME		87		69.6%
	NOT EMPLOYED		6 24		4.8% 19.2%
	HOUSEWIFE		2		1.67
	STUDENTS		3		2.43
	PETIRED	-	3		2.4%
CCCUPATIO	N TYPE	N = (122)		
	UNEMPLOYED	<i>i</i> ∕ − <i>ℓ</i>	1227		15.5%
	PRCF / TECH		19		12.5×5× 9.0%
	CLEPICAL / SALES		2		1.6%
	SERVICES		22		18.0%
. •	AGRICULTURE		13		10.67
	PPCCESSING		10		8.17
	ACHINE TRADES		8		6.5%
•	FABPICATION / REPAI	Ð,	11		9.09
	STRUCTURAL		4		3.27
	CTHER		22		18.0%

Exhibit 4.0-12 (Continued)

YEARS IN IDAH	AVERAGE YEARS IN I	N=([] A	21.1	
	1 2 3 4		8 5 3 5	7.6% 4.7% 2.8% 4.7%
	5 6-10 11-15 16-20 21 AND OVER		1 16 10 11 46	0.9% 15.2% 9.5% 10.4% 43.8%
REHABILITATIO		N = (40 • C 1
	ATTENDED DEF. DRIV: ATTENDED DICP ATTENDED COURT-SCHO	ING	30 49 65	6.0% 9.8% 13.0%
CCURT ALCOHOL	SCHOCL DATA NEGATIVE IMPROVEMENT ZERO IMPPOVEMENT IMFROVEMENT 1-4 5-9 10-14 15-19 20-UP	N= (T	65) 1 0 27 26 9 0 2	1.5% 0.0% 41.5% 40.0% 13.8% 0.0% 3.0%
MARITAL STATUS	MAFRIED	N = (126)	10.28
	SINGLE DIVORCED WICOWED SEPERATED CTHER		62 38 14 3 9 0	49.2% 30.1% 11.1% 2.3% 7.1% C.0%
DEPENDENTS	0	N= (113)	• • • • •
	0 1 2 3 4 5 6 7 8 9 10 11+		32 29 12 12 14 5 2 2 3 0 0 1	29.2% 25.6% 10.6% 10.6% 12.3% 4.4% 1.7% 1.7% 2.6% 0.0% 0.0% 0.0%
RELIGION	PRETESTANT CATHELIC JEWISH MORMEN CTHER	N = (106) 34 30 0 20 22	32.0% 28.3% 0.0% 18.8% 20.7%

9

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Exhibit 4.0-12 (Continued)

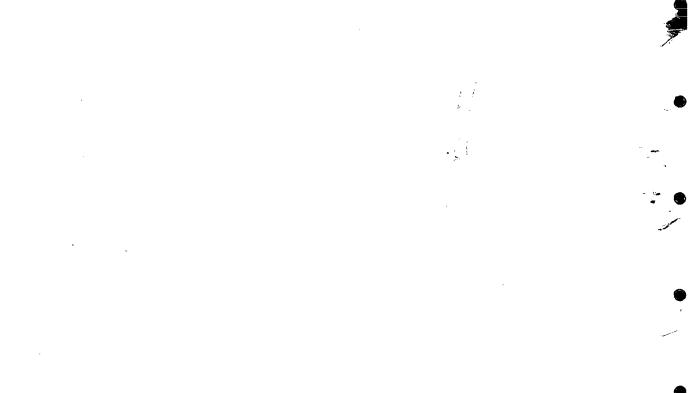
YEAPS MARRIED AVERAGE 1 2 3 4 5-10	N=(57) 12.5 7 4 5 3 13	12 • 27 7 • 09 8 • 78 5 • 28 22 • 88
11-15 16-20 20+	7 4 14	22 • 8 ¥ 12 • 2 ¥ 7 • 0 ¥ 24 • 5 ¥
ECUCATION AVERAGE YEARS 1-6 7-9 10 11 12 13 14 15	N=(126) 11.0 6 28 6 16 51 4 4	4.0% 22.2% 4.7% 12.6% 40.4% 3.1% 3.1%
16 17 AND UP INCOME	3 7 1 N=(125)	2.38 5.58 0.78
LESS THAN \$4000 4000-5999 6000-7999 8000-9999 10000-11999 12000-13999 1400C-15999 16000-17999 1800C-19999 20000-UP	40 24 18 17 9 4 4 2 3 4	32.0% 19.2% 14.4% 13.6% 7.2% 3.2% 3.2% 1.6% 2.4% 3.2%
PAC CATA AVERAGE FAC AVERAGE POSITIVE BAC NEGATIVE .0104 .0509 .1014 .1519 .2024 .25 +	N=(298) .152% .153% 3 4 37 57 87 51 19	1.07 1.3% 12.4% 32.5% 29.1% 17.1% 6.3%
REFUSED TEST CNCE TWICE 3 CR MCRE	N=(5CC) 22 3 0	4.4% 0.6% 0.0%

	Exhibit 4.0-12	(Continued)	
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 1 0	58.6% 27.8% 11.5% C.9% C.9% O.0%
ORINKER CLASS	CATA PRCBLEM NGN-FRCBLEM UNDEFINED EST. PROB. DRINKE	N=(123) 65 45 13 RS 100	52.8% 36.5% 10.5% 20.0%
VICLATIENS EN	ADE 1 DWI 2 DWI 3 DWI 4 DWI 5+ DWI AVERAGE ND DWIS	N=(500) 359 90 27 6 17 1.47	71.8% 18.0% 5.4% 1.2% 3.4%
	1-2 NCN A/R VIOLAT 3-4 5-6 7-8 9 UP AVERAGE NON A/R VI	35 20 14 2	22。0第 7。0第 4。0第 2。8第 C。4第
	1 ACCIDENT 2 ACCIDENTS 3 ACCIDENTS 4 CR MORE AVEP NO ACCIDENTS	76 25 4 1 .28	15.2% 5.0% 0.8% 0.2%
	TIGATION DATA 1-2 MISDEMEANDRS 3-4 MISDEMEANDRS 5+ MISDEMEANDRS AVG NO. MISDEMEAND 1-2 FELONIES 3-4 FELONIES 5+ FELONIES AVG NO FELONIES 1-2 A/F MISDEMEAND 3-4 A/R MISDEMEAND	1 1 2 1.77 RS 6	36.3% 27.2% 36.3% 4.5% 4.5% 9.0% 27.2% 13.6%
	5+ A/R MISCEMEANOR AVG NO A/R MISDEMÉ 1+2 A/R FELONIES 3+4 A/R FELONIES 5+ A/R FELONIES AVG NO A/R FELONIE	S 4 ANORS 3.13 0 0 0	13.0% 18.1% 0.0% 0.0%

Exhibit 4.0-12	2 (Continued)	
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 3	56	248 DAYS
	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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