# Effects of Administrative License Revocation on Employment

May 1996



U.S. Department of Transportation

National Highway Traffic Safety

Administration

This publication is distributed by the U.S. Department of Transportation, Highway **National** Traffic Safety Administration, in the interest of information exchange. The opinions, findings, and conclusions expressed in this publication are those of the author(s) and not necessarily those of the Department of Transportation or the National Highway Traffic Safety Administration. The United States Government assumes no liability for its contents or use thereof. If trade or manufacturers' name or products are mentioned, it is because they are considered essential to the object of the publication and should not be construed as an endorsement. The United States Government does not endorse products or manufacturers.

#### PREFACE

This research project evaluated both the effects of administrative license revocation (ALR) on the employment of first and multiple DUI offenders and the effects of alcohol-involved crashes on the employment of the victims of these crashes.

The authors would like to recognize the following organizations (and contact individuals) for their assistance with the DUI offender questionnaire by allowing KETRON team members to administer surveys to DUI offenders in their education/treatment programs: Delaware Safety Council, Inc. (Mr. Christopher Massaferi), Delaware Drinking Driver Program (Mr. Bruce Lorenz), Alcohol and Drug Recovery, Ltd. (Mr. Barry Wilen), Health Management Enterprises, Inc. (Mr. Stephen Buchness), Recovery Center of Annapolis (Dr. John McClanahan), Chester County (PA) Council on Addictive Diseases, Inc. (Mr. Robert Esty), and Marin County Drinking Driver Program (Dr. Joan Driscoll).

The victim questionnaire administration was only possible as a result of the assistance of the following organizations and contact individuals: Delaware State Police (Captain Doug Hancock and Ms. Tammy Hitchens), California Department of Motor Vehicles (Mr. Ray Peck, Mr. Cliff Helander, and Ms. Patrice Rogers), and Chester County, PA District Attorney's Office (Mr. Nick Casenta).

The authors would also like to thank Mr. Steven Schmidt, formerly of the PA DUI Association, for his assistance throughout the project and the following KETRON team members who assisted with site selection and recruiting, survey development, survey administration, and impact analysis: Mr. Lawrence Decina, Dr. Michael Temple, Ms. Marta Blotny-Kornak, and Mr. William Dreifke.

Finally, a special thanks goes to Ms. Julee Shuck for the production of the task and final reports for this project.

#### **Technical Report Documentation Page**

1. Report No.	2. Government Accession No.	3. Recipient's Catalog No.		
DOT HS 808 462				
4. Title and Subtitle	· · · · · · · · · · · · · · · · · · ·	5. Report Date		
		May 1996		
Effects of Administrative License Revoc	cation on Employment	6. Performing Organization Code		
• • • • • • • • • • • • • • • • • • •	1 2 "	n/a		
7. Author(s)		8. Performing Organization Report No.		
Kathleen Y. Knoebel and Dr. H. Laurence	e Ross	n/a		
9. Performing Organization Name and Address		10. Work Unit No. (TRAIS)		
KETRON Division of The Bionetics Corp	oration			
350 Technology Drive		11. Contract or Grant No.		
Malvern, PA 19355		DTNH22-93-C-05002		
12. Sponsoring Agency Name and Address		13. Type of Report and Period Covered		
National Highway Traffic Safety Administ	tration	Final Report		
Office of Program Development and Evalu	uation	October 1993-August 1995		
400 Seventh Street, SW		14. Sponsoring Agency Code		
Washington, DC 20590	:			

15. Supplementary Notes

#### 16. Abstract

This project addressed: (1) the impact of administrative license revocation (ALR) on the employment of first and multiple drunk-driving (DUI) offenders, and (2) the impact of alcohol-related crashes on the employment of crash-involved persons (i.e., innocent drivers, passengers, and pedestrians). In-person DUI offender questionnaires were completed by 579 first offenders and 233 multiple offenders (812 total) at alcohol education schools and treatment programs in the following four counties, which represented varying levels of ALR: Chester County, PA (no ALR), Anne Arundel County, MD (immediate hardship license available), Marin County, CA (30-day hard license suspension), and New Castle County, DE (90-day hard license suspension). Completed crash victim surveys were returned by 146 crash victims from Pennsylvania, California, and Delaware.

The data in this study show that administrative license revocation does not have a pronounced impact on the DUI offender's job and income. Alcohol-involved crashes have a great impact on seriously injured victims. However, the proportion of DUI crashes producing serious injury is quite low. Most DUI is crash-free, and most crashes do not involve injury. Thus, the vast bulk of the impact of DUI falls on the offenders, and not the victims.

Policy recommendations based on the study findings are: (1) One should not expect loss of jobs and income from administrative license revocations as great as 90 days for first offenders. Since such revocation has safety benefits, continued support for the adoption of administrative license revocation in the 12 states that do not yet have ALR is recommended. (2) The data indicate no strong reason to prefer one form or duration of ALR over another, from the viewpoint of minimizing economic consequences. (3) Because the population perceives the risk of apprehension for unlicensed driving as very low, more should be done to increase the rate of detection, and such efforts should be widely publicized. (4) States should facilitate license reinstatement so that more drivers become relicensed at the end of their sanction period. (5) Since the public is still not familiar with administrative license revocation, more resources should be devoted to publicizing this remedial action in order to achieve general deterrence.

17. Key Words		18. Distribution	Statement	
Alcohol, DUI, DWI, drunk driving, ladministrative license revocation, empoffenders, multiple offenders	This document is available to the U.S. public through the National Technical Information Service, Springfield, VA 22161. Phone (703) 487-4650			
19. Security Classif. (of this report)	20. Security Classif. (of this pa	ge)	21. No. of Pages	22. Price
Unclassified	Unclassified			

# **TABLE OF CONTENTS**

Section & Title	Page
Executive Summary	vii
1.0 INTRODUCTION  1.1 Background on Administrative License Revocation  1.2 The Benefits of Administrative License Revocation  1.3 The Prior Literature  1.4 Project Objectives	1 3
2.0 RESEARCH APPROACH AND METHODOLOGY 2.1 Sampling and Instruments 2.2 The Victim Survey 2.3 DUI Offender Survey Administration 2.4 Data Processing and Descriptive Statistics 2.5 ALR Process/DUI Sanction Review 2.5.1 California ALR Process Review 2.5.2 Delaware ALR Process Review 2.5.3 Maryland ALR Process Review 2.5.4 Pennsylvania DUI Process Review 2.6 Methodology for Estimating Impact on Employment	11 14 26 27 30 32
3.0 ANALYSIS AND INTERPRETATION OF RESEARCH FINDINGS 3.1 Who are the DUI Offenders and Their Victims? 3.2 Impact on Jobs 3.3 Driving While Revoked 3.4 The Functioning of ALR Systems 3.5 Other Findings Related to Safety Among DUI Offenders 3.6 Administration of Surveys to Spanish Speaking DUI Offenders 3.7 Victim Survey Results	39 53 59 65
4.0 SUMMARY AND RECOMMENDATIONS	75
5.0 LITERATURE REFERENCES	79
APPENDIXES  A - DUI Offender Questionnaire for ALR States B - Spanish-Version of DUI Offender Questionnaire for ALR States C - Alcohol-Related Crash Victim Cooperation Letters and Survey D - DUI Offender Survey Statistical Tabulation by State and DUI Offender Type E - Alcohol-Related Crash Victim Survey Statistical Tabulation by State and Treatment of Injuries F - Evaluation Design for Estimating Impact on Employment	

# **List of Figures**

Figure	age
1-1 Length of Mandatory License Suspension by State	8
3-1 Frequency of Consumption of 1 to 2 Beers	
3-2 Frequency of Consumption of 3 Beers	
3-3 License Loss Effect on Work	44
3-4 Impact Analysis of ALR on First Offender Income	47
3-5 Impact Analysis of ALR on Multiple Offender Income	48
3-6 DUI Arrest Effect on Employment and Income	
3-7 DUI Crash Victim Employment and Income Changes	52
3-8 Likelihood of Driving Without a License	
3-9 Transportation Arrangement for DUI Offender	
3-10 Most Recent Work Day Transportation	57
3-11 Likelihood of Being Caught Driving Unlicensed	58
3-12 Percent DUI Offenders Who Did Not Take Breath Test	
3-13 Percent of DUI Offenders Who Did Not Take Breath Test Who Were Charged	
With Refusing Breath Test	60
3-14 Administrative Process Experience	63
3-15 Awareness of Administrative Process Before DUI Arrest	
3-16 Likelihood Licenses Returned	
3-17 Vehicle Ownership	
3-18 Reasons Police Stopped Vehicle	
F-1 Representation of ALR Sanction Effects	

# **List of Tables**

Table	Page
1-1 Status of Administrative License Revocation by State	4
2-1 Demographics for Four Study Sites	
2-2 DUI Crash Victim Survey Information	15
2-3 DUI School/Treatment Center Operators	17
2-4 DUI Offender Survey Administration Schedule	24
3-1 Characteristics of DUI Offenders, Crash Victims, and the General	
Population in the Four Study Sites	39
3-2 Frequency of Consumption of One to Two Beers/Mixed Drinks/Glasses Wine	
Less Than 1 Hour Before Driving During the 12 Months Prior to DUI Arrest	40
3-3 Frequency of Consumption of Three Beers/Mixed Drinks/Glasses Wine	
Less Than 1 Hour Before Driving During the 12 Months Prior to DUI Arrest	
3-4 Extent Loss of License Has Interfered With Work	
3-5 Extent Loss of License Has Interfered With Work by Need for Vehicle/License	
3-6 First Offender Income Impact After DUI Arrest	
3-7 Multiple Offender Income Impact After DUi Arrest	
3-8 Difference in Percent Reduction in Income Between ALR and Non-ALR States	
3-9 Stated Changes in Employment and Income as a Result of the DUI Arrest	50
3-10 Activity the Month After DUI Arrest for Those Working the Month Before	- 1
Arrest	
3-11 Stated Changes in Employment and Income as a Result of DUI Crash	52
3-12 Activity the Month After DUI Crash for Those Working the Month	- 4
Before Crash	
3-13 DUI Offender's Likelihood of Driving Without a License	55
3-14 DUI Offender's Transportation Arrangements for Work While Waiting for	EG
License Reinstatement	
3-15 Method of Transportation for DUI Offender's Most Recent Day of Work	57
3-16 Likelihood of Being Caught for Those DUI Offenders Who Drive Without a License	58
3-17 DUI Offender Experience With the Breath Test at Time of Arrest	
3-18 Experience/Knowledge of DUI Offenders With the Administrative	
Process	62
3-19 Likelihood DUI Offender Will Get License Back When Suspension/	
Revocation Ends	64
3-20 DUI Offenders With Valid License at Their Most Recent DUI Arrest	
3-21 Prior DUI Arrest Records	
3-22 DUI Offenders Who Reported Wearing Seat Belt at the Time of DUI Arrest	
3-23 Ownership of the Vehicle Driven at the Time of DUI Arrest	
3-24 Reason Police Stopped Vehicle at the Time of DUI Arrest	
3-25 Number Currently Employed Household Members of the DUI Offender	
3-26 Involvement of Victims in the DUI Crash	
3-27 Injury Severity of Crash Victims	72

# **List of Tables (Continued)**

Table	Page
3-28 Damage to Vehicle Resulting from DUI Crash	73
3-29 Comparison of Crash Victim Survey and DUI Offe	

### **EXECUTIVE SUMMARY**

#### PROJECT OBJECTIVES AND BACKGROUND

This report presents the results of a study of drunk-driving (DUI) offenders in four jurisdictions which differ in the driver-license consequences of failing and refusing alcohol breath tests. The three main objectives of this research project were to:

- 1. Determine the impact of short-term (30-45 days) administrative license suspension/revocation on the employment and income of first offenders.
- 2. Determine the impact of longer-term (6 months to a year) administrative license suspension/revocation on the employment and income of multiple offenders.
- Determine the effects of alcohol-related crashes and injuries on the employment and income of other crash-involved persons (i.e., innocent drivers, passengers, and pedestrians).

The administrative license revocation (ALR) process constitutes taking a driver's license administratively, rather than judicially, based on evidence provided by the police that the driver was impaired by alcohol. This differs from the traditional use of license revocation as a criminal sanction. Traditionally, license revocation was one of several possible remedial actions available to a judge for sentencing someone found guilty of drunk driving or, in more recent years, someone found guilty of driving with a blood/breath alcohol content (BAC) exceeding a tolerated limit, usually 0.10 percent. Criminal license penalties could only be imposed after final judgment, rendering them contingent on successful prosecution. Criminal prosecution required proof beyond a reasonable doubt that the defendant had committed the offense charged. The mechanics of this process substantially weakened license actions in terms of the swiftness and certainty of application.

The prior research literature supports the view that ALR is effective in reducing alcohol-involved driving. However, an important concern with this issue is ALR is not universal in the United States. As of January 1996, ALR laws were in effect in 38 states and the District of Columbia. Among the principal rationales offered by the remaining 12 states for rejecting ALR is the claim that license revocation leads to loss of employment, in turn impacting on the offender's dependents and subsequently societal welfare costs

On this topic, prior literature has found that income and employment losses are experienced by only a small minority of persons losing their licenses as a consequence of DUI. Among the reasons that can be cited are: (1) some important fraction of workers do not commute, but earn their income by working at home or walking to work; (2) some are able to substitute alternative means of getting to work, such as car pooling or using public transportation; and (3) some evade the remedial actions by

driving without licenses. The current study investigated the extent to which these alternatives are realized.

Despite the evidence in favor of administrative license revocation for DUI offenders, as of January 1996, there are still 12 states that do not have ALR laws. Although the research in Delaware, New Mexico, Arizona, and Mississippi indicates that the effect of ALR on employment is minimal, the research is thin in this area. In the absence of quantitative data regarding the actual effects of ALR on employment, it is impossible to know whether the perceived draconian effect on employment actually occurs for an important fraction of DUI offenders.

Therefore, in order to examine the actual effect of ALR on the employment of DUI offenders and the victims of crashes associated with these offenders, NHTSA funded the current research project. The results of this research provide NHTSA with information to present to states that are considering enacting ALR laws.

#### RESEARCH APPROACH AND METHODOLOGY

#### Site Selection

Current ALR laws vary widely by state. The states can be characterized as falling into one of the following four categories:

- 1. **No Laws.** The driver's license can only be suspended after a criminal conviction.
- 2. **ALR/Immediate Hardship License.** A hardship license (e.g., for employment) can be obtained for the duration of the suspension period, with no mandatory "hard" suspension period.
- 3. ALR/30-60 Day Mandatory Suspension. The license suspension period is typically 90 days, but a hardship license can be obtained after a full or "hard" suspension period of 30-60 days. However, there is a short period after the DUI arrest when the DUI offender has a temporary license so that transportation arrangements can be made.
- 4. ALR/90+ Day Mandatory Suspension. A "hard" suspension period of at least 90 days is prescribed.

The study was designed to investigate the consequences of license revocation by choosing jurisdictions representing the four legal categories. In *Delaware*, ALR for 90 days is automatic for persons arrested for DUI and failing the mandated breath test. In *California*, although a suspension period of 120 days is prescribed, hardship licenses are available after 30 days. In *Maryland*, a DUI offender has a formal suspension period of 45 days, but can receive a hardship license without any period of "hard"

suspension. The fourth state, *Pennsylvania*, represents non-ALR jurisdictions. In Pennsylvania, there are no mandated consequences for failing a breath test at the scene of an arrest; it is not until a suspect is convicted that the possibility of license revocation arises. These four cases represent the range of license revocation provisions generally used for DUI.

In order to appreciate any impacts that might be found, the study was designed to compare employment and income effects of license revocation on DUI offenders with the employment and income effects of injury-producing DUI crashes on victims, pedestrians, non-impaired drivers, and their passengers.

A problem with comparing different jurisdictions is that the law is not the only thing that differentiates them. One can expect differences in climate, demography, the economy and, most generally, culture. A problem arises in interpreting whether differences found between the jurisdictions are caused by the variables by which they were selected.

The approach used to control for these factors was to select jurisdictions with different laws but similar socio-demographics and proximate locations. Three of the four states were contiguous: Pennsylvania (without ALR), Maryland (with immediate hardship licenses), and Delaware (with 90 days "hard" suspension). From each of these states, one county was selected on the basis of physical and social similarity to the others. The counties were Chester, Anne Arundel, and New Castle, respectively.

These jurisdictions did not provide an example of a state making hardship licenses available after 30 days. Indeed, there are none contiguous to the three mentioned above. Because of its excellent statistical system and cooperative officials, California was selected as a comparison state. It lacks contiguity, but Marin County is socio-demographically similar to the other sample counties.

# **DUI Offender Survey**

Prior experience with similar research suggested that random sampling from state records of the DUI population would not succeed in reaching DUI offenders. Therefore, subjects were drawn from DUI treatment and education programs. In each of the four selected counties, all programs providing services to DUI offenders were located and requested to cooperate in allowing their classes or treatment groups to complete a paper-and-pencil questionnaire.

A questionnaire was designed for classroom administration. Once it was discovered that both California and Pennsylvania institutions offered classes for Spanish-speaking people, the questionnaire was translated into Spanish for use with these special classes and anyone else who indicated a preference. (Unfortunately, the Hispanic sample, largely Mexican immigrants, frequently proved to be illiterate in

Spanish as well as English, and it was not possible to complete a planned analysis of them.)

DUI schools/treatment programs in all four counties agreed to participate in the data-collection activities. In Chester County, Pennsylvania, the one facility that runs both first offender and multiple offender programs participated. In Anne Arundel County, Maryland, three facilities participated, covering both first and multiple offenders. Also in Marin County, California, the one facility that offers both first offender and multiple offender programs agreed to participate. In New Castle County, Delaware, one first-offender DUI school (serving New Castle County only) and one multiple-offender DUI program (serving all of Delaware) participated.

The project goal was 200 interviews in each county--150 with first offenders and 50 with multiple offenders. It was estimated that this distribution would mirror the split between first offenders and multiple offenders among those convicted of DUI offenses. Data collection spanned the period from June 1, 1994 to October 6, 1994. A total of 812 completed DUI offender surveys were used for the final analysis--579 with first offenders and 233 with multiple offenders.

# **Crash Victim Survey**

A comparison group of victims was selected, defined as people other than the impaired drivers involved in alcohol-related injury crashes in the same counties. These were largely unimpaired drivers of other cars, along with some passengers and pedestrians. Victims thus defined are a difficult group to find and study. In California and Delaware, state records were used to identify qualifying crashes in the respective counties, from about the time that the DUI offenders were apprehended. For reasons of confidentiality, state officials hired clerks to identify appropriate persons, and send them questionnaires based on items from the DUI offender instrument. A victim population could not be identified in Maryland.

In Pennsylvania, the state proved unable to provide appropriate files, so DUI arrest records from the District Attorney's Office in Chester County were scanned to locate those that involved crashes. The crash reports were then read to extract the names and addresses of third parties (victims) involved in these crashes, to whom questionnaires were sent.

It was assumed that victims had a story they would want to tell and that endorsement by the state would produce high response rates, but a surprisingly low response rate was obtained--58 of 189 surveys (32 percent) were returned in Delaware, 34 of 192 surveys (19 percent) were returned in California, and 54 of 182 surveys (32 percent) were returned in Pennsylvania.

#### RESEARCH FINDINGS

#### Who are the DUI Offenders and Their Victims?

As has been found in other studies, the DUI offenders were atypical of the general population. Even first offenders differ socio-demographically from the general population, and the multiple offenders were even less representative. DUI offenders are disproportionately male, living without families, less educated, and more working class, than either the victims or the general population. As mature men, they are very likely to be employed and to be susceptible to factors impinging on employment. Beyond this, it appears that the DUI offenders, especially the multiple offenders, are heavy drinkers in conjunction with driving.

However, DUI offenders are <u>not</u> importantly different from victims (or the general public) in average age and in racial composition.

The victim populations are socio-demographically close to the general population, a finding that might be expected in an auto-dependent society if victimization merely depends on using the public roads.

### Impact on Jobs for DUI Offenders

In brief, expectations that earnings of DUI offenders in ALR states should be reduced when compared to the non-ALR state were **not** confirmed by most of the analyses. This central question was examined in numerous ways for both DUI offenders and crash victims.

First, the offenders were asked to rate the extent that their loss of license has interfered with work (for those offenders who were working at the time of the DUI arrest). Nearly half the offenders reported that the experience greatly interfered with their work. These were mostly people who claimed that their jobs required the use of a car, whether for commuting or even more so, for those using a car in their work. Multiple offenders were in general more likely to report a great extent of interference than were first offenders, as might be expected given the heavier license penalties reported by this group. However, there does not seem to be an orderly pattern of responses among the states and therefore among different kinds and lengths of ALR.

Second, the offenders were asked to report income for the jobs they held from 1992 to 1994. An impact analysis was performed for first and multiple offenders which compared the change in income after DUI arrest for DUI offenders in each of the ALR states to the change in income after DUI arrest for DUI offenders in the non-ALR comparison state. The impact analysis regression model controlled for the effect of the DUI offender being in jail or attending school in any given month, as well as the expected increase in monthly income over time. Monthly impact measures/significance levels were obtained for the 6 months after DUI arrest for three separate models (for

both first and multiple offenders): Maryland versus Pennsylvania, California versus Pennsylvania, and Delaware versus Pennsylvania.

For first offenders, the earnings comparison between Delaware and Pennsylvania was not significant, though in the same direction as that presented in the hypothesis (income was reduced more in the ALR state when compared to the non-ALR state). There was no significant impact on earnings for multiple offenders, and the differences were in the opposite direction from that presented in the hypothesis (post-arrest income was higher in the ALR state than in the non-ALR state). The same patterns and lack of significance were found when offenders in Maryland were compared with those in Pennsylvania. The impact analysis for California first offenders showed a significant gain against Pennsylvania in earnings. No significant effect was noted for California multiple offenders in the first several months after arrest.

Third, the offenders were asked how much income they lost per week as a direct result of their DUI arrest/loss of license. The percent reduction in income from the income reported for the month of the DUI arrest was computed for all offenders (where available). A t-test of difference between the percent reduction in each of the three ALR states and the percent reduction in the comparison non-ALR state was performed for both first and multiple offenders to determine whether the percent reduction was significantly greater in the ALR states. None of these six tests was significant at the 5% level.

Fourth, the offenders were asked to describe the effect of their most recent arrest on their employment. These open-ended responses were coded into categories and summarized. Over 55 percent of the respondents stated there was no change in their employment or income after the DUI arrest.

Fifth, the activity the month after arrest was examined for those offenders who were working the month before their arrest to determine whether changes in employment were more pronounced in ALR states when compared to the non-ALR state. The percent still working the month after arrest (94 percent) was identical for DUI offenders in the three ALR states and the non-ALR state.

Finally, a regression analysis was performed to predict income based on multiple explanatory variables to determine whether there was a strong relationship between income and ALR status. The regression analysis found strong significant relationships with gender, marital status, age, and education, but **not** with the state of residence (and therefore, probably not with ALR status).

# Impact on Jobs for DUI Crash Victims

Membership in the victim group was defined in terms of unimpaired survivors of alcohol-related crashes. Even though this analysis compared people who were in crashes with a broader group of DUIs, most of whom were not in crashes, the evidence does not

support the idea that the employment of victims is more impacted than that of the DUI offenders. Victims seldom reported a disability-related change in jobs--only 6 of 146 made this claim, and it was not necessarily the case that the disability was related to the victimization

When the crash victims were asked to describe the impact on their employment that resulted from involvement in the alcohol-related crash, over 56 percent reported no impact. It is important to note that, assuming self-selection bias, the more seriously injured/impacted crash victims would have been more likely to return the questionnaire.

The crash victims were asked how much income they lost per week as a direct result of their DUI crash. The percent reduction in income from the income reported for the month of the DUI crash was computed for all DUI crash victims (where available). A t-test of difference between the percent reduction for DUI offenders and the percent reduction for DUI crash victims was performed to determine whether the percent reduction was significantly greater for victims or offenders. The percent reduction was actually greater for offenders (12.0 percent) compared to DUI crash victims (7.6 percent). However, this difference was not significant at the 5% level.

The activity the month after the DUI crash was examined for those crash victims who were working the month before their crash to determine whether changes in employment were more pronounced when compared to DUI offenders. The percent still working the month after the crash was less for the victims (71 percent total) compared to the offenders (94 percent total).

# **Driving While Revoked**

Although the respondents frequently claimed interference with work from the DUI and license revocation, many of them admitted to driving to work and for other social functions. Particularly in the ALR states, large numbers of informants rated the probability that they would drive without a license as very likely, reaching nearly two-thirds for California multiple offenders.

Important numbers of DUI offenders who lost their license stated that they drive to work. The figure was higher in Maryland and California, where hardship licenses are available, but even in Delaware, a fifth of first offenders and one in seven multiple offenders declared that they continued to drive to work. More than a third of respondents reported that they drove on the most recent day they worked. When all occasions for travel are considered for those DIU offenders without a license, 46 percent admitted that they drove themselves (48 percent of first offenders and 41 percent of multiple offenders).

Driving while unlicensed is likely to be encouraged by the belief that there is little danger of being caught. Majorities of both first and multiple offenders rated the risk as

low, and only seven percent of the sample said that being caught is very likely during a month of unlicensed driving.

# The Functioning of ALR Systems

A small proportion of DUI offenders did not take breath tests at the time of arrest. Except in California, the proportions were higher for repeat offenders, representing almost half in Maryland. One would have expected (as is the case for Maryland) that a large percent of DUI offenders who did not take a breath test at the time of arrest would have been charged with refusing the breath test. However, this was not the case as less than 35 percent of those who did not take a breath test were charged with test refusal in the other three states.

Nearly a third of first offenders were ignorant of the possibility of administrative license revocation at the time of their offense. This was also true of one out of six multiple offenders. Such people obviously could not have been deterred by the ALR law. Among the ALR states, Maryland produced the highest proportion of demands for hearings, with more than half requesting them. Maryland drivers also more frequently attended the hearings and were more frequently rewarded by getting their licenses returned.

DUI offenders expect to become relicensed. However, nontrivial proportions of multiple offenders indicated a low probability of relicensing.

# Other Findings Related to Safety Among DUI Offenders

On average, 2 percent of first offenders and 21 percent of multiple offenders were driving while unlicensed at the time of their arrest. Many repeat offenders (nearly one in six) had more than one prior offense on their record in the past year, and declared priors were as high as five in 5 years.

Multiple offenders were more likely to fail to wear seat belts (40 percent for multiple offenders versus 30 percent for first offenders). This accords with the understanding that repeat DUI offenders tend to engage in other unsafe driving behaviors. Registration of vehicles in the name of persons other than the DUI offender was relatively uncommon, even for multiple offenders. Approximately 20 percent were registered in the name of someone who did not live in the same household. It was expected that this would occur as a means of avoiding insurance surcharges, but the expectations were disconfirmed.

Crashes accompanied 17 percent of all DUI arrests. The vast bulk of arrests were based on moving violations (66 percent) or equipment violations (8 percent). One implication of this fact is that the experiences of DUI offenders as a group are incommensurate with those of crash victims.

Most offenders (67 percent) lived in households with other employed persons. One implication of this is that even if the DUI offender were to lose his/her employment, most of the households would be able to count on the income of others for survival.

# **Administration of Surveys to Spanish Speaking DUI Offenders**

Another finding of this research study was that the needs of Spanish speaking DUI offenders may not be adequately addressed by current alcohol education and treatment programs. This group is very different from the DUI offenders for whom English is the primary language, in terms of culture, education, employment, and driving experience. The Spanish version of the DUI offender questionnaire, which was developed for administration in the special classes conducted in Spanish in two states, met several obstacles in practice. In the end, the attempt was abandoned when it turned out that members of the target group were often illiterate in Spanish as well as English, and were not able to complete a paper-and-pencil survey on their own. Also, some components of the questionnaire were foreign to the Hispanic classes.

The Spanish speaking respondents raised the problem that our definition of jobs and employment does not correspond with the understanding of some segments of society. Many of the Mexican immigrants in the sample worked at a different "job" every day. Furthermore, many of the Hispanics never possessed a driver's license and thus could not have been greatly influenced by that sanction. The questions concerning license revocation made little sense to them. Other, similar, problems were discovered, such as the fact that many Spanish speakers in Pennsylvania lived in company dormitories and lacked understanding of the journey to work.

# **Victim Survey Results**

The results are for a relatively small sample of victims (approximately 150) and they represent a very small percentage of the injuries in alcohol-related crashes. The majority of the injuries are suffered by the DUI offenders who cause these crashes. Over 75 percent of the victims were drivers of another vehicle involved in the crash (but not charged with DUI). Over 27 percent were uninjured and nearly half did not require medical treatment. Only about 15 percent required hospitalization. Most of the damage was to vehicles; more than 57 percent of the crash victims reported that their vehicle was damaged such that it could not be driven away from the crash scene.

The results from the crash victim survey were compared with comparable results from the DUI offender survey. Ten percent fewer crash victims were employed at the time of their DUI crash as compared to DUI offenders employed at the time of their DUI arrest. A larger percent of crash victims was employed in professional jobs than DUI offenders. The average tenure of crash victims at their current job was 8 months longer than the average tenure of DUI offenders at their current job. The DUI offenders worked more hours per week and earned slightly more per week than the crash victims. Both groups reported an

almost identical weekly reduction in income (under \$100/week) as a result of the DUI crash or loss of license.

#### SUMMARY AND RECOMMENDATIONS

The data in this study show that administrative license revocation does not have a pronounced impact on the DUI offender's job and income. An important reason for this is the willingness of these offenders to continue driving, although presumably more safely than they did when licensed. DUI offenders view the risk of apprehension as low. The main employment consequence of license revocation on DUI offenders is the need to find alternative transportation, which is generally achieved by riding with others. Offenders see this as an inconvenience, but lost income is uncommon.

Alcohol-involved crashes have a great impact on seriously injured victims. However, the proportion of DUI crashes producing serious injury is quite low. Most DUI is crash-free, and most crashes do not involve injury. Thus, the vast bulk of the impact of DUI falls on the offenders and not the victims.

Some important experience regarding the study of offenders was obtained during the course of this project. The method of surveying offenders at alcohol highway safety schools and alcohol treatment programs worked very well for both first and multiple offenders literate in English. The schools and treatment programs were interested in the research study and were therefore cooperative and accommodating of the survey requirements. A very high survey participation rate was obtained from the offenders.

This research has also found that administrative license systems differ in their efficiency. In some places, represented by Maryland, hearings are almost routinely requested and they often result in return of the license. In others, including both California and Delaware, few requests are made and few are successful in canceling the penalty. A partial explanation may be found (as in Delaware) in the policy of demanding police attendance at hearings and restoring the license of drivers if police do not attend.

Policy recommendations based on these findings are:

- 1. One should not expect loss of jobs and income from administrative license revocation periods as great as 90 days for first offenders. Since such revocation has safety benefits, continued support for the adoption of administrative license revocation policies is recommended.
- 2. The data indicate no strong reason to prefer one form or duration of ALR over another, from the viewpoint of minimizing economic consequences.

- 3. Because the population perceives the risk of apprehension for unlicensed driving as very low, more should be done to increase the rate of detection, and such efforts should be widely publicized.
- 4. States should facilitate license reinstatement at the end of the sanction period to encourage drivers to reenter the licensing system.
- 5. Since the public is still not familiar with administrative license revocation, more resources should be devoted to publicizing this remedial action in order to achieve general deterrence.

The following additional research is suggested:

- 1. Further research is needed to determine whether driving would be further reduced with vehicle sanctions, i.e., policies designed to separate would-be drunk driving offenders from access to vehicles.
- The direct economic impact of the DUI conviction in the matter of fines, legal expenses, program fees, and insurance surcharges should be studied. These costs are quite likely to exceed the income impacts investigated in this report.
- 3. More is needed on enforcing the prohibition of driving while suspended or revoked.
- 4. The population in this study very largely declares expectations of becoming relicensed. A panel study might follow a set of unlicensed drivers over time to check when and how they achieve relicensing, and compare those who do get licensed with those who do not in terms of subsequent driving history.

## 1.0 INTRODUCTION

This report presents the results of a study of drunk-driving (DUI) offenders in four jurisdictions, which differ in the driver-license consequences of failing and refusing breath tests. Its main concern was to evaluate the extent to which these consequences affect the employment and income of DUI offenders.

An important basis for concern with this issue is that adoption of administrative license revocation (ALR), increasing the probability and swiftness of removing the offending driver from the road, is not complete in the United States. Among the principal rationales offered for rejecting this measure is the claim that license revocation leads to loss of employment, in turn impacting on the offender's dependents and subsequently on societal welfare costs. This claim cannot be rejected out of hand, and to the extent that it is valid it suggests the need to balance these consequences against the benefits of revocation in terms of incapacitating and reforming the offenders and deterring others.

# 1.1 Background on Administrative License Revocation

As of January 1996, administrative license revocation (ALR) laws were in effect in 38 states and the District of Columbia. Adoption of such laws is being urged on the remaining states by numerous organizations devoted to reducing drunk driving, most notably the National Highway Traffic Safety Administration (NHTSA), which has drafted a model statute and offers funding incentives for the states passing conforming legislation. The first ALR law was enacted in 1976 in Minnesota (major amendments to Minnesota's statutes were passed in 1978 and 1982).

The ALR process constitutes taking a driver's license administratively, rather than judicially, based on evidence provided by the police that the driver was impaired by alcohol. This differs from the traditional use of license revocation as a criminal sanction. Traditionally, license revocation was one of several possible remedial actions available to a judge for sentencing someone found guilty of drunk driving or, in more recent years, someone found guilty of driving with a blood/breath alcohol content (BAC) exceeding a tolerated limit, usually 0.10 percent. Criminal license penalties could only be imposed after final judgment, rendering them contingent on successful prosecution. Criminal prosecution required proof beyond a reasonable doubt that the defendant had committed the offense charged. The mechanics of this process substantially weakened license actions in terms of the swiftness and certainty of application.

Administrative revocation developed in stages, initially as a means to induce cooperation of drivers in taking breath-alcohol tests by enforcing the driver's "implied consent" to be tested. People using the roads, it was argued, had by implication consented to cooperation with the alcohol test. Today, administrative revocation permits the police to temporarily remove the license on the basis of evidence that the driver may be unsafe.

This evidence is supplied by a positive reading on a test of alcohol impairment or by refusal to take the test when there is reasonable cause to believe that the driver is impaired.

The driver's license is taken or altered on the spot, and the driver is notified that his/her permission to drive will expire in a given number of days. A temporary driving permit, valid for a limited number of days, is then issued. Each state has statutory provisions that define the process leading back to reinstatement, which can include obtaining a limited or provisional license, enrolling in therapeutic or educational programs, taking a relicensing examination, paying various fees, and others.

Due process requires a review procedure for appealing the revocation. A hearing by an administrative official must be requested within a given time period. The hearing may concern issues such as whether the police officer had sufficient reason to stop the driver and whether the stop yielded sufficient reason (e.g., "probable cause") for arrest. The hearing officer's decision is based on the administrative standard of preponderance of evidence, rather than the criminal standard of proof beyond a reasonable doubt. If requested, the hearing must be held within a specified time. The revocation action is usually stayed pending the results of the review.

Most states impose the loss of driving privileges if no hearing is held or if this administrative hearing finds against the driver. The license may either be suspended (driving privileges return automatically at the end of the license-suspension period) or revoked (the license is lost and the offender must obtain a new license at the end of the period of restriction). Suspended drivers are typically more easily reintegrated into the licensing system once the sanction period is over.

Table 1-1 demonstrates the variety of versions of ALR currently adopted in the 50 states and DC (as of January 1996) by listing the following information for each state as well as for the model statute offered by the Uniform Vehicle Code, which generally parallels the model Revocation on Administrative Determination (ROAD) Act offered by NHTSA.

- 1. BAC defined as illegal per se;
- Existence of ALR laws in the state (yes/no); indication of whether the license is suspended (S) or revoked (R) for states with ALR; and effective date of ALR law:
- 3. Term of temporary license issued by police officer when permanent license taken;
- 4. For administrative per se hearings, time offender has to request a hearing and time within which the hearing must be held if requested;
- 5. Term of license suspension/revocation for first offense for positive test results; and

6. Availability of a hardship license (which permits commuting to and from work for first offenders who meet certain criteria) and length of mandatory (hard) suspension.

Although the ALR laws shown in Table 1-1 vary widely by state, the states can be characterized as falling into one of the following four categories:

- 1. **No Laws.** The driver's license can only be suspended after a criminal conviction.
- 2. **ALR/Immediate Hardship License.** A hardship license (e.g., for employment) can be obtained for the duration of the suspension period, with no mandatory "hard" suspension period.
- 3. ALR/30-60 Day Mandatory Suspension. The license suspension period is typically 90 days, but a hardship license can be obtained after a full or "hard" suspension period of 30-60 days. However, there is a short period after the DUI arrest when the DUI offender has a temporary license so that transportation arrangements can be made.
- 4. **ALR/90+ Day Mandatory Suspension.** A "hard" suspension period of at least 90 days is prescribed.

The above categorization of each state (as of January 1996) is shown on the map in Figure 1-1.

#### 1.2 The Benefits of Administrative License Revocation

This study accepts from the existing literature the proposition that ALR is an effective penalty. Although as with all social policy, it is only partially effective, and the literature vouches for the fact that it accomplishes important improvements in safety at reasonable direct cost. The accomplishments of ALR include: incapacitation of the dangerous drivers represented by the offenders; their reform through mandated treatment and education programs; and deterrence of others, who see the consequences of apprehension for DUI increased in certainty and swiftness with ALR.

Substantial research testifies to the fact that revoked offenders experience reduced crashes and violations. Although the accumulation of any such incidents would be impossible if license revocation were completely effective, the reduction represents an important safety benefit. It appears that individuals driving in violation of revocation orders fear the consequences of apprehension, leading them to reduce their driving and to improve its safety. Furthermore, the improved safety can be perceived beyond the duration of the license revocation. This may perhaps be explained in terms of successful education and therapy, or it may reflect offenders' failure to obtain new

Table 1-1. Status of Administrative License Revocation by State (Source: IIHS, 1995)

	Ţ	<u> </u>		Administrative Per Se Hearing		]		
State	Defined	Existence of Administrative License Suspension(S)/ Revocation(R) (Effective Date)	Term of Temporary License	Request Within	Hold Within	Term of License Suspension for Positive Test Results	Hardship License Availability for 1st Offense	Length of Mandatory (Hard) Suspension
Uniform	0.10	yes/R	7/10/15 days	7/10/15 days	20 days	90 days	30 days	30 days
Vehicle Code	Percent	· ·						
Alabama	0.08 Percent	no						
Alaska	0.10 Percent	yes/R (10/17/83)	7 days	7 days		90 days	30 days	30 days
Arizona	0.10 Percent	yes/S (1/1/88)	15 days	15 days		90 days	30 days	30 days
Arkansas	0.10 Percent	no (new ALR law 7/1/96)						
California	0.08 Percent	yes/S (7/1/90)	45 days	45 days	45 days	4 months	30 days	30 days
Colorado	0.10 Percent	yes/R (7/1/83)	7 days	7 days	60 days	3 months	No hardship license	3 months
Connecticut	0.10 Percent	yes/S (1/1/90)	35 days	7 days	35 days	90 days	Immediate availability	No mandatory suspension
Delaware	0.10 Percent	yes/R (2/18/83)	15 days	15 days	30 days to schedule	3 months	No hardship license	3 months
District of Columbia	0.10 Percent	yes/S (1955)	5 days	5 days		2-30 days (at discretion of director)	Immediate availability	No mandatory suspension
Florida	0.08 Percent	yes/S (10/1/90)	7 days	10 days	30 days	6 months	30 days	30 days
Georgia	0.10 Percent	yes/S (7/1/94)	30 days	10 days	30 days	1 year	Immediate availability <sup>2</sup>	No mandatory suspension
Hawaii	0.08 Percent	yes/R (7/1/91)	30 days	written review. automatic; response within 8 hearing: if requested within 5 days of r scheduled within 25 day or if requested within 60 days of scheduled within 30 days	days of arrest eview, must be s of arrest arrest, must be	3 months	30 days	30 days
Idaho	0.10 Percent	yes/S (7/1/94)	30 days	7 days	20 days	90 days	30 days	30 days
Illinois	0.10	yes/S (1/1/86)	45 days	anytime during suspension	30 days	3 months	Immediate	No mandatory
	Percent			period			availability	suspension

Table 1-1. Status of Administrative License Revocation by State (Source: IIHS, 1995)

				Administrative Per Se	Hearing			Length of Mandatory (Hard) Suspénsion
State	BAC Defined as Illegal Per Se	Existence of Administrative License Suspension(S)/ Revocation(R) (Effective Date)	Term of Temporary License	Request Within	Hold Within	Term of License Suspension for Positive Test Results	Hardship License Availability for 1st Offense	
Indiana	0.10 Percent	yes/S (9/1/83)	valid until hearing	N/A (hearing automatic)	20 days	180 days	30 days	30 days
lowa	0.10	yes/R (7/1/82)	20 days	30 days	45 days	180 days	30 days	30 days
Kansas	Percent 0.08 Percent	yes/S (7/1/88)	20 days	10 days	30 days	30 days	No hardship license	30 days
Kentucky	0.10 Percent	no						
Louisiana	0.10 Percent	yes/S (9/3/84)	30 days	10 days		90 days	30 days	30 days
Maine	0.08 Percent	yes/S (1/1/84)	none; taken after hearing	10 days	30 days	90 days	Immediate availability	No mandatory suspension
Maryland	0.10 Percent (10/1/95)	yes/S (1/1/90)	45 days	30 days	45 days	45 days	Immediate availability	No mandatory suspension
Massachusetts	0.08 Percent	yes/S (6/27/94)	no temporary license	immediate (10 days)	immediate (10 days)	90 days	No hardship license	90 days
Michigan	0.10 Percent	no						
Minnesota	0.10 Percent	yes/R (9/1/78)	7 days	written review: any time during revocation period judicial hearing: 30 days (review and hearings are independent procedures)	15 days 60 days	90 days	15 days	15 days
Mississippi	0.10 Percent	yes/S (7/1/83)	30 days	30 days	30 days	90 days	30 days	30 days
Missouri	0.10 Percent	yes/R (9/28/83)	15 days	15 days	30 days	90 days	30 days	30 days
Montana	0.10 Percent	no						
Nebraska	0.10 Percent	yes/R (1/1/93)	30 days	10 days	20 days	90 days	30 days <sup>2</sup>	30 days
Nevada	0.10 Percent	yes/R (7/1/83)	7 days	any time during revocation period	15 days	90 days	45 days	45 days

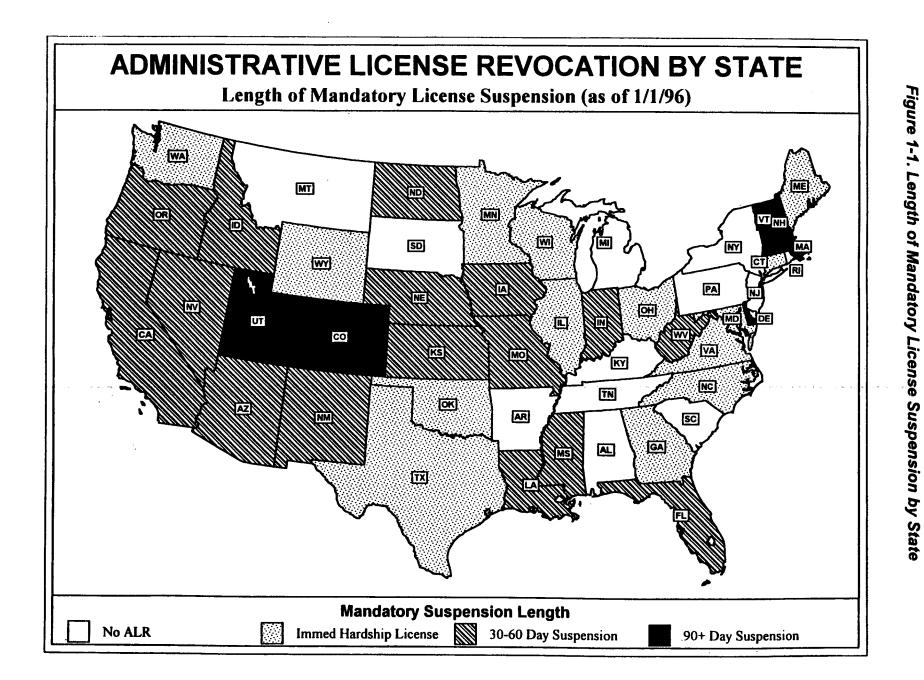
Table 1-1. Status of Administrative License Revocation by State (Source: IIHS, 1995)

				Administrative Per Se I	Hearing			<del>                                     </del>
State	BAC Defined as Illegal Per Se	Existence of Administrative License Suspension(S)/ Revocation(R) (Effective Date)	Term of Temporary License	Request Within	Hold Within	Term of License Suspension for Positive Test Results	Hardship License Availability for 1st Offense	Length of Mandatory (Hard) Suspension
New	0.08	yes/S (7/13/92)	30 days	30 days	20 days	6 months	No hardship	6 months
Hampshire	Percent	*		•			license	V 11011110
New Jersey	0.10 Percent	no		<del></del>				·
New Mexico	0.08 Percent	yes/R (7/1/84)	20 days	10 days	90 days	90 days	30 days	30 days
New York	0.10 Percent	no		<del></del>		<del></del>		
North Carolina	0.08 Percent	yes/R (10/1/83)	no temporary license	choice of magistrate or judic magistrate held within 3 days judicial held within 5 days of	of request;	10 days	No hardship license	10 days
North Dakota	0.10 Percent	yes/S (7/1/83)	25 days	10 days	25 days	91 days	30 days	30 days
Ohio	0.10 Percent	yes/S (7/1/93)	15 days	15 days	30 days	90 days	15 days <sup>2</sup>	15 days
Oklahoma	0.10 Percent	yes/R (4/1/83)	30 days	15 days		180 days	Immediate availability	No mandatory suspension
Oregon	0.08 Percent	yes/S (7/1/84)	30 days	10 days	30 days	90 days	30 days	30 days
Pennsylvania	0.10 Percent	no						
Rhode Island	0.10 Percent	no						
South Carolina	none <sup>1</sup>	no		*****				
South Dakota	0.10 Percent	no	+					
Tennessee	0.10 Percent	no						
Texas	0.10 Percent	yes/S (1/1/95)	no temporary license	15 days	11 days	60 days	Immediate availability	No mandatory suspension
Utah	0.08 Percent	yes/S (8/1/83)	29 days	10 days	30 days	90 days	No hardship license	90 days
Vermont	0.08 Percent	yes/S (12/1/89)	license not taken	7 days	30 days	90 days	No hardship license	90 days
Virginia	0.08 Percent	yes/S (1/1/95)	no temporary license	immediate (in lieu of bail)	immediate (in lieu of bail)	7 days	No hardship license	7 days

Table 1-1. Status of Administrative License Revocation by State (Source: IIHS, 1995)

	T			Administrative Per S	e Hearing			
State	BAC Defined as Illegal Per Se	Existence of Administrative License Suspension(S)/ Revocation(R) (Effective Date)	Term of Temporary License	Request Within	Hold Within	Term of License Suspension for Positive Test Results	Hardship License Availability for 1st Offense	Length of Mandatory (Hard) Suspension
Washington	0.10 Percent	yes/R (1994) (only for multiple offenders)	marked license for 60 days	30 days	60 days from notice of arrest		ense for 5 years for ffenders	No mandatory suspension
West Virginia	0.10 Percent	yes/R (9/1/81)	prescribed by DMV (30 days)	10 days	20 days	6 months	30 days <sup>2</sup>	30 days
Wisconsin	0.10 Percent	yes/R (1/1/88)	30 days	10 days	30 days	6 months	Immediate availability	No mandatory suspension
Wyoming	0.10 Percent	yes/S (7/1/85)	30 days	20 days	45 days	90 days	Immediate availability	No mandatory suspension

DUI/DWI laws are not per se laws. A BAC of 0.10 percent is evidence of alcohol impairment but is not illegal per se.
 With participation in ignition interlock program.



licenses and thus a continuation of the reduced mileage and greater prudence noted during the revocation. Thus, although compliance with license revocation is only partial, it produces important safety benefits by modifying the behavior of DUI offenders.

Moreover, there are benefits in terms of increased safety in the driving of persons other than the known offenders. ALR is associated with decreased rates of alcohol-involved crashes sufficiently large that they cannot be explained in terms of changes in the violators alone. The decrease is understood in terms of general deterrence, a response to the perceived swiftness and certainty (as well as severity) of the deterrent threat.

But all policies have costs, which have to be weighed against their benefits. The state attempts to pass on the direct financial costs of DUI measures to the violators as part of the remedial action, but a social cost is incurred regardless of who pays, and it must be reckoned with. As noted previously, ALR appears to be a relatively cheap policy from the viewpoint of direct costs. However, one of the reasons offered for not adopting this proved safety measure is the indirect cost of taking an offender's license in the form of potential loss of income or employment. Although this cost impinges most directly on the offender, indirectly it involves his (presumably innocent) dependents, and possibly the public treasury to the extent that the violator's reduction in income impoverishes the dependents. If we take the license, it is claimed, we take the job and we end up paying the offender's salary from the public treasury.

This is not a trivial objection. If income and employment losses are common, the benefits of ALR must be demonstrably greater in order to justify the system. If the balance is in question, various policy options other than repealing ALR may be considered. For example, if job loss is related to the length of revocation, the mandatory period could be made short enough to avoid job consequences but long enough to be perceived as punitive. Another possible modification is to allow hardship licenses permitting driving on work-related trips on certain roads at certain times. Other possibilities such as mandating installation of breath-alcohol interlocks in the vehicles driven by the offender also come to mind. The aim of this research was to explore the employment and income consequences of ALR under laws differing in the length of revocation and in the availability of hardship licenses.

#### 1.3 The Prior Literature

There has been considerable prior work concerning this topic, although limited to case studies and briefly reported. Known studies concerning the employment and income effects of license revocation include: one in Mississippi (Wells-Parker and Cosby, 1987); one in New Mexico and Arizona (Ross and Gonzales, 1988); one in California (Peck, Sadler and Perrine, 1986); one in Delaware (Johnson, 1986); and one in Australia (Robinson, n.d.)

This prior literature has found that income and employment losses are experienced by only a small minority of persons losing their licenses as a consequence of DUI. (This is true despite the fact that dependence on the private car is quite extensive, especially for those workers like traveling salespeople or construction workers, who perform their work at disparate locations and who need to haul tools and supplies.) The fact begs for an explanation. Among the reasons that can be cited are: (1) some important fraction of workers do not commute, but earn their income by working at home or walking to work; (2) some are able to substitute alternative means of getting to work, such as car pooling or using public transportation; and (3) some evade the remedial action by driving without licenses. The current study investigated the extent to which these alternatives are realized.

# 1.4 Project Objectives

Despite the evidence in favor of administrative license revocation for DUI offenders, as of January 1996, there are still 12 states that do not have ALR laws. One reason that has been given for the reluctance of legislators to impose license suspension/revocation is that the denial of driving privileges is seen as producing severe economic hardship (namely the inability of the DUI offender to go to work) for the offenders and their families. Although the research in Delaware, New Mexico, Arizona, and Mississippi indicates that the effect of ALR on employment is minimal, the research is thin in this area. In the absence of quantitative data regarding the actual effects of ALR on employment, it is impossible to know whether the perceived draconian effect on employment actually occurs for an important fraction of DUI offenders.

Therefore, in order to examine the actual effect of ALR on the employment of DUI offenders and the victims of crashes associated with these offenders, NHTSA funded the current research project. The results of the research provide NHTSA with information to present to states that are considering enacting ALR laws.

The three main objectives of this research project were to:

- 1. Determine the impact of short-term (30-45 days) administrative license suspension/revocation on the employment and income of first offenders.
- 2. Determine the impact of longer-term (6 months to a year) administrative license suspension/revocation on the employment and income of multiple offenders.
- 3. Determine the effects of alcohol-related crashes and injuries on the employment of other crash-involved persons (i.e., innocent drivers, passengers, and pedestrians).

## 2.0 RESEARCH APPROACH AND METHODOLOGY

The study was designed to investigate the consequences of license revocation by choosing jurisdictions representing four legal categories. In one jurisdiction, Delaware, administrative license revocation for 90 days is automatic for persons arrested for DUI and failing the mandated breath test. In a second, California, although a suspension period of 120 days is prescribed, hardship licenses are available after 30 days. In the third, Maryland, a DUI offender has a formal suspension period of 45 days, but can receive a hardship license without any period of "hard" suspension. The fourth case, Pennsylvania, represents non-ALR jurisdictions. In Pennsylvania, there are no mandated consequences for failing a breath test at the scene of an arrest; it is not until a suspect is convicted that the possibility of license revocation arises. These four cases represent the range of license revocation provisions generally used for DUI.

In order to appreciate any impacts that may be found, the study was designed to compare employment and income effects of license revocation on DUI offenders with the employment and income effects of injury-producing DUI crashes on victims, pedestrians, non-impaired drivers, and their passengers.

# 2.1 Sampling and Instruments

A problem with comparing different jurisdictions is that the law is not the only thing that differentiates them. One can expect differences in climate, demography, the economy and, most generally, culture. A problem arises in interpreting whether differences found between the jurisdictions are caused by the variable according to which they were selected.

The approach used to control for these factors was to select jurisdictions with different laws but similar socio-demographics and proximate locations. Three of the states were contiguous: Pennsylvania (without ALR), Maryland (with immediate hardship licenses), and Delaware (with 90 days "hard" suspension). From each of these states, one county was selected on the basis of physical and social similarity to the others. The counties were Chester, Anne Arundel, and New Castle, respectively.

These jurisdictions did not provide an example of a state making hardship licenses available after 30 days. Indeed, there are none contiguous to the three mentioned above. Because of its excellent statistical system and cooperative officials, California was selected as a comparison state. It lacks contiguity, but Marin County is socio-demographically similar to the other sample counties. Table 2-1 presents selected demographic data for the study counties.

Table 2-1. Demographics for Four Study Sites (1990 Census Data)

	Chester Co., PA	Anne Arundel Co., MD	Marin Co., CA	New Castle Co., DE
Population	376,396	427,239	230,096	441,946
White	344,931 (92%)	365,953 (86%)	204,128 (89%)	355,399 (80%)
Black	23,995 (6%)	50,525 (12%)	8,172 (6%)	72,834 (16%)
American	510 (0.1%)	1,292 (0.3%)	789 (0.3%)	760 (0.2%)
Indian	`	,	` '	
Asian	4,070 (1%)	7,675 (2%)	9,442 (4%)	7,048 (2%)
Hispanic (any	8,565 (2%)	6,815 (2%)	17,930 (8%)	11,804 (3%)
race)	Í			
Age %				
≤ 17	24.9%	24.6%	19.1%	24%
18-24	10%	10.9%	7.6%	12.1%
25-44	34%	35.5%	37.8%	33.7%
45-64	20.1%	20.1%	23.3%	18.9%
65+	10.9%	8.8%	12.3%	11.4%
Males per 100	96.1	101.4	98.2	93.8
Females				
Persons/Household	2.73	2.76	2.33	2.61
Education	_			
% High school	84.9%	81.1%	91.9%	80.6%
grad or higher				
% Bachelors	34.7%	24.6%	44.0%	25.2%
degree				
or higher				
Median annual	\$52,325	\$49,706	\$59,157	\$45,216
family income				
Average #	1.9	2.0	1.8	1.7
vehicles/household				
Average commute	23.9 min.	25.9 min.	28,4 min.	20.3 min.
time (min. to work)				
Unemployment rate	4.6%	5.0%	4.0%	6.2%
(%)				
Employment by				
<u>industry</u>				
% Agriculture,	3.6%	1.1%	1.9%	1.1%
forestry, fishing				
% Manufacturing	19.7%	10.5%	7.6%	19.6%
% Wholesale/	20.1%	21.9%	19.3%	18.6%
retail trade		á á		
% Finance,	8.5%	6.5%	12.9%	11.7%
insurance, real		, I		
estate				<b>A A A A A A A B A B B B B B B B B B B</b>
% Health	8.4%	5.9%	9.2%	8.0%
services		40.00		
% Public	1.8%	13.8%	3.6%	3,3%
administration		· 1		

<sup>\*</sup> Source: US Bureau of the Census, County and City Data Book: 1994, Washington, DC

Prior experience with similar research suggested that random sampling from state records of the DUI population would not succeed in reaching DUI offenders. Therefore, the methodology used in Ross and Gonzales (1988) of requesting subjects from DUI treatment and education programs was followed. Both in the past and for this project, administering questionnaires in these programs resulted in excellent cooperation. The quid pro quo that was offered was a discussion of the expectations and previous findings concerning the research topic.

The population of DUI arrestees is further not statistically representative of persons who drink and drive illegally. The arrest rate for DUI is estimated at a range of from one in 500 to one in 2,000 occasions, and very dangerous drivers may take the road for many years without encountering police. The size of the community, the staffing of police departments, and the priority given to DUI patrol are some of the variables that affect this probability. Furthermore, police may systematically release greater proportions of some kinds of offenders whom they meet—for instance, middle-class, respectable, well-mannered persons. Women may possibly find greater leniency in some interactions with law enforcement than men. Other circumstances such as time of day, type of road, and type of vehicle driven may affect police suspiciousness and thus the likelihood of an arrest for DUI.

To the extent that these mandated programs represent DUIs, the method is successful in obtaining representative or complete population samples. Of course, some proportion of those convicted do not participate in the mandated programs, either leaving the area or simply accepting that an arrest warrant may be issued. Such persons probably cannot be reached by any systematic method, and are likely to have a low cooperation rate if actually found.

It was concluded that this method of locating subjects would suffice for the present study. In each of the counties, all programs providing services to DUI offenders were located and requested to cooperate in allowing their classes/treatment groups to complete a paper-and-pencil questionnaire.

A questionnaire guided by these expectations was designed for classroom administration. There were five successive versions, as pretesting in New Mexico and Pennsylvania indicated what was necessary for clear communication. Furthermore, once it was discovered that both California and Pennsylvania institutions offered classes for Spanish-speaking people, the questionnaire was translated into Spanish for use with these special classes and anyone else who indicated a preference. (Unfortunately, the Hispanic sample, largely Mexican immigrants, frequently proved to be illiterate in Spanish as well as English, and it was not possible to complete a planned analysis of them.) Appendix A contains the questionnaire administered in the three ALR states. (The Pennsylvania questionnaire deleted questions that addressed ALR.) Appendix B contains the Spanish version of the ALR questionnaire.

# 2.2 The Victim Survey

A comparison group of "victims" was selected, defined as people other than the impaired drivers involved in alcohol-related injury crashes in the same counties. These were largely unimpaired drivers of other cars, along with some passengers and pedestrians.

Victims thus defined are a difficult group to find and study. In California and Delaware, state records were used to identify qualifying crashes in the respective counties, from about the time that the DUI offenders were apprehended. For reasons of confidentiality, state officials hired clerks to identify appropriate persons, and send them questionnaires based on items from the DUI instrument, with the request to return these by mail to the contractor. Stamped return envelopes were provided for this purpose. It was assumed that victims had a story they would want to tell and that endorsement by the state would produce high response rates, but a surprisingly low response rate was obtained--32 percent of 189 individuals in Delaware and 19 percent of 192 in California. A victim population could not be identified in Maryland.

In Pennsylvania, the state proved unable to provide appropriate files, so DUI arrest records from the District Attorney's Office in Chester County were scanned to locate those that involved crashes. The crash reports were then read to extract the names and addresses of third parties ("victims") involved in these crashes, to whom questionnaires were sent.

Since it was not expected that important differences would be found among victims related to the ALR laws, the analysis was performed largely on the basis of the combined samples from all states. Table 2-2 presents summary Victim Survey information for the three states in which surveys were distributed. It is important to note that alcohol-related crash victims represent a small percent of all persons injured in alcohol-involved crashes. Appendix C contains the Victim Survey and the letters of cooperation that were enclosed by the agency noted in Table 2-2 for California, Delaware, and Pennsylvania.

# 2.3 DUI Offender Survey Administration

After the four representative counties were selected as described above, letters were sent to the NHTSA Regional Offices in Region III (PA, DE, and MD) and Region IX (CA), explaining the project and soliciting their cooperation. Next, State Governor's Highway Safety/DUI Representatives in each of the four states were contacted by mail to explain the project and also solicit their cooperation.

Once all clearances were obtained at the state level, the organizations that run the first-offender DUI schools and repeat-offender DUI treatment programs in each of the four selected counties were contacted by telephone. They were asked whether they would be willing to incorporate the distribution and completion of DUI Offender Surveys into their

Table 2-2. DUI Crash Victim Survey Information

	California	Delaware	Pennsylvania
Agency Assisting in Survey Distribution	Department of Motor Vehicles Sacramento, CA	Delaware State Police Dover, DE	Chester County District Attorney's Office West Chester, PA
Time frame for crash selection	5/93-4/94	4/93-3/94	4/93-4/94
County of crash	Marin and Sonoma Counties, CA	New Castle County, DE	Chester County, PA
Victim selection criteria	≥ 16 years old, CA resident, non-fatal injury, not "driving under influence"	≥ 16 years old, non-fatal injury, not "driving under influence"	≥ 16 years old, non-fatal injury, "victim" on crash investigation form
Total surveys mailed (date)	200 (2/14/95)	201 (2/20/95)	197 (4/20/95)
Number surveys returned undeliverable	8	12	15
Number surveys that presumably reached victims	192	189	182
Total surveys returned to contractor	36	61	58
Total surveys used in analysis	34	58	54
Last date surveys received by contractor	5/16/95	5/8/95	5/19/95
% delivered surveys returned	19%	32%	32%
% surveys used in analysis	18%	31%	30%
Total crashes in time period during which crashes selected	10,576 (1993) 3,268 (Marin) 7,308 (Sonoma)	11,735	N/A
Total alcohol-involved crashes in applicable time period	659 (1993) 180 (Marin) 479 (Sonoma)	570	N/A
Total injured in alcohol- involved crashes	1,002 (1993) 257 (Marin) 745 (Sonoma)	420	N/A
Total crash victims in applicable time period	200 (1993) 48 (Marin) 152 (Sonoma)	201	N/A
Passengers in drunk driver's vehicle	80	14	N/A
Driver/occupant of non- drunk driver's vehicle	120	163	N/A
Pedestrians	0	2	N/A
Owners of parked cars	0	22	N/A

classroom activities. Letters were sent to each of these schools and treatment programs and in-person visits were made to each facility.

DUI schools/treatment programs in all four counties agreed to participate in the datacollection activities. Table 2-3 presents complete information on the seven participating programs summarized below:

- Chester County, Pennsylvania One facility in the county runs both first offender and multiple offender programs.
- Anne Arundel County, Maryland Three facilities participated, covering both first and multiple offenders.
- Marin County, California One facility in the county offers both first offender and multiple offender programs.
- New Castle County, Delaware One first-offender DUI school (serving New Castle County only) and one multiple-offender DUI program (serving all of Delaware) participated.

Letters of permission were obtained from all seven facilities before data-collection activities were initiated. Calls were then made to each site to arrange the most convenient times for visits to be made to complete the DUI Offender Survey. A complete schedule of visits was maintained over the course of data collection.

The project goal was 200 interviews in each county—150 with first offenders and 50 with multiple offenders. It was estimated that this distribution would mirror the split between first offenders and multiple offenders among those convicted of DUI offenses.

The following instructions were used to introduce the survey to DUI offenders and explain how to complete the survey.

Good evening/morning, my name is and we are working with (fill in name of organization where surveys being conducted) to determine how your recent DUI arrest has affected your employment. By recent DUI arrest, we mean the one that has resulted in your attendance at this program. We are comparing the effects of losing your license at the time of the DUI arrest with losing your license months later after judicial proceedings are complete. Some states already have administrative license revocation (or suspension), where the police officer can take your license at the time of the DUI arrest, but some states do not yet have these DUI laws. (Explain the situation in the state where the survey is being conducted. If this is PA, point out that some questions on page 7 concerning ALR have been omitted in their survey version, since PA does not have ALR.)

Table 2-3. DUI School/Treatment Center Operators Serving New Castle County, DE

Organization	Classes/Schools	Type of Program	Schedule/ Length of Class	Hours of Education	Size of Class	Time Between Arrest Date and When People Begin Class	Notes	
Delaware Safety Council, Inc. 3836 Kennett Pike Powder Mill Square Wilmington, DE 19807 (302) 654-7786  Mr. Harry Roosevelt, Director  Mr. Christopher Massaferi, DUI Coordinator	Floyd Hudson State Service Center 501 Ogletown Road (Rte. 273) Newark, DE 19711	First Offender	Wed/Thur. 7-9 pm (4 consecutive weeks) (sessions offered all year)	16 hours DUI education; first offenders must complete within 4 weeks	18 to 25 per class	1 1/2 to 3 months on average, sometimes 6 months	Received letter of permission dated 1/7/94.	
Fax: (302) 654-4617	Claymont Education Campus 3401 Green Street Claymont; DE 19703		Tue./Thur. 7-9 pm Sat 8 am-12 pm (4 consecutive weeks) (sessions offered all year)					
Delaware Drinking Driver Program, Div. of Thresholds 1661 South DuPont Highway Dover, DE 19901 (302) 678-0682  Mr. Walter A. McCann, President  Mr. Bruce Lorenz, Director  Fax: (302) 678-1611 (call above number before faxing)	Delaware Drinking Driver Program, New Castle County Woodmill Corporate Center 5193 W. Woodmill Drive, Suite 28 Willmington, DE 19808 (302) 996-5450	Individual/Group Counseling  · multiple offenders · chronic offenders · >0.20% BAC first- time offenders	MonFri. 6-7:30 pm/ 7:30-9 pm (Also daytime and Sat. groups) 2 1-hr. individual sessions, followed by 8 1.5-hr. group sessions (sessions offered all year)	25 hours of counseling over 4 1/2 months	One-on-one groups up to 15 (average 10); 4-5 groups could meet on one day	1 1/2 to 3 months on average	Received letter of permission dated 6/20/94.	

Table 2-3. DUI School/Treatment Center Operators Serving Anne Arundel County, MD

Organization	Classes/Schools	Type of Program	Schedule/ Length of Class	Hours of Education	Size of Class	Time Between Arrest Date and When People Begin Class	Notes
Alcohol and Drug Recovery, Ltd. (ADR) 107 Ridgely Ave., Suite 15 Annapolis, MD 21401 (410) 280-2270 Mr. Barry Wilen, President Fax: (410) 280-2322	ADR 5 N. Crain Highway Glen Burnie, MD 21061 (410) 768-3526  Jim Siegle, Senior Counselor  ADR 33 Parole Plaza, Suite 205 Annapolis, MD 21401 (410) 266-8635  Charlene Huebl, Senior Counselor	First Offender, Repeat Offender	(PI Education) Tues: 7:15 pm & 8:30 pm Wed: 10:15 am (MVA class) Sat. 9-11 am (PII Group) Mon. 6 pm & 7:15 pm Wed: 11:30 am, 6 pm & 7:15 pm  (PI Education) Tues: 7:30 pm (MVA class) Sat. 9 am (PII Group) Tues: 6:15 pm Thurs: 6:15 pm	12 hours PI Education/ MVA classes  (first offenders)  14 hours PII group counseling (repeat offenders)	6 to 15 per class for PI 12-wk education/ MVA classes Max of 10 for PII group counseling	3 to 6 months	Received letter of permission dated 5/26/94:
Recovery Center of Annapolis 2525 Riva Road, Suite 107 Annapolis, MD 21401 (410) 224-3336 Dr. John McClanahan, Clinical Director Fax: (410) 224-2636	Recovery Center of Annapolis 2525 Riva Road, Suite 107 Annapolis, MD 21401	First Offender, Repeat Offender, Education Classes (mixed)	7:30 pm  Mon. 9:30-11:30 am (6-week cycle)  Mon. 6:30-8:30 pm (6-week cycle)	12 hours	10 per class 20 per class	3 to 6 months	Received letter of permission dated 5/28/94.

Table 2-3. DUI School/Treatment Center Operators Serving Anne Arundel County, MD (Continued)

Organization	Classes/Schools	Type of Program	Schedule/ Length of Class	Hours of Education	Size of Class	Time Between Arrest Date and When People Begin Class	Notes
Health Management Enterprises, Inc. 31 Old Solomon's Island Rd. Suite 102 Annapolis, MD 21401 (410) 266-0038 Fax: (410) 974-6833 Mr. Stephen Buchness, Clinical Director	Health Management Enterprises, Inc. 31 Old Solomon's Island Rd. Suite 102 Annapolis, MD 21401	First Offender	DWI School 1 hr /wk (12 consecutive weeks)  Mon. 6:30-7:30 pm Sat. 10-11 am	12 hours	15-20 per class/group	3 to 6 months	Received faxed letter of permission dated 7/12/94
Mr. Ed Watkins/Dan Nasel, Instructors		Multiple Offender	intermediate Treatment 1.5 hrs, twice a week Tues./Thurs. 5:30-7 pm				

Table 2-3. DUI School/Treatment Center Operators Serving Chester County, PA

Organization	Classes/Schools	Type of Program	Schedule/ Length of Class	Hours of Education	Size of Class	Time Between Arrest Date and When People Begin Class	Notes
COAD 930 E. Lancaster Avenue Exton, PA 19341 (610) 363-6164  Mr. Robert Esty, Executive Director  Mr. Frank Colantuno, Program Director  Fax: (610) 594-0278	COAD 930 E. Lancaster Avenue Exton, PA 19341 (610) 363-6164	First Offender	Mon. 10 am - 12:30 pm (5 consecutive weeks, 4 sessions per year)  Tue./Wed./Thur. 6 pm - 8:30 pm (5 consecutive weeks, 19 sessions per year)  Sat. 9 am - 1:30 pm (3 consecutive weeks, 12 sessions per year)  Sun. 10 am - 2 pm Hispanic class (15-20 people) (3 consecutive weeks, 5 sessions per year)	12 1/2 hours	25 per class	10-20 weeks; closer to 10 weeks 75% attend presently with license already suspended. Will be trying to schedule class pretrial in 1994 so may be reduced to 60 days.	Received letter of permission dated 3/1/94.
		Repeat Offender	Mon. 6 pm - 8:30 pm (6 consecutive weeks, 6 sessions per year)	15 hours	28 per class	8-10 months  Almost all offenders have lost license by time class starts.	

Table 2-3. DUI School/Treatment Center Operators Serving Marin County, CA

Organization	Classes/Schools	Type of Program	Schedule/ Length of Class	Hours of Education	Size of Class	Time Between Arrest Date and When People Begin Class	Notes
NP/Marin County Resource 375 Dougherty Larkspur, CA 94939 (415) 924-8500 Mr. Martin Weinstein, Executive Director	Marin County Drinking Driver Program 118 Alto Street San Rafael, CA 94901 (415) 453-9980 Dr. Joan Driscoll, Program Director Fax: (415) 453-6137	First Offender	MonFri. 6 pm - 10 pm (15 consecutive weeks, 2-hr session/wk.)  Approximately 4- 9 groups ongoing in a given week.	12 hours education; 18 hours of group sessions	30-35 per class for education; 15 per group for treatment	Unable to determine; court does not provide arrest date  21 days from conviction to program registration	Received letter of permission dated 4/15/94.
		Multiple Offender	Mon - Sat. 10 am - 10 pm (18 months; 2-hr. education sessions, 80-min. group sessions, 1-hr. re-entry sessions)  Many groups ongoing in a given week.	12 hours education; 52 hours of group sessions; 6 hours of re-entry counseling	30-35 per class for education; 15 per group for treatment	3 to 6 months	

You are part of a four-state study, however, this is the only county/school in your state where we are conducting interviews. Therefore, your input and opinions are very important to us. The results of this survey will be used to make recommendations for improvements to DUI laws. This survey will take about 10-20 minutes for you to complete. It is completely anonymous. We are not asking for your name, driver license number, employer names, or any other identifying information. We hope you will answer each question completely and honestly. Please feel free to ask me any questions that you may have while you are completing the survey.

I will now hand out the survey. Please complete page 1 as soon as you receive the questionnaire. I want to go over page 2 before you continue on with that page. (Hand out the survey, pencils, and something to write against, if necessary.)

Please turn to page 2, but don't forget to finish page 1 if you have not had a chance to do so. Look at the monthly calendar blocks in the middle of page 2. We would like you to fill in a number from 1-7 for each month from January 1992 to the present (e.g., June 1994) to indicate what you were doing that month. If you were employed at all in a month. enter a "1" in that month's block. Employment is considered any activity from which you received income (cash or check), including full-time employment, part-time employment, self employment, and military service. If you were going to school in a month, enter a "2". If you were working and going to school in a particular month, enter both a "1" and a "2" in that month block. The rest of the codes (3-7) are shown above the Code "3" would be used for any months when you were calendar. unemployed, during which you were searching for a job. Code "4" denotes months where you were not working of your own choice.

Now look at those months from January 1992 to the present where you entered a "1". If there were **no** months with "1s" (i.e., you did not work at all from January 1992 to the present), you will skip to question 21 on page 6. Now think about **how many jobs you have had since January 1992** (including the one you were working at the beginning of 1992). If you work for a temp agency and have had many assignments since 1992, this still counts as one job. Also, if you are self-employed (e.g., as a carpenter, electrician, plumber, landscaper, etc.) and have worked for many people since 1992, this still counts as one job. How many people have had more than two jobs since January 1992? (Hand out additional copies of page 4 to those with more than 2 jobs.)

On pages 3 and 4 (and any additional pages that I have handed out), we would like you to provide additional information on all the jobs

represented by the "1s" in the calendar you just filled out. Use one page for each job. Page 3 is for your current or most recent job. Page 4 (the buff colored page) would be used for your next most recent job, if you have had two or more jobs since January 1992. If you have only had one job since January 1992, you will skip the buff colored page and go on to page 5. If you held two jobs at the same time (e.g., two part-time jobs), use page 3 for one job and page 4 for the other. It is important that you complete an employment page for all jobs that correspond to the "1s" that you entered in the activity calendar on page 2.

Remember to go back and complete page 1 if you have not already done so. Note that some questions in the survey may be skipped, based on your response to prior questions. For example, on page 1, question 6 asks whether this was your first DUI arrest. If you answer "Yes" to this question, you are instructed to skip to question 9 (that is, you don't have to answer questions 7 and 8). Please ask me any questions that you may have while completing the survey. There are no "stupid" questions. We have tried to make the survey as clear as possible, but I am sure you will have questions, especially based on unique circumstances that we have not thought of. The reason I am here is to answer questions so that you are able to complete the survey as accurately as possible. Our research is only as good as the information you provide.

We thank you for your participation. We assure you that your input will be used to recommend improvements to DUI laws, with the intention of saving lives.

A total of 73 visits were made to the facilities shown in Table 2-3 in order to complete the desired number of interviews. Data collection spanned the period from June 1, 1994 to October 6, 1994. Table 2-4 presents the schedule followed for these visits, including the number of first offender (FO) and multiple offender (MO) surveys completed during each session. The number of completed surveys is less than the number of surveys returned by participants since incomplete surveys were not kept.

The completed offender surveys are tabulated as follows (including the Hispanic surveys):

State	Total Surveys Returned by Participants	First Offender DUI Complete	Multiple Offender DUI Complete	Total DUI Complete
Delaware	232	146	50	196
Maryland	192	96	39	135
Pennsylvania	272	188	66	254
California	340	193	96	289
Total	1,036	623	251	874

Table 2-4. DUI Offender Survey Administration Schedule

Visit	Date of Survey	Day of Week	Time of Class	State	Location	FO / MO	Total Surveys	Total DUI Complete	FO DUI Complete	MO DUI Complete
1	6/1/94	Wed	6:00 pm	PA	COAD Exton	FO	31	30	30	
2	6/18/94	Sat	9:00 am	PA	COAD Exton	FO	28	27	27	
3	6/23/94	Thu	7:00 pm	DE	DSC Claymont	FO	11	10	10	
4	6/28/94	Tue	6:00 pm	PA	COAD Exton	FO.	29	25	23	2
5	6/30/94	Thu	6:00 pm	PA	COAD Exton	FO	34	33	32	1
6	7/11/94	Mon	9:30 am	MD	RC Annapolis	FO/MO	15	4	3	1
7	7/11/94	Mon	6:30 pm	MD	RC Annapolis	FO/MO	19	10	5	5
8	7/12/94	Tue	6:15 pm	MD	ADR Annapolis	МО	7	5	3	2
9	7/12/94	Tue	7:30 pm	MD	ADR Annapolis	FO	15	10	9	1
10	7/13/94	Wed	10:15 am	MD	ADR Glen Burnie	FO	4	3	3	
11	7/13/94	Wed	11:30 am	MD	ADR Glen Burnle	MO	8	7	4	3
12	7/13/94	Wed	6:00 pm	MD	ADR Glen Burnie	МО	, 11	8	4	4
13	7/13/94	Wed	7:15 pm	MD	ADR Glen Burnie	MO	10	6	3	3
14	7/14/94	Thu	6:15 pm	MD	ADR Annapolis	МО	10	5	1	4
15	7/14/94	Thu	7:00 pm	DE	DSC Newark	FO	22	18	18	
16	7/14/94	Thu	7:30 pm	MD	ADR Annapolis	МО	4	3	1	2
17	7/16/94	Sat	8:00 am	DE	DSC Claymont	FO	22	19	19	
18	7/16/94	Sat	9:00 am	MD	ADR Glen Burnie	FO	13	13	13	
19	7/16/94	Sat	10:30 am	MD	ADR Annapolis	FO	4	4	4	
20	7/18/94	Mon	6:00 pm	MD	ADR Glen Burnie	МО	11	4	4	
21	7/18/94	Mon	7:15 pm	MD	ADR Glen Burnie	МО	2	2	1	1
22	7/19/94	Tue	5:30 pm	MD	HME Annapolis	МО	9	9	8	1
23	7/19/94	Tue	6:00 pm	DE	DDDP Wilmington	MO	14	12	11	1
24	7/19/94	Tue	7:15 pm	MD	ADR Glen Burnie	FO	3	0		
25	7/19/94	Tue	8:30 pm	MD	ADR Glen Burnie	FO	6	4	2	2
26	7/21/94	Thu	7:00 pm	DE	DSC Claymont	FO	9	9	9	
27	7/22/94	Fri	6:30 pm	MD	RC Annapolis	FO	5	4	1	3
28	7/23/94	Sat	10:00 am	MD	HME Annapolis	FO	. 7	5	4	1
29	7/25/94	Mon	6:00 pm	CA	MCD San Rafael	МО	11	6		.6
30	7/25/94	Mon	6:00 pm	CA	MCD San Rafael	FO	13	13	12	1

Table 2-4. DUI Offender Survey Administration Schedule

Visit	Date of Survey	Day of Week	Time of Class	State	Location	FO/MO	Total Surveys	Total DUI Complete	FO DUI Complete	MO DUI Complete
31	7/25/94	Mon	6:00 pm	CA	MCD San Rafael	FO / Education	22	21	14	7
32	7/25/94	Mon	6:00 pm	MD	HME Annapolis	МО	5	5	3	2
33	7/25/94	Mon	6:30 pm	MD	HME Annapolis	FO	13	13	11	2
34	7/25/94	Mon	7:00 pm	CA	MCD San Rafael	МО	11	9	,	9
35	7/26/94	Tue	10:00 am	CA	MCD San Rafael	MO	13	11		11
36	7/26/94	Tue	6:00 pm	CA	MCD San Rafael	FO	12	12	11	1
37	7/26/94	Tue	6:30 pm	CA	MCD San Rafael	FO	16	15	15	
38	7/26/94	Tue	7:00 pm	CA	MCD San Rafael	MO	12	6		6
39	7/27/94	Wed	4:00 pm	CA	MCD San Rafael	МО	12	9		9
40	7/27/94	Wed	6:00 pm	CA	MCD San Rafael	FO	11	10	10	
41	7/27/94	Wed	6:00 pm	CA	MCD San Rafael	MO / Education	20	19	12	7
42	7/27/94	Wed	6:00 pm	CA	MCD San Rafael	FO	11	11	11	
43	7/27/94	Wed	7:00 pm	CA	MCD San Rafael -	FO	11	9	9	
44	7/28/94	Thu	6:00 pm	CA	Hispanic MCD San Rafael	FO	8	6	6	
45	7/28/94	Thu	6:00 pm	CA	MCD San Rafael - Hispanic	MO	14	13		13
46	7/28/94	Thụ	6:00 pm	CA	MCD San Rafael - Vietnamese	FO/MO	3	1.	1	
47	7/29/94	Fri	10:00 am	CA	MCD San Rafael	MO	10	5		5
48	7/30/94	Sat	10:00 am	CA	MCD San Rafael - Hispanic	FO	11	11	10	1
49	8/2/94	Tue	6:00 pm	DE	DDDP Wilmington	MO	10	7		7
50	8/2/94	Tue	7:30 pm	DE	DDDP Wilmington	МО	15	9	9	
51	8/11/94	Thu	6:00 pm	DE	DDDP Wilmington	MO	11	10		10
52	8/11/94	Thu	7:00 pm	DE	DSC Newark	FO	21	19	19	
53	8/13/94	Sat	8:00 am	DE	DSC Claymont	FO	18	17	17	
54	8/16/94	Tue	6:00 pm	PA	COAD Exton	FO	33	33	33	
55	8/17/94	Wed	6:00 pm	DE	DDDP Wilmington	MO	10	9	3	6
56	8/18/94	Thu	6:00 pm	PA	COAD Exton	FO	24	22	22	
57	8/18/94	Thu	7:00 pm	DE	DSC Claymont	FO	9	8	8	
58	8/23/94	Tue	6:00 pm	DE	DDDP Wilmington	МО	15	10	4	6
59	8/29/94	Mon	10:00 am	PA	COAD Exton	FO	21	18	11	7

Visit	Date of Survey	Day of Week	Time of Class	State	Location	FO / MO	Total Surveys	Total DUI Complete	FO DUI Complete	MO DUI Complete
60	8/29/94	Mon	6:00 pm	PA	COAD Exton	МО	31	26		26
61	8/29/94	Mon	7:00 pm	PA	COAD Exton	MO	27	26		26
62	9/13/94	Tue	7:30 pm	DE	DDDP Wilmington	МО	13	11		11
63	9/15/94	Thu	7:00 pm	DE	DSC Claymont	FO	9	8	8	
64	9/17/94	Sat	8:00 am	DE	DSC Claymont	FO	13	11	11	
65	9/19/94	Mon	9:30 am	MD	RC Annapolis	FO/MO	11	11	9	2
66	9/22/94	Thu	7:30 pm	DE	DDDP Wilmington	MO	10	9		9
67	9/25/94	Sun	10:00 am	PA	COAD Exton - Hispanio	FO/MO	14	14	10	4
68	10/3/94	Mon	6:00 pm	CA	MCD San Rafael	FO-MO / Education	28	23	14	9
69	10/4/94	Tue	6:00 pm	CA	MCD San Rafael	FO	11	9	9	
70	10/4/94	Tue	6:30 pm	CA	MCD San Rafael	FO	12	11	11	
71	10/5/94	Wed	7:00 pm	CA	MCD San Rafael	FO / Education	34	32	30	2
72	10/6/94	Thu	6:00 pm	CA	MCD San Rafael	FO	28	21	12	9
73	10/6/94	Thu	7:00 pm	CA	MCD San Rafael	FO	6	6	6	

Table 2-4. DUI Offender Survey Administration Schedule

# 2.4 Data Processing and Descriptive Statistics

Procedures were developed to check every offender and victim survey (before data entry) for completeness. The same person checked all surveys so that consistent editing was used. An offender survey status sheet was developed to track (in time order) the number of surveys completed at each scheduled class/program at each facility. The victim surveys were tracked by the date they were received.

A PC-based data-entry program was developed for the keying and verifying of both offender surveys and victim surveys. Offender surveys were keyed for all complete questionnaires. Surveys could not be used if any one of the following conditions were met: (1) the offender did not attend the program as a result of a DUI arrest; (2) the arrest date is missing; (3) the arrest date was before January 1, 1992 (pre-arrest data was not available for impact analysis); or (4) employment information was not provided for jobs held in 1992/1993/1994. After surveys were excluded according to one of the above criteria, the final number of surveys used in the analysis was as follows.

State	Final First Offender Surveys	Final Multiple Offender Surveys	Total Surveys
Pennsylvania	168	65	233
Maryland	96	38	134
California	171	83	254
Delaware	144	47	191
Total	579	233	812

After the surveys were keyed and verified, descriptive statistics were produced that listed all responses to each question on both surveys. All "outliers" were identified and extensive data cleaning was employed to assure that all survey data were entered correctly. Since the survey respondents could not be contacted to correct any suspect answers, any survey responses that appeared to be extreme were coded as missing so they would not be included in the final analysis.

After all data-cleaning activity was complete, statistical tables were produced for all questions on both surveys. The open-ended question concerning the effect of the DUI arrest/crash on the respondent's employment and income was coded into distinct categories for presentation purposes. Cross tabulations of the offender survey data were produced that showed the distribution (frequency and percent) of survey responses by state and offender type, ALR status in state, current job type, need to use a vehicle for employment, and loss of license status. Cross tabulations of the victim survey data were produced that showed the distribution (frequency and percent) of survey responses by state and treatment of injuries.

Appendix D contains the DUI offender survey statistical tabulation by state and DUI offender type. Appendix E contains the crash victim survey statistical tabulation by state and treatment of injuries.

#### 2.5 ALR Process/DUI Sanction Review

In order to understand the DUI sanction environment operating in each of the study states, a process review was conducted of the DUI laws and procedures in each state. Topic guides were completed (either by telephone interview or mail) by the cognizant individuals in each state. The following subsections present the responses to the questions posed in these topic guides.

#### 2.5.1 California ALR Process Review

The following information on California's ALR process was provided by:

1. Joan Driscoll, Marin County Drinking Driver Program;

- 2. Mike Woods, Director of CADDTP (an association of treatment programs);
- 3. Frank Cox, Marin County public defender;
- 4. Linda Robinson, Department of Motor Vehicles; and
- 5. Cliff Helander, Department of Motor Vehicles, Sacramento, California.
- 1. What are the conditions of DUI arrest (BAC level, test refusals, passive methods)?

The conditions of DUI arrest are based on a test showing 0.08% or more BAC, or a refusal to take the test. (Some members of the groups said they have had blood extracted forcefully). Refusal is not a crime, but may be a violation of conditions of probation. There is no current use of passive methods.

2. When is the DUI offender's permanent license taken away? Is it suspended or revoked?

The DUI offender's permanent license is taken away at the scene of the arrest. The license is suspended for 120 days.

3. Is a temporary license issued? How long is it good for?

A temporary license is issued at the scene of arrest and is valid for 30 days as of 1/1/94 (45 days previously).

4. What is the process for requesting an administrative hearing?

An administrative hearing must be requested within 10 days.

5. Is action stayed until a hearing is held?

Action is not stayed for the hearing.

6. Is police presence required at the hearing?

Police presence is not required at the hearing; a written statement by the arresting officer suffices. The administrative hearing has traditionally been held in Sacramento and now is held in several other offices.

7. Are hearings permitted by telephone? Can testimony be submitted by affidavit?

Telephone affidavit is not allowed at administrative hearings. However, officer testimony is written.

8. What are the possible results of a hearing (e.g., suspension upheld, license restored)?

The result of an administrative hearing may be that the driver's license is restored if police lacked probable cause for arrest, if the citizen at the hearing was not driving, or if the BAC was not 0.08% or more.

9. What percent of DUI administrative actions are appealed and what are the success rates?

Of administrative per se (APS) actions in 1992 and 1993, 9% resulted in a hearing. In 1992, the APS suspension was upheld in 86% of the BAC or refusal administrative hearings held. In 1993, the APS suspension was upheld in 76% of the BAC or refusal administrative hearings held.

10. What is the length of license suspension (if no hearing or hearing supports suspension)?

Suspension periods are: (1) first offense is 4 months based on the BAC test or 1 year for test refusal; and (2) repeat offenses are 1 year based on the BAC test or 2 years for test refusal. However, the standard requirement for multiple offenders is completion of DUI program, which takes 18 months. A work permit is available to multiple offenders after 12 months.

11. What are the conditions (e.g., employment only) and timing for obtaining a hardship/restricted license?

Restricted license conditions are: (1) After 30 days, first offenders may apply for a restricted license for participation in the DUI program only, but not for driving to work. However, some judges appear to think that driving to work is permitted (relevant if someone is charged with driving while suspended). Pending legislation (S.B. 1758) would give first offenders a work permit; and (2) Multiple offenders may apply for a restricted license permit to drive to work and to the DUI program after 1 year.

12. Must all DUI offenders attend school? When? For how long?

Attendance at DUI school is mandatory except for the very few who do not receive a judicial order. DUI school follows conviction. DUI offenders must register for the program within 21 days. DUI school lasts for 15 weeks for first offenders and 18 months for multiple offenders.

13. Must the DUI offender perform community service?

Multiple offenders must complete 24 hours of service in Marin County, however, this is not uniform statewide

14. How does community service affect the length of license suspension?

Community service does not affect the length of suspension.

15. What are the conditions and timing for the restoration of a permanent license?

The conditions and timing for permanent license restoration are different for first and multiple offenders. First offenders must wait for passage of 90 days from the effective date of suspension and receipt of notice of program completion (the latter is often ignored in practice). Multiple offenders must wait for passage of 12 months and completion of program (note that a work permit can be obtained before full license restoration).

16. When discretion is allowed at any point in the sanction process, how is it applied?

No discretion is permitted in this process.

#### 2.5.2 Delaware ALR Process Review

The following information on Delaware was obtained during the contractor's recent evaluation of Delaware's DUI Program (Knoebel, Ross, Schmidt, and Decina, 1995).

1. What are the conditions of DUI arrest (BAC level, test refusals, passive methods)?

The conditions of DUI arrest are: (1) probable cause to stop person; (2) a preponderance of evidence that person was driving under the influence of alcohol; (3) a BAC of 0.10% or above constitutes conducive evidence; or (4) a refusal to submit to chemical test.

When is the DUI offender's permanent license taken away?

At the time of the arrest, the officer takes the plastic license from the driver. A 15-day temporary (paper) license is given to the driver at that time.

3. Is it suspended or revoked?

If, as a result of the administrative hearing, the person is to lose their driving privileges, the license is revoked.

4. Is a temporary license issued?

A temporary license is issued at the time of the arrest if the officer takes the plastic license from the driver. If the driver does not have his license in his/her possession, no temporary license is issued.

5. How long is the temporary license good for?

A temporary license is good for 15 days initially. If the person requests an administrative hearing, the temporary license is extended for 60 days. If for some reason no decision has been made within the 60-day period, the temporary license is extended until a determination is made concerning the driver's privileges.

6. What is the process for requesting an administrative hearing?

The administrative hearing request must be in writing and must be submitted to the Department of Motor Vehicles (DMV) within 15 days following the date of arrest. The DMV also has a form which can be filled out to request a hearing if the person chooses to appear at the DMV to complete the form. No requests are taken by telephone. None are taken after the 15th day.

7. Is action stayed until a hearing is held?

Yes, action is stayed until a hearing is held. No action will be taken with reference to the administrative revocation until the hearing is held and it is determined that the hearing is to be ruled against the driver.

8. Is police presence required at the hearing?

Police presence is required at the administrative hearing. (As per Sweeney v. Motor Vehicle Commissioner, 257 A. 2nd 764, Del. Super, 1969.)

9. What are the consequences if police fail to appear?

The hearing is ruled in favor of the person if the police do not appear.

10. Are hearings permitted by telephone?

Hearings are not permitted by telephone.

11. Can testimony be submitted by affidavit?

Testimony can not be submitted by affidavit.

12. What are the possible results of a hearing (e.g., suspension upheld, license restored)?

The possible results of a hearing are: (1) revocation of the license is initiated; or (2) no action taken and the license is sent back to person.

13. What percent of DUI administrative actions are appealed and what are the success rates?

Approximately 2% of all administrative hearings are appealed and out of the 2%, less than 1/2% are ruled against DMV and thus have to be reinstated.

14. What is the length of license revocation (if no hearing or hearing supports revocation)?

Revocation periods for the first offender are 3 months for test failure or 1 year for test refusal. Second offender revocation periods are 1 year for test failure or 18 months for test refusal. Third offense revocation is 18 months for test failure or 2 years for test refusal.

15. What are the conditions (e.g., employment only) and timing for obtaining a hardship/restricted license?

Only first offender elections through the court system are allowed a conditional license. The driver may make application for a conditional license with the completion of 16 hours of a program (and payment of same); license must have been surrendered to DMV for at least 90 days; and they must have completed a favorable background review. Fee is \$10. An application form is completed. No follow up is done. There are no specific requirements for approval of the conditional license.

#### 16. Must all DUI offenders attend school? When?

DUI offenders must attend school or a treatment program. They must contact the evaluation agency within 72 hours of the court decision requiring this attendance. They will be evaluated as soon as possible and enrolled in an appropriate program as soon as space becomes available.

#### 17. For how long?

First offenders must attend 16 hours of class. Multiple offenders, those with more than 0.20% BAC, and chronic offenders must attend a more intensive program lasting 18 months.

18. Must the DUI offender perform community service?

DUI offenders do not need to perform community service.

19. How does community service affect the length of license revocation?

Community service has no effect on the length of license revocation.

20. What are the conditions and timing for the restoration of permanent license?

Restoration of the permanent license will be made when: (1) a minimum revocation time has been served; (2) all fines are paid; (3) a background review is favorable; (4) the recommended program is completed successfully; and (5) a reinstatement fee is paid.

21. When discretion is allowed at any point in the sanction process, how is it applied?

All revocation periods, school requirements and reinstatement procedures are outlined by law. There is no discretion allowed in these areas. The only time discretion is evident in the process is at the time of reinstatement when a background review is done. The extent of the review is discretionary as well as the results (recommendations) of the review.

## 2.5.3 Maryland ALR Process Review

The following information on Maryland was provided by Lucile Haislip, Assistant Director, Division of Administrative Adjudication.

What are the conditions of DUI arrest (BAC level, test refusals, passive methods)?

The conditions for DUI arrest are: (1) the police officer has probable cause to believe that the person was operating or attempting to operate a motor vehicle on the highways under the influence of intoxicating liquor or drugs; and (2) the driver took a breath test and failed (alcohol concentration of 0.10% or more) or refused to submit to a chemical test.

2. When is the DUI offender's permanent license taken away?

The DUI offender's permanent license is taken away by the police officer at the time of arrest.

3. Is it suspended or revoked?

The DUI offender's license is suspended.

4. Is a temporary license issued?

A temporary license is issued.

5. How long is the temporary license good for?

The temporary license is good for 45 days.

6. What is the process for requesting an administrative hearing?

To stop the suspension from becoming effective on the 46th day after arrest, an administrative hearing must be requested within 10 days from the order of suspension date. However, the DUI offender has 30 days in which to request an administrative hearing.

7. Is action stayed until a hearing is held?

Action can be delayed if a hearing is requested within 10 days.

8. Is police presence required at the hearing?

Police presence is required only if subpoenaed by administration due to questionable information on the order of suspension or if the administrative law judge requests the testimony of the police officer.

9. What are the consequences if police fail to appear?

If the arresting officer fails to appear at the hearing, the case is usually dismissed.

10. Are hearings permitted by telephone?

Hearings are not permitted by telephone.

11. Can testimony be submitted by affidavit?

Testimony can not be made by affidavit.

12. What are the possible results of a hearing (e.g., suspension upheld, license restored)?

The result of a hearing may be: (1) the suspension is upheld (person fails to appear or evidence supports suspension); (2) the full license is restored (evidence does not support suspension or police fail to appear if requested to attend); or (3) a restricted license is issued for employment/educational reasons if the suspension was the result of a first test failure.

13. What percent of DUI administrative actions are appealed and what are the success rates?

Approximately 70% of drivers arrested for DUI request administrative hearings. Approximately 5% of administrative law judge's decisions are appealed to the circuit court; the appeal success rates are not known.

14. What is the length of license suspension (if no hearing or hearing supports suspension)?

A first refusal results in a 120-day suspension; a second or subsequent refusal results in a 1-year suspension. A first test failure results in a 45-day suspension and a second test failure results in a 90-day suspension.

15. What are the conditions (e.g., employment only) and timing for obtaining a hardship/restricted license?

Maryland law does not allow for a restricted license or a modification of suspension when a person refuses a chemical test. For a test failure, a restricted license may be issued if proof is submitted to the administrative law judge that the person must drive in the course of employment or to attend school. The restricted license is valid from dawn to dusk.

16. Must all DUI offenders attend school? When? For how long?

Administrative law judges may require a DUI offender to attend a 12-hour alcohol education program (based on the prior driving record). Approximately 60% of DUI offenders are referred to such a program. The alcohol education program is a 12-hour program (typically held 2 hours/week for 6 consecutive weeks). The alcohol treatment counseling program is a 26-hour program and may be required for multiple offenders.

17. Must the DUI offender perform community service?

Community service could be a condition of a criminal sentence (court trial), but not of the administrative process.

18. How does community service affect the length of license suspension?

Community service has no effect on license suspension.

19. What are the conditions and timing for the restoration of permanent license?

Restoration of permanent license occurs when the suspension period has expired or restriction time has been served.

#### 20. When discretion is allowed at any point in the sanction process, how is it applied?

Discretion is only applied by an administrative law judge on test failures where a restricted license or modification of suspension is permitted. No discretion is allowed on refusals.

#### 2.5.4 Pennsylvania DUI Process Review

The following information on Pennsylvania was provided by Chester County Council on Addictive Diseases, Inc.

#### 1. What are the conditions of DUI arrest?

Conditions of DUI arrest include: probable cause to stop vehicle and BAC>0.10%, refused chemical test, or BAC 0.05-0.09% and failed field sobriety tests.

2. When is the DUI offender's permanent license taken away?

Seven days after the DUI arrest, a preliminary hearing is held. At that time, a court date is set for 45-60 days in the future. If a DUI conviction is obtained or the offender is granted Accelerated Rehabilitative Disposition (ARD), the plastic license is surrendered at the time of the court date/trial.

3. Is it suspended or revoked?

The DUI offender's permanent license is suspended for first offenders and revoked for habitual offenders.

4. What is the length of license suspension/revocation?

ARD election (First Offender): Base license suspension is a function of the BAC:

0.05 - 0.14% BAC 3 months suspension
0.15 - 0.19% BAC 4 months suspension
0.20 - 0.24% BAC 5 months suspension (unknown BAC is placed in this category)
0.25 - 0.29% BAC 6 months suspension
0.30 - 0.34% BAC 7 months suspension
0.35% BAC and above 8 months suspension

50 hours of community service reduces the above suspension by 1 month. 100 hours of community service reduces the above suspension by 2 months. Participation in an ignition interlock program for 6 months reduces the above suspension by 2 months. A new Fast Track program waives community service/ignition interlock for those DUI offenders who finish the required alcohol highway safety class within 60 days.

First DUI conviction/test refusal: 12 months suspension (judicial and/or PennDOT discretion applied)

Second DUI conviction/test refusal: 12 months suspension minimum with a 2-year parole period (judicial and/or PennDOT discretion applied)

Third DUI conviction/test refusal (within a 5-year period): 5-year license revocation as an Habitual Offender. Any additional DUI convictions within the 5-year period add 2 years to the license revocation period.

5. What fines are imposed for a DUI conviction?

A \$300 minimum fine is imposed for a DUI conviction.

6. What terms of imprisonment are served for a DUI offense?

ARD election:

None

First DUI conviction:

48 consecutive hours

Second DUI conviction: 30 days

Third DUI conviction:

90 days

Fourth DUI conviction:

1 year

The time period within which second, third, and fourth DUI convictions are determined is 7 years. An ARD election counts as a first conviction for determining the applicable jail time.

7. What are the conditions (e.g., employment only) and timing for obtaining a hardship/restricted license (if one is available)?

An occupational limited license may not be issued to anyone convicted of DUI, granted ARD for DUI, or whose license was suspended for refusing to submit to a chemical test.

8. Must all DUI offenders attend school? When? For how long?

All DUI offenders must attend school at some point after arrest, prior to completion of the probationary period. First offenders attend for 12.5 hours and multiple offenders attend for 15 hours.

9. Must the DUI offender perform community service?

Community service is not required.

10. How does community service affect the length of license suspension?

50 hours of community service reduces an ARD license suspension by 1 month. 100 hours of community service reduces an ARD license suspension by 2 months. Community service is now waived for ARD if the DUI offender completes the alcohol highway safety school within 60 days.

#### 11. What are the conditions and timing for the restoration of the permanent license?

Restoration of the permanent license requires completion of all program requirements including: Court Reporting Network (CRN) evaluation; alcohol highway safety school; inpatient or outpatient treatment or counseling (if ordered); community service (if elected as part of ARD program), and prescribed license suspension period served. All requirements are at the discretion of PennDOT, the presiding Judge, and the Adult Probation Department.

12. When discretion is allowed at any point in the sanction process, how is it applied?

See question 11 above.

# 2.6 Methodology for Estimating Impact on Employment

The goal of the methodology is to obtain clear cause-and-effect linkages between variables. In this case, the researchers aimed to link any employment differences found among the four jurisdictions to the legal variable, which was hypothesized as potentially causal. It was expected that differences in employment levels for DUI offenders would be related to differences in administrative license consequences. In particular, it was expected that the states would line up with Delaware at one end, having the longest period of hard suspension; then California, with an initial period of hard suspension, followed by a longer one in which drivers could obtain limited licenses; then Maryland, where hardship licenses were obtainable at any time; and finally Pennsylvania, which lacks administrative license revocation.

The general problem for social science methodology is that the social world is filled with potentially causal factors and it is usually difficult to assert with confidence that any one factor or combination of factors is a necessary or sufficient cause of changes in another. The classic solution to this problem is the randomized group experiment, in which subjects are equated through randomization on all variables except the experimental one. If license revocation could be given out in various lengths according to random selection, it could be concluded that subsequent differences in employment were due to the license actions. However, in this case, and in legal studies more generally, it is not possible to apply laws and penalties in a random manner. Practical difficulties preclude this, and law application is governed by the principle that like cases should be treated alike, which is precisely what is <u>not</u> done when random differences are applied.

An alternative to randomization, when the latter is unavailable, is selection of cases in a way to maximize their comparability. Although the researcher has no control over application of the experimental condition, he or she may have control over selection of cases for the study. This "quasi-experiment" is not as good a method as randomization because some potentially valid alternative interpretations of differences often remain. However, it may represent the best that can be done in a situation, and is far better than

selecting cases haphazardly. The researchers used this principle in selecting the counties observed in Pennsylvania, Delaware, and Maryland. Counties were selected in these three neighboring states as a means of minimizing differences in population composition, climate, road network, and general culture. This match was confirmed by statistical analysis of the three jurisdictions. The counties were as close on the socio-economic indexes as reality permitted. Since there was no adjacent or even close state with the policy of a short hard suspension followed by a longer soft one, Marin County, California, was included in the study. Although regional differences remain a bothersome potential in explaining differences between California and the other three states, the county was selected to duplicate as closely as possible the socio-economic environment of the other three counties. The researchers believe they were successful in this attempt.

Control over irrelevant variables can also be attempted by statistical means. This also is not an ideal solution to the control problem because only those variables thought of and measured can be controlled, and it is always possible that something not envisaged produced the difference in question. An example of a statistical control would be to weight populations known to differ in racial composition in order to hold constant the influence of race on some other characteristic. Statistical controls were used in the analysis for such matters as age and gender.

As it turned out, there did not appear to be a systematic and important effect of the different DUI laws in the states studied. It was also assumed that criminal sanctions, treatment, etc. took place after the ALR period of evaluation, so their effects were not considered. Since there is little or no relationship to be explained, erroneous cause-and-effect conclusions are avoided. Regrettably, valid cause-and-effect conclusions are also avoided, but this represents the state of the world as it was observed.

Appendix F contains a detailed statistical explanation of the design of the evaluation that was used in this research project to estimate the impact of ALR on employment.

# 3.0 ANALYSIS AND INTERPRETATION OF RESEARCH FINDINGS

#### 3.1 Who are the DUI Offenders and Their Victims?

As has been found in other studies, the DUI offenders were atypical of the general population. Even first offenders differ socio-demographically from the general population, and the multiple offenders were even less representative. Parameters of the DUI offender populations are compared with the "victim" samples and, where available, Census figures for the counties in question in Table 3-1.

Table 3-1. Characteristics of DUI Offenders, Crash Victims, and the General Population in the Four Study Sites

	Chest	er County	, Penns	ylvania	Anne Arundel County, Maryland				
	First Offenders	Multiple Offenders	Victims	General Population	First Offenders	Multiple Offenders	Victims	General Population	
White (%)	93	90	90	92	87	79		86	
College Grads (%)	26	17	42	35	26	17		25	
Male (%)	76	91	54	48	86	87		50	
Single (%)	54	38	38	N/A	45	54		N/A	
Previously Married (%)	13	27	8	N/A	32	30		N/A	
Mean Age	33	38	37	34	36	35		33	
	Ma	rin Count	y, Califo	ornia	New Castle County, Delaware				
	First Offenders	Multiple Offenders	Victims	General Population	First Offenders	Multiple Offenders	Victims	General Population	
White (%)	90	90	79	89	89	87	83	80	
College Grads (%)	37	32	24	44	19	15	26	25	
Male (%)	71	81	50	50	85	89	47	47	
Single (%)	51	60	35	N/A	51	43	43	N/A	
Previously	24	28	6	N/A	16	21	10	N/A	
Married (%)			1 1	1					

The data indicate that DUI offenders are disproportionately male, living without families, less educated, and more working class, than either the victims or the general population. As mature men, they are very likely to be employed and to be susceptible to factors impinging on employment. Beyond this, it appears that the DUI offenders, especially the multiple offenders, are heavy drinkers in conjunction with driving. Not all

drivers have an equal chance of being apprehended for drunk driving. Tables 3-2 and 3-3 and Figures 3-1 and 3-2 describe the frequency with which first offenders and multiple offenders consumed one to two or three drinks less than 1 hour before driving in the 12 months prior to their DUI arrest. (All question numbers refer to the DUI Offender Questionnaire in Appendix A.) It seems reasonable to think that many offenders were from groups of single and divorced working-class men where heavy drinking is accepted.

Table 3-2. Frequency of Consumption of One to Two Beers/Mixed Drinks/Glasses Wine Less Than 1 Hour Before Driving During the 12 Months Prior to DUI Arrest (Question 25)

	First Of	fenders	Multiple Offenders		То	tal
Frequency	Number	Percent	Number	Percent	Number	Percent
Never	27	4.7	9	3.9	36	4.5
Once in a while	381	66.5	106	45.9	487	60.6
More than once per week	139	24.3	86	37,2	225	28.0
Daily	26	4.5	30	13.0	56	7.0
Total	573	100.0	231	100.0	804	100.0

Figure 3-1. Frequency of Consumption of One to Two Beers/Mixed Drinks/Glasses Wine Less Than 1 Hour Before Driving During the 12 Months Prior to DUI Arrest

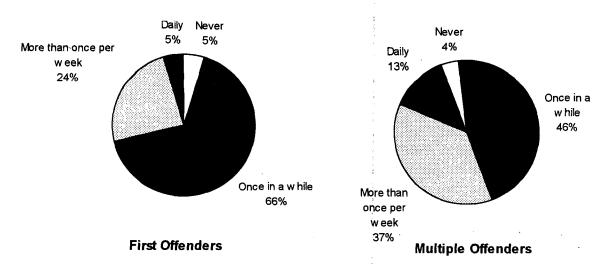
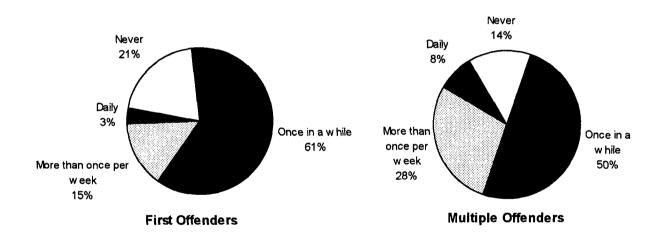


Table 3-3. Frequency of Consumption of Three Beers/Mixed Drinks/Glasses Wine Less Than 1 Hour Before Driving During the 12 Months Prior to DUI Arrest (Question 26)

	First Of	fenders	Multiple Offenders Tota			tal
Frequency	Number	Percent	Number	Percent	Number	Percent
Never	117	20.6	32	14.0	149	18.7
Once in a while	349	61.4	113	49.3	462	58.0
More than once per week	83	14.6	65	28.4	148	18.6
Daily	19	3.3	19	8.3	38	4.8
Total	568	100.0	229	100.0	797	100.0

Figure 3-2. Frequency of Consumption of Three Beers/Mixed Drinks/Glasses Wine Less Than 1 Hour Before Driving During the 12 Months Prior to DUI Arrest



It is important to know in what ways the DUIs are <u>not</u> atypical. They are not importantly different from the victims (or the general public) in average age and in racial composition.

The victim populations were socio-demographically close to the general population, a finding that might be expected in an auto-dependent society if victimization merely depends on using the public roads. One can picture victimization

in the sense used here, excluding impaired drivers, as the consequence of something like a random draw from the general population or the population of road users.

# 3.2 Impact on Jobs

This central question was examined in numerous ways for both DUI offenders and crash victims. The following analyses were performed for DUI offenders:

- The DUI offenders were asked to rate the extent that their loss of license has interfered with work (for those DUI offenders who were working at the time of the DUI arrest).
- 2. The DUI offenders were asked to report income for the jobs they held from 1992-1994. An impact analysis was performed for first and multiple offenders which compared the change in income after DUI arrest for DUI offenders in each of the ALR states to the change in income after DUI arrest for DUI offenders in the non-ALR comparison state.
- 3. The DUI offenders were asked how much income they lost per week as a direct result of their DUI arrest/loss of license. The percent reduction in income from the income reported for the month of the DUI arrest was computed for all DUI offenders (where available). A t-test of difference between the percent reduction in each of the three ALR states and the percent reduction in the comparison non-ALR state was performed for both first and multiple offenders to determine whether the percent reduction was significantly greater in the ALR states.
- The DUI offenders were asked to describe the effect of their most recent DUI
  arrest on their employment. These open-ended responses were coded into
  categories and summarized.
- 5. The activity the month after DUI arrest was examined for those DUI offenders who were working the month before their arrest to determine whether changes in employment were more pronounced in ALR states when compared to the non-ALR state.
- 6. A regression analysis was performed to predict income based on multiple explanatory variables to determine whether there was a strong relationship between income and ALR status.

The following additional analyses were performed for DUI crash victims:

- 1. The crash victims were asked to describe the effect of the DUI crash on their employment. These open-ended responses were coded into categories and summarized.
- 2. The crash victims were asked how much income they lost per week as a direct result of their DUI crash. The percent reduction in income from the income reported for the month of the DUI crash was computed for all DUI crash victims (where available). A t-test of difference between the percent reduction for DUI offenders and the percent reduction for DUI crash victims was performed to determine whether the percent reduction was significantly greater for crash victims or DUI offenders.
- 3. The activity the month after the DUI crash was examined for those crash victims who were working the month before their crash to determine whether changes in employment were more pronounced for crash victims when compared to DUI offenders.

The results of the above analyses are presented in the following two subsections for DUI offenders and DUI crash victims.

### Impact on DUI Offenders

Table 3-4 and Figure 3-3 present the offenders' evaluation of the impact of the DUI arrest and loss of license on their jobs. Nearly half the offenders reported that the experience greatly interfered with their work. It can be seen from Table 3-5 that these were disproportionately people who claimed that their jobs required the use of a car, whether for commuting or even more so for those using a car in their work. Multiple offenders were in general more likely to report a great extent of interference than were first offenders, as might be expected given the heavier license penalties reported by this group. There does not seem to be an orderly pattern of responses among the states and therefore among different kinds and lengths of ALR.

Table 3-4. Extent Loss of License Has Interfered With Work (Question 39a)

	First Of	ffenders	Multiple (	Offenders	Total	
Extent	Number	Percent	Number	Percent	Number	Percent
Not applicable	32	7.9	13	7.2	45	7.7
Not at all	109	27.0	42	23.2	151	25.9
To a little extent	29	7.2	12	6.6	41	7.0
To some extent	64	15.9	30	16.6	94	16.1
To a great extent	169	41.9	84	46.4	253	43.3
Total	403	100.0	181	100.0	584	100.0

Figure 3-3. License Loss Effect on Work

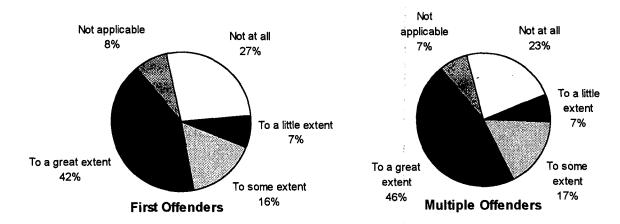


Table 3-5. Extent Loss of License Has Interfered With Work by Need for Vehicle/License (Question 39a)

	Car/Lic	Need Car/License to Perform Job		Need Car to Commute Only		No Need for Car or No Employment		Total	
Extent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Not applicable	12	4.1	8	6.3	24	17.0	44	7.8	
Not at all	53	18.1	36	28.3	59	41.8	148	26.4	
To a little extent	15	5.1	10	7.9	12	8.5	37	6.6	
To some extent	44	15.0	28	22.0	14	9.9	86	15.3	
To a great extent	169	57.7	45	35.4	32	22.7	246	43.9	
Total	293	100.0	127	100.0	141	100.0	561	100.0	

Similar proportions of respondents claimed interference with activities other than work, such as shopping, attending church, and visiting the doctor. The highest proportions were with respect to social and recreational activities, where great interference was reported by at least half of the respondents in all states, first offenders as well as repeat offenders.

Relatively few people--fewer than 10 percent--reported having changed jobs at about the time of the DUI arrest. Of these, however, close to half attributed leaving to the DUI arrest. This was true for 32 percent of first offenders and 62 percent of the multiple offenders who had changed jobs. The numbers of job changers were insufficient to perform a valid analysis by state.

However, the above claims of interference with jobs were not supported in other data. The offenders were asked to report the beginning and end employment dates and average income for all jobs they held in 1992, 1993, and 1994. From this job history, the average monthly income was computed for each month in these 3 years for each DUI offender. Changes in income due to the DUI arrest were measured separately for first and multiple offenders in a monthly impact analysis (described in Appendix F) and are reported in Tables 3-6 and 3-7, respectively. The impact analysis regression model controlled for the effect of the DUI offender being in jail or attending school in any given month as well as the expected increase in monthly income over time. Monthly impact measures/significance levels were obtained for the 6 months after DUI arrest for three separate models (for both first and multiple offenders): Maryland versus Pennsylvania, California versus Pennsylvania, and Delaware versus Pennsylvania. Those impact measures that were significant at the 5% level are indicated with an asterisk in Tables 3-6 and 3-7.

The impact measure of "minus \$27" for the first month after DUI arrest for the Maryland vs. Pennsylvania first offender model in Table 3-6 is interpreted to mean that Maryland first offenders made \$27 less in the first month after their DUI arrest when compared to Pennsylvania first offenders in their first month after DUI arrest. Although this difference is in the direction expected by the hypothesis, the impact was not significant at the 5% level. In other words, this difference could occur by chance more than 5 percent of the time.

It is theorized that an effect on employment for first and multiple offenders, if any, should be evident in the first 3 months following the arrest. The following presents an analysis for each of the three ALR states when compared with the non-ALR state (Pennsylvania). Figures 3-4 and 3-5 illustrate this data in chart form.

For first offenders, the earnings comparison between Delaware and Pennsylvania was not significant, though in the same direction as that presented in the hypothesis (income was reduced more in the ALR state when compared to the non-ALR state). There was no significant impact on earnings for multiple offenders, and the differences were in the opposite direction from that presented in the hypothesis (post-arrest income was higher in the ALR state than in the non-ALR state).

The same patterns and lack of significance were found when offenders in Maryland were compared with those in Pennsylvania. The impact analysis for California first offenders showed a significant gain against Pennsylvania in earnings. No significant effect was noted for California multiple offenders in the first several months after arrest.

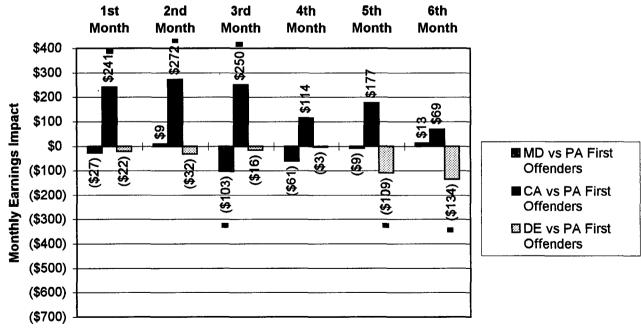
#### Table 3-6. First Offender Income Impact After DUI Arrest

The impact on employment of first offenders in each of the three ALR states (Maryland, California, and Delaware) was compared to the impact on employment of first offenders in the non-ALR comparison state (Pennsylvania) for each of the 6 months after DUI arrest. The value of (\$27) for Maryland versus Pennsylvania first offenders means that these Maryland first offenders made \$27 less in the first month after arrest when compared to Pennsylvania first offenders. It should be noted that many offenders in the ALR states may have had a temporary license during the first month after arrest.

	1st Month After Arrest	2nd Month After Arrest	3rd Month After Arrest	4th Month After Arrest	5th Month After Arrest	6th Month After Arrest
MD vs. PA First Offenders	(\$27)	\$9	(\$103)*	(61)	(\$9)	\$13
CA vs. PA First Offenders	\$241*	\$272*	\$250*	\$114	\$177	\$69
DE vs. PA First Offenders	(\$22)	(\$32)	(\$16)	(\$3)	(\$109)*	(\$134)*

<sup>\*</sup> Impact significant at 5% level (could occur by chance less than 5% of the time).

Figure 3-4. Impact Analysis of ALR on First Offender Income



**Month After DUI Arrest** 

■ Impact significant at 5% level.

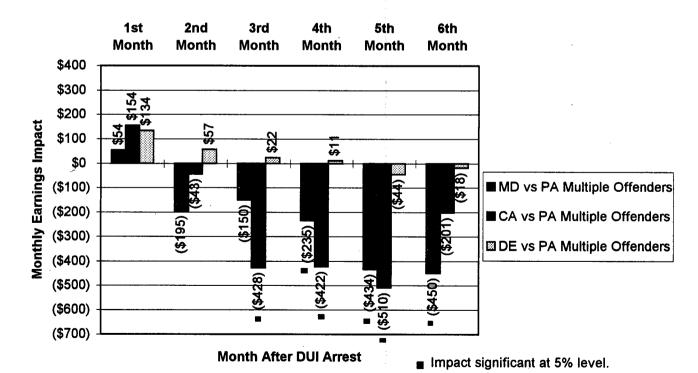
## Table 3-7. Multiple Offender Income Impact After DUI Arrest

The impact on employment of multiple offenders in each of the three ALR states (Maryland, California, and Delaware) was compared to the impact on employment of multiple offenders in the non-ALR comparison state (Pennsylvania) for each of the 6 months after DUI arrest. The value of \$54 for Maryland versus Pennsylvania multiple offenders means that these Maryland multiple offenders made \$54 more in the first month after arrest when compared to Pennsylvania multiple offenders. It should be noted that many offenders in the ALR states may have had a temporary license during the first month after arrest.

	1st Month After Arrest	2nd Month After Arrest	3rd Month After Arrest	4th Month After Arrest	5th Month After Arrest	6th Month After Arrest
MD vs. PA Multiple Offenders	\$54	(\$195)	(\$150)	(\$235)*	(\$434)*	(\$450)*
CA vs. PA Multiple Offenders	\$154	(\$43)	(\$428)*	(\$422)*	(\$510)*	(\$201)
DE vs. PA Multiple Offenders	\$134	\$57	\$22	\$11	(\$44)	(\$18)

<sup>\*</sup> Impact significant at 5% level (could occur by chance less than 5% of the time).

Figure 3-5. Impact Analysis of ALR on Multiple Offender Income



The offenders were asked how much income they lost per week as a direct result of their DUI arrest/loss of license. The percent reduction in income from the income reported for the month of the DUI arrest was computed for all offenders (where available). A t-test of difference between the percent income reduction in each of the three ALR states and the percent income reduction in the comparison non-ALR state was performed for both first and multiple offenders and is reported in Table 3-8. Since none of these six tests was significant at the 5% level (significance probability less than 0.05), there was no significant difference in the percent reduction in income resulting from the DUI arrest between ALR and non-ALR states for either first or multiple offenders. It was assumed that the offenders in ALR and non-ALR states experienced similar criminal sanctions. However, these sanctions probably took place after the period of ALR impact evaluation.

Table 3-8. Difference in Percent Reduction in Income Between ALR and Non-ALR States

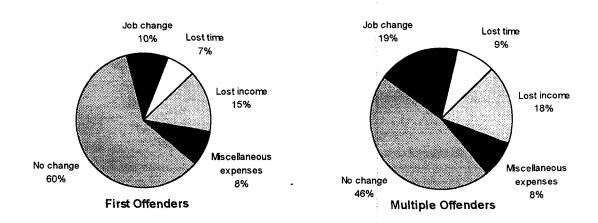
Group 1 Description	Group 1 % Reduction in Income	Group 2 Description	Group 2 % Reduction in Income	Significance Probability
PA first offenders	10.5%	MD first offenders	7.4%	.2945
PA first offenders	10.5%	CA first offenders	14.6%	.1543
PA first offenders	10.5%	DE first offenders	8.2%	.3609
PA multiple offenders	11.8%	MD multiple offenders	12.0%	.9707
PA multiple offenders	11.8%	CA multiple offenders	19.4%	1595
PA multiple offenders	11.8%	DE multiple offenders	14.3%	.6409

The offenders were asked to describe the effect of their recent arrest on their employment and income. All open-ended responses were categorized as shown in Table 3-9 and Figure 3-6. Over 55 percent of the respondents stated there was no change in their employment or income after the DUI arrest.

Table 3-9. Stated Changes in Employment and Income as a Result of the DUI Arrest (Question 10)

Effect on	First Of	fenders	Multiple Offenders Tota			tal	
<b>Employment</b>	Number	Percent	Number	Percent	Number	Percent	
No change	394	60.0	125	45.6	519	55.8	
Job change	64	9.7	53	19.4	117	12.6	
Lost time	48	7.3	25	9.1	73	7.8	
Lost income	98	14.9	50	18.2	148	15.9	
Miscellaneous expenses	53	8.1	21	7.7	74	7.9	
Total	657	100.0	274	100.0	931	100.0	

Figure 3-6. DUI Arrest Effect on Employment and Income



Another measure of the impact of ALR on employment is the change in the offender's activity from the month right before arrest to the month right after arrest for those who were working in the month before arrest. Table 3-10 shows this transition for the non-ALR state, the ALR states, and total. The percent still working the month after arrest (94 percent) was identical for DUI offenders in the three ALR states and the non-ALR state. However, many offenders in the ALR states may have had a temporary license during the first month after arrest. Attending school may well have been independent of arrest.

Table 3-10. Activity the Month After DUI Arrest for Those Working the Month Before Arrest (Question 9)

		-	Activity	the N	onth Aft	er Arre	st		Total
:	Working			Attending Unemployed School		Unemployed Other		er	Working Month Before
	No.	%	No.	%	No.	%	No.	%	Arrest
DUI offenders in non-ALR state working the month before arrest	175	94	4	2	8	4	3	1	190
DUI offenders in ALR states working the month before arrest	472	94	5	1	20	4	3	1	500
All DUI offenders working the month before arrest	647	94	9	1	28	4	6	1	690

Finally, a regression analysis, performed to predict income based on an array of explanatory variables, found strong significant relationships with gender, marital status, age, and education, but **not** with the state of residence (and therefore, probably not with ALR status).

In brief, expectations that earnings of offenders in ALR states should be disproportionately reduced were not supported by most of the above analyses.

#### Impact on DUI Crash Victims

Membership in the victim group was defined in terms of unimpaired survivors of alcohol-related crashes. Even though this analysis compared people who were in crashes with a broader group of DUIs, most of whom were not, the evidence does not support the idea that the employment of victims is more impacted than that of the DUI offenders. Victims seldom reported a disability-related change in jobs—only 6 of 146 made this claim, and it is not necessarily the case that the disability was related to the victimization.

When the crash victims were asked to describe the impact on their employment that resulted from involvement in the alcohol-related crash, over 56 percent reported no impact. It is important to note that assuming self-selection bias, the more seriously injured/impacted

crash victims may have been more likely to return the questionnaire. The open-ended responses were coded as shown in Table 3-11 and Figure 3-7.

Table 3-11. Stated Changes in Employment and Income as a Result of DUI Crash (Question 5)

Effect on Employment	Number Crash Victims	Percent
No impact	82	56.2
Job activities have been limited	7	4.8
Lost from 1 day to 2 weeks pay	22	15.0
Could not work from 2 weeks to 6 months	21	14.4
Currently unemployed due to injury	14	9.6
Total	146	100.0

Figure 3-7. DUI Crash Victim Employment and Income Changes



The crash victims were asked how much income they lost per week as a direct result of their DUI crash. The percent reduction in income from the income reported for the month of the DUI crash was computed for all DUI crash victims (where available). A t-test of difference between the percent reduction for DUI offenders and the percent reduction for DUI crash victims was performed. The percent reduction was actually greater for offenders (12.0 percent) compared to DUI crash victims (7.6 percent). However, with a significance probability of 0.0646, this difference failed to be significant at the 5% level.

Another measure of the impact of the crash on employment is the change in the crash victim's activity from the month right before the crash to the month right after the crash for those who were working in the month before the crash. Table 3-12 shows this transition for the three states and total. The percent still working the month after the crash was less for the victims (71 percent total) compared to the offenders (94 percent total).

## 3.3 Driving While Revoked

Although the respondents frequently claimed interference with work from the DUI and license revocation, many of them admitted to driving to work and for other social functions. Data are presented in Tables 3-13 and 3-14 and Figures 3-8 and 3-9 for those DUI offenders who lost their license. Particularly in the ALR states, large numbers of informants rated the probability that they would drive without a license as very likely, reaching nearly two-thirds for California multiple offenders.

Important numbers of DUI offenders who lost their license stated that they drive to work. The figure was higher in Maryland and California, where hardship licenses are available, but even in Delaware a fifth of first offenders and one in seven multiple offenders declared that they continue to drive to work. Taxis and public transportation were an important alternative only in California, where experience suggests that these might be more viable options. However, the main alternative in general was driving with others, perhaps relatives or neighbors. Driving with others was the most frequent form of transportation everywhere for shopping, church attendance, and especially social and recreational activities. A majority of respondents in all circumstances lived in households where there was at least one other licensed driver, who might be able to provide this service.

Table 3-12. Activity the Month After DUI Crash for Those Working the Month Before Crash (Question 6)

			Activit	y the N	onth A	ter Cra	sh		Total
	Worl	king	Atter Sch	nding nool	Unemp	loyed	Disa	bled	Working Month Before
	No.	%	No.	%	No.	%	No.	%	Crash
DUI crash victims in PA working the month before crash	37	79	1	2	2	4	7	15	47
DUI crash victims in CA working the month before crash	14	56	0	0	1	4	10	40	25
DUI crash victims in DE working the month before crash	27	71	3	8	. 0	0	8	21	38
All DUI crash victims working the month before crash	78	71	4	4	3	2	25	23	110

Table 3-13. DUI Offender's Likelihood of Driving Without a License (Question 37)

	First Of	fenders	Multiple (	Offenders	Total	
Likelihood	Number	Percent	Number	Percent	Number	Percent
Not at all likely	266	55.6	89	43.2	355	51.9
Unlikely	41	8.6	22	10.7	63	9.2
Somewhat likely	30	6.3	14	6.8	44	6.4
Very likely	141	29.5	81	39.3	222	32.5
Total	478	100.0	206	100.0	684	100.0

Figure 3-8. Likelihood of Driving Without a License

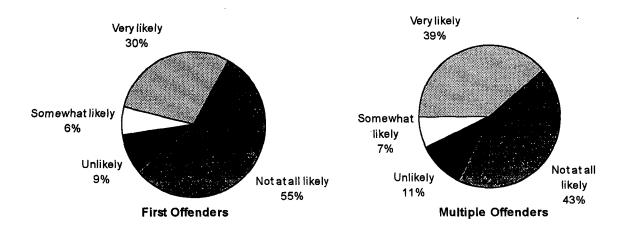
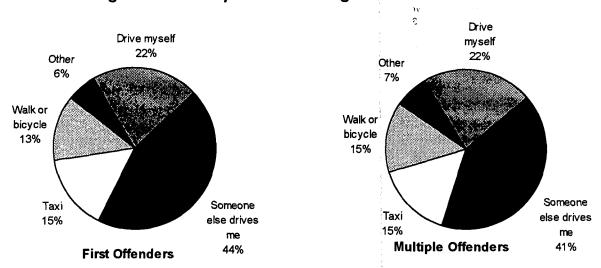


Table 3-14. DUI Offender's Transportation Arrangements for Work While Waiting for License Reinstatement (Question 40a)

	First Of	fenders	Multiple (	Offenders	Total	
Arrangement	Number	Percent	Number	Percent	Number	Percent
Drive myself	110	21.5	52	22.3	162	21.1
Someone else drives me	226	44.1	95	40.9	321	43.2
Taxi or public transportation	78	15.2	36	15.5	114	15.3
Walk or bicycle	69	13.5	34	14.6	103	13.8
Other/not applicable	29	5.7	16	6.9	45	6.0
Total	512	100.0	233	100.0	745	100.0

Figure 3-9. Transportation Arrangement for DUI Offender

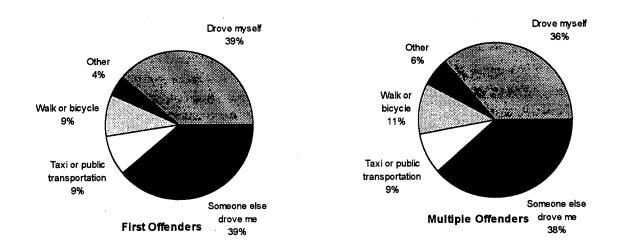


In Table 3-15 and Figure 3-10, it can be seen that more than a third of respondents who lost their license reported that they drove on the most recent day they worked. Maryland and California had the highest proportions, which reached a majority for California multiple offenders. Even in Delaware, which does not issue hardship licenses, important proportions drove, though fewer than in the other states.

Table 3-15. Method of Transportation for DUI Offender's Most Recent Day of Work (Question 40g)

Method of	First Of	fenders	Multiple (	Offenders	То	tal
Transportation	Number	Percent	Number	Percent	Number	Percent
Drove myself	162	38.8	66	36.1	228	38.0
Someone else drove me	162	38.8	70	38.3	232	38.7
Taxi or public transportation	36	8.6	16	8.7	52	8.7
Walk or bicycle	38	9.2	20	10.9	58	7.6
Other/not applicable	19	4.6	11	6.0	30	5.0
Total	417	100.0	183	100.0	600	100.0

Figure 3-10. Most Recent Work Day Transportation



These declarations are supported by reports of having driven to the educational or therapy program. This was most common in California and Maryland, where it may be related to the availability of hardship licenses. Again, public transportation was seldom used and the major alternative to driving one's self was to travel with someone else.

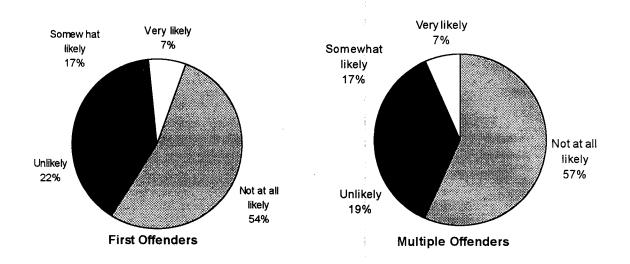
When all occasions for travel are considered for those DUI offenders without a license, 46 percent admitted that they drove (48 percent of first offenders and 41 percent of multiple offenders). Driving without a license was most common in California (65 percent overall) and least common in Delaware (30 percent overall).

Driving while unlicensed is likely to be encouraged by the belief that there is little danger of being caught. As can be seen in Table 3-16 and Figure 3-11, majorities of both first and multiple offenders rated the risk as low, and only seven percent of the sample said that being caught is very likely during a month of unlicensed driving.

Table 3-16. Likelihood of Being Caught for Those DUI Offenders Who Drive Without a License (Question 38)

Likelihood of	First Of	fenders	Multiple (	Offenders	Total		
Being Caught	Number	Percent	Number	Percent	Number	Percent	
Not at all likely	105	53.3	59	56.7	164	54.5	
Unlikely	44	22.3	20	19.2	64	21.3	
Somewhat likely	34	17.3	18	17.3	52	17.3	
Very likely	14	7.1	7	6.7	21	7.0	
Total	197	100.0	104	100.0	301	100.0	

Figure 3-11. Likelihood of Being Caught Driving Unlicensed



## 3.4 The Functioning of ALR Systems

The following observations can be made about the experience of the drivers with the breath test and administrative process in Maryland, California, and Delaware. Table 3-17 and Figures 3-12 and 3-13 show that important minorities of offenders did not take breath tests at the time of arrest. Except in California, the proportions were higher for repeat offenders, representing almost half in Maryland.

One would have expected (as is the case for Maryland) that a large percent of DUI offenders who did not take a breath test at the time of arrest would have been charged with refusing the breath test. The following are some possible explanations for the lower percentages in Pennsylvania, California, and Delaware: (1) A significant percent of the DUI offenders who did not take a breath test in Pennsylvania, California, and Delaware could have had blood drawn for BAC analysis (and would not be charged with test refusal); (2) In Pennsylvania, the license suspension period is the same for test refusals and test failures, so these offenders may not be charged with test refusal; (3) In Delaware, drivers who refuse chemical testing must sign an "implied consent" form (not a "test refusal" form), so they may not recognize being charged with refusing the breath test; or (4) The DUI offenders did not understand what a refusal charge meant.

Table 3-17. DUI Offender Experience With the Breath Test at Time of Arrest

	% DUI Offenders Who Did Not Take a Breath Test at Time of Arrest (Question 27)	% DUI Offenders Who Did Not Take a Breath Test Who Were Charged With Refusing Test (Question 28)
PA first offenders	25%	8%
PA multiple offenders	31%	16%
MD first offenders	20%	85%
MD multiple offenders	43%	92%
CA first offenders	24%	12%
CA multiple offenders	24%	35%
DE first offenders	17%	8%
DE multiple offenders	26%	25%
All first offenders	22%	18%
All multiple offenders	29%	38%
Total	24%	25%

Figure 3-12. Percent DUI Offenders Who Did Not Take Breath Test

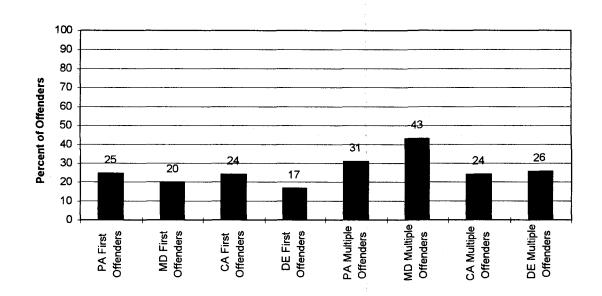


Figure 3-13. Percent DUI Offenders Who Did Not Take Breath Test Who Were Charged With Refusing Breath Test

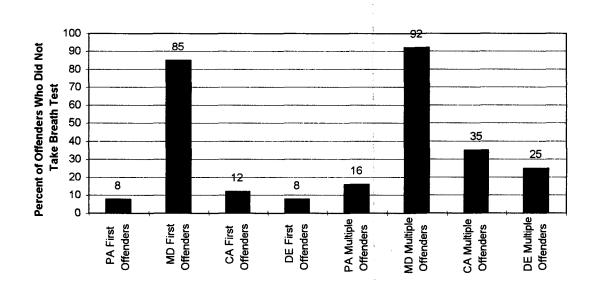


Table 3-18 and Figures 3-14 and 3-15 summarize the experience of DUI offenders in ALR states with the administrative process. Nearly a third of first offenders were ignorant of the possibility of administrative license revocation at the time of their offense. Unreasonable as it may be, this was also true of one out of six multiple offenders. Such people obviously could not have been deterred by the ALR law. Among the ALR states, Maryland produced the highest proportion of demands for hearings, with more than half saying they requested them. Maryland drivers also more frequently attended the hearings. They were more frequently rewarded by having their license returned. First offenders were more likely to succeed in all states. Only in Delaware are police required to attend all administrative hearings, which explains the difference in police attendance among the three states (see note at bottom of Table 3-18).

Table 3-18. Experience/Knowledge of DUI Offenders with the Administrative Process

		/land	Calif	ornia	Dela	ware
	First Offenders	Multiple Offenders	First Offenders	Multiple Offenders	First Offenders	Multiple Offenders
% Requesting Administrative Hearing (Question 30)	65%	59%	25%	21%	33%	38%
% of Those Requesting Hearing Who Attended Administrative Hearing (Question 31)	98%	83%	63%	47%	75%	88%
% of Those Requesting Hearing for Which Arresting Police Attended Administrative Hearing (Question 32)*	10%	47%	7%	15%	55%	71%
% of Those Requesting & Attending Administrative Hearing Whose License Was Returned (Question 33)	47%	40%	13%	8%	34%	18%
% of DUI Offenders Aware of Administrative License Revocation Laws Before Arrest (Question 29)	67%	84%	66%	80%	68%	72%

<sup>\*</sup> In California, police are not required to attend administrative hearings. In Maryland, police need only attend the administrative hearings if they are subpoenaed. In Delaware, police must attend all administrative hearings.

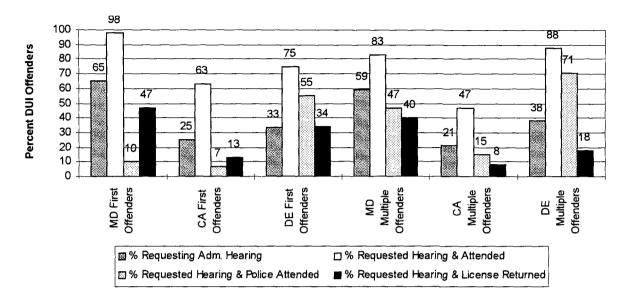
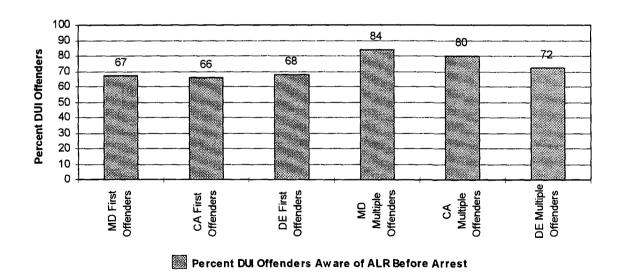


Figure 3-14. Administrative Process Experience

Figure 3-15. Awareness of Administrative Process Before DUI Arrest

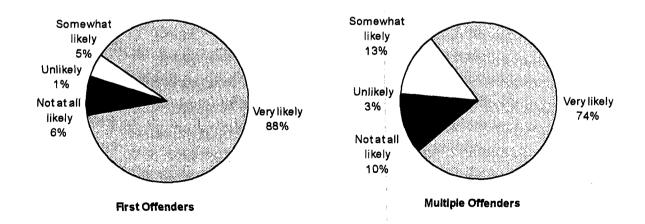


DUI offenders expect to get back into the system as shown in Table 3-19 and Figure 3-16. However, nontrivial proportions of multiple offenders (13 percent) indicated a low probability of relicensing.

Table 3-19. Likelihood DUI Offender Will Get License Back When Suspension/Revocation Ends (Question 36)

	First Of	fenders	Multiple C	Offenders	Total	
Likelihood	Number	Percent	Number	Percent	Number	Percent
Not at all likely	30	6.4	19	9.6	49	7.3
Unlikely	6	1.3	6	3.0	12	1.8
Somewhat likely	22	4.7	26	13.1	48	7.2
Very likely	412	87.7	147	74.2	559	83.7
Total	470	100.0	198	100.0	668	100.0

Figure 3-16. Likelihood Licenses Returned



## 3.5 Other Findings Related to Safety Among DUI Offenders

On average, 2 percent of first offenders and 21 percent of multiple offenders were driving while unlicensed at the time of their arrest. Table 3-20 shows the number of DUI offenders possessing a valid license at the time of their DUI arrest.

Table 3-20. DUI Offenders With Valid License at Their Most Recent DUI Arrest (Question 4)

	First O	ffenders	Multiple	Offender	Total	
Valid License?	Number	Percent	Number	Percent	Number	Percent
Yes	563	98.1	181	79.0	744	92.7
No	11	1.9	48	21.0	59	7.3
Total	574	100.0	229	100.0	803	100.0

Many repeat offenders (nearly one in six) had more than one prior offense on their record in the past year, and declared priors were as high as five in 5 years. Table 3-21 summarizes the percent of multiple offenders with more than one prior DUI arrest.

Table 3-21. Prior DUI Arrest Records (Questions 7 and 8)

Percent of Multiple	State							
Offenders With More	Pennsylvania	Maryland	California	Delaware	Total			
Than One Prior Arrest								
In last year	18%	21%	15%	13%	16%			
In last five years	81%	100%	78%	67%	80%			

Multiple offenders were more likely to fail to wear seat belts. This accords with the understanding that repeat DUI offenders tend to engage in other unsafe driving behaviors. Table 3-22 summarizes the number of DUI offenders who reported wearing a seat belt at the time of their DUI arrest.

Table 3-22. DUI Offenders Who Reported Wearing Seat Belt at the Time of DUI Arrest (Question 23)

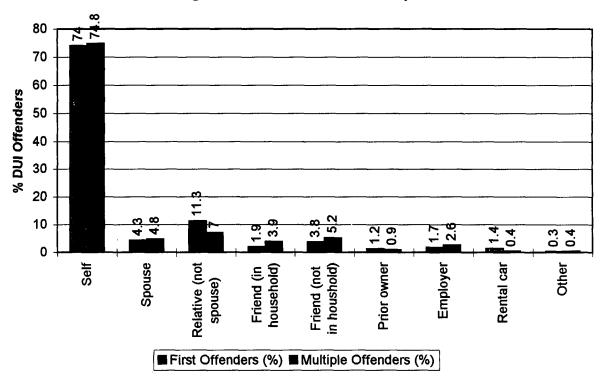
Wearing	First Of	fenders	Multiple (	Offenders	Total		
Seat Belt?	Number	Percent	Number	Percent	Number	Percent	
Yes	400	70.2	136	59.6	536	67.2	
No	170	29.8	92	40.2	262	32.8	
Total	570	100.0	228	100.0	798	100.0	

Registration of vehicles in the name of persons other than the DUI offender was relatively uncommon, even for multiple offenders. It was expected that this would occur as a means of avoiding insurance surcharges, but the expectations were disconfirmed. Table 3-23 and Figure 3-17 display the ownership of the car driven by the DUI offender at the time of DUI arrest.

Table 3-23. Ownership of the Vehicle Driven at the Time of DUI Arrest (Question 22)

	First Of	fenders	Multiple (	Offenders	Total	
Owner	Number	Percent	Number	Percent	Number	Percent
Self	426	74.0	172	74.8	598	74.2
Spouse	25	4.3	11	4.8	36	4.5
Relative (other than spouse)	65	11.3	16	7.0	81	10.0
Friend (living in same household)	11	1.9	9	3.9	20	2.5
Friend (not living in same household)	22	3.8	12	5.2	34	4.2
Prior owner	7	1.2	2	0.9	9	1.1
Employer	10	1.7	6	2.6	16	2.0
Rental car	8	1.4	1	0.4	9	1.1
Other	2	0.3	1	0.4	3	0.4
Total	576	100.0	230	100.0	806	100.0

Figure 3-17. Vehicle Ownership



Crashes accompanied 17 percent of all DUI arrests. The vast bulk of arrests were based on moving violations or equipment violations. One implication of this fact is that the experiences of DUI offenders as a group are incommensurate with those of crash victims. Table 3-24 and Figure 3-18 summarize the reasons police stopped the DUI offender at the time of DUI arrest.

Table 3-24. Reason Police Stopped Vehicle at the Time of DUI Arrest (Question 24)

Reason	First Of	fenders	Multiple (	Offenders	Total		
Stopped	Number	Percent	Number	Percent	Number	Percent	
Crash	102	17.8	38	16.5	140	17.4	
Moving violation	380	66.2	152	66.1	532	66.2	
Vehicle violation (e.g., expired inspection sticker, tail light out, no head lights)	46	8.0	18	7.8	64	8.0	
Roadblock or sobriety checkpoint	18	3.1	7	3.0	25	3.1	
Other	28	4.9	15	6.5	43	5.3	
Total	574	100.0	230	100.0	804	100.0	

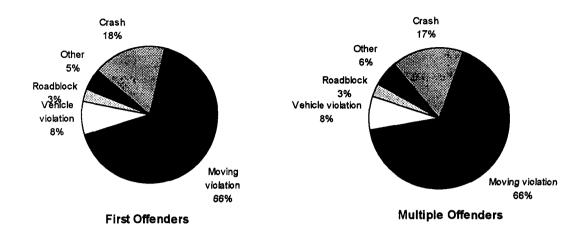


Figure 3-18. Reasons Police Stopped Vehicle

Most offenders lived in households with other employed persons. One implication of this is that even if the DUI offender were to lose his/her employment, most of the households would be able to count on the income of others for survival. Table 3-25 tabulates the number of currently employed household members other than the DUI offender.

Table 3-25. Number Currently Employed Household Members of the DUI Offender (Question 49)

	First Of	fenders	Multiple (	Offenders	Total		
Number Employed	Number	Percent	Number	Percent	Number	Percent	
None	181	32.6	72	32.4	253	32.6	
One	211	38.0	91	41.0	302	38.9	
Two or more	163	29.4	59	26.6	222	28,6	
Total	555	100.0	222	100.0	777	100.0	

## 3.6 Administration of Surveys to Spanish Speaking DUI Offenders

In the course of pretesting, it was found that some DUI offenders, mainly immigrants from Mexico, had difficulty comprehending English. Marin County, California and Chester County, Pennsylvania addressed this problem with special classes in the Spanish language. The DUI offender questionnaire was translated into Spanish in an attempt to reach this group.

The Spanish questionnaire met several obstacles in practice, and in the end the attempt was abandoned. The translation was a good one for the purpose, being done by a native New Mexico Hispanic sociologist. However, it turned out that members of the target group were often illiterate in Spanish as well as English. Short of individual interviews, which were judged too expensive, the group administration required the instructors to read the questions. In at least some circumstances the instructors seemed to hint at the "correct" answers, thus influencing the supposedly independent responses.

The Spanish questionnaire raised a problem that was not recognized at the time the interview was prepared, which is that the conception of jobs and employment does not correspond with the understanding of some segments of society. Many of the Mexican immigrants in the sample did not have jobs in the sense that is generally understood. For example, some workers, especially in agriculture, worked at a different "job" every day. The questions would not be meaningful in that situation. Furthermore, many of the Hispanics, and doubtless some of the English speakers, never possessed a driver's license and thus could not have been greatly influenced by that sanction. (However, all drove.) The questions concerning license revocation made little sense to them. Other, similar, problems were discovered, such as the fact that many Spanish speakers in Pennsylvania lived in company dormitories, and lacked understanding of the journey to work.

Although an attempt was made to administer the Spanish questionnaire despite these problems, the necessity to read and explain each question made these sessions lengthy and intrusive. The answers received were difficult to understand. The effort was abandoned and the data from the Spanish classes were not included in the final results. Of course, problems such as functional illiteracy and different understandings of employment probably affect some members of the mainstream classes, but it is impossible to identify the misleading cases.

The experience interviewing the Chester County, Pennsylvania Hispanic class on Sunday morning, September 25, 1994 is illustrative of the problems encountered with this group. Although 35 were registered for the class, only 14 people attended. As anticipated, these people were not able to complete a paper-and-pencil survey on their own. The instructor read every question to them and waited for them to record their answers on the questionnaire. One man could neither read not write, but his neighbor volunteered to listen to his answer (after the instructor read each question) and write his answer on his questionnaire. The administration of the questionnaire in this manner took 80 minutes (compared to the 15-20 minutes when everyone read the questions and answered them on

their own). Some components of the questionnaire were foreign to the Hispanic class (e.g., understanding the word "county", following skip patterns, circling answers, and providing scale responses for questions). Many of these people ride with someone to work, so a vehicle is not important for their employment. Although they are supposed to get a valid Pennsylvania license within 90 days of coming from Mexico, few ever do.

## 3.7 Victim Survey Results

The following summarizes the results of the victim survey, in addition to the impact on employment already discussed in Section 3.2. It must be remembered that these results are for a relatively small sample of victims (approximately 150) and they represent a very small percentage of the injuries in alcohol-related crashes. The majority of the injuries are suffered by the DUI offenders who cause these crashes (based on absolute numbers). In the following analysis, the question numbers noted on the tables refer to the Victim Questionnaire in Appendix C.

Membership in the victim group was defined in terms of unimpaired survivors of alcohol-related crashes. Over 75 percent of the victims were drivers of another vehicle involved in the crash (but not charged with DUI), as shown in Table 3-26.

Table 3-26. Involvement of Victims in the DUI Crash (Question 2)

	Victims No		Victims T Hos	reated at pital	Total		
Involvement	Number	Percent	Number	Percent	Number	Percent	
Passenger in vehicle of driver charged with DUI	3	4.6	5	6.3	8	5.5	
Driver of another vehicle (not charged with DUI)	57	87.7	53	66.3	110	75.9	
Passenger in another vehicle (driver not charged with DUI)	2	3.1	22	27.5	24	16.6	
Pedestrian	3	4.6	0	0.0	3	2.1	
Total	65	100.0	80	100.0	145	100.0	

Over 27 percent of the victims were uninjured and nearly half did not require medical treatment. Only about 15 percent required hospitalization. Table 3-27 summarizes the injury severity of the victims by state and total.

**Table 3-27. Injury Severity of Crash Victims (Question 3)** 

	Penns	ylvania	Calif	omia	Delaware		Total	
Injury Severity	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Not injured	24	44.4	2	5.9	14	24.1	40	27.4
Injured, but not treated at hospital	6	11.1	8	23.5	12	20.7	26	17.8
Treated for injuries at hospital, but no overnight stay required	18	33.3	17	50.0	22	37.9	57	39.0
Hospitalized for less than 1 week	4	7.4	2	5.9	8	13.8	14	9.6
Hospitalized for more than 1 week	2	3.7	5	14.7	2	3.4	9	6,2
Total	54	100.0	34	100.0	58	100.0	146	100.0

Most of the damage was to vehicles. More than 57 percent of the crash victims reported that their vehicle was damaged such that it could not be driven away from the crash scene, as shown in Table 3-28.

Table 3-28. Damage to Vehicle Resulting from DUI Crash (Question 4)

	Pennsylvania		Calif	California		Delaware		Total	
Vehicle Damage	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Do not drive	1	1.9	4	11.8	1	1.8	6	4.2	
No loss of vehicle regularly driven	13	24.5	1	2.9	10	17.5	24	16.7	
Vehicle damaged, but still able to drive	14	26.4	6	17.6	11	19.3	31	21.5	
Vehicle damaged so could not drive away from crash, but since repaired	5	9.4	5	14.7	13	22.8	23	16.0	
Vehicle totaled in crash	20	37.7	18	52.9	22	38.6	60	41.7	
Total	53	100.0	34	100.0	57	100.0	144	100.0	

Table 3-29 compares the remaining results from the crash victim survey with comparable results from the DUI offender survey. Ten percent fewer crash victims were employed at the time of their DUI crash as compared to DUI offenders employed at the time of their DUI arrest. A larger percent of crash victims was employed in professional jobs than DUI offenders. The average tenure of crash victims at their current job was 8 months longer than the average tenure of DUI offenders at their current job. The DUI offenders worked more hours per week and earned slightly more per week than the crash victims. This may be a reflection of the overtime compensation afforded in the more common blue collar jobs of DUI offenders. Another explanation of the higher earnings of DUI offenders is that DUI offenders are predominantly males, and males on average tend to earn more than females. Both groups reported an almost identical weekly reduction in income (under \$100/week) as a result of the DUI crash or loss of license.

Table 3-29. Comparison of Crash Victim Survey and DUI Offender Survey Results

Crash victim survey question	Crash victim survey response	DUI offender survey question	DUI offender survey response
Employed at time of crash (Question 9)	80.8%	Employed at time of DUI arrest (Question 13)	91.8%
Professional employment at current job (Question 7c)	27.1%	Professional employment at current job (Question 11d)	16.0%
Average tenure (months) at current job (Question 7a/b)	72 months	Average tenure (months) at current job (Question 11a/b)	64 months
Average weekly hours worked at current job (Question 7d)	38 hours/week	Average weekly hours worked at current job (Question 11g)	45 hours/week
Average weekly gross earnings at current job (Question 7e)	\$670/week	Average weekly gross earnings at current job (Question 11h)	\$717/week
Average total uncompensated lost wages for those employed at time of crash (Question 10a)	\$682	N/A	N/A
Average difference between regular pay and disability pay for those employed at time of crash & injured in crash (Question 10b)	<b>\$</b> 150	N/A	N/A
Average weekly reduction in income for those employed at time of crash (Question 10c)	\$99	Average weekly reduction in income for those employed at time of DUI arrest (Question 20)	\$95

### 4.0 SUMMARY AND RECOMMENDATIONS

This research indicates that employment consequences of administrative license revocation on DUI offenders are mainly restricted to the need to find alternative transportation. This is generally achieved by riding with others. Offenders see this as an inconvenience, but lost income is uncommon. An impact on established travel patterns is also noticed with regard to functions like shopping and especially for social and recreational purposes. This finding is a general one and is not related to the nature and length of revocation.

Some adaptation to loss of license is accomplished by depending on others, such as family and co-workers. Some is accomplished by driving while unlicensed; it is difficult to control this behavior through law because the population views the risk of apprehension as low.

Alcohol-involved crashes have a great impact on seriously injured victims. However, the proportion of DUI crashes producing serious injury is quite low. Most DUI is crash-free, and most crashes do not involve injury. Thus, the vast bulk of the impact of DUI falls on the offenders and not the "victims."

Some important experience regarding the study of DUI offenders was obtained in the course of this project. The method of obtaining information from offenders at alcohol highway safety schools and alcohol treatment programs worked very well for both first and multiple offenders literate in English. The schools and treatment programs were interested in the research study and were therefore cooperative and accommodating of the research requirements. A very high participation rate was obtained from the offenders. (Of course, they were somewhat of a captive audience and were not actually told that participation in the survey was voluntary.)

Another implication of this research study is that the needs of Spanish speaking DUI offenders may not be adequately addressed by the current alcohol education and treatment program methods. This group is very different from the DUI offenders for whom English is the primary language, in terms of culture, education, employment, and driving experience. A Spanish version of the DUI offender questionnaire was developed for administration in the special classes conducted in Spanish in California and Pennsylvania. The Spanish questionnaire met several obstacles in practice, and in the end the attempt was abandoned when it turned out that members of the target group were often illiterate in Spanish as well as English, and were not able to complete a paper-and-pencil survey on their own. Also, some components of the questionnaire were foreign to the Hispanic classes.

The Spanish speaking respondents raised a problem that was not recognized at the time the interview was prepared, which is that our conception of jobs and employment does not correspond with the understanding of some segments of society. Many of the Mexican immigrants in the sample worked at a different "job" every day. Furthermore, many of the

Hispanics never possessed a driver's license and thus could not have been greatly influenced by that sanction. The questions concerning license revocation made little sense to them. Other, similar, problems were discovered, such as the fact that many Spanish speakers in Pennsylvania lived in company dormitories and lacked understanding of the journey to work.

This research has also found that administrative license systems differ in their efficiency. In some places, represented by Maryland, hearings are almost routinely requested and they often result in return of the license. In others, including both California and Delaware, few requests are made and few are successful in canceling the penalty. A partial explanation may be found, as in Delaware and to a limited extent in Maryland, in the policy of demanding police attendance at hearings and restoring the license of drivers if police do not attend.

Policy recommendations based on these findings are:

- 1. One should not expect loss of jobs and income from administrative license revocation as great as 90 days for first offenders. Since such revocation has safety benefits, continued support for the adoption of administrative license revocation policies is recommended.
- 2. The data indicate no strong reason to prefer one form or duration of ALR over another, from the viewpoint of minimizing economic consequences.
- 3. Because the population perceives the risk of apprehension for unlicensed driving as very low, more should be done to increase the rate of detection, and such efforts should be widely publicized.
- 4. States should facilitate license reinstatement at the end of the sanction period to encourage drivers to reenter the licensing system.
- 5. Since the public is still not familiar with administrative license revocation, more resources should be devoted to publicizing this remedial action in order to achieve general deterrence.

The data in this study show that administrative license revocation does not have a major impact on the DUI offender's job and income. An important reason for this is the willingness of offenders deprived of licenses to continue driving. Although they may drive more safely than they did when licensed, presumably even greater safety might be accomplished if the license revocation were more visibly enforced. However, to the extent that the revocation is complied with, there may occur a greater impact on jobs and income than noted. This general issue requires exploration.

Several issues amenable to future research have been identified in the course of this project. A first topic for further research concerns whether driving would be further

reduced with vehicle sanctions, i.e., policies designed to separate would-be drunk driving offenders from access to vehicles. A good model might be Minnesota's license plate confiscation law, applicable to all vehicles driven or owned by multiple offenders. Alan Rodgers (1994) has shown that this law decreases DUI recidivism, but he did not explore the economic consequences of this policy.

A second topic which was not addressed because of contract specifications, but which is related, concerns the direct economic impact of the DUI conviction in the matter of fines, legal expenses, program fees, and insurance surcharges. These costs are quite likely to exceed the income impacts investigated in this report. One should explore differences in these costs by the financial status of the offenders. It is likely that these costs reduce the ability of the offenders to gain access to vehicles and therefore lower DUI recidivism as a collateral matter.

More is needed on enforcing the prohibition of driving while suspended or revoked. What is or would be the impact of increasing checkpoints, whether as an aspect of sobriety checkpoints or separate operations (which could be held during the day and at different kinds of sites)? Would a requirement for licenses to be displayed in windshields produce less unlicensed driving? Technological "fixes" have been suggested, things like making licenses readable by roadside scanners identifying the age and sex of the owners so that police could identify probable unlicensed drivers. Would stiffer penalties deter unlicensed drivers more than they do the general population of potential DUIs?

Finally, the population in this study very largely declares expectations of becoming relicensed, an outcome desirable at first glance because both knowledge and control efforts are enhanced by relicensing. However, the degree to which these expectations are fulfilled is unknown, and the actual consequences or relicensing are not known. A panel study might follow a set of unlicensed drivers over time to check when and how they achieve relicensing, and compare those who do get licensed with those who do not in terms of subsequent driving history. It is possible that a failure to get relicensed is favorable for traffic safety due to the increased effort of the illegal driver to avoid detection.

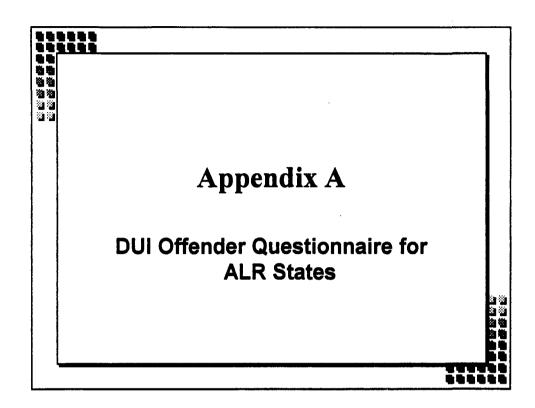
#### 5.0 LITERATURE REFERENCES

- Accident Facts, 1993 Edition, National Safety Council, 1993.
- Blincoe, Lawrence J. and Faigin, Barbara M., *The Economic Cost of Motor Vehicle Crashes, 1990*, U.S. Department of Transportation, National Highway Traffic Safety Administration, DOT-HS-807-876, September 1992.
- Evans, Leonard, *Traffic Safety and The Driver* (New York: Van Nostrand Reinhold, 1991).
- Hagen, R.E., Effectiveness of License Suspension or Revocation for Drivers Convicted of Multiple Driving-Under-the-Influence Offenses (Sacramento, CA: Department of Motor Vehicles, 1977).
- Hagen, R., McConnell, E. and Williams, R., Suspension and Revocation Effects on the DUI Offender (Sacramento, CA: Department of Motor Vehicles, 1980).
- Hagen, R.E., Williams, R.L., and McConnell, E.J., "The Traffic Safety Impact of Alcohol Abuse Treatment as Alternative to Mandated Licensing Controls," *Accident Analysis and Prevention*, Vol. 11, pp. 275-291, 1979.
- Highway Safety Research Center, An Initial Evaluation of the North Carolina Statewide Alcohol and Drug Education Traffic Schools Conducted by the UNC Highway Safety Research Centers. Executive Summary (Chapel Hill, NC: University of North Carolina Highway Safety Research, 1983).
- Johnson, Delmas Maxwell, "The Effects of Administrative License Revocation on Employment: A Preliminary Report," Office of Alcohol and State Programs, Traffic Safety Programs, National Highway Traffic Safety Administration, August 1986.
- Kedjidjian, Catherine B., "Cut Crashes, Cut Costs," *Traffic Safety*, July-August 1994, pp. 12-15.
- Knoebel, K.Y., Ross, H.L., Schmidt, S.L., and Decina, L.E., State of Delaware Driving Under the Influence (DUI) Program Evaluation: Final Report, Delaware Department of Public Safety, Contract No. 07-95-02, June 1995.
- "License Revocation Requires Minimal Costs," *Operation Buckle Down Dispatch*, Vol. 3, No. 2, February 1994.
- MADD Pennsylvania Victim Information Booklet, MADD PA State Office, Harrisburg, PA, 1992.

- Miller, Ted R., Ph.D., "The Cost of Injuries to Employers, Methods Supplement," U.S. Department of Transportation, National Highway Traffic Safety Administration, DOT-HS-807-971, April 1993.
- Miller, Ted R., Ph.D., "The Cost of Injuries to Employers, A Traffic Safety Compendium," U.S. Department of Transportation, National Highway Traffic Safety Administration, DOT-HS-807-970, April 1993.
- Network of Employers for Traffic Safety Annual Report, NETS, Washington, DC, 1992.
- Peck, R.C., Sadler, D.D., and Perrine, M.W., "The Comparative Effectiveness of Alcohol Rehabilitation and Licensing Control Actions for Drunk Driving Offenders: A Review of The Literature," *Alcohol, Drugs and Driving*, Vol. 4, No. 15 (1986), pp. 39.
- Popkin, C., Li, L., Lacey, J., Stewart, R., and Waller, P., An Initial Evaluation of the North Carolina Alcohol and Drug Education Traffic Schools. Volume I (Chapel Hill, NC: University of North Carolina Highway Safety Research Center, 1983).
- Popkin, C., Stewart, R., and Lacey, J., A Follow-Up Evaluation of North Carolina's Alcohol and Drug Education Traffic Schools and Mandatory Substance Abuse Assessments: Final Report (Chapel Hill, NC: University of North Carolina Highway Safety Research Center, 1988).
- Rodgers, Alan, "Effect of Minnesota's License Plate Impoundment Law on Recidivism of Multiple DWI Offenders," *Alcohol, Drugs, and Driving*, Vol. 10, No. 2 (1994), pp. 127-134.
- Ross, H. Laurence, Administrative License Revocation for Drunk Drivers: Options and Choices in Three States (Washington, DC: AAA Foundation for Traffic Safety, April 1991).
- Ross, H., McCleary, R. and LaFree, G., "Can Mandatory Jail Laws Deter Drunk Driving? The Arizona Case," *Journal of Criminal Law and Criminology*, Vol. 81, No. 1 (1990), pp. 155-172.
- Ross, H. Laurence, Confronting Drunk Driving: Social Policy for Saving Lives (New Haven, CT: Yale University Press, 1992).
- Ross, H. Laurence and Gonzales, Phillip, "Effects of License Revocations on Drunk-Driving Offenders," *Accident Analysis and Prevention*, Vol. 20, No. 5 (1988), pp. 379-391.
- Ross, H. and Voas, R., The New Philadelphia Story: The Effects of Severe Punishment for Drunk Driving (Washington, DC: AAA Foundation for Traffic Safety, 1989).

- Sadler, D.D. and Perrine, M.W., An Evaluation of the California Drunk Driving
  Countermeasure System: Volume 2. The Long-Term Traffic Safety. Impact of a
  Pilot Alcohol Abuse Treatment as an Alternative to License Suspensions
  (Sacramento, CA: Department of Motor Vehicles, 1984).
- Salzberg, P.M., Hauser, R., and Klingberg, C.L., "License Revocation and Alcoholism Treatment Programs for Habitual Traffic Offenders." Unpublished report prepared for Department of Licensing, Olympia, WA, 1981.
- Staplin, L., Knoebel, K., et al., "Effectiveness of Current Sanctions Against Habitual Offenders," Pennsylvania Department of Transportation, No. 86-16, March 1989.
- Tashima, H.N. and Peck, R.C., "An Evaluation of the Specific Deterrent Effects of Alternative Sanctions for First and Repeat DUI Offenders," *An Evaluation of the California Drunk Driving Countermeasure System, Volume 3.* (Sacramento, CA: California Department of Motor Vehicles, 1986).
- U.S. Department of Transportation, National Highway Traffic Safety Administration, Police Time and Costs Associated With Administrative License Revocation, December 1993.
- U.S. Department of Transportation, National Highway Traffic Safety Administration, Digest of State Alcohol-Highway Safety Related Legislation, Fourteenth Edition, January 1, 1996.
- U.S. Department of Transportation, National Highway Traffic Safety Administration, *Administrative License Revocation: Resource Manual*, July 1992.
- U.S. Department of Transportation, National Highway Traffic Safety Administration, Source of Payment for the Medical Cost of Motor Vehicle Injuries in the United States, DOT-HS-807-800, January 1992.
- U.S. Department of Transportation, National Highway Traffic Safety Administration, Alcohol Limits for Drivers: A Report on the Effects of Alcohol and Expected Institutional Responses to New Limits, Report to Congress, February 1991.
- Waller, P.C., "Licensing and Other Controls of The Drinking Driver," *Journal of Studies on Alcohol*, Suppl. 10 (1985), pp. 150-160.
- Wells-Parker, E. and Cosby, P.J., "Behavioral and Employment Consequences of Driver's License Suspension for Drinking and Driving Offenders," *Journal of Safety Research*, Vol. 19 (1988), pp. 5-20.

Wells-Parker, E. and Cosby, P.J., "Impact of Driver's License Suspension on Employment Stability of Drunken Drivers," Social Science Report Series 87-3, Social Science Research Center, Mississippi State University, 1987.



Questionnaire for ALR States - Final Version 6

		Interview Date:	/94
while is cal	ere is an interest in finding out how your most ile intoxicated) arrest has affected your life, escalled "your most recent DUI arrest." The ommendations concerning state DUI/DWI law	specially your employment. In this que e results of this anonymous survey w	stionnaire, this arrest ill be used to make
	Section	a 1. Introduction	
Q1.	. Which of the following best describes the r THE MOST APPROPRIATE ANSWER. J	reason you are attending today's program	m? [PLEASE CIRCLE
	1. DUI/DWI arrest		
	2. Self referral		
	<ul><li>3. Employee assistance program referral</li><li>4. Other (please specify:</li></ul>		)
	>>>> IF YOU ARE NOT HERE TO TO Q41 ON PAGE 9. <<<<	DAY BECAUSE OF A DUI/DWI ARR	EST, PLEASE SKIP
Q2.	. In what county and state do you currently	/ live?	
	County:	State:	
Q3.	. What was the date (month and year) and resulted in your attendance at this program	•	rest (the one that has
	(Month) (Year) (Loca	ation: City/town/township/borough, stat	e)
Q4.	. Did you have a license at the time of this	most recent DUI arrest?	
	1. Yes	2. No [If No, SKIP to Q6.]	
Q5.	. When did you first lose your license beca	use of this most recent DUI arrest (mo	nth and year)?
	(Month) (Year) OR I have	e not yet lost my license or started my ASE CIRCLE THE ABOVE LINE IF AF	license suspension. PPROPRIATE. J
Q6.	. Was this most recent DUI arrest your FII	RST DUI arrest since you started driving	ıg?
	1. Yes [If FIRST DUI arrest, SKIP to Q9	9.J 2. No	
Q7.	. How many total DUI arrests (including thi	is most recent one) have you had in the	last year?
Q8.	. How many total DUI arrests (including thi	is most recent one) have you had in the	last 5 years?

Questionnaire for ALR States - Final Version 6

#### Section 2. Employment, Schooling, Job Search, and Not Employed Periods in 1992/1993/1994

- Q9. We would now like you to tell us (to the best of your ability) about your employment from January 1st of 1992 to the present. On the monthly 1992/1993/1994 calendar below, please enter a number from the following list (1-7) in each month block to show your activity that month. If more than one activity applied in a month, enter the numbers for all applicable activities for the month. Choose from these seven categories:
  - 1. Employment (any activity from which you received income, including full-time employment, part-time employment, self employment, and military service)
  - 2. School attendance (high school, college, trade school)
  - 3. Unemployment, during which time you were searching for a job
  - 4. Not working of your own choice (i.e., you were NOT searching for a job)
  - 5. Disability
  - 6. Retirement
  - 7. Jail

Please enter at least one number (from 1-7) in all applicable months below:

	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec
1992							- - -					
1993												
1994												

If you did NOT enter a "1" (employment) in any month block above, SKIP TO Q21 ON PAGE 6.

Q10.	What changes took place in your employment and income because of your DUI and/or loss of license?
	[IF YOU NEED MORE ROOM, PLEASE WRITE ON THE BACK OF THIS PAGE.]

We would now like you to provide some additional information on the following pages for all jobs you held from January 1, 1992 to the present (those jobs corresponding to all "1s" on the monthly calendar above). Please follow these additional instructions:

- 1. Enter overlapping time periods if appropriate. For example, if you held two part-time jobs at the same time, provide information on both jobs.
- 2. If you changed jobs while working for the same employer during 1992, 1993, or 1994, please provide information on these two jobs separately.

Questionnaire for ALR States - Final Version 6

	Please answer the following for your current job (or most recent job if currently NOT employed).									
Q11a.	When did you start work at your current job (or most recent job if you are currently NOT employed)?									
	Month: Year: 19									
Q11b.	When did you stop working at the job you referred to in Q11a?									
	Month: Year: 19 OR I am currently still employed at this job.									
Q11c.	Which of the following best describes the industry or type of employer of your current job (or most recent job if you are currently NOT employed)? [CIRCLE THE MOST APPROPRIATE ANSWER.]									
	1. Agriculture       5. Transportation       9. Finance/insurance/real estate         2. Mining       6. Utilities       10. Services         3. Construction       7. Wholesale trade       11. Local/state government         4. Manufacturing       8. Retail trade       12. Federal government         13. Military       14. Other (please specify:									
Q11d.	Which of the following best describes the type of work you do at your current job (or most recent job if you are currently NOT employed)? [CIRCLE THE MOST APPROPRIATE ANSWER.]									
	1. Professional4. Sales: High-Level7. Service (e.g., food service)10. Professional driver2. Technical5. Sales: Clerical8. Craft/skilled worker11. Laborer3. Managerial6. Non-Sales: Clerical9. Machine operator12. Other (please specify:)									
Q11e.	What is/was your most recent one-way average commute distance from home to work for your current job (or most recent job)?  miles one-way (average)									
Q11f.	How would you describe your need to drive at your current job (or most recent job)? [CIRCLE ALL THAT APPLY.]									
	<ol> <li>I don't require a vehicle to do my job.</li> <li>I drive my own vehicle as part of my job every day.</li> <li>I drive my own vehicle as part of my job sometimes.</li> <li>I drive another vehicle as part of my job every day.</li> <li>I drive another vehicle as part of my job every day.</li> </ol>									
Q11g.	In an average week, how many hours do/did you work at your current job (or most recent job)?									
	hours/week (average)									
Q11h.	In an average week, what are/were your gross earnings at your current job (or most recent job)?									
	\$/week average gross earnings (before taxes or withholdings)									
Q11i.	If you are not still working at this job, why did you leave? [CIRCLE ONE.]									
	1. Better opportunity 3. Medical/disability 5. Relocation 7. Return to school 2. Layoff/termination 4. DUI/loss of license 6. Resignation/unsatisfactory job conditions 8. End of temporary job									

Questionnaire for ALR States - Final Version 6

	Please answer the following for the job you held before the one you just described on the last page	?.
Q12a.	SKIP TO Q13 IF NO MORE JOBS HELD.) When did you start work at this next most recent job?	?
	Month: Year: 19	
Q12b.	When did you stop working at this next most recent job?	
	Month: Year: 19 OR I am currently still employed at this job.	
Q12c.	Which of the following best describes the industry or type of employer of this next most recent job CIRCLE THE MOST APPROPRIATE ANSWER.]	)?
	1. Agriculture 5. Transportation 9. Finance/insurance/real estate 2. Mining 6. Utilities 10. Services 3. Construction 7. Wholesale trade 11. Local/state government 4. Manufacturing 8. Retail trade 12. Federal government 4. Military 14. Other (please specify:	)
Q12d.	Which of the following best describes the type of work you did at this next most recent job? [CIRCL THE MOST APPROPRIATE ANSWER.]	E
	1. Professional 4. Sales: High-Level 7. Service (e.g., food service) 10. Professional driver 2. Technical 5. Sales: Clerical 8. Craft/skilled worker 11. Laborer 3. Managerial 6. Non-Sales: Clerical 9. Machine operator 12. Other (please specify:)	
Q12e.	What was your most recent one-way average commute distance from home to work for this next morecent job?  miles one-way (average)	st
Q12f.	How would you describe your need to drive at this next most recent job? [CIRCLE ALL THAT APPLY	`.J
	<ol> <li>I don't require a vehicle to do my job.</li> <li>I use my own vehicle to commute to work only.</li> <li>I drive my own vehicle as part of my job sometimes.</li> <li>I drive another vehicle as part of my job sometimes.</li> <li>I drive another vehicle as part of my job every day.</li> </ol>	
Q12g.	In an average week, how many hours did you work at this next most recent job?	
	hours/week (average)	
Q12h.	In an average week, what were your gross earnings at this next most recent job?	
	\$/week average gross earnings (before taxes or withholdings)	
Q12i.	If you are not still working at this job, why did you leave? [CIRCLE ONE.]	
	1. Better opportunity 3. Medical/disability 5. Relocation 7. Return to school 2. Layoff/termination 4. DUI/loss of license 6. Resignation/unsatisfactory job conditions 8. End of temporary job	ob

Questionnaire for ALR States - Final Version 6

If you worked at more than two jobs in 1992/1993/1994, please ask for additional pages to record the information for these additional jobs. After you have completed recording all jobs that you worked from January 1, 1992 to the present, continue to Q13.

· <u>-</u>	Section 3. Effects o	n Employment of DUI Arrest/Loss of License							
Q13.	Were you employed at the time of	Were you employed at the time of your most recent DUI arrest?							
	1. Yes	2. No [If No, SKIP to Q21 on PAGE 6.]							
		ONE JOB AT THE TIME OF YOUR DUI ARREST, PLEASE OR THE JOB FROM WHICH YOU HAD THE MOST INCOME.							
Q14.	On a scale from 1 to 5, how woul of your most recent DUI arrest?	d you rate your overall satisfaction with the job you held at the time							
	Very Dissatisfied 123.	45 Very Satisfied [CIRCLE A NUMBER FROM 1 TO 5.]							
Q15.	Were you self-employed at the time	me of your DUI arrest?							
	1. Yes [If Yes, SKIP to Q19.]	2. No							
Q16.	Does/did your employer know about	out your DUI arrest?							
	1. Yes	2. No [If No, SKIP to Q18.]							
Q17.	How did your employer find out	about your DUI arrest? [CIRCLE THE BEST ANSWER.]							
	<ol> <li>I told my employer.</li> <li>A co-worker told my employ</li> <li>My employer read about it in</li> <li>The Department of Motor Ve</li> <li>Other (Please specify:</li> </ol>	the newspaper.							
Q18.	Does/did your employer (at the ti	me of your DUI arrest) know that you lost your license?							
	1. Yes 2. N	o 3. I have not yet lost my license							
Q19.	On a scale from 1 to 5, to what e arrest or loss of license?	extent has your income been reduced as a direct result of your DUI							
	Not at All 1234	5 Very Much [CIRCLE A NUMBER FROM 1 TO 5.]							
Q20.	[SKIP to Q21 IF YOU ANSWERE direct result of your DUI arrest o	D "Not at All" to Q19.] How much was your income reduced as a r loss of license (\$/week)?							
	\$ /week of reduc	ed income as a direct result of my DIII arrest or loss of license							

Questionnaire for ALR States - Final Version 6

	Section 4. Experiences With DUI Arrest and Loss of License
Q21.	What vehicle were you driving at the time of your most recent DUI arrest?
	a. Year: b. Make:
Q22.	In whose name was the vehicle you were driving at the time of your most recent DUI arrest registered [CIRCLE THE MOST APPROPRIATE ANSWER.]
	1. My own name 2. Spouse 3. Relative (other than spouse) 4. Friend (living in same household) 5. Friend (not living in same household) 6. Prior Owner 7. Other (please specify:
Q23.	Were you wearing your seat belt at the time of your DUI arrest?
	1. Yes 2. No
Q24.	What did the police say was the reason for stopping your vehicle when the DUI arrest was made [CIRCLE THE MOST APPROPRIATE ANSWER.]
	<ol> <li>Accident</li> <li>Erratic/reckless driving (e.g., weaving)</li> <li>Speeding</li> <li>Other moving traffic violation (e.g., failure to stop at red light, improper turning)</li> <li>Vehicle violation (e.g., expired inspection sticker, tail light out, no headlights)</li> <li>Roadblock or sobriety checkpoint</li> <li>Other (Please specify:</li> </ol>
Q25.	How frequently in the year before your most recent DUI arrest did you consume 1-2 beers/mixed drinks/glasses wine less than 1 hour before driving? [CIRCLE THE MOST APPROPRIATE ANSWER.]
	1. Never 2. Once in a while 3. More than once per week 4. Daily
Q26.	How frequently in the year before your most recent DUI arrest did you consume 3 beers/mixed drinks/glasses wine less than 1 hour before driving? [CIRCLE THE MOST APPROPRIATE ANSWER.]
	1. Never 2. Once in a while 3. More than once per week 4. Daily

Questionnaire for ALR States - Final Version 6

>>> IF YO	OU HAVE NOT	YET LOST YOUR	LICENSE BECAUSE	OF YOUR MOS	T RECENT
DUI ARREST,	PLEASE SKIP	TO Q41 ON PAGE	E 9. <<<<		

Q27.	. Did you take a breath test at the time of your most recent DUI arrest?							
	1. Yes [If Yes, SKIP to Q29.]	2. No						
Q28.	8. Were you charged with refusing a breath test?							
	1. Yes	2. No						
Q29.		t, did you know you could lose your license for failing or refusing T convicted of a DUI offense in court?						
	1. Yes	2. No						
Q30.	Did you request an administrative l license to get your license back?	nearing with the Department of Motor Vehicles when you lost your						
	1. Yes	2. No [If No, SKIP to Q34.]						
Q31.	Did you attend the administrative h	nearing?						
	1. Yes	2. No						
Q32.	Did the arresting police attend the	administrative hearing?						
	1. Yes	2. No						
Q33.	What was the result of the adminis	trative hearing?						
	1. I lost my license 2. I got my l	icense back [If license returned, SKIP to Q41 on PAGE 9.]						
Q34,.	When did your most recent DUI li	cense suspension/revocation officially BEGIN?						
	(Month) (Year)							
Q35.	How long will (or did) this most re	ecent DUI license suspension/revocation last?						
	days, or							
	weeks, or	[ENTER A NUMBER FOR THE APPROPRIATE TIME PERIOD (e.g., 3 months or 1 year).]						
	month(s), or	LEEUD (C.g., normal or your, j						
	year(s)							

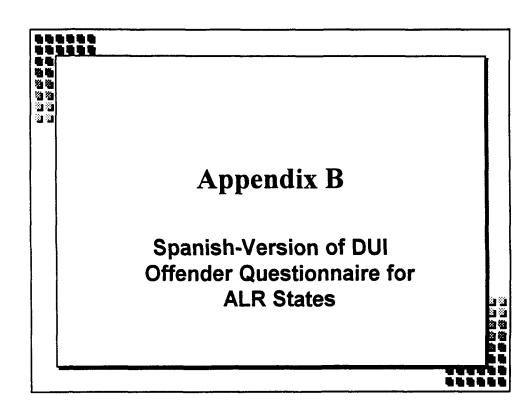
Questionnaire for ALR States - Final Version 6

Q36.		a scale from 1 to 5, pension/revocation ends			it that you	will (or di	id) get yo	our license	when your			
	No	t at all Likely 12.	3	45	Very Like	ly [CIRCI	E A NUM	BER FROM	1 TO 5.J			
Q37.	How likely is it that you will drive while you don't have a license?											
	No	t at all Likely 12.	3	45	Very Like	ly [CIRCI	E A NUM	BER FROM	1 TO 5.J			
Q38.		XIP to Q39 IF YOU ANS n't have a license, how l							e when you			
	No	t at all Likely 12.	3	45	o Very Like	ly <i>[CIRCI</i>	E A NUM	BER FROM	1 TO 5.J			
Q39.		a scale from 0 to 5, to work of the scale and to 5 to				ense interfe	red with th	ne following	? [CIRCLE			
				Not licable	Not at All		Somewh	at	Very Much			
	a.	Work		0	1	22	3	4	5			
	b.	Social/recreational acti	vities	0	1	2	3	4	5			
	c.	Shopping		0	1	2	3	4	5			
	d.	Medical appointments		0	1	2	3	4	5			
	e.	Religious services/activ	ities	0	1	2	3	4	5			
Q40.	Since you lost your license, what transportation arrangements do you use frequently for the following? [CIRCLE ALL NUMBERS THAT APPLY FOR EACH ACTIVITY.]											
			1. Drive Myself		Someone Else Drives Me		or Public	4. Walk or Bicycle	5.Other/ Not Applic			
	a.	Work	1	•••••	2	3	• • • • • • • • • • • • • • • • • • • •	4	5			
	b.	Social/recreational activities	1	••••••	2	3	••••••	4	5			
	c.	Shopping	1	••••••	2	3	• • • • • • • • • • • • •	4	5			
	d.	Medical appointments	1	• • • • • • • • • • • • • • • • • • • •	2	3	• • • • • • • • • • • •	4	5			
	e.	Religious services/ activities	1	• • • • • • • • • • • • • • • • • • • •	2	3	• • • • • • • • • • • • • • • • • • • •	4	5			
	f.	How did you get here today?	1	• • • • • • • • • • • • •	2	3	• • • • • • • • • • • •	4	5			
	g.	How did you get to we on the last day you wo			2	3		4	5			

Questionnaire for ALR States - Final Version 6

	Section 5. Back	ground Information	
Q41.	On average, how many miles do you drive p	er year when you have a	full license to drive?
	miles/year (average)	1 -	
Q42.	How many miles did you drive last week?		
	miles last week	1	
Q43.	In which of the following ethnic groups would	ld you classify yourself?	[CIRCLE ONE.]
	<ol> <li>White, not of Hispanic Origin</li> <li>African-American, not of Hispanic Origin</li> </ol>	<ol> <li>Hispanic</li> <li>Native American</li> </ol>	5. Asian/Pacific Islander
Q44.	What is your date of birth (month and year)?	1	
	(Month) (Year)		
Q45.	What is your highest level of education? [CII	RCLE ONE.J	
	<ol> <li>Junior high school (or less)</li> <li>Some high school</li> <li>High school graduate</li> <li>Trade school certificate</li> </ol>	<ul><li>5. Some college, but no</li><li>6. Associates or 2-year or</li><li>7. Bachelors or 4-year or</li><li>8. Masters or doctorate or</li></ul>	college degree ollege degree
Q46.	What is your gender? [CIRCLE ONE.]	. !	1
	1. Male	2. Female	i
Q47.	What is your current marital status? [CIRCLE	E ONE.]	
	<ol> <li>Single</li> <li>Married</li> </ol>	<ol> <li>Divorced</li> <li>Separated</li> </ol>	5. Widowed
Q48.	Other than yourself, how many people live license?		
Q49.	Other than yourself, how many recals live in		
Q <del>4</del> 3.	Other than yourself, how many people live i	n your household who are ehold are currently employ	
Q50.	[If you answered "0" to Q49, SKIP Q50.] Whand withholdings) of these other people who li	hat is the combined weekly	y gross earnings (before taxes
	\$/week gross earnings from or		

THANK YOU VERY MUCH FOR PARTICIPATING IN OUR SURVEY.



	Cuccionario para condos con raza. Versión e i mai
	Fecha de la Entrevista://94
(MI) of se lla utiliza	nos interés en descubrir como su arresto reciente por manejar (guiar) bajo la influencia del alcoholo manejar ebrio (ME) ha afectado su vida, especialmente su empleo. En esta encuesta, este arresto ma "su arresto (ME) más reciente." Los resultados de esta investigación anónima van a ser dos para proponer recomendaciones respecto (ME) y las leyes estatales. Muchas gracias por su bución a este estudio.
	Sección 1. Introducción
P1.	¿Cuál de los siguientes elementos describe mejor la razón por su asistencia en el programa de hoy? [FAVOR DE PONER UN CÍRCULO EN LA RESPUESTA MÁS APROPRIADA.]
	1. Arresto por (MI/ME)
	<ol> <li>Voluntario a si mismo</li> <li>Referido por un programa de asistencia para empleados</li> <li>Otra razón (favor dedecir:)</li> </ol>
	>>> SI NO ESTA AQUÍ HOY POR RAZÓN DE UN ARRESTO POR (MI/ME), FAVOR DE PASAR A P41 EN PÁGINA 9. <<<<
P2.	¿En que condado y estado vive ud. hoy?
	Condado: Estado:
P3.	¿Qué era la fecha (mes y año) y la localidad de su arresto más reciente (el que ha resultado en su presencia en este programa)?
	(Mes) (Año) (Localidad: Ciudad/pueblo/municipio, estado)
P4.	¿Tuvo ud. la licencia de manejar al tiempo de su arresto (ME) más reciente?
	1. Sí 2. No [Si No, PASE a P6.]
P5.	¿Cuándo perdió su licencia al principio por este arresto (ME) más reciente (mes y año)?
	(Mes) (Año) O No he perdido la licencia ni empezado la suspención.  [FAVOR DE PONER UN CÍRCULO EN ESTA LÍNEA SI APROPRIADO.]
P6.	¿Fué este arresto (ME) más reciente su PRIMER arresto (ME) desde que empezó a manejar (guiar)?
	1. Sí [SI ES EL PRIMER ARRESTO (ME, PASE A P9.] 2. No
P7.	¿Cuántos (ME) en total (incluso éste más reciente) ha tenido ud. en este año pasado?
P8.	¿Cuántos arrestos (ME) en total (incluso éste más reciente ha tenido ud. en los ultimos 5 años?

### ESTUDIO DEL IMPACTO DE REVOCACIÓN DE LICENCIA EN EL EMPLEO-1994

Cuestionario para estados con ALR - Versión 6 Final

#### Sección 2. Empleo, Instrucción, Busca de Empleo, y Períodos Sin Trabajo en 1992/1993/1994

- P9. ¿Quisiéramos que ud. nos dijera (segun su capacidad) acerca de su empleo desde el 1 de enero 1992 hasta el presente. En el calendario mensual 1992/1993/1994 abajo, ponga por favor el número de la siguiente lista (1-7) en cada bloque para indicar su actividad ese mes Si mas que un actividad aplica por un mes, ponga los números para todos la actividades aplicable por cada mes. Escoge de estas 7 categorias:
  - 1. Empleo (cualquier actividad de que la recibió ingresos incluso empleo de tiempo pleno, trabajo por horas, empleo de si mismo, y servicio militar
  - 2. Asistencia a la escuela (colegio, universidad, instituto vocacional)
  - 3. Desempleo, mientras buscaba trabajo
  - 4. Sin empleo por su elección (no buscaba trabajo)
  - 5. Incapacidad
  - 6. Retiro
  - 7. Cárcel

#### Favor de poner un número por lo menos (de 1-7) para cada mes abajo:

	ene	feb	mar	abril	may	jun	jul	ago	sept	oct	nov	dic
1992										i		
1993							3.					
1994												

Si no indicó "1" (empleo) para ningún mes arriba, FAVOR DE PASAR A P21 EN PÁGINA 6.

P10.	licencia? [SI NECESITA MÁS ESPACIO, FAVOR DE ESCRIBIR AL REVES DE ESTA PÁGINA.]

Ahora queremos que ud. nos provee más información en las proximas páginas para todos los trabajos que ud. tuvo desde el 1 de enero 1992 hasta el presente (trabajos que corresponden a todo los "1s" en el calendario mensual arriba). Favor de seguir con estas instrucciones adicionales:

- 1. Ponga los períodos de cubertura parcial si es apropriado. Por ejemplo si mantuvo dos trabajos de tiempo parcial, provee información alredor de ambos trabajos.
- 2. Si ud. cambió trabajos mientras trabajaba por el mismo patrón durante 1992, 1993, o 1994, favor de proveer información de los dos trabajos por separado.

•	empleado).	4				\?		
a.				ijo mas recien	te si no esta trabajando ah	ora):		
	Mes:	Año: 19	<del></del>	•	ı			
b.	¿Cuándo termino	o el trabajo ref	erido en P11a?		I			
	Mes:	Año: 19	O Esto	y empleado to	odavía en este trabajo.			
c.	¿Cuál de los sigu reciente si no tier	uientes <b>mejor</b> ne trabajo)? [1	representa la i PONGA UN CI	industria o el 'RCULO EN E	dueño de su trabajo actua L NÚMERO APROPRIAD	l (o el trabajo OJ		
	1. Agricultura	5. T	ransportación		9. Finanzas/seguros/prop	edades		
	2. Minería		ervicios municip		10. Industria de servicios			
	3. Construcción	7. V	entas al por ma	yor	11. Gobierno local/estatal			
	4. Fabricación		omercio al por		12. Gobierno federal			
	13. Militario	14. C	tro (favor de in	dicar:				
	<ol> <li>Profesional</li> <li>Técnico</li> <li>Administración</li> </ol>	4. Ventas 5. Ventas n 6. Oficini	: Alto Nivel : Dependiente	7. Servicios (	ULO EN LA RESPUESTA : eje., productos de comida)			
	12. Otro (favor de				es/era el promedio distanci			
в.	de su vaje diario	desde la casa		oajo?				
•	¿Cómo describir [PONGA CÍRCU				su trabajo actual (o trab	ajo mas recie		
	1. No es necesario r	manejar para hace	r mi trabaio.		i			
	2. Uso mi vehículo		-					
	3. Es necesario manejar mi vehículo en el trabajo de vez en cuando.							
	4. Es necesario manejar mi vehículo como parte de mi trabajo cada día. 5. Manejo otro vehículo en mi trabajo de vez en cuando.							
	<ol> <li>Manejo otro vehi</li> <li>Manejo otro vehi</li> </ol>	-		<b>3.</b>	İ			
	En una semana t	ípica, ¿cuántas	horas trabaja/	trabajaba en si	u trabajo actual (o trabajo	mas reciente)?		
<b>3</b> .								
g.	h	oras/semana (1	oromedio)		i			
				los brutos en :	su trabajo actual (o trabajo	mas reciente)		
	En una semana t	ípica, ¿que so	n/eran sus suelo		su trabajo actual (o trabajo de impuestos o retencione			
h.	En una semana t	ipica, ¿que son	n/eran sus suelo	omedio (antes	de impuestos o retencione	s)		
g. h.	En una semana t \$Si es que ya no	ípica, ¿que son/semana ing tiene este tra	n/eran sus suelo resos brutos pr bajo, ¿por qué	omedio (antes	i	s)		
h.	En una semana t \$ Si es que ya no  1. Mejor oportu	ipica, ¿que son _/semana ing tiene este tra	n/eran sus suelo resos brutos pr bajo, ¿por qué 7. Regres	omedio (antes lo dejó? <i>[PO:</i> ar al escuela	de impuestos o retencione	s)		
h.	En una semana t  Si es que ya no  1. Mejor oportu 2. Me despidier	ípica, ¿que son _/semana ing tiene este tra unidad ron	n/eran sus suelo resos brutos pr bajo, ¿por qué 7. Regres	omedio (antes	de impuestos o retencione	s)		
h.	En una semana t  Si es que ya no  1. Mejor oportu 2. Me despidier 3. Razón médic	/semana ing tiene este tra unidad ron ea/incapacidad	n/eran sus suelo resos brutos pr bajo, ¿por qué 7. Regres	omedio (antes lo dejó? <i>[PO:</i> ar al escuela	de impuestos o retencione	s)		
h.	En una semana t  Si es que ya no  1. Mejor oportu 2. Me despidier	/semana ing tiene este tra unidad ron ea/incapacidad	n/eran sus suelo resos brutos pr bajo, ¿por qué 7. Regres	omedio (antes lo dejó? <i>[PO:</i> ar al escuela	de impuestos o retencione	s)		

Favor de dar respuestas para las siguientes preguntas en relación del trabajo que tuvo antes del trabajo referido en la página antes.

	Mes:	Año: 19			•		
P12b.	¿Cuándo termin	ó el empleo en	el trabajo	anteri	or del más i	reciente?	
	Mes:	Año: 19	o	Toda	vía estoy er	npleado con este trabajo.	
P12c.	¿Cuál de los sig reciente? [PON	quientes elemen GA CÍRCULO	itos <b>repres</b> EN LA RES	enta r SPUES	nejor la in STA APROF	dustria o dueño del traba RIADA.]	ijo anterior del m
	<ol> <li>Agricultura</li> <li>Minería</li> <li>Construcción</li> <li>Fabricación</li> <li>Militario</li> </ol>	6. S 7. C 8. V	ransportaci ervicios mu comercio al centas al po Otro: (favor	inicipi por n or men	os nayor or	9. Finanza/seguros/pro 10. Industria de servicio 11. Gobierno local/estat 12. Gobierno federal	os
P12d.	¿Cuál de los sigu reciente? [PONG	ientes elemento A CÍRCULO E	os <b>mejor d</b> EN LA RES	escribe PUES	e el tipo de TA APROPI	trabajo que hizo en el trab RIADA.]	ajo anterior del ma
	<ol> <li>Profesional</li> <li>Técnico</li> <li>Administració</li> <li>Otro (favor de</li> </ol>	<ol> <li>Ventas</li> <li>Oficini</li> </ol>	: Dependier	nte 8.		eje. productos de comida	10. Chofer Profesional 11. Obrero
P12e.	¿Para este trabajo viaje diario de la	casa al lugar o	de trabajo?		é es/era el p (promedio)	romedio de distancia, en	una dirección en s
P12f.	¿Cómo describirí	a su necesidad	de manejar			abajo anterior del más rec	iente? [PONGA U
	No es necesario n     Uso mi vehículo     Es necesario man     Es necesario man     Manejo otro vehí     Manejo otro vehí	solamente para via ejar mi vehículo e ejar mi vehículo c culo en mi trabajo	jar al trabajo. n el trabajo de omo parte de de vez en cu	e vez er mi trab	ı cuando. Ajo cada día.		
P12g.	En una semana ti	ípica, ¿cuántas	horas traba	ijaba e	n este traba	jo anterior del más recien	ite?
	h	oras/semana (p	romedio)				
P12h.	En una semana ti	ípica, ¿qué era	sus sueldos	s brute	s en este tr	abajo anterior del más rec	ciente?
	\$	_/semana ingr	esos brutos	prom	edio (antes	de impuestos o retencione	es)
P12i.	Si es que ya no	tiene este trab	ajo, ¿por o	qué lo	dejó? [PO	NGA UN CÍRCULO EN I	UNO.]
	<ol> <li>Mejor oportun</li> <li>Me despidiero</li> <li>Razón médica</li> </ol>	n			l escuela nporario se	terminó	

Si ud. tuvo más que dos trabajos en 1992/1993/1994, favor de pedirnos más páginas para reportar la información de estos otros trabajos. Después de completar recordando todos los trabajos que tuvo desde el 1 de enero 1992 hasta el presente, continúe con P13.

			•	:				
	Sección 3. I	mpactos en el Er	npleo del Arresto	(ME)/Pérdida de Licencia				
P13.	Estaba ud. empleado cuando fue arrestado por ME?							
	1. <b>S</b> ſ	2. 1	No [Si No, pase a	P21 en PÁGINA 6.]				
	SI UD. TUVO M. FAVOR DE RESF CUAL RECIBÍA I	ONDER A LOS	SIGUIENTES ELL	OMENTO DE SU ARRESTO POR ME, EMENTOS PARA EL TRABAJO DEL LO				
P14.	En una escala de 1 a 5, ¿cómo evaluaría su satisfacción en general con el trabajo que tuvo en el momento de su arresto (ME) más reciente?							
	Muy Disfatisfecho NÚMERO.]	123	45 Muy Sat	isfecho [PONGA UN CÍRCULO EN UN				
P15.	¿Estaba ud. emple	ado por si mism	o en el tiempo de	su arresto (ME)?				
	1. St [Si St, PASi	E a P19.] 2. 1	No					
P16.	¿Supo/sabe su pat	rón de su arresto	(ME)?					
	1. <b>S</b> í	2. 1	No [Si No, PASE	a P18.]				
P17.	¿Cómo supo o disc RESPUESTA.]	crubió su patrón d	le su arresto (ME)?	P [PONGA UN CÍRCULO EN EL MEJOR				
	3. Mi patrón lo	o de trabajo le di leyó en el periód ento de Vehículos		reporto al patrón.				
P18.	¿Supo/sabe su pat	rón que ud. perdi	ió la licencia cuano	lo lo arrestaron por ME?				
	1. Sí	2. No	3. No	he perdido la licencia todavía.				
P19.	En una escale de arresto (ME) o la			ducido su ingresos por causa directa del				
	Nada 12	345 Mu	ichísimo [PONGA	UN CÍRCULO UN UN NÚMERO 1 A 5.]				

[PASE a P21 SI RESPONDIÓ "NADA" A P19.] ¿Por cuanto fue reducido sus ingresos por causa

/semana ingresos reducidos por causa directa de mi arresto (ME) o pérdida

directa de su arresto (ME) o pérdida de la licencia? (\$/semana)?

de licencia

P20.

### ESTUDIO DEL IMPACTO DE REVOCACIÓN DE LICENCIA EN EL EMPLEO-1994

Cuestionario para estados con ALR - Versión 6 Final

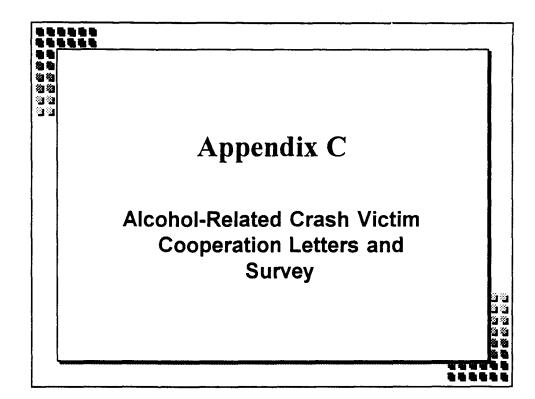
	Sección 4. Expe	eriencias Co	n Arresto ME	y Perdida de Licene	ia
P21.	¿Qué tipo de vehículo man	ejaba al mor	nento de su ar	resto (ME) más recien	nte?
	a. Año: b.	Marca:		· :	
P22.	¿En el nombre de quien est por ME? [PONGA UN CÍI				cuando lo arrestaror
	<ol> <li>El nombre mío</li> <li>Cónyuge</li> <li>Pariente (no cónyuge)</li> <li>Otro (favor de decir:</li> </ol>	5. A 6. E	amigo (vivienda amigo (no vivie al dueño anterio	endo en mi casa)	)
P23.	¿Estaba ud. usando el cint	urón de segu	ridad cuando l	o arrestaron por ME?	,
	1. Sí	2. No		f	
P24.	¿Qué fue la razón que el [PONGA UN CÍRCULO E				arrestaron por ME
	<ol> <li>Accidente</li> <li>Manejando irregularm</li> <li>Velocidad excesiva</li> <li>Otra violación de tráf</li> <li>Violación de vehículo</li> <li>Barricada (o inspecció</li> <li>Otro (Favor de explication)</li> </ol>	ico (eje., falo (eje., inspec on) policiaca	ta de parar en ección vencida)		
P25.	¿Cón que frecuencia en e cervezas/bebidas/copas de EN LA RESPUESTA MÁS	vino en una	hora o menos a	(ME) más reciente antes de manejar? [PC	ud. consumió 1-2 DNGA UN CÍRCULO
	1. Nunca 2. De vez	en cuando	3. Más que	una vez por semana	4. Diariamente
P26.	¿Con que frecuencia en cervezas/bebidas/copas de EN LA RESPUESTA MAS	vino en una l	hora o menos a		
	1. Nunca 2. De vez	en cuando	3. Más que	una vez por semana	4. Diariamente

#### >>> SI UD. NO HA PERDIDO SU LICENCIA POR RAZÓN DE SU ARRESTO (ME) MÁS RECIENTE, FAVOR DE PASAR A P41 EN PÁGINA 9. < < < <

P27.	¿Tomó ud. el examen de aliento	en su arresto (ME) más reciente?
	1. Sí [Si Sí, PASE A P29.]	2. No
P28.	¿Lo acusaron por rehusar el exar	men de aliento?
	1. Sf	2. No
P29.		eciente, ¿sabía ud. que pudiera perdir la licencia por falta de le aliento, aunque no lo hubieran encontrado culpable por ME
	1. Sí	2. No
P30.	¿Pidió ud. una audencia (vista) a para que se devolvieran la licenc	administrativa con el Departamento de Vehículo Automotrices ia?
	1. Sí	2. No [Si No, PASE A P34.]
P31.	¿Asistió ud. a la audencia admini	istrativa?
	1. Sí	2. No
P32.	¿El agente de policía que lo arrec	stó también asistió a la audencia?
	1. Sf	2. No
P33.	¿Qué fue el resultado de la auder	ncia administrativa?
		volvieron la licencia [Si elegió número 2, PASE a P41 en FINA 9.]
P34.	¿Cuándo se comenzó oficialment	e la suspensión/revocación ME de su licencia?
	(Mes) (Año)	
P35.	¿Cuánto tiempo va durar (o duró)	esta suspensión/revicacuón por su arresto (ME) más reciente?
	días, o	
	semanas, o	• • • • • • • • • • • • • • • • • • • •
	mes(es), o	PERÍODO (eje., <u>3</u> meses o <u>1</u> año).]
	años(s)	

P36.		una escala de 1 a 5, ¿c nina(ó) la suspensión/	qué es (o era) la probabilidad que van a devolver su licencia cuando se revocación?
	No	es probable 123	45 Muy probable [PONGA UN CÍRCULO EN UN NÚMERO 1 A 5.]
P37.	¿Qu	ié es la probabilidad q	ue ud. todavía va manejar aunque no tenga la licencia?
	No	es probable 123	45 Muy probable [PONGA UN CÍRCULO EN UN NÚMERO 1 A 5.]
P38.	mar		CON "NO ES PROBABLE" PASE A Q37.] Consideranndo su modo de la licencia, ¿qué es la probabilidad que la policía lo van a capturar
	No	es probable 123	45 Muy probable [PONGA UN CÍRCULO EN UN NÚMERO 1 A 5.]
P39.			¿hasta que punto la pérdida de licencia ha estorbarado los siguiente V CÍRCULO EN UN NÚMERO O A 5 PARA CADA ACTIVIDAD.]
			No <u>Aplicable Nada Algo Mucho</u>
	a.	Trabajo	01
	ъ.	Actividades sociales	045
	c.	Compras	045
	d.	Consultas médicas	01
	e.	Actividades religiosos	0
P40.	De:	sde que perdió la licend ividades [PONGA UN	cia, ¿qué modo de transportación <b>usa con frecuencia</b> para los siguientes CÍRCULO EN TODOS LOS NÚMEROS QUE APLICAN.]
			1. Yo mismo 2. Otra persona 3. Taxi o Trans- 4. Caminar o 5. Otro/ Manejo Maneja portación Pública bicicleta No Aplica
	a.	Trabajo	145
	b.	Actividas sociales/ recreactivas	14
	c.	Compras	1
	d.	Consultas médicas	145
	e.	Servicios/actividades	14
	f.	religiosas ¿Cómo vino ud. aqui hoy?	145
	g.	¿Cómo llegó al trabajo el último día que traba	

	Sección 5. Informaci	ión Antecedente
P41.	En promedio, ¿cuántas millas maneja al año o	cuando tiene la licencia de manejar?
	millas/año (promedio)	
P42.	¿Cuántas millas manejó la semana pasada?	
	millas la semana pasada	<b>a</b>
P43.	¿En cuál de los siguientes grupos étnicos se ci	lasificaría? [PONGA UN CÍRCULO EN UNO.]
	<ol> <li>Anglosajón, no Hispano</li> <li>Africano-Americano, no Hispano</li> <li>Hispano</li> </ol>	<ul><li>4. Indio/Nativo Americano</li><li>5. Asiático/Isleño del Pacífico</li></ul>
P44.	¿Qué es la fecha de su nacimiento (mes y año)	)?
	(Mes) /(Año)	
P45.	¿Cuál es su nivel de educación [PONGA UN	CÍRCULO EN UNO.]
	<ol> <li>8 años o menos</li> <li>Algo de la secundaria</li> <li>Graduado de la secundaria</li> <li>Certificado vocacional</li> </ol>	<ul><li>5. Algo de universidad, sin título</li><li>6. Título asociado (2 años)</li><li>7. Bachiller (4 años)</li><li>8. Maestria o el doctorado</li></ul>
P46.	¿Cuál es su género (sexo)? [PONGA UN (	CÍRCULO EN UNO.]
	1. Varón	2. Hembra
P47.	¿Cuál es su estado matrimonial? [PONGA UN	N CÍRCULO UN UNO.]
	<ol> <li>Soltero</li> <li>Casado</li> <li>Divorciado</li> <li>Separado</li> </ol>	5. Viudo(a)
P48.	Aparte de ud., ¿cuántas personas en la casa de manejar?	donde vive actualmente tienen una valida licencia
	otra gente in mi casa con	ı licencia valida.
P49.	Aparte de ud., ¿cuántas personas en la casa en personas otras en mi casa	<del></del>
P50.		sponder a P50.] Todo combinado, ¿qué son los nes) de estas otras personas en la casa donde vive
	\$/semana, ingresos brutos de	e otra gente en mi casa actualmente empleados
	MIICHAS CDACIAS POD SII DADTICIDAC	PIÓN EN NITESTRA INVESTIGACIÓN



OFFICE OF THE DIRECTOR

#### **DEPARTMENT OF MOTOR VEHICLES**

P. O. BOX 932328 SACRAMENTO, CA 94232-3280



February 10, 1995



Dear

We are cooperating in a study to learn more about the impact of alcohol-related accidents on their victims. Our records indicate that you were recently a victim of such an accident, and we would appreciate your participating in the study by completing the enclosed short questionnaire and returning it in the postpaid envelope to KETRON, the contractor who will be analyzing the results of the survey.

This is an anonymous study. There is no place on the questionnaire for your name or other identifier. We have not given your name and address to anyone, and your participation in the study is completely voluntary. However, we hope you will cooperate so that national policy can be informed by the experience of victims.

Should you have any questions about completing the survey, please feel free to call KETRON toll-free at (800) 982-7645 and ask for assistance with the accident victim survey.

Thank you in advance for your participation.

Sincerely,

FRANK S. ZOLIN Director

Enclosure



STATE OF DELAWARE
DEPARTMENT OF PUBLIC SAFETY
DIVISION OF STATE POLICE
P.O. BOX 430
DOVER, DELAWARE 19903

February 20, 1995

#### Dear Delaware Motorist:

We are cooperating in a study to learn more about the impact of alcohol-related accidents on their victims. Our records indicate that you were recently a victim of such an accident, and we would appreciate your participating in the study by completing the enclosed short questionnaire and returning it in the postpaid envelope to KETRON, the contractor who will be analyzing the results of the survey.

This is an anonymous study. There is no place on the questionnaire for your name or other identifier. We have not given your name and address to anyone, and your participation in the study is completely voluntary. However, we hope you will cooperate so that national policy can be informed by the experience of victims.

Should you have any questions about completing the survey, please feel free to call KETRON toll-free at (800) 982-7645 and ask for assistance with the accident victim survey.

Thank you in advance for your participation.

Very truly yours,

Colonel Alan D. Ellingsworth

Superintendent

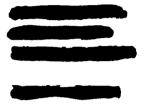


#### DISTRICT ATTORNEY'S OFFICE OF CHESTER COUNTY

Anthony A. Sarcione District Attorney 17 NORTH CHURCH STREET, SUITE 218
COURTHOUSE ANNEX
WEST CHESTER, PENNSYLVANIA 19380-3086
TELEPHONE: 610-344-6801
FAX: 610-344-5905

Charles Zagorskie
Chief County Detective

April 19, 1995



We are cooperating in a study to learn more about the impact of alcohol-related accidents on their victims. Our records indicate that you were a victim of such an accident within the last 2 years. You may have been a driver or a passenger in a vehicle that was struck by a drunk driver or your parked vehicle could have been damaged by a drunk driver. We would appreciate your participating in the study by completing the enclosed short questionnaire and returning it in the postpaid envelope to KETRON, the local contractor who will be analyzing the results of the survey.

This is an anonymous study. There is no place on the questionnaire for your name or other identifier. Your participation in the study is completely voluntary. However, we hope you will cooperate so that national policy can be informed by the experience of victims.

Should you have any questions about completing the survey, please feel free to call KETRON at (610) 648-9000 or toll-free at (800) 982-7645 and ask for assistance with the accident victim survey. Thank you in advance for your participation.

Sincerely,

Anthony A. Sarcione District Attorney

gathony q. Socione

**Enclosure** 

"Victim"	<b>Ouestionnaire</b>

Month) (Year)	
hich of the following best describes the way you were involved in the accident? [CIRCLE ONE	:.J
I was the driver of a vehicle, and I was charged with DUI.	
	)UI
I was a pedestrian.	
hich of the following best describes the injuries you received in the accident? [CIRCLE ONE.]	1
I was not injured in the accident.	
I was injured, but I was not treated for my injuries at a hospital.	
I was treated for my injuries at a hospital, but I did not stay overnight in the hospital.	
I was treated for my injuries at a hospital, and I stayed in the hospital for less than 1 week	
I was treated for my injuries at a hospital, and I stayed in the hospital for more than 1 we	æk.
	: the
I do not drive a vehicle on a regular basis.	
I had no loss of use of the vehicle I regularly drive because of the accident.	
The vehicle I regularly drive was damaged in the accident, but I was still able to drive vehicle.	the
My vehicle was damaged in the accident such that I could not drive it away from the accidence, but it has been repaired.	den
My vehicle was damaged in the accident such that I could not drive it away from the accidence, and it has not been repaired.	den
	hol
WI 1. 2. 3. 4. 5. WI according to the second	<ol> <li>I was a passenger in the vehicle of a driver, who was charged with DUI.</li> <li>I was the driver of another vehicle involved in the accident, and I was not charged with D.</li> <li>I was a passenger in a vehicle involved in the accident, whose driver was not charged with D.</li> <li>I was a pedestrian.</li> <li>Which of the following best describes the injuries you received in the accident? [CIRCLE ONE.]</li> <li>I was not injured in the accident.</li> <li>I was injured, but I was not treated for my injuries at a hospital.</li> <li>I was treated for my injuries at a hospital, but I did not stay overnight in the hospital.</li> <li>I was treated for my injuries at a hospital, and I stayed in the hospital for less than 1 weels.</li> <li>I was treated for my injuries at a hospital, and I stayed in the hospital for more than 1 weels.</li> <li>I was treated for my injuries at a hospital, and I stayed in the hospital for more than 1 weels.</li> <li>I do not drive a vehicle on a regular basis.</li> <li>I do not drive a vehicle on a regular basis.</li> <li>I had no loss of use of the vehicle I regularly drive because of the accident.</li> <li>The vehicle I regularly drive was damaged in the accident, but I was still able to drive vehicle.</li> <li>My vehicle was damaged in the accident such that I could not drive it away from the accidence, but it has been repaired.</li> <li>My vehicle was damaged in the accident such that I could not drive it away from the accidence.</li> </ol>

- Q6. We would now like you to tell us about your employment (to the best of your ability) from January 1st of 1993 to the present. On the following monthly 1993/1994/1995 calendar, please enter a number from the following list (1-6) in each month block to show your activity that month:
  - 1. Employment (any activity from which you received income, including full-time employment, part-time employment, self employment, or military service)
  - 2. School attendance (high school, college, or trade school)
  - 3. Unemployment, during which time you were searching for a job
  - 4. Not working of your own choice (i.e., you were NOT searching for a job)
  - 5. Disability or hospitalization
  - 6. Retirement

12. Other (please specify:

Please enter at least one number (from 1-6) in all applicable months below:

	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec
1993												
1994												
1995							:				,	

If you did NOT enter a "1" (employment) in any month block above, SKIP TO Q11 ON PAGE 4.

We would now like you to provide some additional information for all jobs you held from January 1, 1993 to the present (those jobs corresponding to all "1s" on the monthly calendar above). Enter overlapping time periods if appropriate. For example, if you held two part-time jobs at the same time, provide information on both jobs.

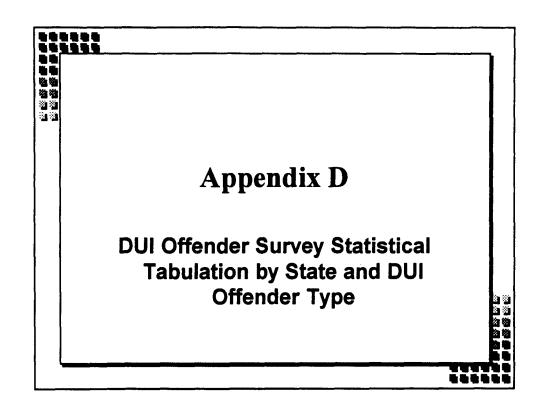
PLEASE ANSWER THE FOLLOWING FOR YOUR CURRENT JOB (OR YOUR MOST RECENT JOB IF YOU ARE CURRENTLY NOT EMPLOYED).

Q7a.	7a. When did you start work at your current job (or me	ost recent job if you are currently NOT employed)?
	Month: Year: 19	
Q7b.	7b. When did you stop working at the job you referred	to in Q7a?
	Month: Year: 19 OR I am	currently still employed at this job.
Q7c.	7c. Which of the following best describes the type of vif you are currently NOT employed)? [CIRCLE O	
	1. Professional 7. Service	e (e.g., food service)
		killed worker
	3. Managerial 9. Machi	ne operator
		sional driver
	5. Sales: Clerical 11. Labor	
	6. Non-Sales: Clerical	

	"Victim" Questionnaire
Q7d.	In an average week, how many hours do/did you work at your current job (or most recent job)?
	hours/week (average)
Q7e.	In an average week, what are/were your gross earnings at your current job (or most recent job)?
	\$/week average gross earnings (before taxes or withholdings)
Q7f.	If you are not still working at this job, why did you leave? [CIRCLE ONE.]
	1. Better opportunity 5. Resignation/unsatisfactory job conditions
	2. Layoff/termination 6. Return to school
	3. Medical/disability 7. End of temporary job
	4. Relocation 8. Retirement
questi job is 1993-	TO Q9 IF YOU ONLY HELD ONE JOB IN 1993-1995. Otherwise, please answer the following ons for the job you held prior to or at the same time as the job you just described in Q7. This second referred to as your "next most recent job" in the following questions. If you had more than 2 jobs in 1995, please answer Questions Q8a through Q8f for each additional job on a separate piece of paper nclose with your completed survey.
Q8a.	When did you start work at your next most recent job?
	Month: Year: 19
Q8b.	When did you stop working at this next most recent job?
	Month: Year: 19 OR I am currently still employed at this job.
Q8c.	Which of the following best describes the type of work you did at this next most recent job? [CIRCLE ONE.]
	1. Professional 7. Service (e.g., food service)
	2. Technical 8. Craft/skilled worker
	3. Managerial 9. Machine operator
	4. Sales: High-Level 10. Professional driver
	5. Sales: Clerical 11. Laborer
	6. Non-Sales: Clerical
	12. Other (please specify:
Q8d.	In an average week, how many hours do/did you work at this next most recent job?
	hours/week (average)
Q8e.	In an average week, what are/were your gross earnings at this next most recent job?
	\$ /week average gross earnings (before taxes or withholdings)

Q8f.	If you are not still we	orking at this job,	why did you le	ave? [CIRCLE ONE.]
	<ol> <li>Better opportunity</li> <li>Layoff/termination</li> <li>Medical/disability</li> <li>Relocation</li> </ol>	6. 7.	Resignation/u Return to scho End of tempo Retirement	
Q9.	Were you employed a	the time of your al	cohol-related a	ccident?
	1. Yes	2. No <i>[If No</i>	, SKIP to Q11	. <b>J</b>
Q10.	What was the total in following categories?	come you lost as a	direct result	of your involvement in this accident in the
	\$	in total uncompensa	ated lost work	time
	\$	in the difference bet	ween my regul	ar pay and any disability payments I received
	\$	/week in reduced in	ncome due to je	ob loss or inability to do my job
Q11.	In which of the follow	ing ethnic groups w	ould you classi	ify yourself? [CIRCLE ONE.]
	<ol> <li>White, not of His</li> <li>African-American</li> <li>Hispanic</li> </ol>			ative American sian/Pacific Islander
Q12.	What is your date of b	oirth (month and yea		h) (Year)
Q13.	What is your gender?	[CIRCLE ONE.]	(Mont	n) (rear)
	1. Male	2.	. Female	
Q14.	What was your highest	level of education a	t the time of yo	our alcohol-related accident? [CIRCLE ONE.]
	<ol> <li>Junior high school</li> <li>Some high school</li> <li>High school grade</li> <li>Trade school cert</li> </ol>	1 6 uate 7	. Associates or	, but no degree 2-year college degree 4-year college degree octorate degree
Q15.	What was your marita	1 status at time of yo	our alcohol-rela	ated accident? [CIRCLE ONE.]
	<ol> <li>Single</li> <li>Married</li> <li>Divorced</li> </ol>	4 5	•	

THANK YOU VERY MUCH FOR PARTICIPATING IN OUR SURVEY. PLEASE RETURN YOUR COMPLETED SURVEY IN THE ENCLOSED POSTAGE-PAID ENVELOPE.



## Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q3) NUMBER OF MONTHS FROM DUI ARREST TO INTERVIEW

					STA	TE						
		Pennsy	lvania	Maryland		California		Delaware		Total		
		OFFENDE	OFFENDER TYPE		OFFENDER TYPE		OFFENDER TYPE		OFFENDER TYPE		OFFENDER TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE CATEGORY												
3 months or less		43	4	12	8	70	17	30	1	155	30	185
	Column Percent	25.6	6.2	12.5	21.1	40.9	20.5	20.8	2.1	26.8	12.9	22.8
Between 4 and 6 mont	ths	42	4	29	8	69	13	49	2	189	27	216
	Column Percent	25.0	6.2	30.2	21.1	40.4	15.7	34.0	4.3	32.6	11.6	26.6
More than 6 months		83	57	55	22	32	53	65	44	235	176	411
	Column Percent	49.4	87.7	57.3	57.9	18.7	63.9	45.1	93.6	40.6	75.5	50.6
Total		168	65	96	38	171	83	144	47	579	233	812

## Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q4) DID YOU HAVE A LICENSE AT THE TIME OF THIS MOST RECENT DUI ARREST?

					STA	TE						
		Pennsy	lvania	Mary	Maryland		California		ware	Total		
ļ		OFFENDER TYPE		OFFENDER TYPE		OFFENDER TYPE		OFFENDER TYPE		OFFENDER TYPE		
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE												
Yes		162	56	93	33	168	61	140	31	563	181	744
	Column Percent	98.2	86.2	96.9	89.2	98.8	75.3	97.9	67.4	98.1	79.0	92.7
No		3	9	3	4	2	20	3	15	11	48	59
	Column Percent	1.8	13.8	3.1	10.8	1.2	24.7	2.1	32.6	1.9	21.0	7.3
Total		165	65	96	37	170	81	143	46	574	229	803

## Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q5) NUMBER OF MONTHS FROM LOSS OF LICENSE TO INTERVIEW

					STA	TE						
		Pennsyl	vania	Магу	and	Califo	ornia	Dela	ware	To	tal	ĺ
		OFFENDE	R TYPE	OFFENDE	R TYPE	OFFENDER TYPE OFFEND			DER TYPE OFFE		R TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE CATEGORY			-									
lave not lost license		38	9	45	13	11	4	12		106	26	132
	Column Percent	22.8	15.3	48.4	39.4	6.5	6.2	8.5		18.6	13.4	17.3
months or less		64	9	11	4	93	12	54	1	222	26	248
	Column Percent	38.3	15.3	11.8	12.1	54.7	18.5	38.3	2.7	38.9	13.4	32.4
3etween 4 and 6 month	S	18	10	17	3	41	18	35	5	111	36	147
	Column Percent	10.8	16.9	18.3	9.1	24.1	27.7	24.8	13.5	19.4	18.6	19.2
More than 6 months		47	31	20	13	25	31	40	31	132	106	238
	Column Percent	28.1	52.5	21.5	39.4	14.7	47.7	28.4	83.8	23.1	54.6	31.1
otal		167	59	93	33	170	65	141	37	571	194	765

# Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q6) WAS THIS MOST RECENT DUI ARREST YOUR FIRST DUI ARREST SINCE YOU STARTED DRIVING?

					STA	TE							
		Pennsyl	vania	Mary	land	California		Delaware		Total			
		OFFENDE	OFFENDER TYPE		R TYPE OFFENDER TYPE		OFFENDER TYPE		OFFENDER TYPE		OFFENDER TYPE		
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total	
RESPONSE													
Yes		168		96		171		144		579		579	
	Column Percent	100.0		100.0		100.0		100.0		100.0	•	71.9	
No			63		38		79		46		226	226	
	Column Percent		100.0		100.0		100.0		100.0		100.0	28.	
Total		168	63	96	38	171	79	144	46	579	226	805	

## Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q7) HOW MANY TOTAL DUI ARRESTS (INCLUDING THIS MOST RECENT ONE) HAVE YOU HAD IN THE LAST YEAR?

			ST	ATE			
		Pennsylva- nia	Maryland	California	Delaware	Total	
		OFFENDER TYPE	OFFENDER TYPE	OFFENDER TYPE	OFFENDER TYPE	OFFENDER TYPE	
		Multiple	Multiple	Multiple	Multiple	Multiple	Total
RESPONSE							
1		52	28	67	40	187	187
	Column Percent	82.5	73.7	83.8	87.0	82.4	82.4
2		11	8	12	6	37	37
	Column Percent	17.5	21.1	15.0	13.0	16.3	16.3
3			2	1		3	3
	Column Percent		5.3	1.3		1.3	1.3
Total		63	38	80	46	227	227

## Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total NOW MANY TOTAL DUI ARRESTS (INCLUDING THIS MOST RECENT ONE) HAVE YOU HAD IN THE LAST 5 YEARS?

			ST	ATE			
		Pennsylva- nia	Maryland	California	Delaware	Total	
		OFFENDER TYPE	OFFENDER TYPE	OFFENDER TYPE	OFFENDER TYPE	OFFENDER TYPE	
		Multiple	Multiple	Multiple	Multiple	Multiple	Total
RESPONSE							
1		12		18	15	45	45
	Column Percent	19.4		22.5	32.6	19.9	19.9
2		43	27	60	26	156	156
	Column Percent	69.4	71.1	75.0	56.5	69.0	69.0
3		7	7	2	5	21	21
	Column Percent	11.3	18.4	2.5	10.9	9.3	9.3
4			3			3	3
	Column Percent		7.9			1.3	1.3
5			1			1	1
	Column Percent		2.6			0.4	0.4
Total		62	38	80	46	226	226

## Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q11D) WHICH OF THE FOLLOWING BEST DESCRIBES THE TYPE OF WORK YOU DO AT YOUR CURRENT JOB (OR MOST RECENT JOB IF YOU ARE CURRENTLY NOT EMPLOYED)?

					STA	TE						
		Pennsy	lvania	Mary	land	Califo	ornia	Dela	ware	To	tal	
		OFFEND	ER TYPE	OFFEND	ER TYPE	OFFENDE	R TYPE	OFFEND	ER TYPE	OFFEND	ER TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
ESPONSE												
1) Professional		25	4	14	6	40	13	20	3	99	26	125
	Column Percent	15.5	6.6	14.7	17.1	24.0	16.5	14.4	6.5	17.6	11.8	16.0
2) Technical		14	3	8		15	8	12	4	49	15	64
	Column Percent	8.7	4.9	8.4		9.0	10.1	8.6	8.7	8.7	6.8	8.2
3) Managerial		14	6	13	5	21	10	18	1	66	22	88
	Column Percent	8.7	9.8	13.7	14.3	12.6	12.7	12.9	2.2	11.7	10.0	11.2
4) Sales: High-Level	l	13	4	6	1	21	9	12	1	52	15	67
	Column Percent	8.1	6.6	6.3	2.9	12.6	11.4	8.6	2.2	9.3	6.8	8.6
5) Sales: Clerical		6	2	1	1	5		4		16	3	19
	Column Percent	3.7	3.3	1.1	2.9	3.0		2.9		2.8	1.4	2.4
6) Non-Sales: Cleric	cal	3				1	1	1	1	5	2	7
	Column Percent .	1.9				0.6	1.3	0.7	2.2	0.9	0.9	0.9
7) Service (e.g., fo	ood service)	23	7	10	3	24	7	14	6	71	23	94
	Column Percent	14.3	11.5	10.5	8.6	14.4	8.9	10.1	13.0	12.6	10.4	12.0
8) Craft/skilled wor	rker	25	24	23	8	13	14	31	18	92	64	156
	Column Percent	15.5	39.3	24.2	22.9	7.8	17.7	22.3	39.1	16.4	29.0	19.9
9) Machine operator		7	4	3	2	3	1	4	7	17	14	31
	Column Percent	4.3	6.6	3.2	5.7	1.8	1.3	2.9	15.2	3.0	6.3	4.0
0) Professional driv	ver	5		6	1	6	2	4		21	3	24
	Column Percent	3.1		6.3	2.9	3.6	2.5	2.9		. 3.7	1.4	3.1
1) Laborer		18	5	7	7	10	3	13	4	48	19	67
	Column Percent	11.2	8.2	7.4	20.0	6.0	3.8	9.4	8.7	8.5	8.6	8.6
3) No employment 199	92-1994	8	2	4	1	8	11	6	1	26	15	41
	Column Percent	5.0	3.3	4.2	2.9	4.8	13.9	4.3	2.2	4.6	6.8	5.2
otal		161	61	95	35	167	79	139	46	562	221	783

Effects of Administrative License Revocation on Employment
DUI Offender Questionnaire
Frequency Tables by State, Offender Type, and Total
Q11D) WHICH OF THE FOLLOWING BEST DESCRIBES THE TYPE OF WORK YOU DO AT YOUR CURRENT JOB (OR MOST RECENT JOB IF YOU ARE CURRENTLY NOT EMPLOYED)?

					STA	TE.		<del></del>				
		Pennsy	lvania	Mary	land	Califo	ornia	Delai	ware	To	tal	[
		OFFEND	ER TYPE	OFFEND	R TYPE	OFFENDE	ER TYPE	OFFEND	ER TYPE	OFFEND	ER TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE												
01) Professional		25	4	14	6	40	13	20	3	99	26	125
	Column Percent	15.5	6.6	14.7	17.1	24.0	16.5	14.4	6.5	17.6	11.8	16.0
02) Technical		14	3	8		15	8	12	4	49	15	64
	Column Percent	8.7	4.9	8.4		9.0	10.1	8.6	8.7	8.7	6.8	8.2
03) Managerial		14	6	13	5	21	10	18	1	66	22	88
	Column Percent	8.7	9.8	13.7	14.3	12.6	12.7	12.9	2.2	11.7	10.0	11.2
04) Sales: High-Level		13	4	6	1	21	9	12	1	52	15	67
	Column Percent	8.1	6.6	6.3	2.9	12.6	11.4	8.6	2.2	9.3	6.8	8.6
05) Sales: Clerical		6	2	1	1	5		4		16	3	19
	Column Percent	3.7	3.3	1.1	2.9	3.0		2.9		2.8	1.4	2.4
06) Non-Sales: Clerica	il	3				1	1	1	1	5	2	7
	Column Percent	1.9				0.6	1.3	0.7	2.2	0.9	0.9	0.9
07) Service (e.g., foo	od service)	23	7	10	3	24	7	14	6	71	23	94
	Column Percent	14.3	11.5	10.5	8.6	14.4	8.9	10.1	13.0	12.6	10.4	12.0
08) Craft/skilled work	er	25	24	23	8	13	14	31	18	92	64	156
	Column Percent	15.5	39.3	24.2	22.9	7.8	17.7	22.3	39.1	16.4	29.0	19.9
09) Machine operator		- 7	4	3	2	3	1	4	7	17	14	31
	Column Percent	4.3	6.6	3.2	5.7	1.8	1.3	2.9	15.2	3.0	6.3	4.0
10) Professional drive	er	5		6	1	6	2	4		21	3	24
L	Column Percent	3.1		6.3	2.9	3.6	2.5	2.9		3.7	1.4	3.1
11) Laborer		18	5	7	7	10	3	13	4	48	19	67
	Column Percent	11.2	8.2	7.4	20.0	6.0	- 3.8	9.4	8.7	8.5	8.6	8.6
13) No employment 1992	!- 1994	8	2	4	1	8	11	6	1	26	15	41
	Column Percent	5.0	3.3	4.2	2.9	4.8	13.9	4.3	2.2	4.6	6.8	5.2
Total		161	61	95	35	167	79	139	46	562	221	783

## Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q11F) HOW WOULD YOU DESCRIBE YOUR NEED TO DRIVE AT YOUR CURRENT JOB (OR MOST RECENT JOB)?

					STA	TE						
		Pennsy	lvania	Maryl	and	Califo	ornia	Delai	ware	To	tal	
		OFFENDE	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFEND	R TYPE	OFFENDER TYPE		
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE												
1) I don't require a ve	hicle to do my job.	38	22	18	11	26	18	29	22	111	73	184
	Column Percent	18.1	25.0	15.0	22.0	13.3	21.2	15.7	32.8	15.6	25.2	18.4
2) I use my own vehicle	to commute to work only.	66	21	34	. 11	49	20	55	17	204	69	273
	Column Percent	31.4	23.9	28.3	22.0	25.0	23.5	29.7	25.4	28.7	23.8	27.3
<ol><li>I drive my own vehic sometimes.</li></ol>	le as part of my job	26	12	18	5	34	14	24	8	102	39	141
	Column Percent	12.4	13.6	15.0	10.0	17.3	16.5	13.0	11.9	14.3	13.4	14.1
4) I drive my own vehic every day.	le as part of my job	38	15	22	12	50	19	28	11	138	57	195
	Column Percent	18.1	17.0	18.3	24.0	25.5	22.4	15.1	16.4	19.4	19.7	19.5
5) I drive another vehi sometimes.	cle as part of my job	22	9	8	6	18	. 6	20	3	68	24	92
	Column Percent	10.5	10.2	6.7	12.0	9.2	7.1	10.8	4.5	9.6	8.3	9.2
<ol><li>6) I drive another vehi every day.</li></ol>	cle as part of my job	20	9	20	. 5	19	8	29	6	88	28	116
	Column Percent	9.5	10.2	16.7	10.0	9.7	9.4	15.7	9.0	12.4	9.7	11.6
Total		210	88	120	50	196	85	185	67	711	290	1001

## Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q111) IF YOU ARE NOT STILL WORKING AT THIS JOB, WHY DID YOU LEAVE?

					STA	TE						
		Pennsy	vania	Mary	and	Calif	ornia	Dela	ware	To	tal	
		OFFENDE	R TYPE	OFFENDE	R TYPE	OFFENDI	ER TYPE	OFFENDI	ER TYPE	OFFENDI	ER TYPE	
		First	Multiple	Total								
RESPONSE												
01) Better opportunity			1	1		1				2	1	3
C	olumn Percent		12.5	10.0		6.3				4.5	3.8	4.3
02) Layoff/termination		3	1	4		2	3	2	1	11	5	16
C	olumn Percent	30.0	12.5	40.0		12.5	23.1	25.0	50.0	25.0	19.2	22.9
03) Medical/disability		1		1		2	2	1		5	2	7
C	olumn Percent	10.0		10.0		12.5	15.4	12.5		11.4	7.7	10.0
04) DUI/loss of license		2	5	2	3	6	7	4	1	14	16	30
C	olumn Percent	20.0	62.5	20.0	100.0	37.5	53.8	50.0	50.0	31.8	61.5	42.9
05) Relocation		1								1		1
[ c	Column Percent	10.0								2.3		1.4
06) Resignation/unsatisfa	ctory job conditions		- :-					1		1		1
C	Column Percent							12.5		2.3		1.4
07) Return to school		1		1		1	1			3	1	4
C	Column Percent	10.0		10.0		6.3	7.7	**		6.8	3.8	5.7
08) End of temporary job						3				3		3
C	Column Percent					18.8				6.8		4.3
09) Retired		2	1	1		1				4	1	5
[c	Column Percent	20.0	12.5	10.0		6.3				9.1	3.8	7.1
Total		10	8	10	3	16	13	8	. 2	44	26	70

## Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q12C) WHICH OF THE FOLLOWING BEST DESCRIBES THE INDUSTRY OR TYPE OF EMPLOYER OF YOUR NEXT MOST RECENT JOB?

· · · · · · · · · · · · · · · · · · ·					STA	TE	····					
		Pennsy	lvania	Mary	and	Califo	ornia	Dela	ware	To	tal	
		OFFEND	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFENDI	ER TYPE	OFFEND	ER TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE												
01) Agriculture				1		. 1			1	2	1	3
	Column Percent			3.2		2.0			6.7	1.1	1.4	1.2
03) Construction		6	6	3	3	2	4	9	5	20	18	38
	Column Percent	10.5	23.1	9.7	20.0	4.0	28.6	20.9	33.3	11.0	25.7	15.1
04) Manufacturing		2	4	1		3		3	1	9	5	14
	Column Percent	3.5	15.4	3.2		6.0		7.0	6.7	5.0	7.1	5.6
05) Transportation			2	3		2				5	2	7
	Column Percent		7.7	9.7		4.0				2.8	2.9	2.8
06) Utilities				1	1	2	1		1	3	3	6
	Column Percent			3.2	6.7	4.0	7.1		6.7	1.7	4.3	2.4
07) Wholesale trade				2	1	2		1		5	1	6
	Column Percent			6.5	6.7	4.0		2.3		2.8	1.4	2.4
08) Retail trade		7	6	5	4	4	2	6	1	22	13	35
	Column Percent	12.3	23.1	16.1	26.7	8.0	14.3	14.0	6.7	12.2	18.6	13.9
09) Finance/insurance	e/real estate	3		1		. 8	3	3		15	3	18
	Column Percent	5.3		3.2		16.0	21.4	7.0		8.3	. 4.3	7.2
10) Services		38	7	12	6	25	4	19	6	94	23	117
	Column Percent	66.7	26.9	38.7	40.0	50.0	28.6	44.2	40.0	51.9	32.9	46.6
11) Local/state gover	nment	1				••		1		2		2
	Column Percent	1.8						2.3		1.1		0.8
12) Federal governmen	nt			1						1		1
	Column Percent			3.2						0.6		0.4
13) Military				1		1		1		3		3
	Column Percent			3.2		2.0		2.3		1.7		1.2
14) Other			1								1	1
	Column Percent		3.8	•-							1.4	0.4
Total		57	26	31	15	50	14	43	15	181	70	251

## Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q12D) WHICH OF THE FOLLOWING BEST DESCRIBES THE TYPE OF WORK YOU DID AT YOUR NEXT MOST RECENT JOB?

					STA	TE						
		Pennsy	lvania	Магу	and	Califo	ornia	Dela	are	To	tal	
		OFFEND	ER TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFEND	R TYPE	.
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE												
01) Professional		9		3	2	13	2	7	2	32	6	38
	Column Percent	16.1		9.7	13.3	26.0	14.3	16.3	13.3	17.8	8.6	15.2
02) Technical		2	3	3		6	1	1	3	12	7	19
,	Column Percent	3.6	11.5	9.7		12.0	7.1	2.3	20.0	6.7	10.0	7.6
03) Managerial		4	1	4	2	6		11		25	3	28
	Column Percent	7.1	3.8	12.9	13.3	12.0		25.6		13.9	4.3	11.2
04) Sales: High-Level		2	2	3		5	3	1		11	5	16
	Column Percent	3.6	7.7	9.7		10.0	21.4	2.3		6.1	7.1	6.4
05) Sales: Clerical		4	2	1	1	1		3		9	3	12
	Column Percent	7.1	7.7	3.2	6.7	2.0		7.0		5.0	4.3	4.8
06) Non-Sales: Clerical		2			1	2		2		6	1	7
	Column Percent	3.6			6.7	4.0		4.7		3.3	1.4	2.8
07) Service (e.g., food	l service)	14	3	5	2	12	3	7	3	38	11	49
	Column Percent	25.0	11.5	16.1	13.3	24.0	21.4	16.3	20.0	21.1	15.7	19.6
08) Craft/skilled worke	er	9	6	5	4	. 2	4	7	4	23	18	41
	Column Percent	16.1	23.1	16.1	26.7	4.0	28.6	16.3	26.7	12.8	25.7	16.4
09) Machine operator	The second secon	1	1			1			1	2	2	4
	Column Percent	1.8	3.8			2.0			6.7	1.1	2.9	1.6
10) Professional driver	•	1		3	1					4	1	5
	Column Percent	1.8		9.7	6.7					2.2	1.4	2.0
11) Laborer		8	8	4	2	2	~ 1	4	2	´ 18	13	31
	Column Percent	14.3	30.8	12.9	13.3	4.0	7.1	9.3	13.3	10.0	18.6	12.4
Total		56	26	31	15	50	14	43	15	180	70	250

# Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q12F) HOW WOULD YOU DESCRIBE YOUR NEED TO DRIVE AT YOUR NEXT MOST RECENT JOB?

					STA	TE						
		Pennsy	vania	Магу	and	Califo	ornia	Dela	are	To	tal	
		OFFENDE	R TYPE	OFFEND	R TYPE							
]		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE												
1) I don't require a vel	nicle to do my job.	11	8	7	5	13	1	6	5	37	19	56
	Column Percent	17.2	22.9	21.9	25.0	22.0	5.3	10.3	27.8	17.4	20.7	18.4
2) I use my own vehicle	to commute to work only.	27	12	14	7	22	8	23	5	86	32	118
	Column Percent	42.2	34.3	43.8	35.0	37.3	42.1	39.7	27.8	40.4	34.8	38.7
3) I drive my own vehiclesometimes.	e as part of my job	9	3	2	4	9	3	6	1	26	11	37
	Column Percent	14.1	8.6	6.3	20.0	15.3	15.8	10.3	5.6	12.2	12.0	12.1
4) I drive my own vehiclevery day.	e as part of my job	7	4	4	2	11	4	10	3	32	13	45
	Column Percent	10.9	11.4	12.5	10.0	18.6	21.1	17.2	16.7	15.0	14.1	14.8
5) I drive another vehiclesometimes.	cle as part of my job	6	3	1	2	2	1	7	3	16	. 9	25
	Column Percent	9.4	8.6	3.1	10.0	3.4	5.3	12.1	16.7	7.5	9.8	8.2
6) I drive another vehice every day.	le as part of my job	4	5	4		2	2	6	1	16	8	24
	Column Percent	6.3	14.3	12.5		3.4	10.5	10.3	5.6	7.5	8.7	7.9
Total		64	35	32	20	59	19	58	18	213	92	305

# Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q12I) IF YOU ARE NOT STILL WORKING AT THIS JOB, WHY DID YOU LEAVE?

					STA	\TE						
		Pennsy	lvania	Mary	and	Calif	ornia	Dela	ware	To	tal	,
		OFFENDI	R TYPE	OFFENDI	R TYPE	OFFENDI	ER TYPE	OFFENDI	R TYPE	OFFEND	ER TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE			· · · · -									
01) Better opportunity		19	2	10	5	23	5	7	6	59	18	77
	Column Percent	42.2	9.1	43.5	38.5	51.1	41.7	22.6	46.2	41.0	30.0	37.7
02) Layoff/termination		6	5	5	3	7		8	2	26	10	36
	Column Percent	13.3	22.7	21.7	23.1	15.6		25.8	15.4	18.1	16.7	17.6
03) Medical/disability					1			3		3	1	4
ļ	Column Percent				7.7			9.7		2.1	1.7	2.0
04) DUI/loss of license		3	6	1	2	3	4	2	3	9	15	24
	Column Percent	6.7	27.3	4.3	15.4	6.7	33.3	6.5	23.1	6.3	25.0	11.8
05) Relocation		2	2	1		6	2	1		10	4	14
	Column Percent	4.4	9.1	4.3		13.3	16.7	3.2		6.9	6.7	6.9
06) Resignation/unsatis	factory job conditions	5	3	1		5	1	3	2	14	6	20
	Column Percent	11.1	13.6	4.3		11.1	8.3	9.7	15.4	9.7	10.0	9.8
07) Return to school		6	1	2	1	·-		3		11	2	13
	Column Percent	13.3	4.5	8.7	7.7			9.7		7.6	3.3	6.4
08) End of temporary jo	b	3	3	3	1	1		1		8	4	12
	Column Percent	6.7	13.6	13.0	7.7	2.2		3.2		5.6	. 6.7	5.9
09) Retired								1		1		1
	Column Percent					++		3.2		0.7		0.5
10) Bankrupcy		1						1		2		2
	Column Percent	2.2						3.2		1.4		1.0
11) Military service								1		1		1
	Column Percent							3.2		0.7		0.5
Total		45	. 22	23	13	45	12	31	13	144	60	204

## Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q13) WERE YOU EMPLOYED AT THE TIME OF YOUR MOST RECENT DUI ARREST?

					STA	TE						
		Pennsy	lvania	Mary	and	Califo	ornia	Dela	ware	То	tal	
		OFFENDI	R TYPE	OFFEND	R TYPE	OFFENDE	R TYPE	OFFENDE	ER TYPE	OFFEND	ER TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE												
/es		145	55	85	32	153	70	125	43	508	200	708
	Column Percent	89.5	90.2	92.4	88.9	93.9	90.9	93.3	93.5	92.2	90.9	91.8
do		17	6	7	. 4	10	7	9	3	43	20	63
	Column Percent	10.5	9.8	7.6	11.1	6.1	9.1	6.7	6.5	7.8	9.1	8.2
Total		162	61	92	36	163	77	134	46	551	220	771

# Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q14) HOW WOULD YOU RATE YOUR OVERALL SATISFACTION WITH THE JOB YOU HELD AT THE TIME OF YOUR MOST RECENT DUI ARREST?

					STA	TE						
		Pennsy	lvania	Mary	and	Calif	ornia	Dela	are	To	tal	! •
		OFFENDE	R TYPE	OFFENDI	R TYPE	OFFEND	ER TYPE	OFFEND	R TYPE	OFFEND	ER TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE CATEGORY												
Dissatisfied		8	7	13	3	15	6	11	6	47	22	69
	Column Percent	6.3	15.2	16.0	10.0	10.6	9.8	9.6	15.0	10.1	12.4	10.7
Neutral		15	12	10	9	18	11	15	4	58	36	94
	Column Percent	11.7	26.1	12.3	30.0	12.8	18.0	13.0	10.0	12.5	20.3	14.6
Satisfied		105	27	58	18	108	44	89	30	360	119	479
	Column Percent	82.0	58.7	71.6	60.0	76.6	72.1	77.4	75.0	77.4	67.2	74.6
Total		128	46	81	30	141	61	115	40	465	177	642

# Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q15) WERE YOU SELF-EMPLOYED AT THE TIME OF YOUR DUI ARREST?

				·	STA	TE						
		Pennsy	lvania	Mary	land	Califo	ornia	Delai	are	To	tal	
		OFFENDE	R TYPE	OFFEND	ER TYPE	OFFEND	ER TYPE	OFFEND	R TYPE	OFFENDI	R TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE												
Yes		20	14	13	13	34	23	10	6	77	56	133
	Column Percent	14.7	28.0	15.7	39.4	24.1	35.4	8.7	15.0	16.2	29.8	20.1
4o		116	36	70	20	107	42	105	34	398	132	530
	Column Percent	85.3	72.0	84.3	60.6	75.9	64.6	91.3	85.0	83.8	70.2	79.9
Total	•	136	50	83	33	141	65	115	40	475	188	663

# Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q16) DOES/DID YOUR EMPLOYER KNOW ABOUT YOUR DUI ARREST?

			7/10/10/10		STA	TE						
		Pennsy	vania	Mary	land	Califo	ornia	Dela	are	To	tal	
	·	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
ESPONSE												
'es		87	32	46	17	62	28	74	26	269	103	372
	Column Percent	74.4	84.2	65.7	85.0	55.9	62.2	71.2	76.5	66.9	75.2	69.0
10		30	6	24	3	49	17	30	8	133	34	167
	Column Percent	25.6	15.8	34.3	15.0	44.1	37.8	28.8	23.5	33.1	24.8	31.0
Total		117	38	70	20	111	45	104	34	402	137	539

# Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q17) HOW DID YOUR EMPLOYER FIND OUT ABOUT YOUR DUI ARREST?

					STA	TE						
		Pennsyl	vania	Mary	land	Califo	ornia	Dela	are	To	tal	
		OFFENDE	R TYPE	1								
		First	Multiple	Total								
ESPONSE												
) I told my employer	•	78	26	37	15	58	26	70	25	243	92	335
	Column Percent	88.6	81.3	78.7	83.3	93.5	92.9	93.3	96.2	89.3	88.5	89.1
') A co-worker told m	A co-worker told my employer.		2			2	1	4		9	3	12
	Column Percent	3.4	6.3		+-	3.2	3.6	5.3		3.3	2.9	3.2
i) My employer read a	bout it in the newspaper.	6	2	3	1		1			9	4	13
	Column Percent	6.8	6.3	6.4	5.6		3.6			3.3	3.8	3.5
) The Department of amployer.	Motor Vehicles notified my		1	4	2	1				5	3	8
	Column Percent		3.1	8.5	11.1	1.6				1.8	2.9	2.1
) Other		1	1	3		1		1	1	6	2	8
	Column Percent	1.1	3.1	6.4		1.6		1.3	3.8	2.2	1.9	2.1
otal		88	32	47	18	62	28	75	26	272	104	376

## Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q18) DOES/DID YOUR EMPLOYER (AT THE TIME OF YOUR DUI ARREST) KNOW THAT YOU LOST YOUR LICENSE?

					STA	TE						
		Pennsy	vania	Mary	and	Califo	ornia	Dela	ware	To	tal	
		OFFENDE	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFENDE	ER TYPE	OFFENDI	ER TYPE	
[		First	First Multiple F		Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE												
1) Yes		76	24	22	12	55	26	63	26	216	88	304
	Column Percent	65.5	61.5	31.4	60.0	50.9	57.8	60.0	76.5	54.1	63.8	56.6
2) No		29	9	14	. 4	49	17	33	8	125	38	163
	Column Percent	25.0	23.1	20.0	20.0	45.4	37.8	31.4	23.5	31.3	27.5	30.4
3) I have not )	yet lost my license.	11	6	34	4	4	2	9		58	12	70
	Column Percent	9.5	15.4	48.6	20.0	3.7	4.4	8.6		14.5	8.7	13.0
Total		116	39	70	20	108	45	105	34	399	138	537

## Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q19) TO WHAT EXTENT HAS YOUR INCOME BEEN REDUCED AS A DIRECT RESULT OF YOUR DUI ARREST OR LOSS OF LICENSE?

					STA	TE						
		Pennsyl	vania	Mary	land	Califo	ornia	Dela	are	To	tal	
		OFFENDE	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFEND	R TYPE	OFFENDI	R TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE CATEGORY												
Not at all		85	17	63	21	79	20	.72	23	299	81	380
	Column Percent	63.0	32.7	76.8	65.6	54.1	29.4	61.0	57.5	62.2	42.2	56.5
To a little extent		7	3	4	1	10	10	7	1	28	15	43
	Column Percent	5.2	5.8	4.9	3.1	6.8	14.7	5.9	2.5	5.8	7.8	6.4
To some extent		15	10	4	2	22	12	17	6	58	30	88
	Column Percent	11.1	19.2	4.9	6.3	15.1	17.6	14.4	15.0	12.1	15.6	13.1
To a great extent		28	22	11	8	<b>3</b> 5	26	22	10	96	66	162
	Column Percent	20.7	42.3	13.4	25.0	24.0	38.2	18.6	25.0	20.0	34.4	24.1
Total		135	52	82	32	146	68	118	40	481	192	673

# Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q22) IN WHOSE NAME WAS THE VEHICLE YOU WERE DRIVING AT THE TIME OF YOUR MOST RECENT DUI ARREST REGISTERED?

					STA	ITE		****		······································		
		Pennsy	lvania	Mary	and	Calif	ornia	Dela	ware	To	tat	Ì
		OFFENDI	R TYPE	OFFENDI	R TYPE	OFFENDI	R TYPE	OFFEND	R TYPE	OFFEND	ER TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE												
1) My own name		121	40	70	29	137	69	98	34	426	172	598
	Column Percent	72.0	61.5	72.9	80.6	81.1	84.1	68.5	72.3	74.0	74.8	74.2
2) Spouse		8	5	3	1	8	3	6	2	25	11	36
	Column Percent	4.8	7.7	3.1	2.8	4.7	3.7	4.2	4.3	4.3	4.8	4.5
3) Relative (other th	an spouse)	28	7	10	3	9		18	6	65	16	81
	Column Percent	16.7	10.8	10.4	8.3	· 5.3		12.6	12.8	11.3	7.0	10.0
4) Friend (living in	same household)	2	5	3		2	2	4	2	11	9	20
	Column Percent	1.2	7.7	3.1		1.2	2.4	2.8	4.3	1.9	3.9	2.5
5) Friend (not living	in same household)	5	2	5	3	4	4	8	3	22	12	34
	Column Percent	3.0	3.1	5.2	8.3	2.4	4.9	5.6	6.4	3.8	5.2	4.2
6) Prior owner			1			3	1	4		7	2	9
	Column Percent		1.5			1.8	1.2	2.8		1.2	0.9	1.1
7) Employer		4	4	1		2	2	3		10	6	16
	Column Percent	2.4	6.2	1.0		1.2	2.4	2.1		1.7	2.6	2.0
8) Rental car				3		. 4	1	1		8	1	9
	Column Percent			3.1		2.4	1.2	0.7		1.4	0.4	1:1
9) Other			1	1				1		2	1	3
	Column Percent		1.5	1.0				0.7		0.3	0.4	0.4
Total		168	65	96	36	169	82	143	47	576	230	806

# Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q23) WERE YOU WEARING YOUR SEAT BELT AT THE TIME OF YOUR DUI ARREST?

					STA	TE						
		Pennsy	lvania	Mary	and	Califo	rnia	Dela	vare	To	tal	
		OFFENDE	R TYPE	OFFENDI	R TYPE							
		First	Multiple	Total								
RESPONSE												
ies		98	24	64	21	149	69	89	22	400	136	536
	Column Percent	59.8	38.1	66.7	56.8	88.7	85.2	62.7	46.8	70.2	59.6	67.2
10		66	39	32	16	19	12	53	25	170	92	262
	Column Percent	40.2	61.9	33.3	43.2	11.3	14.8	37.3	53.2	29.8	40.4	32.8
otal		164	63	96	37	168	81	142	47	570	228	798

# Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q24) WHAT DID THE POLICE SAY WAS THE REASON FOR STOPPING YOUR VEHICLE WHEN THE DUI ARREST WAS MADE?

1					STA	TE						· · · · · · · · · · · · · · · · · · ·
		Pennsyl	lvania	Mary	and	Califo	rnia	Dela	vare	To	tal	
		OFFENDE	R TYPE	OFFEND	ER TYPE							
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE												
Acc ident		44	14	13	6	18	9	27	9	102	38	140
	Column Percent	26.2	21.9	13.5	16.2	10.7	11.0	19.1	19.1	17.8	16.5	17.4
Moving violation		108	41	72	29	116	52	84	30	380	152	532
	Column Percent	64.3	64.1	75.0	78.4	68.6	63.4	59.6	63.8	66.2	66.1	66.2
Vehicle violation (e.g. sticker, tail light out	, expired inspection , no headlights)	11	3	. 5	2	19	. 8	11	5	46	18	64
	Column Percent	6.5	4.7	5.2	5.4	11.2	9.8	7.8	10.6	8.0	7.8	8.0
Roadblock or sobriety c	heckpoint	2	3	1		7	4	8		18	7	25
	Column Percent	1.2	4.7	1.0		4.1	4.9	5.7		3.1	3.0	3.1
Other .		3	3	5		9	9	11	3	28	15	43
	Column Percent	1.8	4.7	5.2		5.3	11.0	7.8	6.4	4.9	6.5	5.3
Total	<del> </del>	168	64	96	37	169	82	141	47	574	230	804

Effects of Administrative License Revocation on Employment
DUI Offender Questionnaire
Frequency Tables by State, Offender Type, and Total
Q25) HOW FREQUENTLY IN THE YEAR BEFORE YOUR MOST RECENT DUI ARREST DID YOU CONSUME 1-2 BEERS/MIXED DRINKS/GLASSES WINE LESS THAN 1 HOUR BEFORE DRIVING?

		STATE										
		Pennsyl	vania	Mary	and	Califo	ornia	Dela	vare	To	tal	
		OFFENDE	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFEND	ER TYPE	t.
		First	First Multiple First Multiple Fi		First	Multiple	First	Multiple	First	Multiple	Total	
RESPONSE												
1) Never		6	3	5	3	11	2	5	1	27	9	36
	Column Percent	3.6	4.6	5.2	8.1	6.5	2.4	3.5	2.1	4.7	3.9	4.5
2) Once in a while		113	23	62	21	110	40	96	22	381	106	487
	Column Percent	67.7	35.4	64.6	56.8	65.1	48.8	68.1	46.8	66.5	45.9	60.6
) More than once per	week	41	31	22	10	43	29	33	16	139	86	225
	Column Percent	24.6	47.7	22.9	27.0	25.4	35.4	23.4	34.0	24.3	37.2	28.0
√) Daily		7	8	7	3	5	11	7	8	26	30	56
	Column Percent	4.2	12.3	7.3	8.1	3.0	13.4	5.0	17.0	4.5	13.0	7.0
`otal		167	65	96	37	169	82	141	47	573	231	804

Effects of Administrative License Revocation on Employment
DUI Offender Questionnaire
Frequency Tables by State, Offender Type, and Total
Q26) HOW FREQUENTLY IN THE YEAR BEFORE YOUR MOST RECENT DUI ARREST DID YOU CONSUME 3 BEERS/MIXED DRINKS/GLASSES WINE LESS THAN 1 HOUR BEFORE DRIVING?

					STA	TE						
		Pennsyl	vania	Mary	land	Califo	ornia	Dela	are	To	tal	
		OFFENDE	R TYPE	OFFENDI	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFEND	R TYPE	
		First	First Multiple First Multiple		First	Multiple	First	Multiple	First	Multiple	Total	
RESPONSE												
1) Never		33	6	16	5	. 44	13	24	8	117	32	149
	Column Percent	20.0	9.2	17.0	13.5	26.0	16.0	17.1	17.4	20.6	14.0	18.7
2) Once in a while	2) Once in a while		30	59	21	98	40	92	22	349	113	462
	Column Percent	60.6	46.2	62.8	56.8	58.0	49.4	65.7	47.8	61.4	49.3	58.0
3) More than once pe	er week	26	22	13	9	24	24	20	10	83	65	148
	Column Percent	15.8	33.8	13.8	24.3	14.2	29.6	14.3	21.7	14.6	28.4	18.6
4) Daily		6	7	6	2	3	4	4	6	19	19	38
	Column Percent	3.6	10.8	6.4	5.4	1.8	4.9	2.9	13.0	3.3	8.3	4.8
Total		165	65	94	37	169	81	140	46	568	229	797

## Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q27) DID YOU TAKE A BREATH TEST AT THE TIME OF YOUR MOST RECENT DUI ARREST?

:					STA	TE						
		Pennsy	vania	Mary	land	Califo	ornia	Dela	ware	To	tal	
		OFFENDI	R TYPE	OFFEND	ER TYPE	OFFENDE	R TYPE	OFFENDE	ER TYPE	OFFENDE	ER TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
ESPONSE												
'es		118	40	51	17	124	60	109	35	402	152	554
	Column Percent	74.7	69.0	79.7	56.7	75.6	75.9	82.6	74.5	77.6	71.0	75.7
`o		40	18	13	13	40	19	23	12	116	62	178
	Column Percent	25.3	31.0	20.3	43.3	24.4	24.1	17.4	25.5	22.4	29.0	24.3
otal		158	58	64	30	164	79	132	47	518	214	732

#### Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q28) WERE YOU CHARGED WITH REFUSING A BREATH TEST?

					STA	TE						
		Pennsy	lvania	Mary	and	Califo	ornia	Dela	are	To	tal	
		OFFENDI	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFEND	R TYPE	OFFEND	ER TYPE	
		First	Multiple	First ·	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE												
Yes		3	3	11	11	5	6	2	3	21	23	44
	Column Percent	7.5	15.8	84.6	91.7	12.2	35.3	8.7	25.0	17.9	38.3	24.9
No		37	16	2	1	36	11	21	9	96	37	133
	Column Percent	92.5	84.2	15.4	8.3	87.8	64.7	91.3	75.0	82.1	61.7	75.1
Total		40	19	13	12	41	17	23	12	117	60	177

Effects of Administrative License Revocation on Employment
DUI Offender Questionnaire
Frequency Tables by State, Offender Type, and Total
29) BEFORE YOUR DUI ARREST, DID YOU KNOW YOU COULD LOSE YOUR LICENSE FOR FAILING/REFUSING A BREATH TEST, EVEN IF YOU WERE NOT CONVICTED OF A DUI OFFENSE IN COURT?

				STA	ATE				1	
		Mary	land	Califo	ornia	Dela	ware	Tot	al	
		OFFENDI	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE										
Yes		42	26	108	61	88	34	238	121	359
	Column Percent	66.7	83.9	66.3	80.3	67.7	72.3	66.9	78.6	70.4
No		21	5	55	15	42	13	118	33	151
	Column Percent	33.3	16.1	33.7	19.7	32.3	27.7	33.1	21.4	29.6
Total		63	31	163	76	130	47	356	154	510

Effects of Administrative License Revocation on Employment
DUI Offender Questionnaire
Frequency Tables by State, Offender Type, and Total
Q30) DID YOU REQUEST AN ADMINISTRATIVE HEARING WITH THE DEPARTMENT OF MOTOR VEHICLES WHEN YOU LOST YOUR LICENSE TO GET YOUR LICENSE BACK?

				STA						
		Mary	land	Calif	ornia	Dela	are	Tot	tal	
	•	OFFENDI	ER TYPE	OFFENDI	ER TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE										
Yes		41	17	41	16	43	18	125	51	176
	Column Percent	65.1	58.6	25.0	20.8	33.1	38.3	35.0	33.3	34.5
No		22	12	123	61	87	29	232	102	334
	Column Percent	34.9	41.4	75.0	79.2	66.9	61.7	65.0	66.7	65.5
Total	•	63	29	164	77	130	47	357	153	510

## Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q31) DID YOU ATTEND THE ADMINISTRATIVE HEARING?

				ST	ATE					
		Mary	land	Calif	ornia	Dela	ware	To	tal	
		OFFENDI	R TYPE	OFFEND	ER TYPE	OFFEND	ER TYPE	OFFENDE	ER TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE										
Yes		39	15	26	7	32	15	97	37	134
	Column Percent	97.5	83.3	63.4	46.7	74.4	88.2	78.2	74.0	77.0
No		1	3	15	8	11	2	27	· 13	40
	Column Percent	2.5	16.7	36.6	53.3	25.6	11.8	21.8	26.0	23.0
Total	•	40	18	41	15	43	17	124	50	174

## Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q32) DID THE ARRESTING POLICE ATTEND THE ADMINISTRATIVE HEARING?

				ST	ATE					
		Mary	l and	Calif	ornia	Dela	are	Tot	tal	
		OFFENDI	ER TYPE	OFFEND	ER TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	
		First	Multiple	First	Multiple	First	Multiple	First Multiple		Total
RESPONSE								***		
Yes		4	8	3	. 2	23	12	30	22	52
	Column Percent	9.8	47.1	7.3	15.4	54.8	70.6	24.2	46.8	30.4
No		37	9	38	11	19	5	94	25	119
	Column Percent	90.2	52.9	92.7	84.6	45.2	29.4	75.8	53.2	69.6
Total		41	17	41	13	42	17	124	47	171

#### Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q33) WHAT WAS THE RESULT OF THE ADMINISTRATIVE HEARING?

				STA	ATE					
		Mary	land	Calif	ornia	Dela	ware	To	tai	
		OFFENDI	ER TYPE	OFFEND	ER TYPE	OFFENDE	ER TYPE	OFFEND	R TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE										
1) I lost my license		20	9	33	11	27	14	80	34	114
	Column Percent	52.6	60.0	86.8	91.7	65.9	82.4	68.4	77.3	70.8
2) I got my license I	pack	18	6	5	1	14	3	3 37 10		47
	Column Percent	47.4	40.0	13.2	8.3	34.1	17.6	31.6	22.7	29.2
Total		38	15	38	12	41	17	117	44	161

# Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q34) MONTHS FROM SUSPENSION TO INTERVIEW

					STA	TE						
		Pennsy	vania	Mary	land	Califo	ornia	Delai	ware	To	tal	
		OFFENDE	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFEND	ER TYPE	
		First	Multiple	First			Multiple	First	Multiple	First	Multiple	Total
RESPONSE CATEGORY												
Have not lost licens	se	27	5	4	2	7		1		39	7	46
	Column Percent	17.5	8.8	9.1	8.0	4.4		0.8	- <b>-</b>	8.1	3.5	6.8
3 months or less		67	9	11	10	92	18	57	1	227	38	265
	Column Percent	43.5	15.8	25.0	40.0	57.9	24.7	46.7	2.3	47.4	19.2	39.1
Between 4 and 6 mont	ths	16	13	12	3	35	19	27	5	90	40	130
	Column Percent	10.4	22.8	27.3	12.0	22.0	26.0	22.1	11.6	18.8	20.2	19.2
More than 6 months		44	30	17	10	25	36	37	37	123	113	236
	Column Percent	28.6	52.6	38.6	40.0	15.7	49.3	30.3	86.0	25.7	57.1	34.9
Total		154	57	44	25	159	73	122	43	479	198	677

# Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q35) HOW LONG WILL (OR DID) THIS MOST RECENT DUI LICENSE SUSPENSION/REVOCATION LAST? (IN DAYS)

					STA	TE				_		
		Pennsy	lvania	Mary	and	Califo	ornia	Dela	are	To	tal	
		OFFEND	R TYPE	OFFENDE	R TYPE	1						
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE CATEGORY												
Less than 1 month				4	1					4.	1	5
	Column Percent			9.1	4.5					0.9	0.5	0.8
Jetween 1 and 3 month	S	61		18	2	7		2		88	2	90
	Column Percent	39.6		40.9	9.1	4.5		1.7		18.8	1.0	13.5
Between 3 and 12 mont	hs	84	44	. 20	16	140	33	88	26	332	119	451
	Column Percent	54.5	74.6	45.5	72.7	90.9	44.6	75.9	61.9	70.9	60.4	67.8
More than 1 year		9	15	2	3	7	41	26	16	44	75	119
	Column Percent	5.8	25.4	4.5	13.6	4.5	55.4	22.4	38.1	9.4	38.1	17.9
Total		154	59	44	22	154	74	116	42	468	197	665

## Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q36) HOW LIKELY IS IT THAT YOU WILL (OR DID) GET YOUR LICENSE WHEN YOUR SUSPENSION/REVOCATION ENDS (OR ENDED)?

					· · ·							
		Pennsyl	lvania	Mary	land	Califo	ornia	Delai	are	To	tal	
		OFFENDE	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFEND	ER TYPE	
		First	First Multiple First		Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE CATEGORY	,											
Not at All Likely		10	6		3	10	8	10	2	30	19	49
•	Column Percent	6.6	10.9		12.5	6.5	10.7	8.1	4.5	6.4	9.6	7.3
Inlikely		5	1	1	. 1		3		1	6	6	12
	Column Percent	3.3	1.8	2.4	4.2		4.0		2.3	1.3	3.0	1.8
Somewhat likely		7	4	3	9	7	7	5	6	22	26	· 48
	Column Percent	4.6	7.3	7.3	37.5	4.5	9.3	4.1	13.6	4.7	13.1	7.2
Very likely		129	44	37	11	138	57	108	35	412	147	559
	Column Percent	85.4	80.0	90.2	45.8	89.0	76.0	87.8	79.5	87.7	74.2	83.7
otal		151	55	41	24	155	75	123	44	470	198	668

# Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q37) HOW LIKELY IS IT THAT YOU WILL DRIVE WHILE YOU DON'T HAVE A LICENSE?

					STA	TE		· · · · · · · · · · · · · · · · · · ·				
		Pennsyl	vania	Магу	and	Califo	ornia	Dela	are	To	tal	
		OFFENDE	R TYPE	OFFEND	R TYPE	OFFENDE	R TYPE	OFFEND	R TYPE	OFFEND	R TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE CATEGORY										· · · · · · · · ·		
Not at All Likely	<del></del>	115	32	26	16	55	14	70	27	266	89	355
	Column Percent	73.2	55.2	59.1	57.1	35.7	18.7	56.9	60.0	55.6	43.2	51.9
Unlikely	• ,	10	7	3	1	17	8	11	6	41	22	63
	Column Percent	6.4	12.1	6.8	3.6	11.0	10.7	8.9	13.3	8.6	10.7	9.2
Somewhat likely		6	5	2	2	15	5	7	2	30	14	44
	Column Percent	3.8	8.6	4.5	7.1	9.7	6.7	5.7	4.4	6.3	6.8	6.4
Very likely		26	14	13	9	67	48	35	10	141	81	222
	Column Percent	16.6	24.1	29.5	32.1	43.5	64.0	28.5	22.2	29.5	39.3	32.5
Total	· · · · · · · · · · · · · · · · · · ·	157	58	44	28	154	75	123	45	478	206	684

# Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q38) CONSIDERING HOW YOU DRIVE WHEN YOU DON'T HAVE A LICENSE, HOW LIKELY IS IT THAT YOU WILL BE CAUGHT DURING ONE MONTH?

			-		STA	TE						
		Pennsyl	vania	Maryl	and	Califo	ornia	Dela	ware	To	tal	
		OFFENDE	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFEND	ER TYPE	OFFEND	ER TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	first	Multiple	Total
RESPONSE CATEGORY												
Not at All Likely		24	18	11	4	48	29	22	8	105	59	164
l	Column Percent	57.1	78.3	73.3	57.1	53.3	50.9	44.0	47.1	53.3	56.7	54.5
Unlikely		4	3	1	1	26	15	13	1	44	20	64
	Column Percent	9.5	13.0	6.7	14.3	28.9	26.3	26.0	5.9	22.3	19.2	21.3
Somewhat likely		9	1	3		14	11	8	6	34	18	52
	Column Percent	21.4	4.3	20.0		15.6	19.3	16.0	35.3	17.3	17.3	17.3
/ery likely		5	1		2	2	2	7	2	14	7	21
	Column Percent	11.9	4.3		28.6	2.2	3.5	14.0	11.8	7.1	6.7	7.0
otal		42	23	15	7	90	57	50	17	197	104	301

## Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q39A) TO WHAT EXTENT HAS YOUR LOSS OF LICENSE INTERFERED WITH WORK?

					STA	TE						
		Pennsy	lvania	Mary	and	Califo	ornia	Dela	are	To	tal	
		OFFENDE	R TYPE	OFFEND	ER TYPE							
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE CATEGORY												
ot applicable		12	3	5		9	7	6	3	32	13	45
	Column Percent	10.1	6.3	15.6		6.2	9.7	5.6	6.8	7.9	7.2	7.7
lot at all		34	12	13	5	38	14	24	11	109	42	<b>1</b> 51
	Column Percent	28.6	25.0	40.6	29.4	26.2	19.4	22.4	25.0	27.0	23.2	25.9
o a little extent		6	3	3	3	8	3	12	3	29	12	41
	Column Percent	5.0	6.3	9.4	17.6	5.5	4.2	11.2	6.8	7.2	6.6	7.0
o some extent		21	6	3	4	22	9	18	11	64	30	94
	Column Percent	17.6	12.5	9.4	23.5	15.2	12.5	16.8	25.0	15.9	16.6	16.1
o a great extent		46	24	8	5	68	39	47	16	169	84	253
	Column Percent	38.7	50.0	25.0	29.4	46.9	54.2	43.9	36.4	41.9	46.4	43.3
Total		119	48	32	17	145	72	107	44	403	181	584

# Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q39B) TO WHAT EXTENT HAS YOUR LOSS OF LICENSE INTERFERED WITH SOCIAL/RECREATIONAL ACTIVITIES?

					STA	TE						
		Pennsyl	vania	Mary	land	Califo	ornia	Dela	ware	To	tal	
		OFFENDE	R TYPE	OFFENDI	R TYPE	OFFENDE	R TYPE	OFFEND	R TYPE	OFFENDI	ER TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE CATEGORY												
Not applicable		1		1		4	1	2		8	1	9
,	Column Percent	0.9		2.9		2.7	1.4	1.9		2.0	0.6	1.5
Not at all		16	5	5	4	19	9	9	8	49	26	75
	Column Percent	13.7	10.9	14.7	22.2	12.9	12.5	8.3	18.2	12.1	14.4	12.8
To a little extent		8	2	2		9	5	7	3	26	10	36
	Column Percent	6.8	4.3	5.9		6.1	6.9	6.5	6.8	6.4	5.6	6.1
To some extent		29	11	8	6	27	15	19	9	. 83	41	124
	Column Percent	24.8	23.9	23.5	33.3	18.4	20.8	17.6	20.5	20.4	22.8	21.2
To a great extent		63	28	18	8	88	42	71	24	240	102	342
	Column Percent	53.8	60.9	52.9	44.4	59.9	58.3	65.7	54.5	59.1	56.7	58.4
Total	•	117	46	34	18	147	72	108	44	406	180	586

# Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q39C) TO WHAT EXTENT HAS YOUR LOSS OF LICENSE INTERFERED WITH SHOPPING?

					STA	NTE						
		Pennsy	lvania	Mary	and	Califo	ornia	Dela	ware	To	tal	
		OFFENDE	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFEND	ER TYPE	OFFENDI	ER TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE CATEGORY												
Not applicable		6	3	1		9	3	4	1	20	7	27
	Column Percent	5.1	6.7	2.9		6.1	4.3	3.6	2.3	4.9	4.0	4.6
Not at all		21	6	10	5	25	12	- 20	13	76	36	112
	Column Percent	17.8	13.3	29.4	27.8	17.0	17.4	18.2	29.5	18.6	20.5	19.1
To a little extent		16	3	3	1	8	8	4		31	12	43
	Column Percent	13.6	6.7	8.8	5.6	5.4	11.6	3.6		7.6	6.8	7.4
To some extent		27	10	4	4	23	12	15	11	69	37	106
	Column Percent	22.9	22.2	11.8	22.2	15.6	17.4	13.6	25.0	16.9	21.0	18.1
To a great extent		48	23	16	8	82	34	67	19	213	84	297
-	Column Percent	40.7	51.1	47.1	44.4	55.8	49.3	60.9	43.2	52.1	47.7	50.8
Total		118	45	34	18	147	69	110	44	409	176	585

# Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q39D) TO WHAT EXTENT HAS YOUR LOSS OF LICENSE INTERFERED WITH MEDICAL APPOINTMENTS?

					STA	TE						
		Pennsyl	vania	Mary	and	Califo	ornia	Delaw	are	Tot	tal	
		OFFENDE	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE CATEGORY								<u> </u>				
Not applicable		24	4	5	4	23	5	13	1	65	14	79
	Column Percent	20.7	8.7	14.7	22.2	15.9	7.2	12.0	2.3	16.1	7.9	13.6
Not at all		27	8	10	4	34	15	26	16	97	43	140
Not at att	Column Percent	23.3	17.4	29.4	22.2	23.4	21.7	24.1	36.4	24.1	24.3	24.1
To a little extent		12	2	3	1	11	6	2	6	28	15	43
	Column Percent	10.3	4.3	8.8	5.6	7.6	8.7	1.9	13.6	6.9	8.5	7.4
To some extent		17	10	4	1	21	9	19	6	61	26	87
	Column Percent	14.7	21.7	11.8	5.6	14.5	13.0	17.6	13.6	15.1	14.7	15.0
To a great extent		36	22	12	8	56	34	48	15	152	79	231
	Column Percent	31.0	47.8	35.3	44.4	38.6	49.3	44.4	34.1	37.7	44.6	39.8
Total	***	116	46	34	18	145	69	108	44	403	177	580

## Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q39E) TO WHAT EXTENT HAS YOUR LOSS OF LICENSE INTERFERED WITH RELIGIOUS SERVICES/ACTIVITIES?

			· · · · · · · · · · · · · · · · · · ·		STA	TE						
		Pennsy	lvania	Магу	and	Califo	ornia	Dela	are	To	tal	
		OFFENDE	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFEND	R TYPE	OFFEND	ER TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE CATEGORY												
ot applicable		34	13	10	6	47	23	25	9	116	51	167
	Column Percent	29.1	28.9	30.3	33.3	33.1	34.8	23.1	20.5	29.0	29.5	29.1
Sot at all		33	11	10	3	38	13	28	14	109	41	150
	Column Percent	28.2	24.4	30.3	16.7	26.8	19.7	25.9	31.8	27.3	23.7	26.2
o a little extent		11			1	5	2	2	3	18	6	24
	Column Percent	9.4			5.6	3.5	3.0	1.9	6.8	4.5	3.5	4.2
.o some extent		17	7	4	1	17	5	15	5	53	18	71
	Column Percent	14.5	15.6	12.1	5.6	12.0	7.6	13.9	11.4	13.3	10.4	12.4
o a great extent		22	14	9	7	35	23	38	13	104	57	161
	Column Percent	18.8	31.1	27.3	38.9	24.6	34.8	35.2	29.5	26.0	32.9	28.1
Total		117	45	33	18	142	66	108	44	400	173	573

# Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q40COMBINED) SINCE YOU LOST YOUR LICENSE, HAVE YOU DRIVEN YOURSELF ANYWHERE?

					STA	TE						
		Pennsyl	vania	Mary	land	Califo	ornia	Dela	are	To	tal	
1		OFFENDE	R TYPE	OFFENDI	ER TYPE							
		First	<u> </u>		Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE												
Yes		51	15	21	6	101	51	39	9	212	81	293
	Column Percent	39.5	29.4	55.3	26.1	64.7	65.4	33.3	20.5	48.2	41.3	46.1
No		78	36	17	17	55	27	78	35	228	115	343
	Column Percent	60.5	70.6	44.7	73.9	35.3	34.6	66.7	79.5	51.8	58.7	53.9
Total		129	51	38	23	156	78	. 117	44	440	196	636

## Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q40A) SINCE YOU LOST YOUR LICENSE, WHAT TRANSPORTATION ARRANGEMENTS DO YOU USE FREQUENTLY FOR WORK?

					STA	TE						
		Pennsyl	vania	Maryl	and	Califo	ornia	Dela	are	Tot	at	
		OFFENDE	R TYPE									
1		First	Multiple	Total								
ESPONSE												
) Drive myself		17	8	8	4	57	33	28	7	110	52	162
	Column Percent	11.9	12.9	21.1	18.2	29.2	33.3	20.6	14.0	21.5	22.3	21.7
) Someone else drives me		84	. 31	22	15	51	21	69	28	226	95	321
	Column Percent	58.7	50.0	57.9	68.2	26.2	21.2	50.7	56.0	44.1	40.8	43.1
`) Taxi or public trans	sportation	12	9	2	1	48	- 23	16	3	78	36	114
	Column Percent	8.4	14.5	5.3	4.5	24.6	23.2	11.8	6.0	15.2	15.5	15.3
) Walk or bicycle		21	10	2	2	27	12	19	10	69	34	103
	Column Percent	14.7	16.1	5.3	9.1	13.8	12.1	14.0	20.0	13.5	14.6	13.8
) Other / not applical	ole	9	4	4		12	10	4	2	29	16	45
	Column Percent	6.3	6.5	10.5		6.2	10.1	2.9	4.0	5.7	6.9	6.0
*otal	1	143	62	38	22	195	99	136	50	512	233	745

Effects of Administrative License Revocation on Employment
DUI Offender Questionnaire
Frequency Tables by State, Offender Type, and Total
Q40B) SINCE YOU LOST YOUR LICENSE, WHAT TRANSPORTATION ARRANGEMENTS DO YOU USE FREQUENTLY FOR SOCIAL/RECREATIONAL ACTIVITIES?

					STA	TE						
		Pennsy	vania	Mary	and	Califo	ornia	Dela	are	To	tal	
		OFFENDE	R TYPE	OFFEND	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFEND	ER TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE												
1) Drive myself		4	1	4	2	28	20	16	4	52	27	79
	Column Percent	2.9	1.6	10.5	6.7	13.9	21.5	12.6	7.5	10.3	11.3	10.7
) Someone else drives me		101	40	25	17	102	44	85	32	313	133	446
	Column Percent	74.3	64.5	65.8	56.7	50.5	47.3	66.9	60.4	62.2	55.9	60.2
3) Taxi or public tr	ransportation	8	7	3	5	33	20	7	4	51	36	87
	Column Percent	5.9	11.3	7.9	16.7	16.3	21.5	5.5	7.5	10.1	15.1	11.7
4) Walk or bicycle		19	11	4	5	36	8	14	11	73	35	108
	Column Percent	14.0	17.7	10.5	16.7	17.8	8.6	11.0	20.8	14.5	14.7	14.6
5) Other / not appli	icable	4	3	2	1	3	1	5	2	14	7	21
,	Column Percent	2.9	4.8	5.3	3.3	1.5	1.1	3.9	3.8	2.8	2.9	2.8
Total		136	62	38	. 30	202	93	127	53	503	238	741

# Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q40C) SINCE YOU LOST YOUR LICENSE, WHAT TRANSPORTATION ARRANGEMENTS DO YOU USE FREQUENTLY FOR SHOPPING?

		· ,	<del></del>		STA	TE						
		Pennsy	vania	Mary	land	Califo	ornia	Delai	маге	То	tal	
		OFFENDE	R TYPE	OFFEND	R TYPE	OFFEND	ER TYPE	OFFEND	R TYPE	OFFEND	ER TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE												
1) Drive myself		8	5	4	3	37	27	25	4	74	39	113
	Column Percent	6.3	9.1	11.4	13.6	21.0	35.1	19.8	7.7	15.9	18.9	16.8
2) Someone else driv	ves me	86	35	24	11	74	28	80	32	264	106	370
	Column Percent	67.2	63.6	68.6	50.0	42.0	36.4	63.5	61.5	56.8	51.5	55.1
3) Taxi or public to	ransportation	9	5		4	23	13	4	5	36	27	63
	Column Percent	7.0	9.1		18.2	13.1	16.9	3.2	9.6	7.7	13.1	9.4
4) Walk or bicycle		19	8	3	3	37	7	13	9	72	27	99
	Column Percent	14.8	14.5	8.6	13.6	21.0	9.1	10.3	17.3	15.5	13.1	14.8
5) Other / not appl	icable	6	2	4	1	5	2	4	2	19	7	26
	Column Percent	4.7	3.6	11.4	4.5	2.8	2.6	3.2	3.8	4.1	3.4	3.9
Total		128	55	<b>3</b> 5	22	176	77	126	52	465	206	671

# Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q40D) SINCE YOU LOST YOUR LICENSE, WHAT TRANSPORTATION ARRANGEMENTS DO YOU USE FREQUENTLY FOR MEDICAL APPOINTMENTS?

					STA	TE						
		Pennsy	lvania	Mary	and	Califo	ornia	Dela	vare	To	tal	
ı		OFFENDI	ER TYPE	OFFEND	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFEND	ER TYPE	
:		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE												
1) Drive myself		9	7	6	4	44	30	22	6	81	47	128
i	Column Percent	7.0	12.5	16.2	15.4	25.9	35.7	18.8	11.8	17.9	21.7	19.1
2) Someone else dr	Someone else drives me		37	22	11	67	31	70	29	241	108	349
	Column Percent	64.1	66.1	59.5	42.3	39.4	36.9	59.8	56.9	53.3	49.8	52.2
3) Taxi or public	transportation	7	6	2	4	23	16	6	6	38	32	70
	Column Percent	5.5	10.7	5.4	15.4	13.5	19.0	5.1	11.8	8.4	14.7	10.5
4) Walk or bicycle		5	5	1	3	17	3	6	8	29	19	48
	Column Percent	3.9	8.9	2.7	11.5	10.0	3.6	5.1	15.7	6.4	8.8	7.2
5) Other / not app	licable	25	1	6	4	19	4	13	2	63	11	74
	Column Percent	19.5	1.8	16.2	15.4	11.2	4.8	11.1	3.9	13.9	5.1	11.1
Total		128	56	37	26	170	84	117	51	452	217	669

Effects of Administrative License Revocation on Employment
DUI Offender Questionnaire
Frequency Tables by State, Offender Type, and Total
Q40E) SINCE YOU LOST YOUR LICENSE, WHAT TRANSPORTATION ARRANGEMENTS DO YOU USE FREQUENTLY FOR RELIGIOUS SERVICES/ACTIVITIES?

		T			STA	TE						
		Pennsyl	vania	Maryl	and and	Califo	ornia	Delai	are	To	tal	
		OFFENDE	R TYPE	OFFENDE	R TYPE	OF FENDE	R TYPE	OFFENDE	R TYPE	OFFENDI	R TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
ESPONSE												
) Drive myself		5	1	4	1	24	16	15	4	48	22	70
	Column Percent	4.0	2.0	11.4	3.8	16.4	21.1	14.0	8.7	11.6	11.1	11.5
) Someone else drives	me	61	30	17	10	44	23	57	23	23 179 86		265
	Column Percent	48.8	60.0	48.6	38.5	30.1	30.3	53.3	50.0	43.3	43.4	43.4
5) Taxi or public tran	sportation	5	3	3	3	11	10	2	4	21	20	41
	Column Percent	4.0	6.0	8.6	11.5	7.5	13.2	1.9	8.7	5.1	10.1	6.7
') Walk or bicycle		13	4	2	3	12	2	7	5	34	14	48
	Column Percent	10.4	8.0	5.7	11.5	8.2	2.6	6.5	10.9	8.2	7.1	7.9
) Other / not applica	ble	41	12	9	9	55	25	26	10	131	56	187
	Column Percent	32.8	24.0	25.7	34.6	37.7	32.9	24.3	21.7	31.7	28.3	30.6
otal		125	50	35	26	146	76	107	46	413	198	611

#### Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q40F) HOW DID YOU GET HERE TODAY?

					STA	TE						
		Pennsy	lvania	Mary	land	Califo	ornia	Delai	are	To	tal	
		OFFENDE	R TYPE	OFFENDI	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFEND	ER TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE			-							<u> </u>		
1) Drive myself		40	9	18	6	84	36	17	5	159	56	215
	Column Percent	32.8	17.6	51.4	30.0	54.2	48.0	15.2	11.4	37.5	29.5	35.0
2) Someone else dr	) Someone else drives me		34	11	12	41	22	83	33	205	101	306
	Column Percent	57.4	66.7	31.4	60.0	26.5	29.3	74.1	75.0	48.3	53.2	49.8
3) Taxi or public	transportation	3	5	1		18	. 12	3	3	25	20	45
	Column Percent	2.5	9.8	2.9		11.6	16.0	2.7	6.8	5.9	10.5	7.3
4) Walk or bicycle	•	6	3	2	2	9	4	8	2	25	11	36
	Column Percent	4.9	5.9	5.7	10.0	5.8	5.3	7.1	4.5	5.9	5.8	5.9
5) Other / not app	olicable	3		3		3	1	1	1	10	2	12
	Column Percent	2.5		8.6		1.9	1.3	0.9	2.3	2.4	1.1	2.0
Total		122	51	35	20	155	75	112	44	424	190	614

## Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q40G) HOW DID YOU GET TO WORK ON THE LAST DAY YOU WORKED?

			······································		STA	TE						
		Pennsy	lvania	Mary	and	Calif	ornia	Dela	ware	To	tal	
		OFFENDI	ER TYPE	OFFENDE	R TYPE	OFFEND	ER TYPE	OFFEND	R TYPE	OFFEND	R TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE												
.) Drive myself		41	12	19	5	71	41	31	8	162	66	228
	Column Percent	34.5	24.0	55.9	26.3	46.1	58.6	28.2	18.2	38.8	36.1	38.0
2) Someone else dr	cone else drives me		25	12	10	37	10	58	25	162	70	232
	Column Percent	46.2	50.0	35.3	52.6	24.0	14.3	52.7	56.8	38.8	38.3	38.7
3) Taxi or public	transportation	3	3	1	1	22	11	10	1	36	16	52
1	Column Percent	2.5	6.0	2.9	5.3	14.3	15.7	9.1	2.3	8.6	8.7	8.7
4) Walk or bicycle		13	7		2	17	3	8	8	38	20	58
	Column Percent	10.9	14.0		10.5	11.0	4.3	7.3	18.2	9.1	10.9	9.7
5) Other / not app	licable	7	3	2	1	7	5	3	2	19	11	30
	Column Percent	5.9	6.0	5.9	5.3	4.5	7.1	2.7	4.5	4.6	6.0	5.0
Total		119	50	34	19	154	70	110	44	417	183	600

## Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q43) IN WHICH OF THE FOLLOWING ETHNIC GROUPS WOULD YOU CLASSIFY YOURSELF?

					STA	TE						
		Pennsy	lvania	Mary	land	Califo	rnia	Dela	are	Tot	tal	
		OFFENDI	ER TYPE	OFFENDI	ER TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	
		First	Multiple	Total								
RESPONSE CATEGORY												
White, not of	Hispanic orign	151	55	83	28	152	70	124	41	510	194	704
	Column Percent	93.2	90.2	87.4	77.8	91.6	89.7	87.9	87.2	90.4	87.4	89.6
Other		11	6	12	8	14	8	17	6	54	28	82
	Column Percent	6.8	9.8	12.6	22.2	8.4	10.3	12.1	12.8	9.6	12.6	10.4
Total		162	61	95	36	166	78	141	47	564	222	786

## Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q45) WHAT IS YOUR HIGHEST LEVEL OF EDUCATION?

					STA	TE		-				
		Pennsy	vania	Maryl	and	Califo	ornia	Dela	ware	To	tal	
		OFFENDE	R TYPE	OFFENDE	R TYPE	OF FENDE	R TYPE	OFFENDI	ER TYPE	OFFEND	ER TYPE	1
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE						· · · · · · · · · · · · · · · · · · ·						
1) Junior high schoo	ol (or less)	4		3	1					7	1	8
•	Column Percent	2.4		3.2	2.7					1.2	0.4	1.0
2) Some high school		10	. 4	6	2	2	3	10	8	28	17	45
	Column Percent	6.1	6.3	6.3	5.4	1.2	3.8	7.0	17.0	4.9	7.5	5.7
3) High school gradu	ate	44	25	32	14	27	12	42	16	145	67	212
	Column Percent	26.8	39.1	33.7	37.8	16.2	15.2	29.6	34.0	25.5	29.5	26.7
4) Trade school cert	ificate	8	10	3	3	4	6	16	8	31	27	58
	Column Percent	4.9	15.6	3.2	8.1	2.4	7.6	11.3	17.0	5.5	11.9	7.3
5) Some college, but	no degree	45	14	14	10	. 53	29	38	8	150	61	211
	Column Percent	27.4	21.9	14.7	27.0	31.7	36.7	26.8	17.0	26.4	26.9	26.5
6) Associates or 2-y	vear college degree	10		9	3	19	4	9		47	7	54
	Column Percent	6.1		9.5	8.1	11.4	5.1	6.3		8.3	3.1	6.8
7) Bachelors or 4-ye	ear college degree	30	9	22	2	39	18	21	. 7	112	36	148
	Column Percent	18.3	14.1	23.2	5.4	23.4	22.8	14.8	14.9	19.7	15.9	18.6
8) Masters or doctor	ate degree	13	2	6	2	23	7	6		48	11	59
•	Column Percent	7.9	3.1	6.3	5.4	13.8	8.9	4.2		8.5	4.8	7.4
Total		164	64	95	37	167	79	142	47	568	227	795

#### Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q46) WHAT IS YOUR GENDER?

					STA	TE			1			
		Pennsyl	lvania	Mary	and	Califo	ornia	Dela	vare	Tot	tal	
		OFFENDE	R TYPE									
		First	Multiple	Total								
RESPONSE												
Male		124	58	82	32	118	64	121	42	445	196	641
	Column Percent	76.1	90.6	86.3	86.5	70.7	81.0	85.2	89.4	78.5	86.3	80.7
Female		39	6	13	5	49	15	21	5	122	31	153
•	Column Percent	23.9	9.4	13.7	13.5	29.3	19.0	14.8	10.6	21.5	13.7	19.3
Total		163	64	95	37	167	79	142	47	567	227	794

## Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q47) WHAT IS YOUR CURRENT MARITAL STATUS?

					STA	TE						
		Pennsy	vania	Mary	land	Califo	ornia	Dela	are	To	tal	
		OFFENDE	R TYPE	OFFEND	ER TYPE							
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE CATEGORY												
Single		89	24	43	20	86	47	80	20	298	111	409
	Column Percent	54.3	37.5	45.3	54.1	51.2	59.5	56.3	42.6	52.4	48.9	51.4
<b>Married</b>		54	23	22	6	41	10	39	17	156	56	212
	Column Percent	32.9	35.9	23.2	16.2	24.4	12.7	27.5	36.2	27.4	24.7	26.6
Previously Married	j ·	21	17	30	11	41	22	23	10	115	60	175
	Column Percent	12.8	26.6	31.6	29.7	24.4	27.8	16.2	21.3	20.2	26.4	22.0
Total		164	64	95	37	168	79	142	47	569	227	796

## Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q48) OTHER THAN YOURSELF, HOW MANY PEOPLE LIVE IN YOUR HOUSEHOLD WHO CURRENTLY HAVE A VALID DRIVER'S LICENSE?

					STA	TE						
		Pennsy	lvania	Mary	land	Calif	ornia	Dela	are	To	tal	
		OFFENDE	R TYPE	OFFENDI	R TYPE	OFFEND	R TYPE	OFFENDE	R TYPE	OFFEND	ER TYPE	
		First	First Multiple Fir		Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE CATEGO	RY						-					
None		36	12	24	8	49	30	39	8	148	58	206
	Column Percent	22.4	18.8	26.1	22.2	29.5	38.5	27.9	17.0	26.5	25.8	26.3
0ne		69	32	43	12	78	34	51	23	241	101	342
	Column Percent	42.9	50.0	46.7	33.3	47.0	43.6	36.4	48.9	43.1	44.9	43.6
Two or more		56	20	25	16	39	14	50	16	170	66	236
	Column Percent	34.8	31.3	27.2	44.4	23.5	17.9	35.7	34.0	30.4	29.3	30.1
Total	1	161	64	92	36	166	78	140	47	559	225	784

## Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Tables by State, Offender Type, and Total Q49) OTHER THAN YOURSELF, HOW MANY PEOPLE LIVE IN YOUR HOUSEHOLD WHO ARE CURRENTLY EMPLOYED?

					STA	TE						
		Pennsy	lvania	Mary	and	Califo	ornia	Dela	ware	To	tal	
		OFFENDE	R TYPE	OFFEND	R TYPE	OFFENDE	ER TYPE	OFFENDI	R TYPE	OFFEND	ER TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
RESPONSE CATEGO	RY											
None		46	19	30	12	55	31	50	10	181	72	253
4one	Column Percent	28.9	30.2	32.6	34.3	33.3	40.3	36.0	21.3	32.6	32.4	32.6
ne		58	28	37	8	73	32	43	23	211	91	302
	Column Percent	36.5	44.4	40.2	22.9	44.2	41.6	30.9	48.9	38.0	41.0	38.9
.wo or more		55	16	25	15	37	14	46	14	163	59	222
	Column Percent	34.6	25.4	27.2	42.9	22.4	18.2	33.1	29.8	29.4	26.6	28.6
otal		159	63	92	35	165	77	139	47	555	222	777

	, , , , , , ,				STA	TE						
		Pennsyl	vania	Магу	land	Calif	ornia	Dela	are	To	tal	
		OFFENDE	R TYPE	OFFENDI	R TYPE	OFFEND	R TYPE	OFFENDE	R TYPE	OFFEND	R TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
Months from DUI	Average Value	8.39	14.57	7.98	7.24	4.96	9.53	8.75	15.06	7.40	11.68	8.63
arrest to interview	Frequency Count	168	65	96	38	171	83	144	47	579	233	812
Q9)Number of months	Average Value	29.76	30.85	30.19	30.11	31.43	30.76	30.65	31.36	30.54	30.80	30.62
answro in catendar	Frequency Count	168	65	96	38	171	83	144	47	579	233	812
Q9)Number of months	Average Value	28.32	29.89	28.92	29.32	29.92	26.71	29.38	30.68	29.16	28.82	29.06
with employment	Frequency Count	168	65	96	38	171	83	144	47	579	233	812
	Average Value	7.51	1.85	5.69	4.00	3.89	4.81	7.46	2.66	6.13	3.42	5.35
attending school	Frequency Count	168	65	96	38	171	83	144	47	579	233	812
Q9)Months unemply/searching	Average Value	5.17	8.58	5.65	6.32	6.81	7.41	4.27	9.96	5.51	8.07	6.25
for work	Frequency Count	168	65	96	38	171	83	144	47	579	233	812
Q9)Months unemply/not	Average Value	2.85	2.38	1.25	0.00	3.89	2.96	1.92	2.64	2.66	2.25	2.54
searching for work	Frequency Count	168	65	96	38	171	83	144	47	579	233	812
Q9)Number of months disability	Average Value	1.23	3.34	0.31	1.58	0.75	2.57	1.08	0.68	0.90	2.24	1.28
disability	Frequency Count	168	65	96	38	171	83	144	47	579	233	812
Q9)Number of months	Average Value	0.17	1.43	1.56	1.58	0.37	0.72	1.06	1.30	0.68	1.18	0.82
T et il ellerit	Frequency Count	168	65	96	38	17.1	83	144	47	579	233	812
Q9)Number of months in jail	Average Value	0.17	7.63	0.94	4.00	1.11	4.52	1.04	6.64	0.79	5.73	2.21
in jait	Frequency Count	168	65	96	38	171	83	144	47	579	233	812
Tenure in months at current iob	Average Value	61.04	65.51	74.30	51.61	58.75	57.61	68.60	71.28	64.49	61.81	63.72
current job	Frequency Count	158	63	92	36	160	72	136	46	546	217	763
Q11e)1-way commute (miles)/current job	Average Value	15.57	15.33	19.46	22.00	18.22	17.43	15.24	10.96	16.92	16.19	16.71
(mrtes//current jub	Frequency Count	155	62	92	36	154	68	133	46	534	212	746
Q11g)Weekly hours worked/current job	Average Value	43.77	43.69	45.91	46.44	44.81	44.13	44.27	44.22	44.56	44.41	44.52
worked/edit etit Job	Frequency Count	157	62	92	36	159	72	136	46	544	216	760
Q11h)Weekly gross earnings/current	Average Value	636.36	566.60	720.74	603.09	974.95	894.85	586.70	542.96	<i>7</i> 34.11	675.08	717.40
job	Frequency Count	150	57	90	33	143	66	126	45	509	201	710

					STA	TE						
		Pennsy	vania	Mary	land	Califo	ornia	Delaw	are	Tot	tal	
		OFFENDE	R TYPE	OFFEND	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	:
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
Tenure in months	Average Value	23.05	23.77	23.81	13.73	40.24	30.86	30.70	42.67	29.75	27.09	29.00
(next most recent	Frequency Count	57	26	31	15	50	14	43	15	181	70	251
Q12e)1-way commute	Average Value	14.40	10.26	15.32	17.86	12.01	15.81	12.30	8.86	13.40	12.63	13.19
(miles)/next job	Frequency Count	57	26	30	14	50	13	41	14	178	67	245
Q12g)Weekly hours	Average Value	35.42	40.31	37.71	40.87	39.38	39.71	38.02	42.73	37.52	40.83	38.45
worked/next job	Frequency Count	57	26	31	15	50	14	42	15	180	70	250
Q12h)Weekly gross	Average Value	392.15	408.08	377.19	354.64	662.91	597.31	403.00	417.33	464.81	435.70	456.62
earnings/next job	Frequency Count	54	25	31	14	46	13	40	15	171	67	238

			· · · · · · · · · · · · · · · · · · ·		STA	TE						
		Pennsyl	vania	Maryl	and	Califo	ornia	Dela	are	To	tal	
		OFFENDE	R TYPE	OFFENDE	R TYPE	OFFENDE	ER TYPE	OFFENDE	R TYPE	OFFENDI	ER TYPE	
		first	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
Q14)Job satisf at time of DUI	Average Value	4.19	3.63	3.94	3.87	4.07	3.90	4.05	4.08	4.08	3.86	4.02
(5=very)	Frequency Count	128	46	81	30	141	61	115	40	465	177	642
Q19)Extent income redcd (1=not at	Average Value	2.04	3.04	1.65	2.09	2.24	2.94	1.99	2.28	2.02	2.69	2.21
all)	Frequency Count	135	52	82	32	146	68	118	40	481	192	673
Q20)\$/week income reduced	Average Value	69.57	65.63	46.83	79.03	155.80	223.84	36.77	77.07	83.23	125.71	94.88
l educed	Frequency Count	163	54	94	36	163	73	133	46	553	209	762
Age of car (in years)	Average Value	7.26	11.05	6.32	8.25	8.81	9.31	7.56	8.33	7.63	9.41	8.14
years)	Frequency Count	166	61	93	36	166	80	141	46	566	223	789
Months from suspension to	Average Value	4.22	7.81	5.70	6.96	4.16	8.15	6.99	15.40	5.04	9.47	6.34
interview	Frequency Count	154	57	44	25	159	73	122	43	479	198	677
Q35)Days license	Average Value	149.77	492.27	114.39	272.73	163.01	570.14	294.87	515.43	186.76	501.94	280.13
suspension will last	Frequency Count	154	59	44	22	154	74	116	42	468	197	665
Q36)Likely get lic back (1=not at all)	Average Value	4.48	4.33	4.73	3.58	4.59	4.15	4.54	4.36	4.56	4.18	4.44
back (1-110t at att)	Frequency Count	151	55	41	24	155	75	123	44	470	198	668
Q37)Likely drive	Average Value	1.78	2.26	2.27	2.43	3.01	3.73	2.28	2.09	2.35	2.78	2.48
w/o lic (1=not at all)	Frequency Count	157	58	44	28	154	75	123	45	478	206	684
Q38)Likely caught driving w/o lic	Average Value	1.90	1.35	1.47	2.29	1.69	1.77	2.08	2.18	1.82	1.78	1.80
ditting w/o tre	Frequency Count	42	23	15	7	90	57	50	17	197	104	301
Q39a)Interfrnc w/ work (1=none)	Average Value	2.75	3.19	2.13	2.82	3.02	3.18	3.03	2.86	2.87	3.07	2.93
work (1-Hone)	Frequency Count	119	48	32	17	145	72	107	44	403	181	584
Q39b)Interfrnc w/ social act (1=none)	Average Value	3.56	3.85	3.53	3.22	3.61	3.69	3.89	3.55	3.66	3.65	3.66
Socrat act (1-none)	Frequency Count	117	46	34	18	147	72	108	44	406	180	586
Q39c)Interfrnc w/ shopping (1=none)	Average Value	3.08	3.42	3.03	3.17	3.33	3.29	3.50	3.09	3.28	3.26	3.27
anopping (1-noile)	Frequency Count	118	45	34	18	147	69	110	44	409	176	585
Q39d)Interfrnc w/ medical app	Average Value	2.35	3.22	2.50	2.72	2.63	3.12	2.90	2.73	2.61	3.01	2.73
(1=none)	Frequency Count	116	46	34	18	145	69	108	44	403	177	580
Q39e)Interfrnc w/ rel. act. (1=none)	Average Value	1.81	2.22	1.97	2.28	1.91	2.14	2.36	2.23	2.01	2.20	2.06
.cc. acc. (1-none)	Frequency Count	117	45	33	18	142	66	108	44	400	173	573
Q41)Miles driven per year	Average Value	17649.44	17122.95	25316.09	20808.82	17116.56	16212.86	21771.09	13142.86	19842.56	16613.04	18907.58
Per Jeal	Frequency Count	142	61	87	34	151	70	128	42	508	207	715
Q42)Miles driven last week	Average Value	188.63	108.58	500.02	235.71	202.81	155.83	125.78	98.37	228.91	143.18	203.81
TOST HEEK	Frequency Count	143	60	86	35	151	71	132	46	512	212	724

					STA	TE	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
		Pennsylvania		Mary	land	Califo	ornia	Delaware		Total		
		OFFENDE	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFENDE	R TYPE	OFFEND	R TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
Age at interview	Average Value	33.25	37.97	36.81	35.22	37.10	37.53	34.89	37.35	35.38	37.23	35.90
	Frequency Count	159	57	94	35	157	77	137	44	547	213	760

					STA	TE		-				
		Pennsylvania OFFENDER TYPE		Mary	land			are	Total OFFENDER TYPE			
				OFFENDE	R TYPE			R TYPE				
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
Age at DUI arrest	Average Value	32.55	36.75	36.16	34.61	36.69	36.73	34.14	36.13	34.76	36.26	35.18
	Frequency Count	159	57	94	35	157	77	137	44	547	213	760
Q50)Comb. wkly income of members	Average Value	1060.43	875.87	1041.91	1188.00	1260.16	1080.36	1112.88	617.08	1125.83	903.51	1064.15
in home	Frequency Count	70	23	34	10	61	28	59	25	224	86	310
Q50)Comb. wkly inc	Average Value	743.43	647.61	831.99	585.50	880.10	909.82	682.46	478.81	778.03	676.69	749.92
(ave/HH)	Frequency Count	70	23	34	10	61	28	59	25	224	86	310

		STA	ATE .		
_	Pennsylvania	Maryland	California	Delaware	Total
92)COUNTY AND STATE OF RESIDENCE					
CA			3		3
DE				2	2
MD		1		••	1
PA	4				4
Anne Arundel MD		120		••	120
Baltimore City MD		2			2
Baltimore MD	1	2		1	4
Bergen NJ				1	1
Berks PA	3				3
Cecil MD				6	6
Chester PA	196			4	200
Claymont DE				1	1
Contra Costa CA			2		2
Delaware PA	14			7	21
Downingtown PA	1				1
Edge Water MD		1			1
Essex NJ				1	1
Fairfax VA		1	••		1
Glenburnie MD		1	••		1
Kent DE				2	2
Lancaster PA	2				2
Marin CA			237	•	237
Mendoano CA			1		1
Montgomery PA	13				13
New Castle DE	2			162	164
Newark DE				3	3
Newport				1	1
Novato CA			2		2
Odessa DE	1				1
Pasail NJ				1	1
Philadelphia PA	1			. 2	3
Phoenixville PA	1				1
Prince George's MD		4			

	Pennsylvania	Maryland	California	Delaware	Total
Q2)COUNTY AND STATE OF RESIDENCE					
Queen Anne's MD		3			3
Salem NJ	1				1
San Francisco CA			3		3
Solano CA			1		1
Sonoma CA			5		5
Sussex DE				2	2
Total	240	135	254	196	825

		STA	\TE		
	Pennsylvania	Maryland	California	Delaware	Total
Q3b)LOCATION OF MOST RECENT DUI ARREST					
Annapolis, MD		30			30
Anne Arundel County, MD		14			14
Arnold, MD		3			3
Atglen, PA	1				1
Atlantic County, NJ	1				1
Avon Grove, PA	1				1
Avondale, PA	2				2
Baltimore City, MD		1		•-	1
Baltimore, ND		5			5
Bear, DE				6	6
Berwyn, Easttown Twnshp., PA	5				5
Beverly Beach(Anne Arundel) MD		1			1
Birmingham Township, PA	1				1
Bolinas, CA			1		1
Bowie, MD		. 1			1
Brandon, Tampa, FL				1	1
Brookhaven, PA	1				1
Brooklyn Park, MD		2			2
CA			2		2
Calistoga, CA			1		1
Caln Township, PA	5				5
Cambridge, MD		1			1
Cape Charles, VA				1	. 1
Cape St. Clare	·	1			1
Centerville, MD		1			1
Chester County, PA	6			2	8
Chester, PA	2				2
Chico, CA			1		1
Claymont, DE				12	· 12
Coatesville, PA	8				8
Cochranville - Londonderry, PA	1	**			1
Colusa, CA			1		1
Concord Twnsp, DE County, PA	1				1

		STA	ATE		
	Pennsylvania	Maryland	California	Delaware	Total
Q3b)LOCATION OF MOST RECENT DUI ARREST			, , , , , , <u> , , , , , , , , , , , ,</u>		
Concordville, DE County, PA	1				1
Corte Madera, CA			15	• •	15
Coventry, PA	1				1
Crofton, MD'		2			2
Cumberland County, PA	1				1
DE		••		1	1
Deale, MD		3			3
Delaware City, DE			••	1	1
Delaware County, PA				2	2
Devon, PA	3				. 3
District of Columbia		1		**	1
Dorchester County, MD		1			1
Dover, DE		••		1	1
Downingtown, PA	10				10
Durham, NC		1		**	1
E. Coventry TS (Pottstown), PA	1		••		1
E. Pikeland Twp,(Spring Cty)PA	1				1
Eagle, PA	1				1
East Bradford Township, PA					1
East Fallowfield Township, PA	4	••			4
East Goshen Township, PA	5				5
East Whiteland Township, PA	9		••		9
Easton, MD		1			1
Edgewater, MD	+-	6			6
Elkton, MD	1			1	2
Elsmere, DE				5	5
Elverson, PA	1				1
Exton, PA	1	•-			1
Fairfax, CA			16		16
Franklin Township, NJ	1		••		1
Galena, MD	•-			1	1
Gambrills, MD		1			1
Gettysburg, PA	1				1

		STA	ATE .		
	Pennsylvania	Maryland	California	Delaware	Total
Q3b)LOCATION OF MOST RECENT DUI ARREST					
Glen Burnie, MD		20			20
Glen Moore, PA	1				1
Gloucester County, NJ				1	1
Greenbrae, CA			4		4
Harrington, DE				1	1
Harrisburg, PA		1			1
Harrison Township, NJ				1	1
Harwood, MD	••	1			1
Hawai i			1		1
Hayward, Alameda County, CA			1		1
Highland Township, PA	1				1
Honeybrook Township, PA	3				3
Howard County, MD		1			1
Islamorada, Florida		1			1
Jackson Township, PA	1		••		1
Kaolin, PA	2				2
Kennett Square, PA	1				1
Kent County, PA	1				1
Kentfield, CA			1		1
Lake Tahoe, CA			1		1
Lancaster County, PA	2				2
Landsdale, PA	1			**	1
Larkspur, CA			17		17
Laurel, MD		2		*-	2
Lewes, DE				1	1
Linthicum, MD		3			3
Lothian, MD		1,			1
Lower Oxford, PA	1			1	1
Lower Paxton Township, PA	1				1
Lower Pottsgrove Township, PA	1				1
MD		1			1
Malvern, PA	11				11
Margate, NJ				1	1

		STA	TE		
	Pennsylvania	Maryland	California	Delaware	Total
Q3b)LOCATION OF MOST RECENT DUI ARREST					
Marin, CA			8		8
Mayo, MD		2			2
Media, PA	1				1
Middletown, DE				5	5
Mill Valley, CA			32		32
Montchamin, DE				1	1
Monterey, CA			1		1
Montgomery County, PA	1				1
Moraga, CA			1	••	1
Napa, CA			2		2
New Castle County, DE				11	11
New Castle, DE				29	29
New Jersey		••		1	1
Newark, DE				29	29
Newport, DE				5	5
Norristown, PA	1				1
North Coventry Township, PA	6				6
Novato, CA			35		35
Ocean City, MD	•••	1	•••	1	2
Odenton, MD		2			2
Odessa, DE	1			1	2
Old New Castle, DE				2	. 2
Oxford Borough, PA	3				3
Paoli, PA	4	••			4
Parkesburg, PA	1	•-			1
Pasadena, MD		9			9
Pennelos County, FL				1	1
Pennsbury Township, PA	1	••			1
Petaluma, CA			2		2
Phoenixville, PA	7			·	7
Point Reyes Station, CA		••	1	••	1
Pottstown, PA	2				7
Prince Frederick, MD		1			1

		STA	ATE		
	Pennsylvania	Maryland	California	Delaware	Total
Q3b)LOCATION OF MOST RECENT DUI ARREST					
Prince George's County, MD		1	••		1
Pt. Pleasant, PA		1			1
Radnor Township, PA	1	•			1
Redwood City, CA		•-	1		1
Richmond, CA		••	1		1
Riva, MD		1			1
Romanville/Strausburg, PA	1				1
Ross, CA			1		1
Sadsburg, PA	1				1
Salem, MA			1		1
San Anselmo, CA			9		9
San Francisco, CA			12		12
San Mateo, CA			1		1
San Rafael, CA			42		42
Santa Barbara, CA			1		1
Santa Rosa, CA			1,		1
Sausalito, CA	••		23		23
Senner, CA	••	*-	1		1
Severna Park, MD	••	2			2
Solomons Island, MD	••	1			1
Sonoma, CA	••		3		3
Spring City, PA	5				5
Stanton, DE				1	1
Stevensville, MD	••	1			1
Stockton, CA			1		1
Stratford, PA	1			••	1
Summit Bridge, DE				1	1
Surf City, NJ	1				1
Sussex County, DE				1	1
Tahoe City, CA			1		1
Terra Linda, CA		••	1		1
Tiburon, CA		•-	4		4
Tredyffrin Township, PA	21				21

		STA	TE		
	Pennsylvania	Maryland	California	Delaware	Total
Q3b)LOCATION OF MOST RECENT DUI ARREST					
Trooper, PA	1				
Twin Cities, CA			2		
Ukiah, CA			1		
Upper Merion Township, PA	1				
Upper Providence, DE Co., Pa	1				
Upper Providence, Mont. Co, PA	1				
Uwchlan Township, PA	1				
Valley Forge, PA	2				
Ventura (Los Angeles), CA	1				
WIlmington, DE				1	
Washington Township, NJ				1	
Washington, DC		1			
Wayne, PA	2				
West Bradford Township, PA	1				
West Brandywine, PA	1				
West Caln, PA	1				,
West Chester, PA	27				2
West Goshen Township, PA	9				
West Grove, PA	4				
West Pikeland Township, PA	1				
West Whiteland Township, PA	3				
Westtown Township, PA	7				
Willistown Township, PA	4				
Wilmington, DE				61	6
Total	232	130	251	191	80

		STA	NTE .		
	Pennsylvania	Maryland	California	Delaware	Total
Q21b)VEHICLE DRIVING AT DUI ARREST		· · · · · · · · · · · · · · · · · · ·			- <del></del>
AMC Concord				1.	1
AMC Hornet				1	1
Acura	3				3
Acura Integra	2			1	3
Acura Legend			1	1	2
Altima			1		1
Audi			3		3
Audi 100S	1				1
BMW			9		9
BMW 325			1		1
BMW 735i	1		1		2
Blazer		1		1	2
Buick	9	1	1	5	16
Buick Electra 225	1				1
Buick Regal	1			4	5
Buick Rivera		••		1	1
Buick Skylark	1	1			2
Buick Somerset				1	1
Buick Station Wagon				1	1
C30				1	1
Cadillac	5	2	2	1	10
Cadillac DeVille			1	2	3
Cadillac Eldorado				1	1
Cadillac Seville			1		1
Chevy	9	5	12	13	39
Chevy 4x4	1				1
Chevy Astro Minivan	1	•-	1		2
Chevy Berreta GT	1				1
Chevy Blazer	4		3		7
Chevy Blazer S-10	2	1	2	1	6
Chevy C-10				1	1
Chevy Camaro	5	1	3	2	11
Chevy Camaro Coupe	1				1

		STA	ATE		
	Pennsylvania	Maryland	California	Delaware	Total
Q21b)VEHICLE DRIVING AT DUI ARREST					
Chevy Camaro Z-28		1			1
Chevy Caprice			1		1
Chevy Cavalier	2				2
Chevy Celebrity	1			••	1
Chevy Chevette	1			1	2
Chevy Corsica				1	1
Chevy Corvette		2	3	1	6
Chevy El Camino	1				1
Chevy GEO	1			1	2
Chevy GEO Metro			1		1
Chevy GEO Prizm	1				1
Chevy GEO Storm	3	1	1		5
Chevy GEO Tracker				1	1
Chevy Impala	1				1
Chevy Lumina	1	1			2
Chevy Malibu Classic	•			1	1
Chevy Monte Carlo	1	2		1	4
Chevy Nova		1			1
Chevy Pick-up	2	1	. an m. 21 1	4	7
Chevy Sedan	1				1
Chevy Station Wagon	1			1	2
Chevy Truck	3	2	2	2	9
Chevy Truck S-110		1			1
Chevy U.S. Gov.Truck	1	•-			1
Chevy Z34	1		••		1
Chrysler	1	1	1	2	5
Chrysler LHS	1				1
Chrysler Laser	1			**	1
Chrysler Lebaron	2	1	1		4
Datsun	3		2	1	6
Datsun 2802X				1	1
Datsun Station Wagon	1				1
Dodge	9	4	4	4	21

		STA	\TE		
	Pennsylvania	Maryland	California	Delaware	Total
Q21b)VEHICLE DRIVING AT DUI ARREST					
Dodge Aires	1				1
Dodge Colt	1	2	2		5
Dodge Dakota Pick-up		1		1	2
Dodge Daytona		2	1		3
Dodge Dust. Sundance	1			••	1
Dodge Lancer ES	1				1
Dodge Omni	1			1	2
Dodge Pick-up Truck	1		1		2
Dodge Ram 50				1	1
Dodge Shadow	1		1		2
Dodge Spirit				1	1
Dodge Stealth	2				2
Dodge Van			1	2	3
Eagle Premiere	1				1
Eagle Talon		1		1	2
Eagle Wagon	•-		1		1
Ferrari			1		1
Ferro		1			1
Fiat Spyder			1		1
Ford	16	11	11	14	52
Ford Bronco	2	••	2	7	11
Ford Bronco II	••	1	3	1	5
Ford Escort	2	2	1	2	7
Ford Escort GT	1				1
Ford F-150 Pick-up		2		2	4
Ford F-250 Pick-up	2	1	2	1	6
Ford Fairmont	2				2
Ford Falcon	••		••	1	1
Ford Granada	1			• •	1
Ford Grand Marquis		1		••	1
Ford Mustang	2	2	3	1	8
Ford Mustang GT	2	1	••	2	5
Ford Mustang LX	1				1

	<u> </u>	STA	\TE		
	Pennsylvania	Maryland	California	Delaware	Total
Q21b)VEHICLE DRIVING AT DUI ARREST					
Ford Pick-up Truck	1	1	2	8	12
Ford Pinto				1	1
Ford Probe		1			1
Ford Probe GT				1	1
Ford Ranger	1		3	2	6
Ford Station Wagon		1			1
Ford T-Bird			1		1
Ford Taurus			2	••	2
Ford Tempo	2	2		1	5
Ford Thunderbird	1	1	4		6
Ford Truck	3	2	3	1	9
Ford Van	3	3		4	10
GMC		1	1	1	3
GMC 4x4			1		1
GMC Jimmy S-15	1				1
GMC Pick-up	1				1
GMC Suburban	1	1			2
GMC Truck		1		1	2
GMC Van	1	·			1
Grand Cherokee	1				1
Harley D. XLS Rdster	1				1
Honda	3	1	12	3	19
Honda Accord		1		2	3
Honda Accord DX	1				1
Honda CRX	3				3
Honda Civic	2		1	1	4
Honda Civic CX			1		1
Honda Motorcycle	1		•••	· 1	2
Honda Prelude	2		2		4
Hyundai	2	2	1	·	5
Hyundai Excel	1				1
I-Mark		1			1
Isuzu	2		1	2	5

	T	STA	\TE		
	Pennsylvania	Maryland	California	Delaware	Total
Q21b)VEHICLE DRIVING AT DUI ARREST					
Isuzu Trooper	1				1
Jaguar	••		3		3
Jeep	2	1	6	4	13
Jeep CJ7			1	2	3
Jeep Cherokee	2	1	2	1	6
Jeep Wrangler	1	1	2	1	5
Lincoln	1	1		1	3
Lincoln Continental	1				1
Lincoln Mark VIII	••		1		1
Lincoln Mark VIII LS			1		1
Lincoln Town Car	1	1			2
MGB	1				1
Mazda			6	4	10
Mazda 323		1			1
Mazda 626	1				1
Mazda Pick-up	••		1	1	2
Mazda RX7	2	1	2		5
Mercedes 300D			1		1
Mercedes 560SL			1		1
Mercedes Benz		1	5	••	6
Mercury		3	3	2	8
Mercury Cougar				1	1
Mercury Cougar XR7				2	2
Mercury Lynx		1	1		2
Mercury Marquix				1	1
Mercury Sable			1	1	2
Mercury Topaz	1	1			2
Mercury Tracer	1				1
Mitsubishi				2	2
Mitsubishi Diamante			1		1
Mitsubishi Eclipse	1				1
Mitsubishi Mirage		1		**	1
Motorcycle				1	1

		STA	ATE		
	Pennsylvania	Maryland	California	Delaware	Total
Q21b)VEHICLE DRIVING AT DUI ARREST					
Nissan	5	4	10	1	20
Nissan 200SX		**		1	1
Nissan 4X4			1		1
Nissan King Cab	1				1
Nissan Maxima	1	1	••	••	2
Nissan Pathfinder				1	1
Nissan Sentra	1	1	••	2	. 4
Nissan Stanza			1		1
Nissan Truck	1	••	1		2
0lds	6	3	4	5	18
Olds Cutlass		••	••	1	1
Olds Cutlass Supreme			1	1	2
Olds Tornado	1				1
Pick-up Truck	1	4	1	2	8
Plymouth				1	1
Plymouth Reliant	1	1	••	••	2
Plymouth Sundance	1	1			2
Plymouth Voyager	1				. 1
Pontiac	1	2	4	5	12
Pontiac Fiero			1		1
Pontiac Firebird	1	1	1	3	6
Pontiac Grand AM	2	1			3
Pontiac Grand Prix	2	1			3
Pontiac LaMans	1			2	3
Pontiac Monte Carlo				1	1
Pontiac Sunbird		1	••	2	3
Porsche	1		1		2
Probe		••		1	1
Q-45 Infinity	••		1		1
Renault	1		1	1	3
Saab			1	• •	1
Saturn	2	1	2		5
Spectrum		1			1

		STA	ITE		
	Pennsylvania	Maryland	California	Delaware	Total
Q21b)VEHICLE DRIVING AT DUI ARREST					
Subaru			6	1	7
Subaru Brat Truck	1	••	••		1
Subaru Station Wagon	1			1	2
Suzuki Samari	1	••			1
Thunderbird	1				1
Toyota	6	2	21	6	35
Toyota 4x4			1		1
Toyota Camry	1	1	2		4
Toyota Celica	1		1		2
Toyota Corolla		1	2		3
Toyota Cressida			1		1
Toyota Pick-up	2	2	6		10
Toyota Supra	••	1			1
Toyota Tercel	2	1			3
Toyota Truck	1	2			3
Truck	1	2	1		4
VII .	4	1	5	1	11
VW Beetle	1				1
VW Fox				1	1
VW Golf		1			1
VW Jetta			2		2
VW Rabbit			1		1
VW Van			2		2
Van		1		+-	1
Volvo		1	1	1	3
Volvo 740 DL	1				1
Volvo Station Wagon	1		1		1
Yamaha Cycle	1				. 1
Yugo			2		2
Total	236	130	247	193	806

## Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Counts of Changes in Employment and Income by State, Offender Type, and Total

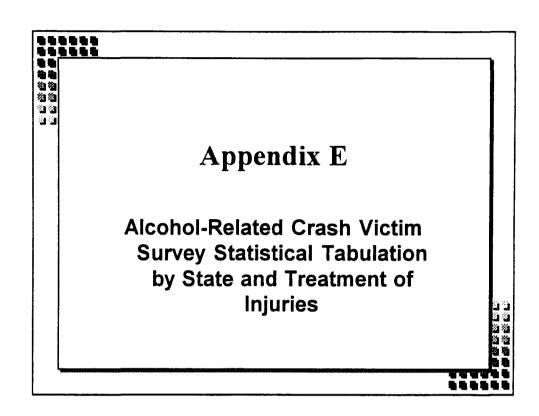
					STA	TE						
		Pennsy	lvania	Mary	land	Califo	ornia	Dela	ware	То	tal	
		OFFEND	ER TYPE	OFFENDI	OFFENDER TYPE		OFFENDER TYPE		OFFENDER TYPE		OFFENDER TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
Q10)CHANGES IN EMPLOY	MENT AND INCOME				,							
Answer left blank		25	14	13	4	24	15	.22	5	84	38	122
	Column Percent	12.8	18.4	12.6	10.0	12.5	14.2	13.3	9.6	12.8	13.9	13.1
N/A or none		71	13	47	19	44	9	39	10	201	51	252
	Column Percent	36.2	17.1	45.6	47.5	22.9	8.5	23.5	19.2	30.6	18.6	27.1
None; continues to dr	ive	1	1		1	11	5	2		14	7	21
	Column Percent	0.5	1.3		2.5	5.7	4.7	1.2		2.1	2.6	2.3
No change; recvd work	restricted license		:	6	1	3	1	2		11	2	13
	Column Percent			5.8	2.5	1.6	0.9	1.2		1.7	ļ	1.4
Employer does not kno	DW .			1		4	2	3		8	2	10
	Column Percent			1.0		2.1	1.9	1.8		1.2	0.7	1.1
Employment remained t	the same	1			1	7	1	5		13		
	Column Percent	0.5			2.5	3.6	0.9	3.0		2.0	0.7	1.6
No change; transports	ition difficult	16	4	7	1	11	8	26	9	60	22	82
	Column Percent	8.2	5.3	6.8	2.5	5.7	7.5	15.7	17.3	9.1	8.0	8.8
More hours		1		1				1		3		3
	Column Percent	0.5		1.0				0.6		0.5		0.3
Self-improvement;time	to attend AA/rehab		1		· · · · · · · · · · · · · · · · · · ·		* · · · · ·	· · · · · · · · · · · · · · · · · · ·			1	1
	Column Percent		1.3								0.4	0.1
Job change		4	2	1					1	5		9
	Column Percent	2.0	2.6	1.0	2.5				1.9	0.8		1.0
Lost job		7	8	4	2	13	. 9	3	7	27	<del>                                     </del>	53
	Column Percent	3.6	10.5	3.9	5.0	6.8	8.5	1.8	13.5	4.1		5.7
Lost job; license rec	qui red	1	2					3		4	3	7
	Column Percent	0.5	2.6					1.8	1.9	0.6		0.8
Lost second job		2				1				3		3
	Column Percent	1.0		••		0.5				0.5		0.3
Quit; lack of transpo	uit; lack of transportation		1				2		1		4	4
	Column Percent		1.3				1.9		1.9		<u> </u>	
Changed jobs; loss of	time due to court		1								1	. 1
	Column Percent		1.3									ļ
Changed jobs; lack of	transportation				2						2	2

#### Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Counts of Changes in Employment and Income by State, Offender Type, and Total

					STA	TE						
		Pennsy	lvania	Mary	land	Califo	ornia	Dela	ware	To	tal	
		OFFEND	ER TYPE	OFFEND	OFFENDER TYPE OFFENDE		ER TYPE	OFFENDER TYPE		OFFEND	ER TYPE	
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
Q10)CHANGES IN EMPLOYMENT AND INCOME												
Changed jobs; lack of transportation	Column Percent				5.0						0.7	0.2
Leave of absence				• •		2				2		2
	Column Percent					1.0				0.3		0.2
Lost opportunities; lack	of transportation	5	5	1	1	8	5	9	2	23	13	36
	Column Percent	2.6	6.6	1.0	2.5	4.2	4.7	5.4	3.8	3.5		3.9
Lost time/hours		6	1	1	1		1	5	••	12		15
	Column Percent	3.1	1.3	1.0	2.5		0.9	3.0		1.8	1.1	1.6
Lost time due to court/	treatment program			4		1	3	1		6	3	9
	Column Percent	••		3.9		0.5	2.8	0.6		0.9	1.1	1.0
Lost time due to class		1	1	1		4	3	4		10		14
	Column Percent	0.5	1.3	1.0		2.1	2.8	2.4		1.5	1.5	1.5
Lost time due to jail			1	1		••	2	1	3	2	6	8
	Column Percent		1.3	1.0			1.9	0.6	5.8	0.3	2.2	0.9
Lost time due to lack o	f transportation	5	2	2	1	2	3	8	2	17	8	25
	Column Percent	2.6	2.6	1.9	2.5	1.0	2.8	4.8	3.8	2.6	2.9	2.7
Worked more from home						1	1			1	1	2
	Column Percent					0.5	0.9			0.2	0.4	0.2
Lost income		10	6	2	2	9	11	3	4	24	23	47
	Column Percent	5.1	7.9	1.9	5.0	4.7	10.4	1.8	7.7	3.7	8.4	5.0
Hours cut/shift change/	lack of overtime	3	2	1		5	2	6	1	15	5	20
	Column Percent	1.5	2.6	1.0		2.6	1.9	3.6	1.9	2.3	1.8	2.1
Suspension from job		2		1			1	1		4	1	5
•	Column Percent	1.0		1.0			0.9	0.6		0.6	0.4	0.5
Demotion and/or job cha	nge within company	8	3	1	1	1	1	3	3	13	8	21
	Column Percent	4.1	3.9	1.0	2.5	0.5	0.9	1.8	5.8	2.0	2.9	2.3
Loss of promotion	<u> </u>		1	1		2	2	2		5	- 3	8
•	Column Percent		1.3	1.0		1.0	1.9	1.2		0.8	1.1	0.9
Loss of out-of-town wor	k; lost opportunity	7	1	1	1	14	4	4		26	6	32
	Column Percent	3.6	1.3	1.0	2.5	7.3	3.8	2.4		4.0	2.2	3.4
Pay cut		3	2					3		6	2	8

#### Effects of Administrative License Revocation on Employment DUI Offender Questionnaire Frequency Counts of Changes in Employment and Income by State, Offender Type, and Total

					STA	\TE						
		Pennsy	lvania	Mary	land	Calif	ornia	Dela	ware	To	tal	
		OFFEND	ER TYPE	OFFEND	OFFENDER TYPE OFFENDE		ER TYPE OFFENDI		ER TYPE OFFE		ER TYPE	,
		First	Multiple	First	Multiple	First	Multiple	First	Multiple	First	Multiple	Total
Q10)CHANGES IN EMPLOYMENT AND INCOME					·							
Pay cut	Column Percent	1.5	2.6					1.8		0.9	0.7	0.9
Pay freeze		1					••	1		2		2
	Column Percent	0.5		••		••		0.6		0.3		0.2
Loss of company car; inc	r in empl. ins cost						2	1		1	2	3
	Column Percent						1.9	0.6		0.2	0.7	0.3
ould not accept a better job/no license					••	1		1		2		2
	Column Percent					0.5		0.6		0.3		0.2
Expenses incurred						5	3	1	1	6	4	10
	Column Percent					2.6	2.8	0.6	1.9	0.9	1.5	1.1
Expenses incurred (hire	a driver)	5	1			3		2		10	1	11
	Column Percent	2.6	1.3			1.6		1.2		1.5	0.4	1.2
Expenses incurred (fine	s/lawyer/fees)	8	1	5	1	7	3	•2	2	22	7	29
	Column Percent	4.1	1.3	4.9	2.5	3.6	2.8	1.2	. 3.8	3.3	2.6	3.1
Expenses incurred (cost	of transportation)	3	1	1		3	2			7	3	10
	Column Percent	1.5	1.3	1.0		1.6	1.9			1.1	1.1	1.1
Emotional trauma/job pe	rformance/embarrass					2	4	2		4		9
	Column Percent		1.3			1.0	3.8	1.2		0.6	1.8	1.0
Longer hours due to com	onger hours due to commuting					4	1			4	1	5
	Column Percent					2.1	0.9	- :		0.6	0.4	0.5
Total	tal		76	103	40	192	106	166	52	657	274	931



# Effects of Administrative License Revocation on Employment Victim Questionnaire Frequency Tables by State, Treatment at Hospital, and Total Q2) WHICH OF THE FOLLOWING BEST DESCRIBES THE WAY YOU WERE INVOLVED IN THE ACCIDENT?

		C+-	te of Acciden	•	Treatment o	of Injuries	
			· · · · · · · · · · · · · · · · · · ·		Not treated	7-4-1	
		Pennsylvania	California	Delaware	at hospital	hospital	Total
RESPONSE CATEGORY							
2) I was a passenge a driver who was ch	er in the vehicle of narged with DUI.	2	4	2	3	5	8
	Column Percent	3.8	11.8	3.4	4.6	6.3	5.5
3) I was the driver involved in the acc not charged with DU	of another vehicle ident, and I was Ji.	43	21	46	57	53	110
	Column Percent	81.1	61.8	79.3	87.7	66.3	75.9
4) I was a passenge involved in the acc was not charged with	er in a vehicle cident, whose driver th DUI.	6	9	9	2	22	24
	Column Percent	11.3	26.5	15.5	3.1	27.5	16.6
5) I was a pedestr	ian.	2		1	3		3
	Column Percent	3.8		1.7	4.6		2.1
Total	otal		34	58	65	80	145

## Effects of Administrative License Revocation on Employment Victim Questionnaire Frequency Tables by State, Treatment at Hospital, and Total Q3) WHICH OF THE FOLLOWING BEST DESCRIBES THE INJURIES YOU RECEIVED IN THE ACCIDENT?

						Trea	tment of Inju	ries		
		Sta	ate of Accider	nt	2) I was injured, but I was not I was not treated for injured in my injuries of		at the hospital, hospital, but I did and I stayed in the		5) I was treated for my injuries at the hospital, and I stayed in the hospital for more than 1	
		Pennsyl van i a	California	Delaware	the accident.	at the hospital.	the hospital.	week.	week.	Total
Treatment of Injur	ies									
1) I was not injur	ed in the accident.	24	2	14	40					40
	Column Percent	44.4	5.9	24.1	27.4					27.4
<ol> <li>I was injured, treated for my injured, hospital.</li> </ol>	but I was not uries at the	6	8	12		26				26
	Column Percent	11.1	23.5	20.7		17.8				17.8
<ol> <li>I was treated for the hospital, but overnight in the hospital.</li> </ol>	or my injuries at I did not stay ospital.	18	17	22	!	••	57			57
	Column Percent	33.3	50.0	37.9			39.0			39.0
4) I was treated for the hospital for less	or my injuries at I stayed in the than I week.	4	2	8		••		14		. 14
	Column Percent	7.4	5.9	13.8				9.6	•-	9.6
5) I was treated for the hospital for more	or my injuries at I stayed in the than I week.	2	5	2	•				9	9
	Column Percent	3.7	14.7		·	- 4 - 2		~- v 1 v -	6.2	6.2
Total		54	34	58	40	26	57	14	9	146

## Effects of Administrative License Revocation on Employment Victim Questionnaire Frequency Tables by State, Treatment at Hospital, and Total Q4) WHICH OF THE FOLLOWING BEST DESCRIBES THE DAMAGE TO THE VEHICLE YOU REGULARLY DRIVE BECAUSE OF THE ACCIDENT?

				_	Treatment o	of Injuries	
			te of Acciden		Not treated	Treated at	
		Pennsylvania	nsylvania California Delaware at		at hospital	hospital	Total
RESPONSE CATEGORY							
1) I do not drive regular basis.	I do not drive a vehicle on a gular basis.		4	1		6	6
	Column Percent	1.9	11.8	1.8		7.6	4.2
2) I had no loss o I regularly drive accident.	f use of the vehicle because of the	13	1	10	13	11	24
	Column Percent	24.5	2.9	17.5	20.0	13.9	16.7
3) The vehicle I r damaged in the acc still able to driv	egularly drive was ident, but I was e the vehicle.	14	6	11	25	6	31
	Column Percent	26.4	17.6	19.3	38.5	7.6	21.5
4) My vehicle was accident such that it away from the a it has been repair	damaged in the I could not drive ccident scene, but ed.	5	5	13	11	12	23
	Column Percent	9.4	14.7	22.8	16.9	15.2	16.0
5) My vehicle was accident such that it away from the a it has NOT been re	damaged in the I could not drive ccident scene, and paired.	20	18	22	16	44	60
	Column Percent	37.7	52.9	38.6	24.6	55.7	41.7
Total		53	34	57	65	79	144

# Effects of Administrative License Revocation on Employment Victim Questionnaire Frequency Tables by State, Treatment at Hospital, and Total Q7C) WHICH OF THE FOLLOWING BEST DESCRIBES THE TYPE OF WORK YOU DO AT YOUR CURRENT JOB?

		C+	ate of Accider	nt	Treatment	of Injuries	
		Pennsylvania		Delaware	Not treated at hospital	Treated at hospital	Total
RESPONSE							
1) Professional		19	6	13	20	18	38
	Column Percent	36.5	20.0	22.4	30.8	24.0	27.1
2) Technical	<u> </u>	4	1	5	6	4	10
	Column Percent	7.7	3.3	8.6	9.2	5.3	7.1
3) Managerial		8	3	4	10	5	15
	Column Percent	15.4	10.0	6.9	15.4	6.7	10.7
4) Sales: High-Level		3	3	5	1	10	11
	Column Percent	5.8	10.0	8.6	1.5	13.3	7.9
5) Sales: Clerical		1		3	1	3	4
Column Percent		1.9		5.2	1.5	4.0	2.9
6) Non-Sales: Clerical		1	1	4	2	4	6
Col	Column Percent	1.9	3.3	6.9	3.1	5.3	4.3
7) Service (e.g.,	food service)	4	7	5	5	11	16
	Column Percent	7.7	23.3	8.6	7.7	14.7	11.4
8) Craft/skilled w	orker	3	3	4	3	7	- 10
	Column Percent	5.8	10.0	6.9	4.6	9.3	7.1
9) Machine operato	r		1		1		1
the same of two contracts of the same	Column Percent		3.3		1.5		0.7
10) Professional d	lriver	2		1	3		3
	Column Percent	3.8		1.7	4.6		2.1
11) Laborer		2	1		1	2	3
	Column Percent	3.8	3.3		1.5	2.7	2.1
13) No Employment	1993/1994/1995	5	4	14	12	11	23
	Column Percent	9.6	13.3	24.1	18.5	14.7	16.4
Total	Total		30	58	65	75	140

### Effects of Administrative License Revocation on Employment Victim Questionnaire Frequency Tables by State, Treatment at Hospital, and Total Q7F) IF YOU ARE NOT STILL WORKING AT THIS JOB, WHY DID YOU LEAVE?

		Ca	State of Accident			of Injuries	•
					Not treated	Treated at	Total
		Pennsylvania	California	Delaware	at hospital	hospital	
RESPONSE							
1) Better opportunity		一 …	1			1	1
Column Pe	Column Percent		20.0			7.1	5.9
2) Layoff/termination			2	1	1	2	3
	Column Percent		40.0	14.3	33.3	14.3	17.6
3) Medical/disability	ity	2	2	2		6	6
	Column Percent	40.0	40.0	28.6		42.9	35.3
5) Resignation/unsaconditions	atisfactory job	2			1	1	2
	Column Percent	40.0			33.3	7.1	11.8
6) Return to school		1		4	1	4	5
	Column Percent	20.0		57.1	33.3	28.6	29.4
Total		5	5	7	3	14	17

# Effects of Administrative License Revocation on Employment Victim Questionnaire Frequency Tables by State, Treatment at Hospital, and Total Q8C) WHICH OF THE FOLLOWING BEST DESCRIBES THE TYPE OF WORK YOU DO AT YOUR NEXT MOST RECENT JOB?

				_	Treatment o	of Injuries	
		Sta	te of Acciden		Not treated	Treated at	
		Pennsylvania	California	Delaware	at hospital	hospital	Total
RESPONSE							
1) Professional	1) Professional			2	1	2	3
	Column Percent	12.5		12.5	11.1	11.8	11.5
3) Managerial	,1	2		2		4	4
[·	Column Percent	25.0		12.5		23.5	15.4
4) Sales: High-Level		1		4	1	4	5
Column Percent	12.5		25.0	11.1	23.5	19.2	
5) Sales: Clerical				1		1	1
	Column Percent			6.3		5.9	3.8
7) Service (e.g.,	food service)	2	2	3	4	3	7
	Column Percent	25.0	100.0	18.8	44.4	17.6	26.9
8) Craft/skilled	worker			1		1	1
	Column Percent			6.3		5.9	3.8
10) Professional	driver	2		2	3	1	4
	Column Percent	25.0		12.5	33.3	5.9	15.4
11) Laborer				1		1	1
	Column Percent			6.3		5.9	3.8
Total		8	2	16	. 9	17	26

## Effects of Administrative License Revocation on Employment Victim Questionnaire Frequency Tables by State, Treatment at Hospital, and Total QBF) IF YOU ARE NOT STILL WORKING AT THIS JOB, WHY DID YOU LEAVE?

		State of	Annidana	Treatment o	of Injuries	
				Not treated	Treated at	
		Pennsylvania	Delaware	at hospital	hospital	Total
RESPONSE						
1) Better opportunity		] 1	4	. 3	2	5
	Column Percent	16.7	28.6	37.5	16.7	25.0
2) Layoff/termination		1	3		4	4
	Column Percent	16.7	21.4		33.3	20.0
3) Medical/disability		1	2	1	2	3
	Column Percent	16.7	14.3	12.5	16.7	15.0
4) Relocation			2	2		2
	Column Percent		14.3	25.0		10.0
5) Resignation/unsconditions	atisfactory job	2	1	1	2	3
	Column Percent	33.3	7.1	12.5	16.7	15.0
6) Return to school		1	2	1	2	3
	Column Percent	16.7	14.3	12.5	16.7	15.0
Total		6	14	8	12	20

## Effects of Administrative License Revocation on Employment Victim Questionnaire Frequency Tables by State, Treatment at Hospital, and Total Q9) WERE YOU EMPLOYED AT THE TIME OF YOUR ALCOHOL-RELATED ACCIDENT?

		C+-	State of Accident			of injuries	
		Pennsylvania			Not treated at hospital	Treated at hospital	<b>7</b> - 4 - 4
RESPONSE		remisyevania	Cattrollia	Delaware	at nospitat	nospitat	Total
Yes		49	26	43	54	64	118
	Column Percent	90.7	76.5	74.1	81.8	80.0	80.8
No		5	8	15	12	16	28
	Column Percent	9.3	23.5	25.9	18.2	20.0	19.2
Total		54	34	58	66	80	146

# Effects of Administrative License Revocation on Employment Victim Questionnaire Frequency Tables by State, Treatment at Hospital, and Total Q11) IN WHICH OF THE FOLLOWING ETHNIC GROUPS WOULD YOU CLASSIFY YOURSELF?

		C+-	State of Accident			of Injuries	
		N		Not treated at hospital	Treated at hospital	Total	
RESPONSE					<u> </u>	· · · · · · · · · · · · · · · · · · ·	
White, not of Hispanic origin		46	27	47	53	67	120
	Column Percent	90.2	79.4	82.5	82.8	85.9	84.5
Other	Other		7	10	11	11	22
	Column Percent	9.8	20.6	17.5	17.2	14.1	15.5
Total		51	34	57	64	78	142

### Effects of Administrative License Revocation on Employment Victim Questionnaire Frequency Tables by State, Treatment at Hospital, and Total Q13) WHAT IS YOUR GENDER?

		S+-	State of Accident			of Injuries	
				Not treated at hospital	Treated at	T-4-1	
DECONICE	<del> </del>	Perinsylvania	Cattionna	Detaware	at nospitat	hospital	Total
RESPONSE							
Male		29	17	27	40	33	73
	Column Percent	53.7	50.0	46.6	60.6	41.3	50.0
Female		25	17	31	26	47	73
	Column Percent	46.3	50.0	53.4	39.4	58.8	50.0
Total		54	34	58	66	80	146

## Effects of Administrative License Revocation on Employment Victim Questionnaire Frequency Tables by State, Treatment at Hospital, and Total Q14) WHAT WAS YOUR HIGHEST LEVEL OF EDUCATION AT THE TIME OF YOUR ALCOHOL-RELATED ACCIDENT?

	<u> </u>	C+-		•	Treatment o	of Injuries	
		ļ	te of Acciden		Not treated	Treated at	
		Pennsylvania	California	Delaware	at hospital	hospital	Total
RESPONSE							
1) Junior high scl	nool (or less)	1	2			3	3
	Column Percent	1.9	6.1			3.8	2.1
2) Some high school	ol	5	4	5	6	8	14
	Column Percent	9.6	12.1	8.6	9.4	10.1	9.8
3) High school graduate		11	2	13	9	17	26
Column Percer	Column Percent	21.2	6.1	22.4	14.1	21.5	18.2
4) Trade school certificate		3	3	6	4	8	12
	Column Percent	5.8	9.1	10.3	6.3	10.1	8.4
5) Some college, I	but no degree	7	8	14	12	17	29
	Column Percent	13.5	24.2	24.1	18.8	21.5	20.3
6) Associates or	2-year college degree	3	6	5	10	4	14
	Column Percent	5.8	18.2	8.6	15.6	5.1	9.8
7) Bachelors or 4	-year college degree	14	5	11	13	17	30
	Column Percent	26.9	15.2	19.0	20.3	21.5	21.0
8) Masters or doctorate degree		8	3	4	10	* 5	15
	Column Percent	15.4	9.1	6.9	15.6	6.3	10.5
Total		52	33	58	64	79	143

### Effects of Administrative License Revocation on Employment Victim Questionnaire Frequency Tables by State, Treatment at Hospital, and Total Q15) WHAT WAS YOUR MARITAL STATUS AT THE TIME OF YOUR ALCOHOL-RELATED ACCIDENT?

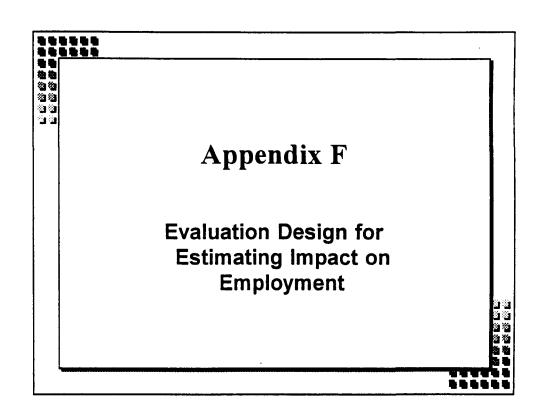
			State of Accident			Treatment of Injuries	
				Not treated	Treated at		
		Pennsylvania	California	California Delaware		hospital	Total
RESPONSE							
Single		20	12	25	20	37	57
	Column Percent	37.7	35.3	43.1	30.8	46.3	39.3
Married		29	20	27	39	37	76
	Column Percent	54.7	58.8	46.6	60.0	46.3	52.4
Previously Married		4	2	6	6	6	12
	Column Percent	7.5	5.9	10.3	9.2	7.5	8.3
Total		53	34	58	65	80	145

#### Effects of Administrative License Revocation on Employment Victim Questionnaire Tabulation by State, Treatment at Hospital, and Total Average Value and Frequency Count for Continuous Variables

			ate of Accider		Treatment o	of Injuries	
		Pennsylvania		Delaware	Not treated at hospital	Treated at hospital	Total
Months from DUI	Average Value	17.91	15.21	15.34	15.64	16.78	16.26
accident to interview	Frequency Count	54	34	58	66	80	146
Q6)Number of	Average Value	26.50	23.65	23.55	24.61	24.71	24.66
months answrd in calendar	Frequency Count	54	34	58	. 66	80	146
Q6)Number of	Average Value	21.56	17.03	15.24	19.53	16.73	17.99
months with employment	Frequency Count	54	34	58	66	80	146
Q6)Number of	Average Value	2.54	1.94	4.47	2.15	4.00	3.16
months attending school	Frequency Count	54	34	58	66	80	146
Q6)Months	Average Value	0.50	0.68	0.16	0.30	0.49	·0.40
unemply/searching for work	Frequency Count	54	34	58	66	80	146
Q6)Months unemply/not searching for work	Average Value	1.41	1.00	1.53	1.62	1.15	1.36
	Frequency Count	54	34	58	66	80	146
Q6)Number of	Average Value	1.26	2.50	2.21	0.77	2.88	1.92
months disability	Frequency Count	54	34	58	66	80	146
Q6)Number of months retirement	Average Value	0.52	1.41	2.10	1.89	0.91	1.36
months retirement	Frequency Count	54	34	58	66	80	146
Tenure in months	Average Value	83.67	66.28	64.13	81.54	65.01	72.33
at current job	Frequency Count	48	29	45	54	68	122
Q7d)Weekly hours	Average Value	39.07	36.19	38.60	42.12	35.09	38.24
worked/current job	Frequency Count	45	26	45	52	64	116
Q7e)Weekly gross	Average Value	737.43	676.00	608.84	836.30	539.46	669.50
earnings/current job	Frequency Count	37	24	44	46	59	105
Tenure in months (next most recent	Average Value	15.63	37.00	52.00	45.67	36.47	39.65
job)	Frequency Count	8	2	16	9	17	26
98d)Weekly hours	Average Value	32.13	14.50	34.06	32.78	31.53	31.96
worked/next job	Frequency Count	8	2	16	9	17	26
Q8e)Weekly gross	Average Value	285.50	125.00	322.88	317.22	285.00	296.15
earnings/hext job	Frequency Count	8	2	16	9	17	26

#### Effects of Administrative License Revocation on Employment Victim Questionnaire Tabulation by State, Treatment at Hospital, and Total Average Value and Frequency Count for Continuous Variables

		Sta	ite of Acciden	+	Treatment o	of Injuries	Total
		Pennsylvania		Delaware	Not treated at hospital	Treated at hospital	
	Average Value	576.36	1367.86	488.50	295.41	1088.26	681.93
uncompensated lost work time	Frequency Count	36	14	30	41	39	80
Q10b)Diff. btw reg pay and disab pay	Average Value	236.58	37.50	92.48	0.85	285.17	150.49
	Frequency Count	26	8	23	27	30	57
Q10c)Amount/wk in	Average Value	61.24	168.33	107.23	60.00	130.00	98.89
reduced income	Frequency Count	29	12	31	32	40	72
Age at interview	Average Value	37.06	37.15	38.05	39.98	35.46	37.47
	Frequency Count	53	34	57	64	80	144
related accident	Average Value	35.68	35.82	36.81	38.77	34.08	36.16
	Frequency Count	53	34	57	64	80	144



# Appendix F Evaluation Design for Estimating Impact on Employment

The classic pretest, posttest, control group quasi-experimental design was employed for estimating the impact on employment of the ALR sanction. This design is initially set up with two equivalent groups which are as alike as possible before the intervention (ALR sanction). Such equivalence is best obtained by random assignment to experimental and control groups. However, random assignment is not a practical approach for the evaluation of the ALR sanction process. These broad-based programs do not target specific individuals and, hence, waivers to the law in order to run an experiment would be required.

Where random assignment is not administratively feasible, selective matching must be used. The process may involve matched comparison sites or matched comparison groups of specific individuals. A "before" measure is made to determine the baseline from which change is to be evaluated, and for providing a check on the equivalence of the two groups. One of the groups (the treatment group) is exposed to the intervention being evaluated while the other (the control group) is not. At the conclusion of the intervention (or at appropriate time intervals), an "after" measure is made which may be compared with the "before" measure for both treatment and control groups to indicate the changes produced by the intervention.

In place of the random assignment feature, another jurisdiction (Pennsylvania, a non-ALR state) was selected to be used as a comparison against which the effects of the ALR sanction process were measured. An illustration of how the intervention effect is measured with this design is given as:

	Before	After	
Treatment Area	T <sub>1</sub>	T <sub>2</sub>	$d_{\overline{1}} = T_2 - T_1$
Matched Comparison Area	C <sub>1</sub>	C <sub>2</sub>	$d_C = C_2 - C_1$

The test of ALR sanction effect is based on the difference between  $d_T$  and  $d_C$ . Under ideal conditions, there is no element of fallibility in this design. Whatever differences are observed between the treatment and matched comparison groups must be attributable to the intervention being evaluated.

One extension of this design (pretest, posttest, experimental and control group) would help to determine the extent to which the effectiveness of an intervention was related to specific components of that intervention rather than to the existence of the intervention per se. This would involve the addition of alternative interventions varying combinations of specific components for comparative evaluation. Using the variation of the pretest, posttest, control group design as described above, this design is illustrated as follows:

Intervention Level 1:  $0_1 \times 10_2$ Intervention Level 2:  $0_3 \times 20_4$ Intervention Level 3:  $0_5 \times 30_6$ Control:  $0_7 \times 0_8$ 

where 0 represents periods of observation and X represents periods of intervention.

This design is especially effective for evaluating ALR sanction levels when intervention variations  $X_1$ ,  $X_2$ , and  $X_3$  consist of successively higher levels of ALR sanction. This is the design that was implemented in this evaluation. Each state represented a different level of ALR sanction. Maryland, California, and Delaware represented progressively higher levels of ALR sanction and Pennsylvania, with no ALR sanction, provided DUI offenders who were used as the control group.

Even with an attempt to develop matched project sites and matched samples of DUI offenders, it cannot be certain that all groups are equivalent with respect to all important factors. Therefore, multivariate models were specified to provide estimates of ALR sanction impact over time.

The following discusses the estimation procedures that were used in the analysis of the effect of ALR sanctions on the employment patterns of DUI offenders and victims. However, before discussing the methodology, a brief overview of the situation is presented. Observations were made of DUI offender employment patterns from four states in three time periods: (1) before the key DUI arrest event (pre-period); (2) immediately after the key DUI event (ALR sanction period or intervention period); and (3) after the ALR sanction period was complete (post-period). Three states provided observations of DUI offenders exposed to progressively higher levels of ALR sanction. One state (Pennsylvania) provided observations of DUI offenders who were not exposed to ALR sanctions and who did not have their license suspended immediately after the DUI arrest event. The hypothesis is that exposure to the ALR sanction has no significant effect on the employment patterns for DUI offenders (hours worked or earnings). A simplified representation of this situation, displaying only one treatment group and the control group, is depicted in Figure F-1.

From some DUI offenders, there may not have been an observation in the third time period. That is, at the time of the interview, some DUI offenders were still under license suspension/revocation when they attended the DUI school (i.e., time of interview). Since the multivariate analysis estimates ALR sanction impact by month, this was not a problem.

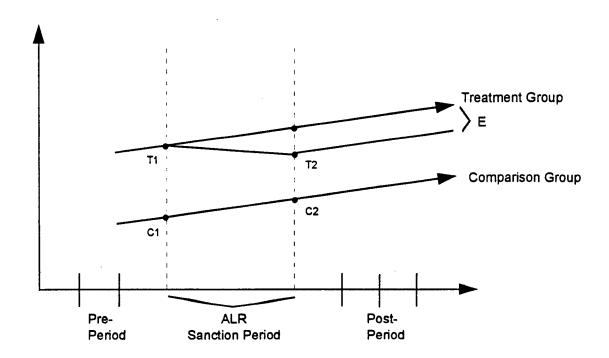


Figure F-1. Representation of ALR Sanction Effects

The figure depicts an increase in earnings without exposure to the ALR sanction process (indicated by the upward sloping lines), a difference in the "normal" earnings between the treatment group and comparison group (indicated by the separate line segments for each group in the pre-period), and a decrease in earnings due to exposure to the ALR sanction process (represented by E). Moreover, the figure depicts a situation in which earnings are permanently changed by exposure to the intervention and neither decay nor build up after exposure.

The estimate of effect in this simple example is  $E = (T_2 - T_1) - (C_2 - C_1)$ . If the earnings for the treatment and comparison groups are similar (something expected from matched samples), then  $T_1 = C_1$  and, hence,  $E = T_2 - C_2$ . The methodology controls for the difference between treatment and comparison groups (both differences in demographics and behavior in the pre-period) and estimates an unbiased effect of intervention activity on earnings. The null hypothesis for DUI offenders is that E = 0 against the alternative that E < 0.

To discuss the logic of the empirical approach that was used to estimate the effect of the ALR sanctions, an equation can be written for offenders using analysis of variance notation and terminology. Letting the index i denote an individual driver in the sample and the index j denote the period of observation, the equation is:

$$Y_{ij} = \mu + \alpha_i + \beta_i + \gamma_{ij} + \epsilon_{ij}$$
 (i = 1, ..., l; j = 1, ..., J), where:

 $Y_{ii}$  = earnings of the ith individual in period j (where j is a month)

 $\mu$  = the grand mean

- $\alpha_i$  = the effect due to the ith category or level of the time-invariant factor (e.g., the effect of the driver's sex)
- $\beta_j$  = the effect due to the <u>jth</u> category or level of the time-varying factor (e.g., driver age in period j)
- $\gamma_{ij}$  = the ALR sanction effect for driver i in period j (assumed to be zero in all periods for comparison group drivers)

 $\epsilon_{ij}$  = the (assumed) stochastic effect of omitted variables and measurement error

In parameterizing this model, the impact effects  $(\gamma_{ij})$  are represented by a series of binary variables that distinguish drivers in the treatment group in each post-period, that is, a set of binary variables that represents the interaction of treatment/comparison status with each period. The treatment event for DUI offenders was the DUI arrest event.

Multivariate statistical techniques were used to examine the relationships between two dependent variables (earnings and hours worked) and a set of explanatory variables (e.g., age, gender, alcohol abuse, and level of ALR sanction). The model estimated the effect or relationship of level of ALR sanction on several dependent variables, while controlling for other explanatory variables.

Multivariate statistical techniques offer a way to control for differences between treatment and comparison groups that could bias the estimate of impact. Multivariate estimation methods have a number of advantages over univariate methods. Systematic differences between samples can be controlled for by explicitly including the variables in the model. Also, by controlling for other factors, multivariate models explain more of the variation in the outcome variable and detect significant differences that cannot be detected in a univariate model. Multivariate estimation methods require specification of a functional form of the model. For the ALR sample of DUI offenders, a simple impact model can be written as:

$$Y_{nt} = a + \sum_{j=1}^{J} b_j X_{ntj} + \sum_{k=1}^{K} c_k Z_{nk} + \sum_{l=1}^{L} d_l I_{ntl}$$
  $t = 1, 2; \text{ and } n = 1, 2, ..., N$ 

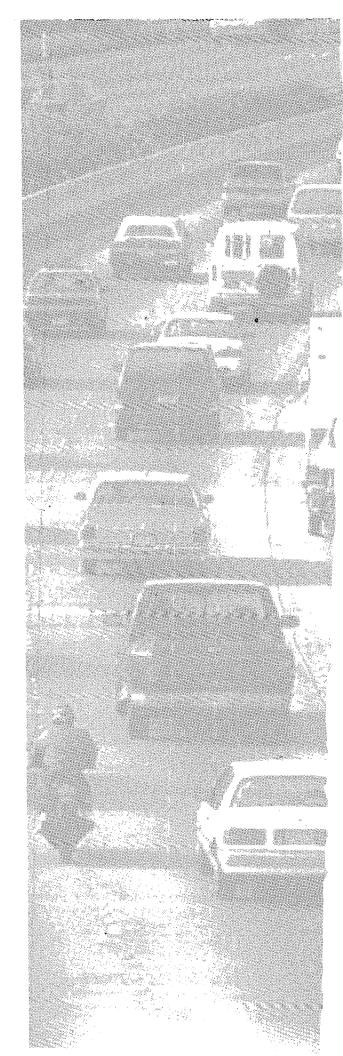
where t is a subscript for time (1 is pre-ALR sanction and 2 is post-ALR sanction), n is a subscript for DUI offenders,  $Y_{nt}$  is the outcome variable being modeled (earnings and hours worked),  $X_{ntj}$  are time-varying DUI-offender characteristics,  $Z_{nk}$  are time-invariant DUI-offender characteristics, and  $I_{ntj}$  are the impact variables (equal to 1 for DUI offenders under

ALR sanction in the post-DUI arrest period and 0 otherwise). Impact variables were defined as follows:

- $I_{nt1}$  = 1 if the DUI ALR sanction is in Maryland <u>and</u> t represents the post-ALR sanction period; 0 otherwise.
- $I_{m2}$  = 1 if the DUI ALR sanction is in California <u>and</u> t represents the post-ALR sanction period; 0 otherwise.
- $I_{m3}$  = 1 if the DUI ALR sanction is in Delaware <u>and</u> t represents the post-ALR sanction period, 0 otherwise.

Thus, if  $I_{nt1} = I_{nt2} = I_{nt3} = 0$ , the respondent was from Pennsylvania <u>or</u> t represented the pre-ALR sanction period. The model parameters, a, b<sub>j</sub>, c<sub>k</sub>, and d<sub>i</sub>, were estimated using Ordinary Least Squares (OLS) regression.

DOT HS 808 462 May 1996





**People Saving People** 

http://www.nhtsa.dot.gov