

FINAL REPORT

Contract FH-11-6555

Volume II of II

ALCOHOL SAFETY

RFP-173

Submitted 1 February 1969 by the  
Highway Safety Research Institute  
The University of Michigan, Ann Arbor

to the

Federal Highway Administration  
U. S. Department of Transportation  
National Highway Safety Bureau



## CONTENTS

### Volume I:

Notices . . . . .	iii
Preface . . . . .	v
Acknowledgments . . . . .	vii
Summary . . . . .	1
1. Wayne County Traffic Fatality Study (Project I) . . . . .	11
1.1. Introduction. . . . .	13
1.2. Data Sources. . . . .	14
1.2.1. The Office of the Medical Examiner of Wayne County . . . . .	14
1.2.2. The Police Accident Report . . . . .	14
1.2.3. Driving and Criminal Records . . . . .	15
1.2.4. Agency Records . . . . .	16
1.3. Data Analysis . . . . .	17
1.3.1. Morgue Reports and Police Accident Reports . . . . .	17
1.3.2. Driving and Criminal Records . . . . .	20
1.3.3. Agency Records . . . . .	20
1.4. Results . . . . .	22
1.4.1. General Information. . . . .	22
1.4.2. Pathological and Toxicological Findings. . . . .	32
1.4.3. Time of Accident Findings. . . . .	38
1.4.4. Responsibility in Accident Occurrence. . . . .	45
1.4.5. License Status and Driver Record Comparison. . . . .	52
1.4.6. Case Record Findings . . . . .	57
2. Michigan Alcoholic Screening Test Analysis (Project II) . . . . .	65
2.1. Introduction . . . . .	67
2.2. Validation of the MAST. . . . .	71
2.2.1. Agencies Already Searched. . . . .	71
2.2.2. Method of File Search. . . . .	74
2.3. Interview Technique . . . . .	74
2.4. Populations Interviewed . . . . .	76

2.4.1.	Group I: Hospitalized Alcoholics . . . . .	76
2.4.2.	Group II: University Controls . . . . .	84
2.4.3.	Group III: "Fake Take" Hospitalized Alcoholics .	87
2.4.4.	Group IV: Driver's Services Division. . . . .	91
2.4.5.	Group V: Detroit House of Correction. . . . .	93
2.4.6.	Group VI: Ann Arbor Municipal Court . . . . .	95
2.5.	Development of a Classification Model Using MAST Data .	96
2.5.1.	Multiple Discriminant Analysis of MAST Responses .	97
2.5.2.	Multiple Regression Analysis of MAST Responses . .	99
2.6.	Exhibit: MAST Test Questions Used for Analysis . . . .	113
2.7.	References. . . . .	115
3.	Psychological Test Development for Alcoholic Drivers (Project III) . . . . .	117
3.1.	Introduction. . . . .	119
3.2.	Literature Search . . . . .	120
3.3.	Literature Review . . . . .	121
3.3.1.	Alcoholism Tests . . . . .	121
3.3.2.	Personality Tests. . . . .	124
3.3.3.	Clinical Tests . . . . .	157
3.3.4.	Statistical Surveys of Backgrounds, Etc. . . . .	188
3.3.5.	Intelligence. . . . .	205
3.3.6.	Perception and Motor Skills. . . . .	210
3.3.7.	Test Comparison: Men vs. Women. . . . .	211
3.3.8.	Neurological and Biochemical Comparison. . . . .	213
3.4.	Selection of Text Items . . . . .	215
3.5.	Development of a Prototype Test . . . . .	216
3.6.	Test Administration . . . . .	217
3.7.	References. . . . .	218
4.	A Chronological Study of Chronic Alcoholics (Project IV) and A Pilot Study of Arrested Drinking Drivers (Project IV) . .	225
4.1.	Introduction. . . . .	227
4.2.	Project IV: A Chronological Study of Chronic Alcoholics . . . . .	229
4.3.	Project V: A Pilot Study of Arrested Drinking Drivers.	244
4.4.	References. . . . .	247

Volume II:

Appendix A:	Pathological and Toxicological Methodology . . .	1
Appendix B:	Sample Reports From the Office of the Wayne Souny Medical Examiner. . . . .	9
Appendix C:	Sample Accident Forms. . . . .	13
Appendix D:	Description of Driving and Criminal Records. . .	19
Appendix E:	Description of Social and Court Agencies and the Procedure Used for Case Record Collection. .	25
Appendix F:	Bivariate Frequency Tables for Fatality Data . .	31
Appendix G:	Background and Driving Record Questionnaire. . .	59
Appendix H:	Sample Questionnaire From a Seminar on Alcohol- Related Traffic Offenses . . . . .	87



## TABLES

1-1	Distribution of Driver and Pedestrian Fatalities with Respect to Alcohol Concentration Ranges and Accident Form Alcoholic Influence Category . . . . .	29
1-2	Distribution of Fatalities with Respect to Alcohol Concentration and Number of Liver Abnormalities. . . . .	32
1-3	Distribution of Fatalities with Respect to Alcohol Concentration and Number of Liver Abnormalities Using Chi Square Test. . . . .	33
1-4	Comparison of Numbers of Persons with Fatty Livers in Wayne County and San Francisco. . . . .	34
1-5	Comparison of Method of Liver Examination and Liver Diagnosis in California Counties and Wayne County. . . . .	35
1-6	Findings about Cirrhotic Persons . . . . .	36
1-7	Time Elapsed Between Crash and Death . . . . .	37
1-8	Toxicological Findings Other Than Alcohol Concentration. . . . .	40
1-9	Distribution of Drivers, Pedestrians, and Passengers in Responsibility Categories . . . . .	45
1-10	Distribution of Drivers by Alcohol Concentration and Responsibility for Crash . . . . .	48
1-11	Distribution of Pedestrians by Alcohol Concentration and Responsibility for Crash . . . . .	49
1-12	Alcohol Concentration for Single Car and Multiple Car Fatalities . . . . .	50
1-13	Marital Status and Responsibility for Crash Occurrence . . . . .	51
1-14	Percentage of Responsible Drivers and Pedestrians in Each Marital Group. . . . .	51
1-15	License Status . . . . .	52
1-16	Results of Matching National Driver Register File with Fatality Records. . . . .	54
1-17	Distribution of Blood Alcohol Level and Number of Moving Violations Since 1-1-61, Drivers Only . . . . .	55

1-18	Comparison of Populations by Moving Violations Since 1-1-61 . . . . .	56
1-19	Convictions and Alcohol Concentrations for Persons with Drinking Problems . . . . .	62
1-20	Distribution of Persons with Drinking Convictions, Their Alcohol Concentrations and Drinking Problems . . .	23
2-1	Age Range and Median Age of Groups Given the MAST. . . .	78
2-2	Social Class of Groups Given the MAST. . . . .	79
2-3	Marital Status of Groups Given the MAST. . . . .	81
2-4	MAST Pro-Alcoholic Responses . . . . .	82
2-5	Drunk Driving and Drinking Convictions of Groups Given the MAST . . . . .	83
2-6	Records Searched and Located at Three Social Agencies Agencies and a Probation Department. . . . .	85
2-7	Multiple Offenders Ratio of Groups Given the MAST. . . .	90
2-8	Discriminant Analysis Classification of MAST Data for Four Original Groups . . . . .	98
2-9	Discriminant Analysis Classification of MAST Data for Three Original Groups. . . . .	100
2-10	Coefficients for Multiple Regression Models Developed from MAST Responses. . . . .	101
2-11	26-Question Model: Distribution of Alcoholic Prediction Score . . . . .	103
2-12	26-Question Model: Classification Results . . . . .	105
2-13	18-Question Model: Distribution of Alcoholic Prediction Score . . . . .	106
2-14	18-Question Model: Classification Results . . . . .	107
2-15	Comparison of Results: Multiple Regression Procedure vs. Social Agency Record Search. . . . .	109



4-1	Demographic Variables . . . . .	233
4-2	Residence . . . . .	234
4-3	Employment. . . . .	236
4-4	Marital History . . . . .	237
4-5	Hospitalization Characteristics . . . . .	239
4-6	Conviction Characteristics. . . . .	241
4-7	License Suspension Listed with the National Driver Register . . . . .	243



Appendix A

PATHOLOGICAL AND TOXICOLOGICAL METHODOLOGY

by

John F. Burton, M.D. and Herbert R. Wetherell, Ph.D.

Contents

- A.1. Summary Report on Subcontract 1, Office of Medical Examiner, Wayne County, Michigan
- A.2. Pathology
- A.3. Toxicology
- A.4. References
- A.5. Personnel

## A. 1 . SUMMARY REPORT

JULY 15, 1967 to JUNE 15, 1968

of the OFFICE OF THE MEDICAL EXAMINER OF WAYNE COUNTY  
on SUBCONTRACT NO. 1 (under PRIME CONTRACT FH-11-6555)

This report can be conveniently divided into two topics, pathology and toxicology. Certain general remarks, however, are applicable to both fields.

The case material consisted of all drivers, passengers, and pedestrians 16 years of age and older whose bodies were brought to the Wayne County Morgue as traffic fatalities. In practice, nearly all such bodies are brought to the morgue; the only exceptions are persons who survive for such an extended period of time in a local hospital that the attending physician is qualified to sign the death certificate. Not all of the bodies brought to the morgue would be suitable case material for this study, however, since analysis for alcohol and certain other drugs would be meaningless where the individual had survived long in the hospital. It was decided to include those cases where death had occurred within 24 hours of the accident. The accepted rate of disappearance of alcohol from the blood (0.01 - 0.015% w/v per hour) indicates that only in those cases where the alcohol concentration had been approximately 0.25% w/v or greater at the time of the accident would there be a positive result 24 hours later. As will be seen from the summary of the results, a significant number of the persons who died at the time of the accident had concentrations of alcohol of 0.25% w/v or greater. Obviously, the shorter the interval between the accident and death, the greater the opportunity of detecting a positive alcohol and of extrapolating back to a presumed concentration of alcohol in the blood at the moment of the accident. This latter calculation is beset with many difficulties, however, and is at best an approximation. It was felt, therefore, that the 24-hour time interval which was adopted had much to recommend it.

Specimens were withdrawn for both toxicological and pathological studies. When an autopsy was performed, blood, spinal fluid, urine, stomach contents, and liver were obtained (if all were available). The blood was a pooled specimen from the heart and great vessels. The spinal fluid was obtained either by lumbar puncture or from the ventricles in the brain at the discretion of the pathologist. When no autopsy was performed, stomach contents could not be obtained. The blood was obtained via cardiac puncture with needle and syringe, the spinal fluid by lumbar puncture, and the urine from the urinary bladder by means of needle and syringe.

Finally, it should be emphasized that these are specimens from dead bodies and of course cannot be compared to the similar fluids obtained from living patients in a hospital. Many times the spinal fluid and/or urine was bloody. The blood often had large clots present, the relative proportions of serum and red blood cells were greatly disturbed by hemorrhage and/or stagnation, etc.

## A.2. PATHOLOGY

The focus of the pathologic study was on the liver, and cirrhosis, in particular. When no autopsy was performed, a surgical biopsy was obtained. The specimens were obtained by an incisional entry three to four inches in length through the right 8th intercostal space in the anterior axillary line. The overlying diaphragm was then incised, the rib edges were separated by instrument, and the tissue block was removed from the surface of the liver. This block averaged  $4 \times 2.5 \times 0.4$  cm. The sections taken from the block included the liver capsular surface and a portion of the deep part of the block. In cases that were autopsied, the approach permitted sections from deeper areas within the right lobe of the liver.

The standard microscopic examination followed histologic preparation after fixation in 10% neutral formalin fixative. The usual embedding and cutting procedures were followed and the sections were stained in the routine manner with Hematoxylin-Eosin using Harris' Alum Hematoxylin and acid alcohol Eosin. Masson's trichrome procedure was followed (1) using Bouin's fixative for a mordant. The stains employed were Weigert's iron hematoxylin, Biebrich scarlet-acid fuchsin solution, and aniline blue solution.

The examinations were viewed microscopically first through the scanning lens, then the low-power lens with objective magnification of 10 diameters, and finally with the high-dry objective with magnification of 40 diameters.

The histologic sections of liver so obtained were evaluated for the presence or absence of cirrhosis and graded by the use of a score sheet. This method of appraisal was chosen to arrive at a uniform standard for final diagnosis, since the grading of the severity of disease may vary among pathologists of long experience. The basic textbook changes common to cirrhosis of the liver were applied to all cases, and each feature was checked as the slide was read. These included fibrosis, fat, necrosis, bile duct proliferation, bile stasis, and infiltration by various leucocytes, including lymphocytes, plasmacytes, monocytes, and neutrophils.

On the basis of the aforementioned features the question of cirrhosis: Yes or No, was then answered and checked on the score sheet. A separate column for gradation of cirrhosis through early, intermediate, and late stages was added to be used when needed. The concentration of alcohol in the blood in each case was not known to the pathologist at the time of the tissue evaluation, to avoid prejudice to his decision.

### A.3. TOXICOLOGY

#### ALCOHOL DETERMINATION

The determination of ethyl alcohol in the specimens (blood, spinal fluid, urine, and stomach contents) was carried out utilizing the microdiffusion technics of Conway (2). Specifically, the method of Williams and Zak was employed (3), which depends upon the reduction of dichromate ion in 50% sulfuric acid. The minimum detectable concentration of alcohol is 0.01% w/v and the method has a standard error of  $\pm 0.01\%$  w/v.

Specificity for ethanol was assured by demonstrating the absence of formaldehyde, methanol, acetone, and isopropyl alcohol using qualitative tests (4). These tests are capable of detecting as little as 2 mg/100 ml of methyl and/or isopropyl alcohols, and 0.2 mg/100 ml of formaldehyde and/or acetone. The absence of any of these four substances is implied in each case analyzed for ethyl alcohol unless otherwise reported. Acetone is the most frequently found of the four, and probably indicates the subject was diabetic.

#### BARBITURATE DETERMINATION

The barbiturate concentration in blood was determined by a differential ultraviolet spectrophotometric technique as reported by Williams and Zak (5). The minimum detectable concentration is 0.1 mg/100 ml and the standard error of the method is  $\pm 0.1$  mg/100 ml.

#### CARBON MONOXIDE DETERMINATION

Carbon monoxide was determined using the microdiffusion principle mentioned earlier. Palladium chloride was the reactant employed; the palladium ion being reduced to elemental palladium in proportion to the amount of carbon monoxide present in the blood sample (6). The minimum detectable quantity of carbon monoxide by this procedure is 5% saturation of the hemoglobin. The standard error of the method is  $\pm 2\%$  saturation. Since carbon monoxide is so rapidly eliminated once the individual has been removed from the offending atmosphere, this analysis is omitted in cases where the victim survived 4 hours or longer after the accident.

#### SALICYLATE DETERMINATION

A simple qualitative test for salicylate was employed. Urine or spinal fluid was treated with 2.5% ferric chloride reagent; a purple color indicated the presence of salicylate. A positive test in spinal fluid is usually obtained only if the corresponding concentration in the blood is greater than 15 mg/100 ml. This concentration is attained following moderately high salicylate dosages. The test on urine is more sensitive but does not accurately reflect a particular blood concentration. In any event, when a positive qualitative test was obtained on either urine or spinal fluid, a quantitative analysis of the

blood was carried out using a differential ultraviolet spectrophotometric method (7). The minimum detectable concentration is 1 mg/100 ml, and the standard error of the method is  $\pm 0.1$  mg/100 ml. Occasionally a spinal fluid specimen would be so contaminated with blood that the resultant red pigmentation interfered with the ferric chloride qualitative test. If also there was no urine specimen available from that case, then no salicylate result was recorded.

#### CYANIDE DETERMINATION

This test is part of the routine procedure of our laboratory not so much because of the frequency of cyanide intoxication, but because of its extreme lethality, and also because cyanide is found in significant concentrations in the blood of fire victims (including automobile fires) (8). The method employed is that reported by Gettler and Goldbaum (9), involving the Prussian Blue reaction. The sensitivity is such that concentration of 50 mcg/100 ml are readily detected. The standard error of the method is  $\pm 5$  mcg/100 ml. Like carbon monoxide, cyanide is rapidly removed from the blood; the test was therefore omitted in cases where the victim survived 4 hours or longer after the accident.

#### A.4. REFERENCES

1. Armed Forces Institute of Pathology, Manual of Histologic and Special Staining Technics, 2nd edition, McGraw-Hill, 1960.
2. E. J. CONWAY, Microdiffusion Analysis and Volumetric Error, 4th revised ed., MacMillan, 1958.
3. L. A. WILLIAMS and B. ZAK, Clin. Chim. Acta., Vol. 3, pp. 169-172, 1958.
4. MILTON FELDSTEIN in Toxicology: Mechanisms and Analytical Methods, Vol. I, edited by C. P. Stewart and A. Stolman, Academic Press, pp. 650-653, 1960.
5. L. A. WILLIAMS and B. ZAK, Clin. Chim. Acta., Vol. 4, pp. 170-174, 1959.
6. L. A. WILLIAMS et al., Amer. J. Clin. Path., Vol. 34, pp. 334-337, 1960.
7. L. A. WILLIAMS et al., J. Lab. Clin. Med., Vol. 53, pp. 156-162, 1959.
8. H. R. WETHERELL, J. Forensic Sci., Vol. 11, pp. 167-173, 1966.
9. A. O. GETTLER and L. GOLDBAUM, Anal. Chem., Vol. 19, pp. 270, 1947.



## A. 5. PERSONNEL

### PATHOLOGY

John F. Burton, M.D.

M.D., Meharry Medical College, 1941.

Pathology Resident, 1951-1955, Wayne County General Hospital and Veterans Administration Hospital, Dearborn, Michigan.

Staff Pathologist, Veterans Hospital, Dearborn, Michigan, 1955-1962.

Pathologist, Wayne County Medical Examiner's Office, 1962-1967.

Chief Medical Examiner, Wayne County, 1967- .

Certified by the American Board of Pathology in Anatomic, Clinical, and Forensic Pathology.

Joseph F. Juliar, M.D.

M.D., University of Michigan, 1941.

Private practice of medicine, 1946-1959.

Pathology Resident, New York University, Bellevue Medical Center, 1959-1963.

Pathologist, Wayne County Medical Examiner's Office, 1965- .

Associate Clinical Professor of General Pathology, University of Detroit Dental School, 1965- .

Certified by the American Board of Pathology in Anatomic and Clinical Pathology.

George Russanow, M.D.

M.D., University of Munich, Germany, 1950.

Pathology Resident, Johnson City, N.Y., 1953-1958.

Pathologist, Wayne County Medical Examiner's Office, 1958- .

Board Eligible in Clinical and Anatomic Pathology.

Alice Barnhart, M.T. (A.S.C.P.)

B.S., Wayne State University, 1952.

Hospital Clinical Laboratory, 1952-1955.

Tissue Technologist, Wayne County Medical Examiner's Office, 1955- .

### TOXICOLOGY

Herbert R. Wetherell, Ph.D.

Ph.D., Yale University, 1954.

Instructor, Assistant Professor, University of Nebraska, College of Medicine, Department of Pharmacology, 1953-1961.

Toxicologist, Wayne County Medical Examiner's Office, 1962- .

Yvonne Brusock, M.T. (A.S.C.P.)

B.S., Michigan State University, 1952.

Private Clinical Laboratory, 1952-1956.

Principal Technologist, Toxicology Laboratory, Wayne County Medical Examiner's Office, 1956- .

Rosemary Furlong, M.T. (A.S.C.P.)

Hospital Clinical Laboratory, 1952-1961.

Wayne County Medical Examiner's Office, 1961- .

Edna Carlen, M.T. (A.S.C.P. Eligible)

B.S., Alfred University, 1948.

Hospital Clinical Laboratory, 1948-1958.

Wayne County Medical Examiner's Office, 1958- .

Appendix B

SAMPLE REPORTS FROM THE OFFICE OF THE  
WAYNE COUNTY MEDICAL EXAMINER

Contents

- B.1. Summary Report: Autopsy Performed
- B.2. Summary Report: No Autopsy
- B.3. Pathology Score Sheet

B.1. Summary Report: Autopsy Performed

Morgue No. ... xxxx  
Laboratory No. xxxx

Autopsy No. .... xx  
Traffic Fatality Study No. xxx

NAME ADDRESS

41 yrs. Male Colored Divorced Truck driver

Accident: October 15, 1967, 3:05 P.M., Detroit, Michigan.  
Passenger. Northbound Chrysler ramp north of Warren.

Deceased, passenger in car traveling northbound on  
Chrysler Expressway at speeds of 70 mph. Driver  
lost control of car striking bridge abutment.

Death: October 15, 1967, 4:30 P.M., Detroit General Hospital.

Condition leading directly to death:

Fracture of skull.

Other significant conditions:

Bilateral multiple rib fractures.

Toxicology: Blood Alcohol ..... 0.22% (w/v)  
Spinal Fluid Alcohol ... 0.24% (w/v)  
Urine Alcohol ..... 0.22% (w/v)  
Stomach Alcohol ..... 0.66% (w/v)  
Blood Barbiturate ..... Negative.  
Blood Cyanide ..... Negative.  
Blood Carbon Monoxide .. Negative.

Pathology: Cirrhosis - No.

Body weight ..... 176 lbs  
Liver weight ..... 1510 g

B.2. Summary Report: No Autopsy

Morgue No. ....XXXX  
Laboratory No. ..XXXX

No Autopsy  
Traffic Fatality Study No. xx

NAME ADDRESS

25 yrs. Male White Married Laborer

Accident: October 3, 1967, 4:0; P.M., Plymouth Township, Michigan.  
Driver - Motorcycle. Southbound Edward Hines, north  
of Six Mile Rd.

Deceased was driving his motorcycle southbound on Edward  
Hines Drive at high rate of speed, tried to pass a car  
and lost control and hit a tree.

Death: October 3, 1967, 4:35 P.M., Wayne County General  
Hospital.

Condition leading directly to death:

Fracture of skull.

Antecedent causes:

Lacerations of ear and scalp.  
Generalized contusions.

Toxicology: Blood Alcohol ..... 0.19% (w/v)  
Blood Barbiturate ..... Negative.  
Blood Carbon Monoxide ... Negative.  
Blood Cyanide ..... Negative.

Pathology: Cirrhosis - No

B.3. Pathology Score Sheet

Score Sheet	Nov. 15, 1967	Dec. 14, 1967	File #	Gross	SOFT	YELLOW	FIRM	NOBULAR	Micro	Fibrosis	fat	Necrosis	bile duct Prolif.	bile stasis	Lymphocytes	Plasma cells	Monocytes	P.M.N.S.	Cirrhosis	YES	NO	1. Early "fatty"	2. Intermediate	3. Late "Atrophic"	Blood Ethanol
8605	✓	✓			✓																				0.24
8634	✓	✓			✓																				0.17
8640	✓	✓			✓		✓			✓	✓		✓		✓						✓				0.00
8641	✓	✓			✓																				0.24
8763	✓	✓			✓						✓	✓			✓										0.00
8785	✓	✓			✓						✓	✓			✓										0.18
8789	✓	✓			✓																				0.29
8791	✓	✓			✓														✓						0.18
8798	✓	✓			✓																				0.15
8819	✓	✓			✓																				0.28
8821	✓	✓			✓																				0.02
8845	✓	✓			✓																				0.25
8874	✓	✓			✓																				0.23
8876	✓	✓			✓																				0.08
8957	✓	✓			✓																				0.00
9083	✓	✓			✓						✓														0.22
9085	✓	✓			✓																				0.00
9089	✓	✓			✓					✓		✓			✓			✓							0.17
9114	✓	✓			✓																			*	0.00
9149	✓	✓			✓						✓	✓						✓							0.01
9171	✓	✓			✓																				0.03
9245	✓	✓			✓						✓	✓			✓			✓							0.14
9266	✓	✓			✓						✓				✓										0.00
9309	✓	✓			✓		✓			✓	✓		✓								✓				0.24
9339	✓	✓			✓																				0.09
9387	✓	✓			✓																	✓			0.12
9423	✓	✓			✓																				0.26

\* SPINAL FLUID

## Appendix C

### SAMPLE ACCIDENT FORMS

Figures C-1 and C-2 are samples of the accident forms on which crash data are recorded. The first is the State of Michigan Official Traffic Accident Report used by all agencies in Wayne County except the City of Detroit, and the second is that used by Detroit. The data recorded are essentially the same in both cases.

Engineering Copy

STATE OF MICHIGAN  
OFFICIAL TRAFFIC ACCIDENT REPORT

No. of sheets attached..... Department..... Complaint No.....

TIME Date.....19..... Day of Week..... at..... A.M..... P.M. File Class Number.....

LOCATION County..... City..... Twp..... Sec.....  
Highway or street on which accident occurred (Name)..... Trunkline No..... County Road No.....  
AT ITS INTERSECTION WITH (street, highway or R. R. crossing).....  
OR  
IF NOT AT INTERSECTION: (feet or miles or fractions thereof)..... N S E W  
of (intersecting street, highway, city, village, county line or R.R.).....  
Special reference.....  
Use to indicate more precise location: (alley, house number, stream, milepost, underpass, or other landmark)

Damage to property other than vehicles.....  
Name object and state nature of damage.....  
In roadway  , or.....feet from N S E W edge of roadway  
Name and address of owner of object struck.....

CODE OF INJURY  
(Use only the most serious one in each space for injury.)  
K - Dead  
A - Visible signs of injury, as bleeding wound or distorted member, or had to be carried from scene.  
B - Other visible injury, as bruises, abrasions, swelling, limping, etc.  
C - No visible injury but complaint of pain or momentary unconsciousness.  
O - No indication of injury.

VEHICLE NO. 1 Year..... Make..... Type..... Year, No., & State of Reg..... ICC No..... MPSC No.....  
Parts of vehicle damaged..... Vehicle removed to:..... By:.....  
Owner..... St. or RR..... City..... State.....  
Driver..... St. or RR.....  
Driver's Reg. Op. Lic.  City, County, State  
License..... State Number..... Other  Date of Birth.....  
Specify Type and/or Restrictions Month, Day, Year  
OCCUPANTS  
Front Center..... Address.....  
Front Right..... Address.....  
Rear Left..... Address.....  
Rear Center..... Address.....  
Rear Right..... Address.....  
Name Street or RR City and State

VEHICLE NO. 2; Pedestrian or Bicycle Year..... Make..... Type..... Year, No., & State of Reg..... ICC No..... MPSC No.....  
Parts of vehicle damaged..... Vehicle removed to:..... By:.....  
Owner..... St. or RR..... City..... State.....  
Driver..... St. or RR.....  
Driver's Reg. Op. Lic.  City, County, State  
License..... State Number..... Other  Date of Birth.....  
Specify Type and/or Restrictions Month, Day, Year  
OCCUPANTS  
Front Center..... Address.....  
Front Right..... Address.....  
Rear Left..... Address.....  
Rear Center..... Address.....  
Rear Right..... Address.....  
Name Street or RR City and State

Injured taken to..... By.....

WEATHER (Check one)  
 Clear or cloudy  
 Raining  
 Snowing  
 Fog  
 Other (specify).....  
LIGHT CONDITION (Check one)  
 Daylight  
 Dusk or dawn  
 Darkness  
KIND OF LOCALITY (Check one)  
 Mfg. or industrial  
 Shopping or business  
 Apartments  
 School or playground  
 One family homes  
 Farms, fields  
 Not developed  
ROADWAY  
CONSTRUCTION (Check one)  
 Concrete  
 Blacktop  
 Gravel  
 Dirt or sand  
 Other (specify).....  
SURFACE (Check one)  
 Dry  
 Wet  
 Snowy or icy  
 Other (specify).....  
CHARACTER (Check two)  
 Straight road  
 Curve  
 Level  
 On grade  
 Hillcrest  
CONDITION (Check one)  
 Defect (describe).....  
 No defect  
Low shoulder, slippery when wet, etc.

WITNESSES Name..... Address..... Age..... Sex.....  
Name..... Address..... Age..... Sex.....  
Name..... Address..... Age..... Sex.....



Figure C-1 (cont'd)

ALL APPLICABLE SCHEDULES MUST BE CHECKED. OFFICER'S CONSIDERED OPINION SHOULD BE GIVEN IF FACTS ARE NOT OBTAINABLE.

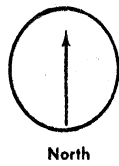
<b>WHAT DRIVERS WERE GOING TO DO BEFORE ACCIDENT</b> Driver No. 1 was headed <input type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> E <input type="checkbox"/> W on ..... at ..... MPH <span style="margin-left: 100px;">Street or Highway</span>		<b>ROAD TYPE (Check one or more for each driver)</b> DRIVER 1 2 <input type="checkbox"/> <input type="checkbox"/> 1 driving lane <input type="checkbox"/> <input type="checkbox"/> 2 driving lanes <input type="checkbox"/> <input type="checkbox"/> 3 driving lanes <input type="checkbox"/> <input type="checkbox"/> 4 or more lanes <input type="checkbox"/> <input type="checkbox"/> Divided roadway (limited access) <input type="checkbox"/> <input type="checkbox"/> Divided roadway (other) <input type="checkbox"/> <input type="checkbox"/> One way street <input type="checkbox"/> <input type="checkbox"/> Unpaved - any width	
Driver No. 2 was headed <input type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> E <input type="checkbox"/> W on ..... at ..... MPH		<b>DRIVER 1 2 (Check one for each driver)</b> <input type="checkbox"/> <input type="checkbox"/> Go straight ahead <input type="checkbox"/> <input type="checkbox"/> Make U turn <input type="checkbox"/> <input type="checkbox"/> Back <input type="checkbox"/> <input type="checkbox"/> Overtake <input type="checkbox"/> <input type="checkbox"/> Slow or stop <input type="checkbox"/> <input type="checkbox"/> Remain stopped in traffic lane <input type="checkbox"/> <input type="checkbox"/> Make right turn <input type="checkbox"/> <input type="checkbox"/> Start in traffic lane <input type="checkbox"/> <input type="checkbox"/> Remain parked <input type="checkbox"/> <input type="checkbox"/> Make left turn <input type="checkbox"/> <input type="checkbox"/> Start from parked position	
<b>WHAT PEDESTRIAN WAS DOING</b> <input type="checkbox"/> Along Pedestrian was going <input type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> E <input type="checkbox"/> W <input type="checkbox"/> Across or into ..... From ..... To ..... <span style="margin-left: 20px;">(Check one)</span> <span style="margin-left: 100px;">Street Name, Highway No.</span> <span style="margin-left: 100px;">N.E. corner to S.E. corner, or west to east side, etc.</span>			
<input type="checkbox"/> Crossing or entering at intersection <input type="checkbox"/> Walking in roadway—with traffic <input type="checkbox"/> Pushing or working on vehicle <input type="checkbox"/> Other in roadway <input type="checkbox"/> Crossing or entering not at intersection <input type="checkbox"/> Walking in roadway—against traffic <input type="checkbox"/> Other working in roadway <input type="checkbox"/> Not in roadway <input type="checkbox"/> Getting on or off vehicle <input type="checkbox"/> Standing in roadway <input type="checkbox"/> Playing in roadway			
<b>VIOLATION INDICATED (Check one or more for each driver)</b> DRIVER 1 2 <input type="checkbox"/> <input type="checkbox"/> Speed too fast <input type="checkbox"/> <input type="checkbox"/> Made improper turn <input type="checkbox"/> <input type="checkbox"/> Failed to yield right of way <input type="checkbox"/> <input type="checkbox"/> Improper or no signal <input type="checkbox"/> <input type="checkbox"/> Drove left of center <input type="checkbox"/> <input type="checkbox"/> Improper parking location <input type="checkbox"/> <input type="checkbox"/> Improper overtaking <input type="checkbox"/> <input type="checkbox"/> Other improper driving (describe) _____ <input type="checkbox"/> <input type="checkbox"/> Passed stop sign <input type="checkbox"/> <input type="checkbox"/> Disregarded traffic signal <input type="checkbox"/> <input type="checkbox"/> Followed too closely <input type="checkbox"/> <input type="checkbox"/> No violation indicated		<b>APPARENT PHYSICAL CONDITION (Check one or more as applicable)</b> DRIVER 1 2 PED. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Ill <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Normal <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Fatigued <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Condition not known <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Asleep <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Restriction on license complied with _____ <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Other impairment <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Restriction on license not complied with (describe) _____	
<b>DRINKING CONDITION (Check one)</b> DRIVER 1 2 PED. HAD BEEN DRINKING: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Under the influence <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Not under the influence <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Influence not known  <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> HAD NOT BEEN DRINKING <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> NOT KNOWN IF DRINKING CHECK IF APPLICABLE: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Chemical test given		<b>VISION OBSTRUCTION (Check one or more for each driver)</b> DRIVER 1 2 <input type="checkbox"/> <input type="checkbox"/> Windshield or windows (describe) _____ <input type="checkbox"/> <input type="checkbox"/> Bldgs., signs, bushes, crops, embankment, parked cars, etc. (describe) _____ <input type="checkbox"/> <input type="checkbox"/> No vision obstruction	
<b>VEHICLE CONDITION (Check one or more)</b> VEHICLE 1 2 <input type="checkbox"/> <input type="checkbox"/> Defective brakes <input type="checkbox"/> <input type="checkbox"/> Defective lights <input type="checkbox"/> <input type="checkbox"/> Defective steering <input type="checkbox"/> <input type="checkbox"/> Defective tires <input type="checkbox"/> <input type="checkbox"/> Other defective equipment (specify) _____ <input type="checkbox"/> <input type="checkbox"/> Not known if defective <input type="checkbox"/> <input type="checkbox"/> No defect		<b>TRAFFIC CONTROL (Check one or more)</b> <input type="checkbox"/> Stop sign <input type="checkbox"/> Stop and go signal <input type="checkbox"/> Officer or watchman <input type="checkbox"/> R.R. gates or signals <input type="checkbox"/> Other (specify) _____ <input type="checkbox"/> Control not functioning, inadequate or obscured (describe) _____ <input type="checkbox"/> No traffic control present	
<b>INDICATE ON THIS DIAGRAM WHAT HAPPENED</b> 1. Draw heavy lines to show streets 2. Name streets 3. Draw arrow pointing north 4. Show veh. and ped. thus: Vehicles → <input type="checkbox"/> 1 <input type="checkbox"/> 2 ← Pedestrians 0 ← 5. Show angle of collision • INDICATE NORTH BY ARROW		<b>REMARKS AND RECOMMENDATIONS</b> Inspect scene for need of traffic engineering? <input type="checkbox"/> Yes (explain) Re-examine driver for license competency? <input type="checkbox"/> #1 <input type="checkbox"/> #2 (explain)	
Use complaint form or sheet of paper for more extensive remarks or diagram.			
<b>POLICE RECORD</b> Arrest: Name ..... Charge ..... Arrest: Name ..... Charge ..... Reported by (name) ..... Address ..... Date received ..... Time ..... <input type="checkbox"/> AM <input type="checkbox"/> PM    Report received by (offr) ..... Investigator ..... Investigated at scene? <input type="checkbox"/> Yes <input type="checkbox"/> No    Signature and Rank    Photographs taken? <input type="checkbox"/> Yes <input type="checkbox"/> No    Complaint closed by: <input type="checkbox"/> Arrest <input type="checkbox"/> Other    Date .....    Station or Department    Post No. ....			

Figure C-2: DETROIT POLICE DEPARTMENT TRAFFIC ACCIDENT REPORT

VEHICLE NO. 3	Year	Make	Type	Car Reg.	No.	State	Year	Driveable? <input type="checkbox"/> Yes <input type="checkbox"/> No	
	Going N S E W on	Est. Speed MPH		Lawful Speed MPH		Disposition Of Vehicle		DATE OF BIRTH	
	Driver's Name			Address		City	Phone	Month Day Year	
	Driver's License			<input type="checkbox"/> Oper. <input type="checkbox"/> Chauff.	State	Weight	Height	Age Sex Inj.	
	OCCUPANTS Front Center			Address		City	Phone		
	Front Right			Address		City	Phone		
	Rear Left			Address		City	Phone		
	Rear Center			Address		City	Phone		
	Rear Right			Address		City	Phone		
	Owner			Address		City	Phone		
Damage to property other than vehicles <input type="checkbox"/> City <input type="checkbox"/> Private				Kind of Property		CODE OF INJURY			
Name and address of owner						(Use only the most serious one in each space for injury.)			
State nature of damage						K - Fatal			
						A - Visible signs of injury, as bleeding wound or distorted member, or had to be carried from scene.			
						B - Other visible injury, as bruises, abrasions, swelling.			
						C - No visible injury but complaint of pain or momentary unconsciousness.			
						O - No indication of injury.			
WITNESSES	Name	Address			City	Phone			
	Name	Address			City	Phone			
	Name	Address			City	Phone			
ARREST	Name	Charge			Cl. File No.	Cl. Date			
	Name	Charge			Cl. File No.	Cl. Date			
Time notified of accident	Date	Hour	<input type="checkbox"/> A.M. <input type="checkbox"/> P.M.	Was investigation made at scene?		Happened in Prec. Scout Car Territory			
Is investigation completed?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Signature			Badge	Car Number			
ACCIDENT INVOLVED	Hour	A.M.	P.M.	Day of Week	Date				
(Pedestrian, other motor vehicle, railroad train, fixed object, etc.)									
<b>DETROIT POLICE DEPARTMENT</b>							APB FILE NO.		
LOCATION ON							At or N S E W of		
VEHICLE NO. 1	Year	Make	Type	Car Reg.	No.	State	Year	Driveable? <input type="checkbox"/> Yes <input type="checkbox"/> No	
	Going N S E W on	Est. Speed MPH		Lawful Speed MPH		Disposition Of Vehicle		DATE OF BIRTH	
	Driver's Name			Address		City	Phone	Month Day Year	
	Driver's License			<input type="checkbox"/> Oper. <input type="checkbox"/> Chauff.	State	Weight	Height	Age Sex Inj.	
	OCCUPANTS Front Center			Address		City	Phone		
	Front Right			Address		City	Phone		
	Rear Left			Address		City	Phone		
	Rear Center			Address		City	Phone		
	Rear Right			Address		City	Phone		
	Owner			Address		City	Phone		
VEHICLE NO. 2 Or Pedestrian	Year	Make	Type	Car Reg.	No.	State	Year	Driveable? <input type="checkbox"/> Yes <input type="checkbox"/> No	
	Going N S E W on	Est. Speed MPH		Lawful Speed MPH		Disposition Of Vehicle		DATE OF BIRTH	
	Driver's Name			Address		City	Phone	Month Day Year	
	Driver's License			<input type="checkbox"/> Oper. <input type="checkbox"/> Chauff.	State	Weight	Height	Age Sex Inj.	
	OCCUPANTS Front Center			Address		City	Phone		
	Front Right			Address		City	Phone		
	Rear Left			Address		City	Phone		
	Rear Center			Address		City	Phone		
	Rear Right			Address		City	Phone		
	Owner			Address		City	Phone		
Injured taken to	By	Injured taken to		By	Total Inj.				
If injured is student name school attended									

Figure C-2 (cont'd)

DRAW DIAGRAM OF ACCIDENT



APB FILE NO.

INSTRUCTIONS:

- (1) Use dotted lines as guides to draw heavy lines which will show outline of roadway at place of accident.
- (2) Use dotted lines as guides to draw light dashes between solid lines to show lanes of travel and/or divided roadways.
- (3) Number each vehicle and draw them in proper lane.

POINT OF IMPACT  
(Check one for each vehicle involved)

Vehicle			Vehicle			
1.	2.	3.	1.	2.	3.	4.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. Front	<input type="checkbox"/>	<input type="checkbox"/>	5. Left side
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. Right front	<input type="checkbox"/>	<input type="checkbox"/>	6. Rear
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3. Left front	<input type="checkbox"/>	<input type="checkbox"/>	7. Right rear
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. Right side	<input type="checkbox"/>	<input type="checkbox"/>	8. Left rear

Describe briefly what happened including exact point of impact with fixed object:

DRIVER NO. 1	EMPLOYER'S NAME	ADDRESS	CITY	PHONE NUMBER
DRIVER NO. 2				
DRIVER NO. 3				
ADDITIONAL INFORMATION				

Assisted by Patr.	A.P.B. Notified:	Date	Time	M.
Badge No.	Precinct or Bureau	Officer	Badge	

PEDESTRIAN Was going  On  Across  Direction (West, NE, etc.) Street name

From (NW Corner, South Side, Etc.) To (SE Corner, North Side, Etc.)

1. Crossing at intersection—with signal

2. Same—against signal

3. Same—no signal

4. Same—diagonally

5. Crossing not at intersection—coming from behind parked cars

6. Same — not coming from behind parked cars

7. Coming from behind parked cars to enter vehicle

8. Playing in alley

9. Getting on or off other vehicle

10. Standing in roadway

11. Playing in roadway

12. Working in roadway

13. Walking in roadway

14. Hitching on vehicle

15. Lying in roadway

16. Not in roadway (Explain in remarks)

**WHAT DRIVERS WERE DOING**  
Vehicle (Check intent of each driver)

1. 2. 3.

1. Making right turn

2. Making left turn

3. Making U turn

4. Going straight ahead

5. Slowing down or stopping

6. Overtaking

7. Leaving curb

8. Changing lanes

9. Backing

10. Stopped in traffic

11. Parked (Check if applicable)

1. Skidding

2. Tire blew out

3. Avoiding vehicle, object or pedestrian

4. Emerging from alley or driveway

**VIOLATIONS INDICATED** (Check one or more for each vehicle)

Vehicle 1. 2. 3.

1. Exceeding lawful speed

2. Did not have right of way

3. On wrong side of road

4. Exceeding safe speed

5. Improper backing

6. Struck rear of vehicle

7. Improper passing

8. Cutting in

9. Failure to signal, improper signal

10. Improper turn—wide right turn

11. Same—cut corner on left turn

12. Same—turned from wrong lane

13. Disregarded STOP sign, signal

14. Same—WARNING sign, signal

15. Disregarded Stop-&-Go light

16. Disregarded police officer

17. Improper starting from parked position

18. Improper parking

19. Disregarded YIELD RIGHT-OF-WAY Sign

20. Other improper action (explain)

21. No improper driving indicated

Explain others:

**CONDITION OF VEHICLE**  
Vehicle 1. 2. 3. (Check one or more)

1. No defects

2. Improper lights

3. Defective brakes

4. Defective steering gear

5. Other defects (Explain fully in remarks)

**TRAFFIC CONTROL**

Functioning

Not Functioning

1. Stop-&-Go light

2. STOP sign or signal

3. WARNING sign or signal

4. No control present

5. Officer or watchman

6. Railroad crossing gates

7. Railroad automatic signal

**CONDITION OF DRIVER AND PEDESTRIAN**

1. 2. 3. Ped. (Check one)

1. Had not been drinking

2. Had been

(a) Drinking—Ability impaired

(b) Drinking—Ability not impaired

(c) Drinking — Not known whether impaired

1. 2. 3. Ped.

1. Apparently normal

2. Physical handicap

Alcohol Tests?  Yes  No

**ROAD TYPE** (Check one or more for each driver)

DRIVER 1. 2. 3.

1 driving lane

2 driving lanes

3 driving lanes

4 or more lanes

Divided roadway (limited access)

Divided roadway (other)

One way street

**ROAD SURFACE CONDITION**

1. Dry

2. Wet

3. Ice

4. Snow

5. Mud

6. Other (Specify)

**LOCALITY**

1. Business

2. Industrial

3. Multi-Dwelling

4. Single Dwelling

5. School

6. Park

7. Other (Specify)

**WEATHER**

1. Clear

2. Cloudy

3. Raining

4. Snowing

5. Fog

6.

**LIGHT CONDITIONS**

1. Daylight

2. Dusk

3. Dawn

4. Artificial lights

5. No artificial lights

**ROAD DEFECTS** (Check one or more)

1. No defects

2. Holes or Jeep ruts

Loose material on surface

4. Defective shoulders

5. Other defects

6. Under construction or repair

**ROAD CHARACTER**  Straight  Curve or turn  Hillcrest

Level  Grade

Officer in Charge Rank Precinct or Bureau



Appendix D

DESCRIPTION OF DRIVING AND CRIMINAL RECORDS

Contents

- D.1. Department of State, Driver Record  
Information
- D.2. Michigan State Police, Identification  
Bureau

#### D.1. DEPARTMENT OF STATE, DRIVER RECORD INFORMATION

The Michigan Department of State, Driver Services Division, maintains more than 4,000,000 drivers' records. These are filed by the soundex system, employing the driver name and birth date to generate a numerical code which also becomes the driver license number when it is preceded by the first letter of the surname. A file is opened for all drivers licensed in Michigan. Files are also opened for unlicensed or out-of-state drivers arrested for traffic violations and accidents in Michigan.

After a record has been opened, it is continually updated, adding such things as: accident information, motor vehicle offense convictions, driver improvement information (warning letters, reexamination, instruction, license revocation or restriction), financial responsibility actions, and mandatory license suspension or revocation following certain driving offenses.

Filing and updating are done manually although the whole system is in the process of being transferred to computer storage.

Names and addresses for all 177 cases were submitted to the Department of State. If the birth date and driver license number were available from the accident report (usually only when the person killed was a driver) this information was included. Common surnames and inability to ascertain exact birth dates may have prevented us from identifying additional records.

A sample driving record is given in Figure D-1.

Figure D-1. SAMPLE DRIVING RECORD

8-525-758-013-310  
LICENSE NUMBER

R-CHAUFF  
TYPE OF LICENSE

*4-22-68 legal* PAGE  
 07/07/68 04/22/21  
EXPIRES SIR IN DATE

SEX: M. NAME: ADDRESS: DETROIT MICH 12/13/67

CONVICTION DATE OR COURT FINDING	PLACE OF CONVICTION OR FINDING	ARREST DATE	OFFENSE, ACTION-S TAKEN OR OTHER INFORMATION	PTS.	MICROFILM NUMBER
			*** FIN, RESP. UJ56-614, UNSATISFIED JUDGEMENT, DETROIT, SUSPENSION LIFTED 6-22-64.		
01/30/63	DETROIT	09/28/62	IMPROPER LANE USE		A/23700
10/13/65	DETROIT	09/22/64	DISOBEY TRAFFIC CONTROL DEVICE	2	A/25701
10/13/65	DETROIT	07/05/65	PROHIBITED TURN	2	A/25701
10/13/65	DETROIT	07/18/65	SPEED 45/30	3	A/25701
03/19/66	DETROIT	12/10/65	DISOBEY RED TRAFFIC SIGNAL	3	A/25701
			*** WARNING LETTER 05/05/66		
11/23/66	DETROIT	04/29/66	DISOBEY RED TRAFFIC SIGNAL	3	A/55991
			*** FIN, RESP. R 2260125, MOTOR VEHICLE ACCIDENT CLAIMS FUND 1-11-66, SUSPENSION LIFTED 11-16-66		
11/23/66	DETROIT	07/06/66	IMPROPER TURN	2	A/56369
11/23/66	DETROIT	07/06/66	SPEED 35/30	2	A/56833
			*** REF'D FOR RE-EXAM D 03/06/67	17	TOTAL
01/31/67	DETROIT	12/10/66	FAIL YIELD TO VEHICLE	2	C198
			*** RE-EXAM DATE 4-10-67, SUSPENSION FROM 5-10-67 THRU 6-10-67 & ACT 174 PA 1956 & COMPLIED WITH ON 6-20-67		C198
			*** LICENSE APPEAL BOARD HEARING 5-15-67 AT DETROIT, SUBJECT FAILED TO APPEAR FOR HEARING ON SUSPENSION FROM 5-10-67 THRU 6-10-67, JPHELD		C198
			ACCIDENT 08/18/67, #023978. DETROIT PD. 2 VEH 0 INJ 0 KILLED		
09/09/67	DETROIT	11/23/66	SPEED 45/35	2	D/20475 E/48435

## D.2. MICHIGAN STATE POLICE, IDENTIFICATION BUREAU

The Michigan State Police have records of 6.5 million names. These come from several sources. Patients at state institutions for the insane, feeble-minded or epileptic have been fingerprinted since 1935 and their records go to the State Police. The State Police have records of most persons fingerprinted while making job applications; they have records and fingerprints of all inmates at penal or correctional institutions, and of all persons convicted of a felony or of a misdemeanor not cognizable by a justice of the peace. In addition, Michigan participates with 30 other states and the FBI in an exchange of conviction information.

Types of Files. The three main files are (1) name card, (2) fingerprint, and (3) master jacket file. The name card file is ordered first alphabetically and then by date of birth. Fingerprints are filed numerically, with men and women differentiated by colored cards. When a person has more than two convictions or entries, a master jacket folder is started and given a State Police I.D. number.

Records are expunged for people over 90 years or if proof of death is received. However, this process is about 2 years behind.

All 177 names were submitted to the I.D. section. In addition to name, the date of birth, last known address, aliases, social security number and driver license number were included where possible.

Figure D-2 is a sample criminal record.



Figure D-2. SAMPLE CRIMINAL RECORD

March 5, 1968

Record compiled

by: pw

The following is a transcript of the record, including the most recently reported data, as shown in the files of the Michigan State Police Bureau of Identification concerning our bureau number 361504

Name: SEX M CLR Negro FPC: (amp) I 5 A II 12  
 Aliases: I 17 Aa aI 9

FBI: 220 747 B

Contributor	Name and Number	Date	Charge	Disposition
*SHosp Pontiac, Mich.	#23938	6-7-50 (prt'd)	Patient	
PD Royal Oak Twp., Ferndale, Mich.	#	8-20-51	Invest.	discharged
PD Royal Oak Twp., Ferndale, Mich.	#3878	11-24-52	Disorderly Conduct	Susp. Sent., 90 days Probation.
PD Royal Oak Twp., Ferndale, Mich.	#3878	4-3-53	D & D	discharged
PD Royal Oak Twp., Ferndale 20, Mich.	# 3878	4-17-53	D & D	susp. sent. 5/16/53
PD Royal Oak Twp., Ferndale, Mich.	#3878	5-15-53	D & D	\$5 fine 6/6/53
Royal Oak Twp. PD Ferndale, Michigan	#3878	7-4-53	disorderly	discharged
PD Royal Oak Twp. Ferndale, Mich.	#3878	1/24/55	Loitering	\$5 F & C paid

\* Represents notations unsupported by fingerprints in this bureau.



## Appendix E

### DESCRIPTION OF SOCIAL AND COURT AGENCIES AND THE PROCEDURE USED FOR CASE RECORD COLLECTION

#### Contents

- E.1. The Wayne County Department of Social Services
- E.2. Wayne County Circuit Court, Probation Department
- E.3. Detroit Recorder's Court, Probation Department
- E.4. Detroit Recorder's Court, Traffic Division

## E.1. THE WAYNE COUNTY DEPARTMENT OF SOCIAL SERVICES

The Wayne County Department of Social Services came into existence on 1 December 1966 as the result of an amalgamation of State, County, and City of Detroit social welfare programs. These earlier programs are now administered through the State of Michigan on a county basis.

Services and card file systems of the previous State, County, and City programs have been only partially combined since 1966. Therefore, in searching for a case record it is necessary to use each original card system separately.

a) State Programs. The Tappan Building, 7th Floor card file has records of ongoing state programs. There are approximately 700,000 case record cards, covering applications for Aid to Dependent Children, Aid to Dependent Parents, Medical Assistance, Old Age Assistance, Aid to the Blind and Childrens' Services (foster homes, day care nurseries, and adoptions).

b) County Programs. The Tappan Building basement has Wayne County Afflicted Adult records covering a period from the 1940's through 1966 and comprising 300,000 - 400,000 cases. Since 1966, cases have been added to this file only when the people do not qualify for any other type of assistance.

c) City Programs. The Lodge Building record card file covers what, until December 1966, was Detroit City Services. These files have been partially combined with the Tappan Building, 7th Floor files and have been updated only in general assistance cases. These are money transaction emergency cases for such things as food, the Food Stamp Program, fuel, rent, and medicine. Before 1966, records of private organizations were filed with city agency records. These embraced Community Chest organizations, clinical services, probation for children, adult delinquent institutional care agencies, family relief programs and traveler's aid.

Cards in both files at the Tappan Building are filed alphabetically by name. In addition to the full name of the applicant, they have space for name of spouse, birth dates, case number and case worker number, guardian name and address, children and their birthdates, other agencies involved, the date the case was opened, and the date and type of the last disposition.

LOCATION OF A CASE RECORD. Locating a case record involved two steps. First the three name card files were checked for all 177 names. If the spouse's or parent's name was indicated in the Medical Examiner's report, this name was also searched.

When a tentative identification was made with one of our cases through the name card, the record was traced through the caseworker number or the disposition. Records could be in the worker's possession, in a department where information was being added, in the active files or the closed files. Closed cases are kept indefinitely at the Tappan Building, but are purged after 5 years of inactivity at the Lodge Building.

The records that were collected each contained a face sheet in differing degrees of completion. Information was indicated pertaining to name, maiden name, spouse name, birthplace and birth date of each spouse, aliases, place of legal settlement, type of case under the spouse's name, if any, places and duration of residence, number of rooms, rent, landlord's name, marital status and marriage record, citizenship, parentage, institutional care, military record, employment history, household members, relatives not in the household, lodges and societies, and other persons/agencies interested in the case.

There was considerable diversity in these records beyond the initial face sheet. Workers recorded information according to the type of case involved. If a caseworker saw the client with some regularity or for a considerable time, one could usually find extensive background on the family life, difficulties in the home, or positive points about the family environment. For other types of cases, especially medical ones, little information was available except for the type of illness, where it was treated, a doctor's statement and a notation about whether or not the medical bills had been paid. Therefore, even though certain specified information was to be considered in all records, the diversity in the nature of case contacts precluded a standard format in collection of data.

Case records collected were reviewed carefully to be sure that the record was actually for one of the fatalities in our population and also for specific information, especially concerning drinking and its concurrent effect on the individual's home-life, employment, social life, and general well-being.

Information was collected under these general groupings where it was available:

- Span of time covered in record, and dates.
- Demographic information on subject (birth date, race, ethnic group, religion, education, occupation, income, spouse's occupation and income, addresses).
- Childhood history.
- Marital history.
- Number of children.
- Military service.
- Medical history.
- Contacts with agency.
- Contacts with other social agencies, hospitals, police.
- Special problems (those related to schooling or occupation, family life, finances, personality dynamics, others).
- Alcohol related information: everything in record which bears on drinking behavior of subject and/or other family members--age he began, amount, frequency, typical drinking pattern--any record material which suggests abnormal drinking without labeling it as such.
- General comments.

COURT RECORDS. Court probation and pre-sentencing records were searched in addition to records from the Wayne County Department of Social Services. Information was collected in the same general categories as listed previously.

#### E.2. WAYNE COUNTY CIRCUIT COURT, PROBATION DEPARTMENT

Wayne County Circuit Court handles both felony and misdemeanor cases for the Wayne County area outside of Detroit. A probation department has been a part of Circuit Court since December 1924 and handles a monthly running caseload of approximately 3,000 people. These cases come from several sources. In 1967, 1,467 cases came from Wayne County Circuit Court, 1,420 from Municipal and Justice Courts, and 240 cases were transferred from other jurisdictions. For the first four months of 1968, the average number of cases placed on probation was 187 and the average number discharged was 168. In addition to interviews with probationers, the court probation officers also make a pre-sentencing report on about 200 cases per month.

Files are destroyed if notification of death is received. Two records on fatalities were known lost for this reason.

Names of all 177 persons were searched at this department.

#### E.3. RECORDER'S COURT, PROBATION DEPARTMENT

Recorder's Court handles Detroit area criminal cases, both misdemeanors and felonies. This Probation Department has 145 officers and clerks and supervises 10,080 persons (1966 figures). Probation workers have an average caseload of 107 probations. Probation records for misdemeanors are purged after 10 years. Felony records are kept permanently.

Certain information is collected in a case record when a person first comes into the probation department, both at Circuit Court and Recorder's Court. This includes the type of offense, court findings, juvenile, youth and adult criminal records, police and defendant's statement of arrest, defendant's personal history, education, religion, military record, home environment, employment, habits, health and recreation, restitution, and a summation and evaluation as to the type of sentencing recommended. Names of all female fatalities were checked at the Women's Division of Recorder's Courts, and all males with criminal records found by the State Police were searched at the Men's Division and Youth Division (ages 17-21). Not all male fatalities were checked, since agency personnel indicated that there was little probability they would have records on persons if the State Police did not also have a record.

#### E.4. RECORDER'S COURT, TRAFFIC DIVISION

The Traffic Division of Recorder's Court has records of all licenses

issued to Detroit residents as well as files for unlicensed Detroit traffic violators. Traffic Division clerks made copies of any driving record found for the 177 fatal cases. After this was done, the records were searched for any indication of driving probation. By doing so, Detroit traffic probation records were located. These records contained less personal information than those from the other probation departments. Data were generally limited to name, address, birth date, country of birth, place of employment, and type of driving probation or restriction.





## Appendix F

### BIVARIATE FREQUENCY TABLES FOR FATALITY DATA

#### Contents

- F-1. Distribution of All Fatalities by Road Status, B.A.L.
- F-2. Distribution of All Fatalities by Road Status, Age Group
- F-3. Distribution of All Drivers by Age Group, B.A.L.
- F-4. Distribution of All Passengers by Age Group, B.A.L.
- F-5. Distribution of All Pedestrians by Age Group, B.A.L.
- F-6. Distribution of All Fatalities by Road Status, Marital Status
- F-7. Distribution of All Drivers by Marital Status, B.A.L.
- F-8. Distribution of All Passengers by Marital Status, B.A.L.
- F-9. Distribution of All Pedestrians by Marital Status, B.A.L.
- F-10. Distribution of All Drivers by Marital Status, Race
- F-11. Distribution of All Passengers by Marital Status, Race
- F-12. Distribution of All Pedestrians by Marital Status, Race
- F-13. Distribution of All Fatalities with Fatty Livers by Age Group, B.A.L.
- F-14. Distribution of All Fatalities with Non-Fatty Livers by Age Group, B.A.L.
- F-15. Distribution of All Fatalities by Road Status, Hour of Accident
- F-16. Distribution of All Drivers by Day, Hour of Accident
- F-17. Distribution of All Passengers by Day, Hour of Accident
- F-18. Distribution of All Pedestrians by Day, Hour of Accident
- F-19. Distribution of All Fatalities by Hour of Accident, B.A.L.
- F-20. Distribution of All Drivers by Hour of Accident, B.A.L.
- F-21. Distribution of All Pedestrians by Hour of Accident, B.A.L.
- F-22. Distribution of All Pedestrians by Week-end/Week-day Accident, B.A.L.
- F-23. Distribution of All Fatalities by Accident Month, Road Status
- F-24. Distribution of Accident-Responsible Drivers and Pedestrians by Marital Status, B.A.L.
- F-25. Distribution of Drivers and Pedestrians Not Designated Accident-Responsible by Marital Status, B.A.L.
- F-26. Distribution of All Drivers by Single/Multiple Car Accidents, B.A.L.

Variables Used for Machine Analysis

Number of Fatalities

Hour of Accident (24-Hour Scale)

Day of Accident

Month of Accident

Blood Alcohol Level at Death (B.A.L.)

Accident-Responsible Drivers

Accident-Responsible Pedestrians

Drivers Not Designated Accident-Responsible

Pedestrians Not Designated Accident-Responsible

Age Group

Fatalities with Fatty Livers

Fatalities with Non-Fatty Livers

Marital Status

Road Status: Drivers  
Passengers  
Pedestrians

Race

Single/Multiple Car Accidents

BIVARIATE FREQUENCIES

ROW (CONTROL) VARIABLE NO. 7 STATUS ON ROAD		COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											
( 0 )	not taken ( 1 )	.01-04 ( 2 )	.05-09 ( 3 )	.10-14 ( 4 )	.15-24 ( 5 )	.25+ ( 6 )	( 7 )	Negative ( 8 )	( 9 )	( 10 )	( 11 )	WILD	TOTAL
( 1 ) Drivers	0	1	6	2	12	27	14	0	22	0	0	0	84
( 2 ) Pass.	0	5	3	3	2	5	1	0	19	0	0	0	38
( 3 ) Pedest.	0	1	8	3	4	9	8	0	22	0	0	0	55
TOTAL	0	7	17	8	18	41	23	0	63	0	0	0	177

A

BIVARIATE PERCENTAGES (BASED ON ROW TOTALS)

ROW (CONTROL) VARIABLE NO. 7 STATUS ON ROAD		COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											
( 0 )	not taken ( 1 )	.01-04 ( 2 )	.05-09 ( 3 )	.10-14 ( 4 )	.15-24 ( 5 )	.25+ ( 6 )	( 7 )	Negative ( 8 )	( 9 )	( 10 )	( 11 )	WILD	TOTAL
( 1 ) Drivers	0.0	1.2	7.1	2.4	14.3	32.1	16.7	0.0	26.2	0.0	0.0	0.0	100.0
( 2 ) Pass.	0.0	13.2	7.9	7.9	5.3	13.2	2.6	0.0	50.0	0.0	0.0	0.0	100.0
( 3 ) Pedest.	0.0	1.8	14.5	5.5	7.3	16.4	14.5	0.0	40.0	0.0	0.0	0.0	100.0
TOTAL	0.0	4.0	9.6	4.5	10.2	23.2	13.0	0.0	35.6	0.0	0.0	0.0	100.0

B

BIVARIATE PERCENTAGES (BASED ON COLUMN TOTALS)

ROW (CONTROL) VARIABLE NO. 7 STATUS ON ROAD		COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											
( 0 )	not taken ( 1 )	.01-04 ( 2 )	.05-09 ( 3 )	.10-14 ( 4 )	.15-24 ( 5 )	.25+ ( 6 )	( 7 )	Negative ( 8 )	( 9 )	( 10 )	( 11 )	WILD	TOTAL
( 1 ) Drivers	0.0	14.3	35.3	25.0	66.7	65.9	60.9	0.0	34.9	0.0	0.0	0.0	47.5
( 2 ) Pass.	0.0	71.4	17.6	37.5	11.1	12.2	4.3	0.0	30.2	0.0	0.0	0.0	21.5
( 3 ) Pedest.	0.0	14.3	47.1	37.5	22.2	22.0	34.8	0.0	34.9	0.0	0.0	0.0	31.1
TOTAL	0.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	0.0	0.0	0.0	100.0

C

BIVARIATE PERCENTAGES (BASED ON GRAND TOTALS)

ROW (CONTROL) VARIABLE NO. 7 STATUS ON ROAD		COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											
( 0 )	not taken ( 1 )	.01-04 ( 2 )	.05-09 ( 3 )	.10-14 ( 4 )	.15-24 ( 5 )	.25+ ( 6 )	( 7 )	Negative ( 8 )	( 9 )	( 10 )	( 11 )	WILD	TOTAL
( 1 ) Drivers	0.0	0.6	3.4	1.1	6.8	15.3	7.9	0.0	12.4	0.0	0.0	0.0	47.5
( 2 ) Pass.	0.0	2.8	1.7	1.7	1.1	2.8	0.6	0.0	10.7	0.0	0.0	0.0	21.5
( 3 ) Pedest.	0.0	0.6	4.5	1.7	2.3	5.1	4.5	0.0	12.4	0.0	0.0	0.0	31.1
TOTAL	0.0	4.0	9.6	4.5	10.2	23.2	13.0	0.0	35.6	0.0	0.0	0.0	100.0

D

TABLE F-1. DISTRIBUTION OF ALL FATALITIES BY ROAD STATUS, B. A. L.

BLOOD ALCOHOL DATA		BIVARIATE FREQUENCIES											TABLE # 19	NO FILT	PAGE # 13
ROW (CONTROL) VARIABLE NO. STATUS ON ROAD	COLUMN (SPREAD) VARIABLE NO. 343 AGE GROUP														
(0)	16-19 (1)	20-24 (2)	25-34 (3)	35-44 (4)	45-54 (5)	55-64 (6)	65+ (7)	(8)	(9)	(10)	(11)	WILD	TOTAL		
(1) Drivers	0	7	15	14	10	19	12	7	0	0	0	0	84		
(2) Pass.	0	11	7	6	5	3	3	3	0	0	0	0	38		
(3) Pedest.	0	3	2	3	9	12	6	20	0	0	0	0	55		
TOTAL	0	21	24	23	24	34	21	30	0	0	0	0	177		

A

BLOOD ALCOHOL DATA		BIVARIATE PERCENTAGES (BASED ON ROW TOTALS)											TABLE # 19	NO FILT	PAGE # 14
ROW (CONTROL) VARIABLE NO. STATUS ON ROAD	COLUMN (SPREAD) VARIABLE NO. 343 AGE GROUP														
(0)	16-19 (1)	20-24 (2)	25-34 (3)	35-44 (4)	45-54 (5)	55-64 (6)	65+ (7)	(8)	(9)	(10)	(11)	WILD	TOTAL		
(1) Drivers	0.0	8.3	17.9	16.7	11.9	22.6	14.3	8.3	0.0	0.0	0.0	0.0	100.0		
(2) Pass.	0.0	28.9	18.4	15.8	13.2	7.9	7.9	7.9	0.0	0.0	0.0	0.0	100.0		
(3) Pedest.	0.0	5.5	3.6	5.5	16.4	21.8	10.9	36.4	0.0	0.0	0.0	0.0	100.0		
TOTAL	0.0	11.9	13.6	13.0	13.6	19.2	11.9	16.9	0.0	0.0	0.0	0.0	100.0		

B

BLOOD ALCOHOL DATA		BIVARIATE PERCENTAGES (BASED ON COLUMN TOTALS)											TABLE # 19	NO FILT	PAGE # 15
ROW (CONTROL) VARIABLE NO. STATUS ON ROAD	COLUMN (SPREAD) VARIABLE NO. 343 AGE GROUP														
(0)	16-19 (1)	20-24 (2)	25-34 (3)	35-44 (4)	45-54 (5)	55-64 (6)	65+ (7)	(8)	(9)	(10)	(11)	WILD	TOTAL		
(1) Drivers	0.0	33.3	62.5	60.9	41.7	55.9	57.1	23.3	0.0	0.0	0.0	0.0	47.5		
(2) Pass.	0.0	52.4	29.2	26.1	20.8	8.8	14.3	10.0	0.0	0.0	0.0	0.0	21.5		
(3) Pedest.	0.0	14.3	8.3	13.0	37.5	35.3	28.6	66.7	0.0	0.0	0.0	0.0	31.1		
TOTAL	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	100.0		

C

BLOOD ALCOHOL DATA		BIVARIATE PERCENTAGES (BASED ON GRAND TOTALS)											TABLE # 19	NO FILT	PAGE # 16
ROW (CONTROL) VARIABLE NO. STATUS ON ROAD	COLUMN (SPREAD) VARIABLE NO. 343 AGE GROUP														
(0)	16-19 (1)	20-24 (2)	25-34 (3)	35-44 (4)	45-54 (5)	55-64 (6)	65+ (7)	(8)	(9)	(10)	(11)	WILD	TOTAL		
(1) Drivers	0.0	4.0	3.5	7.9	5.6	10.7	6.8	4.0	0.0	0.0	0.0	0.0	47.5		
(2) Passengers	0.0	6.2	4.0	3.4	2.8	1.7	1.7	1.7	0.0	0.0	0.0	0.0	21.5		
(3) Pedestrians	0.0	1.7	1.1	1.7	5.1	6.8	3.4	11.3	0.0	0.0	0.0	0.0	31.1		
TOTAL	0.0	11.9	13.6	13.0	13.6	19.2	11.9	16.9	0.0	0.0	0.0	0.0	100.0		

D

TABLE F-2. DISTRIBUTION OF ALL FATALITIES BY ROAD STATUS, AGE GROUP

ROW (CONTROL) VARIABLE NO. 342 AGE GROUP		COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											
	not taken	.01-04	.05-09	.10-14	.15-24	.25+	Negative					WILD	TOTAL
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )		
( 1 ) 16-19	0	0	2	1	1	0	1	0	2	0	0	0	7
( 2 ) 20-24	0	0	1	1	2	7	2	0	2	0	0	0	15
( 3 ) 25-34	0	0	0	0	4	7	2	0	1	0	0	0	14
( 4 ) 35-44	0	0	0	0	1	2	4	0	3	0	0	0	10
( 5 ) 45-54	0	0	2	0	3	5	4	0	5	0	0	0	19
( 6 ) 55-64	0	0	1	0	1	5	1	0	4	0	0	0	12
( 7 ) 65+	0	1	3	0	0	1	0	0	5	0	0	0	7
TOTAL	0	1	6	2	12	27	14	0	22	0	0	0	84

A

BIVARIATE PERCENTAGES (BASED ON ROW TOTALS)

ROW (CONTROL) VARIABLE NO. 342 AGE GROUP		COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											
	not taken	.01-04	.05-09	.10-14	.15-24	.25+	Negative					WILD	TOTAL
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )		
( 1 ) 16-19	0.0	0.0	28.6	14.3	14.3	0.0	14.3	0.0	28.6	0.0	0.0	0.0	100.0
( 2 ) 20-24	0.0	0.0	6.7	6.7	13.3	46.7	13.3	0.0	13.3	0.0	0.0	0.0	100.0
( 3 ) 25-34	0.0	0.0	0.0	0.0	28.6	50.0	14.3	0.0	7.1	0.0	0.0	0.0	100.0
( 4 ) 35-44	0.0	0.0	0.0	0.0	10.0	20.0	40.0	0.0	30.0	0.0	0.0	0.0	100.0
( 5 ) 45-54	0.0	0.0	10.5	0.0	15.8	26.3	21.1	0.0	26.3	0.0	0.0	0.0	100.0
( 6 ) 55-64	0.0	0.0	8.3	0.0	8.3	41.7	8.3	0.0	33.3	0.0	0.0	0.0	100.0
( 7 ) 65+	0.0	14.3	0.0	0.0	0.0	14.3	0.0	0.0	71.4	0.0	0.0	0.0	100.0
TOTAL	0.0	1.2	7.1	2.4	14.3	32.1	16.7	0.0	26.2	0.0	0.0	0.0	100.0

B

BIVARIATE PERCENTAGES (BASED ON COLUMN TOTALS)

ROW (CONTROL) VARIABLE NO. 342 AGE GROUP		COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											
	not taken	.01-04	.05-09	.10-14	.15-24	.25+	Negative					WILD	TOTAL
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )		
( 1 ) 16-19	0.0	0.0	33.3	50.0	8.3	0.0	7.1	0.0	9.1	0.0	0.0	0.0	8.3
( 2 ) 20-24	0.0	0.0	16.7	50.0	16.7	25.9	14.3	0.0	9.1	0.0	0.0	0.0	17.9
( 3 ) 25-34	0.0	0.0	0.0	0.0	33.3	25.9	14.3	0.0	4.5	0.0	0.0	0.0	16.7
( 4 ) 35-44	0.0	0.0	0.0	0.0	8.3	7.4	28.6	0.0	13.6	0.0	0.0	0.0	11.9
( 5 ) 45-54	0.0	0.0	33.3	0.0	25.0	18.5	28.6	0.0	22.7	0.0	0.0	0.0	22.6
( 6 ) 55-64	0.0	0.0	16.7	0.0	8.3	18.5	7.1	0.0	18.2	0.0	0.0	0.0	14.3
( 7 ) 65+	0.0	100.0	0.0	0.0	0.0	3.7	0.0	0.0	22.7	0.0	0.0	0.0	8.3
TOTAL	0.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	0.0	0.0	0.0	100.0

C

BIVARIATE PERCENTAGES (BASED ON GRAND TOTALS)

ROW (CONTROL) VARIABLE NO. 342 AGE GROUP		COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											
	not taken	.01-04	.05-09	.10-14	.15-24	.25+	Negative					WILD	TOTAL
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )		
( 1 ) 16-19	0.0	0.0	2.4	1.2	1.2	0.0	1.2	0.0	2.4	0.0	0.0	0.0	8.3
( 2 ) 20-24	0.0	0.0	1.2	1.2	2.4	8.3	2.4	0.0	2.4	0.0	0.0	0.0	17.9
( 3 ) 25-34	0.0	0.0	0.0	0.0	4.8	8.3	2.4	0.0	1.2	0.0	0.0	0.0	16.7
( 4 ) 35-44	0.0	0.0	0.0	0.0	1.2	2.4	4.8	0.0	3.6	0.0	0.0	0.0	11.9
( 5 ) 45-54	0.0	0.0	2.4	0.0	3.6	6.0	4.8	0.0	6.0	0.0	0.0	0.0	22.6
( 6 ) 55-64	0.0	0.0	1.2	0.0	1.2	6.0	1.2	0.0	4.8	0.0	0.0	0.0	14.3
( 7 ) 65+	0.0	1.2	0.0	0.0	0.0	1.2	0.0	0.0	6.0	0.0	0.0	0.0	8.3
TOTAL	0.0	1.2	7.1	2.4	14.3	32.1	16.7	0.0	26.2	0.0	0.0	0.0	100.0

D

TABLE F-3. DISTRIBUTION OF ALL DRIVERS BY AGE GROUP, B. A. I.

ROW (CONTROL) VARIABLE NO. 342 AGE GROUP	COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											TOTAL		
	Not taken (0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	Negative (8)	(9)	(10)		(11)	WILD
(1) 16-19	0	0	1	0	0	1	0	0	9	0	0	0	0	11
(2) 20-24	0	2	1	2	0	0	1	0	1	0	0	0	0	7
(3) 25-34	0	1	0	1	1	0	0	0	3	0	0	0	0	6
(4) 35-44	0	0	0	0	1	3	0	0	1	0	0	0	0	5
(5) 45-54	0	0	0	0	0	1	0	0	2	0	0	0	0	3
(6) 55-64	0	1	1	0	0	0	0	0	1	0	0	0	0	3
(7) 65+	0	1	0	0	0	0	0	0	2	0	0	0	0	3
TOTAL	0	5	3	3	2	5	1	0	19	0	0	0	0	38

A

BIVARIATE PERCENTAGES (BASED ON ROW TOTALS)

ROW (CONTROL) VARIABLE NO. 342 AGE GROUP	COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											TOTAL		
	Not taken (0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	Negative (8)	(9)	(10)		(11)	WILD
(1) 16-19	0.0	0.0	9.1	0.0	0.0	9.1	0.0	0.0	81.8	0.0	0.0	0.0	0.0	100.0
(2) 20-24	0.0	28.6	14.3	28.6	0.0	0.0	14.3	0.0	14.3	0.0	0.0	0.0	0.0	100.0
(3) 25-34	0.0	16.7	0.0	16.7	16.7	0.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	100.0
(4) 35-44	0.0	0.0	0.0	0.0	20.0	60.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	100.0
(5) 45-54	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0	66.7	0.0	0.0	0.0	0.0	100.0
(6) 55-64	0.0	33.3	33.3	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0	0.0	0.0	100.0
(7) 65+	0.0	33.3	0.0	0.0	0.0	0.0	0.0	0.0	66.7	0.0	0.0	0.0	0.0	100.0
TOTAL	0.0	13.2	7.9	7.9	5.3	13.2	2.6	0.0	50.0	0.0	0.0	0.0	0.0	100.0

B

BIVARIATE PERCENTAGES (BASED ON COLUMN TOTALS)

ROW (CONTROL) VARIABLE NO. 342 AGE GROUP	COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											TOTAL		
	Not taken (0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	Negative (8)	(9)	(10)		(11)	WILD
(1) 16-19	0.0	0.0	33.3	0.0	0.0	20.0	0.0	0.0	47.4	0.0	0.0	0.0	0.0	28.9
(2) 20-24	0.0	40.0	33.3	66.7	0.0	0.0	100.0	0.0	5.3	0.0	0.0	0.0	0.0	18.4
(3) 25-34	0.0	20.0	0.0	33.3	50.0	0.0	0.0	0.0	15.8	0.0	0.0	0.0	0.0	15.8
(4) 35-44	0.0	0.0	0.0	0.0	50.0	60.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	13.2
(5) 45-54	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	10.5	0.0	0.0	0.0	0.0	7.9
(6) 55-64	0.0	20.0	33.3	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	7.9
(7) 65+	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	0.0	0.0	0.0	0.0	7.9
TOTAL	0.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0

C

BIVARIATE PERCENTAGES (BASED ON GRAND TOTALS)

ROW (CONTROL) VARIABLE NO. 342 AGE GROUP	COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											TOTAL		
	Not taken (0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	Negative (8)	(9)	(10)		(11)	WILD
(1) 16-19	0.0	0.0	2.6	0.0	0.0	2.6	0.0	0.0	23.7	0.0	0.0	0.0	0.0	28.9
(2) 20-24	0.0	5.3	2.6	5.3	0.0	0.0	2.6	0.0	2.6	0.0	0.0	0.0	0.0	18.4
(3) 25-34	0.0	2.6	0.0	2.6	2.6	0.0	0.0	0.0	7.9	0.0	0.0	0.0	0.0	15.8
(4) 35-44	0.0	0.0	0.0	0.0	2.6	7.9	0.0	0.0	2.6	0.0	0.0	0.0	0.0	13.2
(5) 45-54	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	5.3	0.0	0.0	0.0	0.0	7.9
(6) 55-64	0.0	2.6	2.6	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	7.9
(7) 65+	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	7.9
TOTAL	0.0	13.2	7.9	7.9	5.3	13.2	2.6	0.0	50.0	0.0	0.0	0.0	0.0	100.0

D

TABLE F-4. DISTRIBUTION OF ALL PASSENGERS BY AGE GROUP, B.A.L.

ROW (CONTROL) VARIABLE NO. 342 AGE GROUP	BIVARIATE FREQUENCIES								COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP				
(0)	not taken (1)	.01-04 (2)	.05-09 (3)	10-14 (4)	15-24 (5)	25+ (6)	(7)	Negative (8)	(9)	(10)	(11)	WILD	TOTAL
(1) 16-19	0	0	0	0	0	0	0	3	0	0	0	0	3
(2) 20-24	0	0	0	1	0	0	1	0	0	0	0	0	2
(3) 25-34	0	0	1	0	0	1	1	0	0	0	0	0	3
(4) 35-44	0	0	2	1	0	0	2	0	4	0	0	0	9
(5) 45-54	0	0	0	1	1	4	4	0	2	0	0	0	12
(6) 55-64	0	0	0	0	1	1	0	0	4	0	0	0	6
(7) 65+	0	1	5	0	2	3	0	0	9	0	0	0	20
TOTAL	0	1	8	3	4	9	8	0	22	0	0	0	55

A

BIVARIATE PERCENTAGES (BASED ON ROW TOTALS)

ROW (CONTROL) VARIABLE NO. 342 AGE GROUP	BIVARIATE PERCENTAGES (BASED ON ROW TOTALS)								COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP				
(0)	not taken (1)	.01-04 (2)	.05-09 (3)	10-14 (4)	15-24 (5)	25+ (6)	(7)	Negative (8)	(9)	(10)	(11)	WILD	TOTAL
(1) 16-19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0
(2) 20-24	0.0	0.0	0.0	50.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	100.0
(3) 25-34	0.0	0.0	33.3	0.0	0.0	33.3	33.3	0.0	0.0	0.0	0.0	0.0	100.0
(4) 35-44	0.0	0.0	22.2	11.1	0.0	0.0	22.2	0.0	44.4	0.0	0.0	0.0	100.0
(5) 45-54	0.0	0.0	0.0	8.3	8.3	33.3	33.3	0.0	16.7	0.0	0.0	0.0	100.0
(6) 55-64	0.0	0.0	0.0	0.0	16.7	16.7	0.0	0.0	66.7	0.0	0.0	0.0	100.0
(7) 65+	0.0	5.0	25.0	0.0	10.0	15.0	0.0	0.0	45.0	0.0	0.0	0.0	100.0
TOTAL	0.0	1.8	14.5	5.5	7.3	16.4	14.5	0.0	40.0	0.0	0.0	0.0	100.0

B

BIVARIATE PERCENTAGES (BASED ON COLUMN TOTALS)

ROW (CONTROL) VARIABLE NO. 342 AGE GROUP	BIVARIATE PERCENTAGES (BASED ON COLUMN TOTALS)								COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP				
(0)	not taken (1)	.01-04 (2)	.05-09 (3)	10-14 (4)	15-24 (5)	25+ (6)	(7)	Negative (8)	(9)	(10)	(11)	WILD	TOTAL
(1) 16-19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6	0.0	0.0	0.0	0.0	5.5
(2) 20-24	0.0	0.0	0.0	33.3	0.0	0.0	12.5	0.0	0.0	0.0	0.0	0.0	3.6
(3) 25-34	0.0	0.0	12.5	0.0	0.0	11.1	12.5	0.0	0.0	0.0	0.0	0.0	5.5
(4) 35-44	0.0	0.0	25.0	33.3	0.0	0.0	25.0	0.0	18.2	0.0	0.0	0.0	16.4
(5) 45-54	0.0	0.0	0.0	33.3	25.0	44.4	50.0	0.0	9.1	0.0	0.0	0.0	21.8
(6) 55-64	0.0	0.0	0.0	0.0	25.0	11.1	0.0	0.0	18.2	0.0	0.0	0.0	10.9
(7) 65+	0.0	100.0	62.5	0.0	50.0	33.3	0.0	0.0	40.9	0.0	0.0	0.0	36.4
TOTAL	0.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	0.0	0.0	0.0	100.0

C

BIVARIATE PERCENTAGES (BASED ON GRAND TOTALS)

ROW (CONTROL) VARIABLE NO. 342 AGE GROUP	BIVARIATE PERCENTAGES (BASED ON GRAND TOTALS)								COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP				
(0)	not taken (1)	.01-04 (2)	.05-09 (3)	10-14 (4)	15-24 (5)	25+ (6)	(7)	Negative (8)	(9)	(10)	(11)	WILD	TOTAL
(1) 16-19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0	5.5
(2) 20-24	0.0	0.0	0.0	1.8	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	3.6
(3) 25-34	0.0	0.0	1.8	0.0	0.0	1.8	1.8	0.0	0.0	0.0	0.0	0.0	5.5
(4) 35-44	0.0	0.0	3.6	1.8	0.0	0.0	3.6	0.0	7.3	0.0	0.0	0.0	16.4
(5) 45-54	0.0	0.0	0.0	1.8	1.8	7.3	7.3	0.0	3.6	0.0	0.0	0.0	21.8
(6) 55-64	0.0	0.0	0.0	0.0	1.8	1.8	0.0	0.0	7.3	0.0	0.0	0.0	10.9
(7) 65+	0.0	1.8	9.1	0.0	3.6	5.5	0.0	0.0	16.4	0.0	0.0	0.0	36.4
TOTAL	0.0	1.8	14.5	5.5	7.3	16.4	14.5	0.0	40.0	0.0	0.0	0.0	100.0

D

TABLE F-5. DISTRIBUTION OF ALL PEDESTRIANS BY AGE GROUP, B.A.L.

BLOOD ALCOHOL DATA TABLE # 20 NO FILT PAGE # 17

BIVARIATE FREQUENCIES

ROW (CONTROL) VARIABLE NO. STATUS ON ROAD	COLUMN (SPREAD) VARIABLE NO. 323 MARITAL STATUS											WILD	TOTAL	
(0)	Married (1)	Single (2)	Divorced (3)	Separated (4)	Widowed (5)	(6)	(7)	(8)	(9)	(10)	(11)			
(1) Driver	0	50	23	7	1	3	0	0	0	0	0	0	0	84
(2) Pass.	0	17	16	1	2	2	0	0	0	0	0	0	0	38
(3) Pedest.	0	20	18	5	4	8	0	0	0	0	0	0	0	55
TOTAL	0	87	57	13	7	13	0	0	0	0	0	0	0	177

A

BLOOD ALCOHOL DATA TABLE # 20 NO FILT PAGE # 18

BIVARIATE PERCENTAGES (BASED ON ROW TOTALS)

ROW (CONTROL) VARIABLE NO. STATUS ON ROAD	COLUMN (SPREAD) VARIABLE NO. 323 MARITAL STATUS											WILD	TOTAL	
(0)	Married (1)	Single (2)	Divorced (3)	Separated (4)	Widowed (5)	(6)	(7)	(8)	(9)	(10)	(11)			
(1) Driver	0.0	59.5	27.4	8.3	1.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
(2) Pass.	0.0	44.7	42.1	2.6	5.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
(3) Pedest.	0.0	36.4	32.7	9.1	7.3	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
TOTAL	0.0	49.2	32.2	7.3	4.0	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0

B

BLOOD ALCOHOL DATA TABLE # 20 NO FILT PAGE # 19

BIVARIATE PERCENTAGES (BASED ON COLUMN TOTALS)

ROW (CONTROL) VARIABLE NO. STATUS ON ROAD	COLUMN (SPREAD) VARIABLE NO. 323 MARITAL STATUS											WILD	TOTAL	
(0)	Married (1)	Single (2)	Divorced (3)	Separated (4)	Widowed (5)	(6)	(7)	(8)	(9)	(10)	(11)			
(1) Driver	0.0	57.5	40.4	53.8	14.3	23.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5
(2) Pass.	0.0	19.5	23.1	7.7	28.6	15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.5
(3) Pedest.	0.0	23.0	31.6	38.5	57.1	61.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.1
TOTAL	0.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0

C

BLOOD ALCOHOL DATA TABLE # 20 NO FILT PAGE # 20

BIVARIATE PERCENTAGES (BASED ON GRAND TOTALS)

ROW (CONTROL) VARIABLE NO. STATUS ON ROAD	COLUMN (SPREAD) VARIABLE NO. 323 MARITAL STATUS											WILD	TOTAL	
(0)	married (1)	single (2)	divorced (3)	separated (4)	widowed (5)	(6)	(7)	(8)	(9)	(10)	(11)			
(1) driver	0.0	28.2	13.0	4.0	0.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5
(2) pass.	0.0	9.6	9.0	0.6	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.5
(3) pedest.	0.0	11.3	10.2	2.8	2.3	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.1
TOTAL	0.0	49.2	32.2	7.3	4.0	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0

D

TABLE F-6. DISTRIBUTION OF ALL FATALITIES BY ROAD STATUS, MARITAL STATUS



BIVARIATE FREQUENCIES

ROW (CONTROL) VARIABLE NO. 323 MARITAL STATUS		COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											
	not taken	.01-04	.05-09	10-14	15-24	25+	Negative	(9)	(10)	(11)	WILD	TOTAL	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		
(1) Married	0	1	2	0	5	18	7	0	17	0	0	0	50
(2) Single	0	0	3	2	5	5	4	0	4	0	0	0	23
(3) Divorced	0	0	1	0	1	3	2	0	0	0	0	0	7
(4) Separated	0	0	0	0	0	1	0	0	0	0	0	0	1
(5) Widowed	0	0	0	0	1	0	1	0	1	0	0	0	3
TOTAL	0	1	6	2	12	27	14	0	22	0	0	0	84

A

BIVARIATE PERCENTAGES (BASED ON ROW TOTALS)

ROW (CONTROL) VARIABLE NO. 323 MARITAL STATUS		COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											
	not taken	.01-04	.05-09	10-14	15-24	25+	Negative	(9)	(10)	(11)	WILD	TOTAL	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		
(1) Married	0.0	2.0	4.0	0.0	10.0	36.0	14.0	0.0	34.0	0.0	0.0	0.0	100.0
(2) Single	0.0	0.0	13.0	8.7	21.7	21.7	17.4	0.0	17.4	0.0	0.0	0.0	100.0
(3) Divorced	0.0	0.0	14.3	0.0	14.3	42.9	28.6	0.0	0.0	0.0	0.0	0.0	100.0
(4) Separated	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
(5) Widowed	0.0	0.0	0.0	0.0	33.3	0.0	33.3	0.0	33.3	0.0	0.0	0.0	100.0
TOTAL	0.0	1.2	7.1	2.4	14.3	32.1	16.7	0.0	26.2	0.0	0.0	0.0	100.0

B

BIVARIATE PERCENTAGES (BASED ON COLUMN TOTALS)

ROW (CONTROL) VARIABLE NO. 323 MARITAL STATUS		COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											
	not taken	.01-04	.05-09	10-14	15-24	25+	Negative	(9)	(10)	(11)	WILD	TOTAL	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		
(1) Married	0.0	100.0	33.3	0.0	41.7	66.7	50.0	0.0	77.3	0.0	0.0	0.0	59.5
(2) Single	0.0	0.0	50.0	100.0	41.7	18.5	28.6	0.0	18.2	0.0	0.0	0.0	27.4
(3) Divorced	0.0	0.0	16.7	0.0	8.3	11.1	14.3	0.0	0.0	0.0	0.0	0.0	8.3
(4) Separated	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	1.2
(5) Widowed	0.0	0.0	0.0	0.0	8.3	0.0	7.1	0.0	4.5	0.0	0.0	0.0	3.6
TOTAL	0.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	0.0	0.0	0.0	100.0

C

BIVARIATE PERCENTAGES (BASED ON GRAND TOTALS)

ROW (CONTROL) VARIABLE NO. 323 MARITAL STATUS		COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											
	not taken	.01-04	.05-09	10-14	15-24	25+	Negative	(9)	(10)	(11)	WILD	TOTAL	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		
(1) Married	0.0	1.2	2.4	0.0	6.0	21.4	8.3	0.0	20.2	0.0	0.0	0.0	59.5
(2) Single	0.0	0.0	3.6	2.4	6.0	6.0	4.8	0.0	4.8	0.0	0.0	0.0	27.4
(3) Divorced	0.0	0.0	1.2	0.0	1.2	3.6	2.4	0.0	0.0	0.0	0.0	0.0	8.3
(4) Separated	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	1.2
(5) Widowed	0.0	0.0	0.0	0.0	1.2	0.0	1.2	0.0	1.2	0.0	0.0	0.0	3.6
TOTAL	0.0	1.2	7.1	2.4	14.3	32.1	16.7	0.0	26.2	0.0	0.0	0.0	100.0

D

TABLE F-7. DISTRIBUTION OF ALL DRIVERS BY MARITAL STATUS, B.A.L.

BIVARIATE FREQUENCIES

ROW (CONTROL) VARIABLE NO. 323 MARITAL STATUS		COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP												
	not taken	.01-04	.05-09	.10-14	.15-24	.25+	Negative					WILD	TOTAL	
( 0)	( 1)	( 2)	( 3)	( 4)	( 5)	( 6)	( 7)	( 8)	( 9)	( 10)	( 11)			
( 1) Married	0	3	1	1	2	1	0	0	9	0	0	0	0	17
( 2) Single	0	0	2	2	0	1	1	0	10	0	0	0	0	16
( 3) Divorced	0	0	0	0	0	1	0	0	0	0	0	0	0	1
( 4) Separated	0	0	0	0	0	2	0	0	0	0	0	0	0	2
( 5) Widowed	0	2	0	0	0	0	0	0	0	0	0	0	0	2
TOTAL	0	5	3	3	2	5	1	0	19	0	0	0	0	38

A

BIVARIATE PERCENTAGES (BASED ON ROW TOTALS)

ROW (CONTROL) VARIABLE NO. 323 MARITAL STATUS		COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP												
	not taken	.01-04	.05-09	.10-14	.15-24	.25+	Negative					WILD	TOTAL	
( 0)	( 1)	( 2)	( 3)	( 4)	( 5)	( 6)	( 7)	( 8)	( 9)	( 10)	( 11)			
( 1) Married	0.0	17.6	5.9	5.9	11.8	5.9	0.0	0.0	52.9	0.0	0.0	0.0	0.0	100.0
( 2) Single	0.0	0.0	12.5	12.5	0.0	6.2	6.2	0.0	62.5	0.0	0.0	0.0	0.0	100.0
( 3) Divorced	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
( 4) Separated	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
( 5) Widowed	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
TOTAL	0.0	13.2	7.9	7.9	5.3	13.2	2.6	0.0	50.0	0.0	0.0	0.0	0.0	100.0

B

BIVARIATE PERCENTAGES (BASED ON COLUMN TOTALS)

ROW (CONTROL) VARIABLE NO. 323 MARITAL STATUS		COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP												
	not taken	.01-04	.05-09	.10-14	.15-24	.25+	Negative					WILD	TOTAL	
( 0)	( 1)	( 2)	( 3)	( 4)	( 5)	( 6)	( 7)	( 8)	( 9)	( 10)	( 11)			
( 1) Married	0.0	60.0	33.3	33.3	100.0	20.0	0.0	0.0	47.4	0.0	0.0	0.0	0.0	44.7
( 2) Single	0.0	0.0	66.7	66.7	0.0	20.0	100.0	0.0	52.6	0.0	0.0	0.0	0.0	42.1
( 3) Divorced	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
( 4) Separated	0.0	0.0	0.0	0.0	0.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3
( 5) Widowed	0.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3
TOTAL	0.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	100.0

C

BIVARIATE PERCENTAGES (BASED ON GRAND TOTALS)

ROW (CONTROL) VARIABLE NO. 323 MARITAL STATUS		COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP												
	not taken	.01-04	.05-09	.10-14	.15-24	.25+	Negative					WILD	TOTAL	
( 0)	( 1)	( 2)	( 3)	( 4)	( 5)	( 6)	( 7)	( 8)	( 9)	( 10)	( 11)			
( 1) Married	0.0	7.9	2.6	2.6	5.3	2.6	0.0	0.0	23.7	0.0	0.0	0.0	0.0	44.7
( 2) Single	0.0	0.0	5.3	5.3	0.0	2.6	2.6	0.0	26.3	0.0	0.0	0.0	0.0	42.1
( 3) Divorced	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
( 4) Separated	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3
( 5) Widowed	0.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3
TOTAL	0.0	13.2	7.9	7.9	5.3	13.2	2.6	0.0	50.0	0.0	0.0	0.0	0.0	100.0

D

TABLE F-8. DISTRIBUTION OF ALL PASSENGERS BY MARITAL STATUS, B.A.L.

BLOOD ALCOHOL DATA													TABLE # 33 PEDESTRI PAGE # 9	
BIVARIATE FREQUENCIES														
ROW (CONTROL) VARIABLE NO. 323													COLUMN (SPREAD) VARIABLE NO. 337	
MARITAL STATUS													BLOOD GROUP	
(0)	not taken (1)	.01-04 (2)	.05-09 (3)	.10-14 (4)	.15-24 (5)	.25+ (6)	(7)	Negative (8)	(9)	(10)	(11)	WILD	TOTAL	
(1) Married	0	1	5	1	1	2	4	0	6	0	0	0	20	
(2) Single	0	0	2	1	0	5	3	0	7	0	0	0	18	
(3) Divorced	0	0	0	0	1	0	0	0	4	0	0	0	5	
(4) Separated	0	0	1	1	0	1	1	0	0	0	0	0	4	
(5) Widowed	0	0	0	0	2	1	0	0	5	0	0	0	8	
TOTAL	0	1	8	3	4	9	8	0	22	0	0	0	55	
BIVARIATE PERCENTAGES (BASED ON ROW TOTALS)														
ROW (CONTROL) VARIABLE NO. 323													COLUMN (SPREAD) VARIABLE NO. 337	
MARITAL STATUS													BLOOD GROUP	
(0)	not taken (1)	.01-04 (2)	.05-09 (3)	.10-14 (4)	.15-24 (5)	.25+ (6)	(7)	Negative (8)	(9)	(10)	(11)	WILD	TOTAL	
(1) Married	0.0	5.0	25.0	5.0	5.0	10.0	20.0	0.0	30.0	0.0	0.0	0.0	100.0	
(2) Single	0.0	0.0	11.1	5.6	0.0	27.8	16.7	0.0	38.9	0.0	0.0	0.0	100.0	
(3) Divorced	0.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	80.0	0.0	0.0	0.0	100.0	
(4) Separated	0.0	0.0	25.0	25.0	0.0	25.0	25.0	0.0	0.0	0.0	0.0	0.0	100.0	
(5) Widowed	0.0	0.0	0.0	0.0	25.0	12.5	0.0	0.0	62.5	0.0	0.0	0.0	100.0	
TOTAL	0.0	1.8	14.5	5.5	7.3	16.4	14.5	0.0	40.0	0.0	0.0	0.0	100.0	
BIVARIATE PERCENTAGES (BASED ON COLUMN TOTALS)														
ROW (CONTROL) VARIABLE NO. 323													COLUMN (SPREAD) VARIABLE NO. 337	
MARITAL STATUS													BLOOD GROUP	
(0)	not taken (1)	.01-04 (2)	.05-09 (3)	.10-14 (4)	.15-24 (5)	.25+ (6)	(7)	Negative (8)	(9)	(10)	(11)	WILD	TOTAL	
(1) Married	0.0	100.0	62.5	33.3	25.0	22.2	50.0	0.0	27.3	0.0	0.0	0.0	36.4	
(2) Single	0.0	0.0	25.0	33.3	0.0	55.6	37.5	0.0	31.8	0.0	0.0	0.0	32.7	
(3) Divorced	0.0	0.0	0.0	0.0	25.0	0.0	0.0	0.0	18.2	0.0	0.0	0.0	9.1	
(4) Separated	0.0	0.0	12.5	33.3	0.0	11.1	12.5	0.0	0.0	0.0	0.0	0.0	7.3	
(5) Widowed	0.0	0.0	0.0	0.0	50.0	11.1	0.0	0.0	22.7	0.0	0.0	0.0	14.5	
TOTAL	0.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	0.0	0.0	0.0	100.0	
BIVARIATE PERCENTAGES (BASED ON GRAND TOTALS)														
ROW (CONTROL) VARIABLE NO. 323													COLUMN (SPREAD) VARIABLE NO. 337	
MARITAL STATUS													BLOOD GROUP	
(0)	not taken (1)	.01-04 (2)	.05-09 (3)	.10-14 (4)	.15-24 (5)	.25+ (6)	(7)	Negative (8)	(9)	(10)	(11)	WILD	TOTAL	
(1) Married	0.0	1.8	9.1	1.8	1.8	3.6	7.3	0.0	10.9	0.0	0.0	0.0	36.4	
(2) Single	0.0	0.0	3.6	1.8	0.0	9.1	5.5	0.0	12.7	0.0	0.0	0.0	32.7	
(3) Divorced	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	7.3	0.0	0.0	0.0	9.1	
(4) Separated	0.0	0.0	1.8	1.8	0.0	1.8	1.8	0.0	0.0	0.0	0.0	0.0	7.3	
(5) Widowed	0.0	0.0	0.0	0.0	3.6	1.8	0.0	0.0	9.1	0.0	0.0	0.0	14.5	
TOTAL	0.0	1.8	14.5	5.5	7.3	16.4	14.5	0.0	40.0	0.0	0.0	0.0	100.0	

A

B

C

D

TABLE F-9. DISTRIBUTION OF ALL PEDESTRIANS BY MARITAL STATUS, B.A.L.

BIVARIATE FREQUENCIES

ROW (CONTROL) VARIABLE NO. 323 MARITAL STATUS	COLUMN (SPREAD) VARIABLE NO. 322 RACE											WILD	TOTAL	
	White ( 0) ( 1)	Negro ( 2)	( 3)	( 4)	( 5)	( 6)	( 7)	( 8)	( 9)	( 10)	( 11)			
( 1) Married	0	38	12	0	0	0	0	0	0	0	0	0	0	50
( 2) Single	0	17	6	0	0	0	0	0	0	0	0	0	0	23
( 3) Divorced	0	4	3	0	0	0	0	0	0	0	0	0	0	7
( 4) Separated	0	0	1	0	0	0	0	0	0	0	0	0	0	1
( 5) Widowed	0	1	2	0	0	0	0	0	0	0	0	0	0	3
TOTAL	0	60	24	0	0	0	0	0	0	0	0	0	0	84

A

BIVARIATE PERCENTAGES (BASED ON ROW TOTALS)

ROW (CONTROL) VARIABLE NO. 323 MARITAL STATUS	COLUMN (SPREAD) VARIABLE NO. 322 RACE											WILD	TOTAL	
	White ( 0) ( 1)	Negro ( 2)	( 3)	( 4)	( 5)	( 6)	( 7)	( 8)	( 9)	( 10)	( 11)			
( 1) Married	0.0	76.0	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
( 2) Single	0.0	73.9	26.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
( 3) Divorced	0.0	57.1	42.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
( 4) Separated	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
( 5) Widowed	0.0	33.3	66.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
TOTAL	0.0	71.4	28.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0

B

BIVARIATE PERCENTAGES (BASED ON COLUMN TOTALS)

ROW (CONTROL) VARIABLE NO. 323 MARITAL STATUS	COLUMN (SPREAD) VARIABLE NO. 322 RACE											WILD	TOTAL	
	White ( 0) ( 1)	Negro ( 2)	( 3)	( 4)	( 5)	( 6)	( 7)	( 8)	( 9)	( 10)	( 11)			
( 1) Married	0.0	63.3	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.5
( 2) Single	0.0	28.3	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.4
( 3) Divorced	0.0	6.7	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
( 4) Separated	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
( 5) Widowed	0.0	1.7	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
TOTAL	0.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0

C

BIVARIATE PERCENTAGES (BASED ON GRAND TOTALS)

ROW (CONTROL) VARIABLE NO. 323 MARITAL STATUS	COLUMN (SPREAD) VARIABLE NO. 322 RACE											WILD	TOTAL	
	White ( 0) ( 1)	Negro ( 2)	( 3)	( 4)	( 5)	( 6)	( 7)	( 8)	( 9)	( 10)	( 11)			
( 1) Married	0.0	45.2	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.5
( 2) Single	0.0	20.2	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.4
( 3) Divorced	0.0	4.8	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
( 4) Separated	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
( 5) Widowed	0.0	1.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
TOTAL	0.0	71.4	28.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0

D

TABLE F-10. DISTRIBUTION OF ALL DRIVERS BY MARITAL STATUS, RACE

BLOOD ALCOHOL DATA													TABLE #	39	PASS	PAGE #	1
BIVARIATE FREQUENCIES																	
ROW (CONTROL) VARIABLE NO.	MARITAL STATUS												COLUMN (SPREAD) VARIABLE NO. 322				
	White						Negro						RACE				
	( 0 )	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	WILD	TOTAL			
( 1 ) Married	0	13	4	0	0	0	0	0	0	0	0	0	0	17			
( 2 ) Single	0	15	1	0	0	0	0	0	0	0	0	0	0	16			
( 3 ) Divorced	0	0	1	0	0	0	0	0	0	0	0	0	0	1			
( 4 ) Separated	0	2	0	0	0	0	0	0	0	0	0	0	0	2			
( 5 ) Widowed	0	2	0	0	0	0	0	0	0	0	0	0	0	2			
TOTAL	0	32	6	0	0	0	0	0	0	0	0	0	0	38			

A

BLOOD ALCOHOL DATA													TABLE #	39	PASS	PAGE #	2
BIVARIATE PERCENTAGES (BASED ON ROW TOTALS)																	
ROW (CONTROL) VARIABLE NO.	MARITAL STATUS												COLUMN (SPREAD) VARIABLE NO. 322				
	White						Negro						RACE				
	( 0 )	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	WILD	TOTAL			
( 1 ) Married	0.0	76.5	23.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			
( 2 ) Single	0.0	93.8	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			
( 3 ) Divorced	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			
( 4 ) Separated	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			
( 5 ) Widowed	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			
TOTAL	0.0	84.2	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			

B

BLOOD ALCOHOL DATA													TABLE #	39	PASS	PAGE #	3
BIVARIATE PERCENTAGES (BASED ON COLUMN TOTALS)																	
ROW (CONTROL) VARIABLE NO.	MARITAL STATUS												COLUMN (SPREAD) VARIABLE NO. 322				
	White						Negro						RACE				
	( 0 )	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	WILD	TOTAL			
( 1 ) Married	0.0	40.6	66.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.7			
( 2 ) Single	0.0	46.9	16.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.1			
( 3 ) Divorced	0.0	0.0	16.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6			
( 4 ) Separated	0.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3			
( 5 ) Widowed	0.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3			
TOTAL	0.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			

C

BLOOD ALCOHOL DATA													TABLE #	39	PASS	PAGE #	4
BIVARIATE PERCENTAGES (BASED ON GRAND TOTALS)																	
ROW (CONTROL) VARIABLE NO.	MARITAL STATUS												COLUMN (SPREAD) VARIABLE NO. 322				
	White						Negro						RACE				
	( 0 )	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	WILD	TOTAL			
( 1 ) Married	0.0	34.2	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.7			
( 2 ) Single	0.0	39.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.1			
( 3 ) Divorced	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6			
( 4 ) Separated	0.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3			
( 5 ) Widowed	0.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3			
TOTAL	0.0	84.2	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			

D

TABLE F-11. DISTRIBUTION OF ALL PASSENGERS BY MARITAL STATUS, RACE

BLOOD ALCOHOL DATA														TABLE # 34 PEDEST PAGE # 9
BIVARIATE FREQUENCIES														
ROW (CONTROL) VARIABLE NO. 323	COLUMN (SPREAD) VARIABLE NO. 322													
MARITAL STATUS	RACE													
	(0)	White (1)	Negro (2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	WILD	TOTAL
(1) Married	0	14	6	0	0	0	0	0	0	0	0	0	0	20
(2) Single	0	14	4	0	0	0	0	0	0	0	0	0	0	18
(3) Divorced	0	4	1	0	0	0	0	0	0	0	0	0	0	5
(4) Separated	0	3	1	0	0	0	0	0	0	0	0	0	0	4
(5) Widowed	0	8	0	0	0	0	0	0	0	0	0	0	0	8
TOTAL	0	43	12	0	0	0	0	0	0	0	0	0	0	55

A

BLOOD ALCOHOL DATA														TABLE # 34 PEDEST PAGE # 10
BIVARIATE PERCENTAGES (BASED ON ROW TOTALS)														
ROW (CONTROL) VARIABLE NO. 323	COLUMN (SPREAD) VARIABLE NO. 322													
MARITAL STATUS	RACE													
	(0)	White (1)	Negro (2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	WILD	TOTAL
(1) Married	0.0	70.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
(2) Single	0.0	77.8	22.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
(3) Divorced	0.0	80.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
(4) Separated	0.0	75.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
(5) Widowed	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
TOTAL	0.0	78.2	21.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0

B

BLOOD ALCOHOL DATA														TABLE # 34 PEDEST PAGE # 11
BIVARIATE PERCENTAGES (BASED ON COLUMN TOTALS)														
ROW (CONTROL) VARIABLE NO. 323	COLUMN (SPREAD) VARIABLE NO. 322													
MARITAL STATUS	RACE													
	(0)	White (1)	Negro (2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	WILD	TOTAL
(1) Married	0.0	32.6	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.4
(2) Single	0.0	32.6	33.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.7
(3) Divorced	0.0	9.3	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1
(4) Separated	0.0	7.0	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3
(5) Widowed	0.0	18.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5
TOTAL	0.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0

C

BLOOD ALCOHOL DATA														TABLE # 34 PEDEST PAGE # 12
BIVARIATE PERCENTAGES (BASED ON GRAND TOTALS)														
ROW (CONTROL) VARIABLE NO. 323	COLUMN (SPREAD) VARIABLE NO. 322													
MARITAL STATUS	RACE													
	(0)	White (1)	Negro (2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	WILD	TOTAL
(1) married	0.0	25.5	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.4
(2) single	0.0	25.5	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.7
(3) divorced	0.0	7.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1
(4) separated	0.0	5.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3
(5) widowed	0.0	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5
TOTAL	0.0	78.2	21.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0

D

TABLE F-12. DISTRIBUTION OF ALL PEDESTRIANS BY MARITAL STATUS, RACE

ROW (CONTROL) VARIABLE NO. 342 AGE GROUP		COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											
(0)	not taken (1)	.01-04 (2)	.05-09 (3)	.10-14 (4)	.15-24 (5)	.25+ (6)	(7)	Negative (8)	(9)	(10)	(11)	WILD	TOTAL
(1) 16-19	0	0	0	0	0	0	0	1	0	0	0	0	1
(2) 20-24	0	0	0	0	0	2	0	0	0	0	0	0	2
(3) 25-34	0	0	0	0	1	1	0	1	0	0	0	0	3
(4) 35-44	0	0	0	1	1	3	0	3	0	0	0	0	8
(5) 45-54	0	0	0	3	4	3	0	2	0	0	0	0	12
(6) 55-64	0	0	1	2	2	0	0	2	0	0	0	0	7
(7) 65+	0	1	2	0	2	0	0	4	0	0	0	0	9
TOTAL	0	1	3	6	10	9	0	13	0	0	0	0	42

A

BIVARIATE PERCENTAGES (BASED ON ROW TOTALS)

ROW (CONTROL) VARIABLE NO. 342 AGE GROUP		COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											
(0)	not taken (1)	.01-04 (2)	.05-09 (3)	.10-14 (4)	.15-24 (5)	.25+ (6)	(7)	Negative (8)	(9)	(10)	(11)	WILD	TOTAL
(1) 16-19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0
(2) 20-24	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
(3) 25-34	0.0	0.0	0.0	0.0	33.3	33.3	0.0	33.3	0.0	0.0	0.0	0.0	100.0
(4) 35-44	0.0	0.0	0.0	12.5	12.5	37.5	0.0	37.5	0.0	0.0	0.0	0.0	100.0
(5) 45-54	0.0	0.0	0.0	25.0	33.3	25.0	0.0	16.7	0.0	0.0	0.0	0.0	100.0
(6) 55-64	0.0	0.0	14.3	28.6	28.6	0.0	0.0	28.6	0.0	0.0	0.0	0.0	100.0
(7) 65+	0.0	11.1	22.2	0.0	22.2	0.0	0.0	44.4	0.0	0.0	0.0	0.0	100.0
TOTAL	0.0	2.4	7.1	14.3	23.8	21.4	0.0	31.0	0.0	0.0	0.0	0.0	100.0

B

BIVARIATE PERCENTAGES (BASED ON COLUMN TOTALS)

ROW (CONTROL) VARIABLE NO. 342 AGE GROUP		COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											
(0)	not taken (1)	.01-04 (2)	.05-09 (3)	.10-14 (4)	.15-24 (5)	.25+ (6)	(7)	Negative (8)	(9)	(10)	(11)	WILD	TOTAL
(1) 16-19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	0.0	0.0	0.0	0.0	2.4
(2) 20-24	0.0	0.0	0.0	0.0	0.0	22.2	0.0	0.0	0.0	0.0	0.0	0.0	4.8
(3) 25-34	0.0	0.0	0.0	0.0	16.0	11.1	0.0	7.7	0.0	0.0	0.0	0.0	7.1
(4) 35-44	0.0	0.0	0.0	16.7	10.0	33.3	0.0	23.1	0.0	0.0	0.0	0.0	19.0
(5) 45-54	0.0	0.0	0.0	50.0	40.0	33.3	0.0	15.4	0.0	0.0	0.0	0.0	28.6
(6) 55-64	0.0	0.0	33.3	33.3	20.0	0.0	0.0	15.4	0.0	0.0	0.0	0.0	16.7
(7) 65+	0.0	100.0	66.7	0.0	0.0	0.0	0.0	30.8	0.0	0.0	0.0	0.0	21.4
TOTAL	0.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0

C

BIVARIATE PERCENTAGES (BASED ON GRAND TOTALS)

ROW (CONTROL) VARIABLE NO. 342 AGE GROUP		COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											
(0)	not taken (1)	.01-04 (2)	.05-09 (3)	.10-14 (4)	.15-24 (5)	.25+ (6)	(7)	Negative (8)	(9)	(10)	(11)	WILD	TOTAL
(1) 16-19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	2.4
(2) 20-24	0.0	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	4.8
(3) 25-34	0.0	0.0	0.0	0.0	2.4	2.4	0.0	2.4	0.0	0.0	0.0	0.0	7.1
(4) 35-44	0.0	0.0	0.0	2.4	2.4	7.1	0.0	7.1	0.0	0.0	0.0	0.0	19.0
(5) 45-54	0.0	0.0	0.0	7.1	9.5	7.1	0.0	4.8	0.0	0.0	0.0	0.0	28.6
(6) 55-64	0.0	0.0	2.4	4.8	4.8	0.0	0.0	4.8	0.0	0.0	0.0	0.0	16.7
(7) 65+	0.0	2.4	4.8	0.0	4.8	0.0	0.0	9.5	0.0	0.0	0.0	0.0	21.4
TOTAL	0.0	2.4	7.1	14.3	23.8	21.4	0.0	31.0	0.0	0.0	0.0	0.0	100.0

D

TABLE F-13. DISTRIBUTION OF ALL FATALITIES WITH FATTY LIVERS BY AGE GROUP, B. A. L.

ROW (CONTROL) VARIABLE NO. 342 AGE GROUP		COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											
(0)	not taken (1)	.01-04 (2)	.05-09 (3)	.10-14 (4)	.15-24 (5)	.25+ (6)	(7)	Negative (8)	(9)	(10)	(11)	WILD	TOTAL
(1) 16-19	0	0	3	1	1	1	1	0	13	0	0	0	20
(2) 20-24	0	2	2	4	2	7	2	0	3	0	0	0	22
(3) 25-34	0	1	1	1	5	7	2	0	3	0	0	0	20
(4) 35-44	0	0	2	1	1	4	3	0	5	0	0	0	16
(5) 45-54	0	0	2	1	1	6	5	0	7	0	0	0	22
(6) 55-64	0	1	1	0	0	4	1	0	7	0	0	0	14
(7) 65+	0	2	3	0	2	2	0	0	12	0	0	0	21
TOTAL	0	6	14	8	12	31	14	0	50	0	0	0	135

A

BIVARIATE PERCENTAGES (BASED ON ROW TOTALS)

ROW (CONTROL) VARIABLE NO. 342 AGE GROUP		COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											
(0)	not taken (1)	.01-04 (2)	.05-09 (3)	.10-14 (4)	.15-24 (5)	.25+ (6)	(7)	Negative (8)	(9)	(10)	(11)	WILD	TOTAL
(1) 16-19	0.0	0.0	15.0	5.0	5.0	5.0	5.0	0.0	65.0	0.0	0.0	0.0	100.0
(2) 20-24	0.0	9.1	9.1	18.2	9.1	31.8	9.1	0.0	13.6	0.0	0.0	0.0	100.0
(3) 25-34	0.0	5.0	5.0	5.0	25.0	35.0	10.0	0.0	15.0	0.0	0.0	0.0	100.0
(4) 35-44	0.0	0.0	12.5	6.2	6.2	25.0	18.8	0.0	31.3	0.0	0.0	0.0	100.0
(5) 45-54	0.0	0.0	9.1	4.5	4.5	27.3	22.7	0.0	31.8	0.0	0.0	0.0	100.0
(6) 55-64	0.0	7.1	7.1	0.0	0.0	28.6	7.1	0.0	50.0	0.0	0.0	0.0	100.0
(7) 65+	0.0	9.5	14.3	0.0	9.5	9.5	0.0	0.0	57.1	0.0	0.0	0.0	100.0
TOTAL	0.0	4.4	10.4	5.9	8.9	23.0	10.4	0.0	37.0	0.0	0.0	0.0	100.0

B

BIVARIATE PERCENTAGES (BASED ON COLUMN TOTALS)

ROW (CONTROL) VARIABLE NO. 342 AGE GROUP		COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											
(0)	not taken (1)	.01-04 (2)	.05-09 (3)	.10-14 (4)	.15-24 (5)	.25+ (6)	(7)	Negative (8)	(9)	(10)	(11)	WILD	TOTAL
(1) 16-19	0.0	0.0	21.4	12.5	8.3	3.2	7.1	0.0	26.0	0.0	0.0	0.0	14.8
(2) 20-24	0.0	33.3	14.3	50.0	16.7	22.6	14.3	0.0	6.0	0.0	0.0	0.0	16.3
(3) 25-34	0.0	16.7	7.1	12.5	41.7	22.6	14.3	0.0	6.0	0.0	0.0	0.0	14.8
(4) 35-44	0.0	0.0	14.3	12.5	8.3	12.9	21.4	0.0	10.0	0.0	0.0	0.0	11.9
(5) 45-54	0.0	0.0	14.3	12.5	8.3	19.4	35.7	0.0	14.0	0.0	0.0	0.0	16.3
(6) 55-64	0.0	16.7	7.1	0.0	0.0	12.9	7.1	0.0	14.0	0.0	0.0	0.0	10.4
(7) 65+	0.0	33.3	21.4	0.0	16.7	6.5	0.0	0.0	24.0	0.0	0.0	0.0	15.6
TOTAL	0.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	0.0	0.0	0.0	100.0

C

BIVARIATE PERCENTAGES (BASED ON GRAND TOTALS)

ROW (CONTROL) VARIABLE NO. 342 AGE GROUP		COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											
(0)	not taken (1)	.01-04 (2)	.05-09 (3)	.10-14 (4)	.15-24 (5)	.25+ (6)	(7)	Negative (8)	(9)	(10)	(11)	WILD	TOTAL
(1) 16-19	0.0	0.0	2.2	0.7	0.7	0.7	0.7	0.0	9.6	0.0	0.0	0.0	14.8
(2) 20-24	0.0	1.5	1.5	3.0	1.5	5.2	1.5	0.0	2.2	0.0	0.0	0.0	16.3
(3) 25-34	0.0	0.7	0.7	0.7	3.7	5.2	1.5	0.0	2.2	0.0	0.0	0.0	14.8
(4) 35-44	0.0	0.0	1.5	0.7	0.7	3.0	2.2	0.0	3.7	0.0	0.0	0.0	11.9
(5) 45-54	0.0	0.0	1.5	0.7	0.7	4.4	3.7	0.0	5.2	0.0	0.0	0.0	16.3
(6) 55-64	0.0	0.7	0.7	0.0	0.0	3.0	0.7	0.0	5.2	0.0	0.0	0.0	10.4
(7) 65+	0.0	1.5	2.2	0.0	1.5	1.5	0.0	0.0	8.9	0.0	0.0	0.0	15.6
TOTAL	0.0	4.4	10.4	5.9	8.9	23.0	10.4	0.0	37.0	0.0	0.0	0.0	100.0

D

TABLE F-14. DISTRIBUTION OF ALL FATALITIES WITH NON-FATTY LIVERS BY AGE GROUP, B.A.L.



BLOOD ALCOHOL DATA													TABLE # 17 NO FILE PAGE # 5	
BIVARIATE FREQUENCIES														
ROW (CONTROL) VARIABLE NO.	7											COLUMN (SPREAD) VARIABLE NO. 335		
STATUS ON ROAD	TIME PERIOD 1													
	0-01-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	(9)	(10)	(11)	WILD	TOTAL	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)			
(1) Drivers	0	22	5	9	7	5	8	10	18	0	0	0	84	
(2) Pass.	0	15	6	0	2	0	3	3	9	0	0	0	38	
(3) Pedest.	0	6	3	5	3	3	7	11	17	0	0	0	55	
TOTAL	0	43	14	14	12	8	18	24	44	0	0	0	177	

A

BLOOD ALCOHOL DATA													TABLE # 17 NO FILE PAGE # 6	
BIVARIATE PERCENTAGES (BASED ON ROW TOTALS)														
ROW (CONTROL) VARIABLE NO.	7											COLUMN (SPREAD) VARIABLE NO. 335		
STATUS ON ROAD	TIME PERIOD 1													
	0-01-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	(9)	(10)	(11)	WILD	TOTAL	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)			
(1) Drivers	0.0	26.2	6.0	10.7	8.3	6.0	9.5	11.9	21.4	0.0	0.0	0.0	100.0	
(2) Pass.	0.0	39.5	15.8	0.0	5.3	0.0	7.9	7.9	23.7	0.0	0.0	0.0	100.0	
(3) Pedest.	0.0	10.9	5.5	9.1	5.5	5.5	12.7	20.0	30.9	0.0	0.0	0.0	100.0	
TOTAL	0.0	24.3	7.9	7.9	6.8	4.5	10.2	13.6	24.9	0.0	0.0	0.0	100.0	

B

BLOOD ALCOHOL DATA													TABLE # 17 NO FILE PAGE # 7	
BIVARIATE PERCENTAGES (BASED ON COLUMN TOTALS)														
ROW (CONTROL) VARIABLE NO.	7											COLUMN (SPREAD) VARIABLE NO. 335		
STATUS ON ROAD	TIME PERIOD 1													
	0-01-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	(9)	(10)	(11)	WILD	TOTAL	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)			
(1) Drivers	0.0	51.2	35.7	64.3	58.3	62.5	44.4	41.7	40.9	0.0	0.0	0.0	47.5	
(2) Pass.	0.0	34.9	42.9	0.0	16.7	0.0	16.7	12.5	20.5	0.0	0.0	0.0	21.5	
(3) Pedest.	0.0	14.0	21.4	35.7	25.0	37.5	38.9	45.8	38.6	0.0	0.0	0.0	31.1	
TOTAL	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	100.0	

C

BLOOD ALCOHOL DATA													TABLE # 17 NO FILE PAGE # 8	
BIVARIATE PERCENTAGES (BASED ON GRAND TOTALS)														
ROW (CONTROL) VARIABLE NO.	7											COLUMN (SPREAD) VARIABLE NO. 335		
STATUS ON ROAD	TIME PERIOD 1													
	0-01-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	(9)	(10)	(11)	WILD	TOTAL	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)			
(1) Driver	0.0	12.4	2.8	5.1	4.0	2.8	4.5	5.6	10.2	0.0	0.0	0.0	47.5	
(2) Pass	0.0	8.5	3.4	0.0	1.1	0.0	1.7	1.7	5.1	0.0	0.0	0.0	21.5	
(3) Ped	0.0	3.4	1.7	2.8	1.7	1.7	4.0	6.2	9.6	0.0	0.0	0.0	31.1	
TOTAL	0.0	24.3	7.9	7.9	6.8	4.5	10.2	13.6	24.9	0.0	0.0	0.0	100.0	

D

TABLE F-15. DISTRIBUTION OF ALL FATALITIES BY ROAD STATUS, HOUR OF ACCIDENT

BLOOD ALCOHOL DATA													TABLE #	30	DRIVERS	PAGE #	13
BIVARIATE FREQUENCIES																	
ROW (CONTROL) VARIABLE NO.												COLUMN (SPREAD) VARIABLE NO. 335					
DAY												TIME PERIOD 1					
(0)	0-01-3 (1)	3-6 (2)	6-9 (3)	9-12 (4)	12-15 (5)	15-18 (6)	18-21 (7)	21-24 (8)	(9)	(10)	(11)	WILD	TOTAL				
(1) Sun.	0	5	0	0	0	0	2	2	0	0	0	0	9				
(2) Mon.	0	3	0	1	0	0	2	2	0	0	0	0	8				
(3) Tues.	0	3	0	2	0	2	1	2	3	0	0	0	13				
(4) Wed.	0	4	0	1	1	0	1	0	3	0	0	0	10				
(5) Thurs.	0	3	1	1	2	2	1	0	1	0	0	0	11				
(6) Fri.	0	2	1	1	2	0	2	2	5	0	0	0	15				
(7) Sat.	0	2	3	2	2	1	1	2	4	0	0	0	17				
(9) Missing	0	0	0	1	0	0	0	0	0	0	0	0	1				
TOTAL	0	22	5	9	7	5	8	10	18	0	0	0	84				

A

BLOOD ALCOHOL DATA													TABLE #	30	DRIVERS	PAGE #	14
BIVARIATE PERCENTAGES (BASED ON ROW TOTALS)																	
ROW (CONTROL) VARIABLE NO.												COLUMN (SPREAD) VARIABLE NO. 335					
DAY												TIME PERIOD 1					
(0)	0-01-3 (1)	3-6 (2)	6-9 (3)	9-12 (4)	12-15 (5)	15-18 (6)	18-21 (7)	21-24 (8)	(9)	(10)	(11)	WILD	TOTAL				
(1) Sun.	0.0	55.6	0.0	0.0	0.0	0.0	22.2	22.2	0.0	0.0	0.0	0.0	100.0				
(2) Mon.	0.0	37.5	0.0	12.5	0.0	0.0	25.0	25.0	0.0	0.0	0.0	0.0	100.0				
(3) Tues.	0.0	23.1	0.0	15.4	0.0	15.4	7.7	15.4	23.1	0.0	0.0	0.0	100.0				
(4) Wed.	0.0	40.0	0.0	10.0	10.0	0.0	10.0	0.0	30.0	0.0	0.0	0.0	100.0				
(5) Thurs.	0.0	27.3	9.1	9.1	18.2	18.2	9.1	0.0	9.1	0.0	0.0	0.0	100.0				
(6) Fri.	0.0	13.3	6.7	6.7	13.3	0.0	13.3	13.3	33.3	0.0	0.0	0.0	100.0				
(7) Sat.	0.0	11.8	17.6	11.8	11.8	5.9	5.9	11.8	23.5	0.0	0.0	0.0	100.0				
(9) Missing	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0				
TOTAL	0.0	26.2	6.0	10.7	8.3	6.0	9.5	11.9	21.4	0.0	0.0	0.0	100.0				

B

BLOOD ALCOHOL DATA													TABLE #	30	DRIVERS	PAGE #	15
BIVARIATE PERCENTAGES (BASED ON COLUMN TOTALS)																	
ROW (CONTROL) VARIABLE NO.												COLUMN (SPREAD) VARIABLE NO. 335					
DAY												TIME PERIOD 1					
(0)	0-01-3 (1)	3-6 (2)	6-9 (3)	9-12 (4)	12-15 (5)	15-18 (6)	18-21 (7)	21-24 (8)	(9)	(10)	(11)	WILD	TOTAL				
(1) Sun.	0.0	22.7	0.0	0.0	0.0	0.0	20.0	11.1	0.0	0.0	0.0	0.0	10.7				
(2) Mon.	0.0	13.6	0.0	11.1	0.0	0.0	25.0	20.0	0.0	0.0	0.0	0.0	9.5				
(3) Tues.	0.0	13.6	0.0	22.2	0.0	40.0	12.5	20.0	16.7	0.0	0.0	0.0	15.5				
(4) Wed.	0.0	18.2	0.0	11.1	14.3	0.0	12.5	0.0	16.7	0.0	0.0	0.0	11.9				
(5) Thurs.	0.0	13.6	20.0	11.1	28.6	40.0	12.5	0.0	5.6	0.0	0.0	0.0	13.1				
(6) Fri.	0.0	9.1	20.0	11.1	28.6	0.0	25.0	20.0	27.8	0.0	0.0	0.0	17.9				
(7) Sat.	0.0	9.1	60.0	22.2	28.6	20.0	12.5	20.0	22.2	0.0	0.0	0.0	20.2				
(9) Missing	0.0	0.0	0.0	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2				
TOTAL	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	100.0				

C

BLOOD ALCOHOL DATA													TABLE #	30	DRIVERS	PAGE #	16
BIVARIATE PERCENTAGES (BASED ON GRAND TOTALS)																	
ROW (CONTROL) VARIABLE NO.												COLUMN (SPREAD) VARIABLE NO. 335					
DAY												TIME PERIOD 1					
(0)	0-01-3 (1)	3-6 (2)	6-9 (3)	9-12 (4)	12-15 (5)	15-18 (6)	18-21 (7)	21-24 (8)	(9)	(10)	(11)	WILD	TOTAL				
(1) Sun.	0.0	6.0	0.0	0.0	0.0	0.0	2.4	2.4	0.0	0.0	0.0	0.0	10.7				
(2) Mon.	0.0	3.6	0.0	1.2	0.0	0.0	2.4	2.4	0.0	0.0	0.0	0.0	9.5				
(3) Tues.	0.0	3.6	0.0	2.4	0.0	2.4	1.2	2.4	3.6	0.0	0.0	0.0	15.5				
(4) Wed.	0.0	4.8	0.0	1.2	1.2	0.0	1.2	0.0	3.6	0.0	0.0	0.0	11.9				
(5) Thurs.	0.0	3.6	1.2	1.2	2.4	2.4	1.2	0.0	1.2	0.0	0.0	0.0	13.1				
(6) Fri.	0.0	2.4	1.2	1.2	2.4	0.0	2.4	2.4	6.0	0.0	0.0	0.0	17.9				
(7) Sat.	0.0	2.4	3.6	2.4	2.4	1.2	1.2	2.4	4.8	0.0	0.0	0.0	20.2				
(9) Missing	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2				
TOTAL	0.0	26.2	6.0	10.7	8.3	6.0	9.5	11.9	21.4	0.0	0.0	0.0	100.0				

D

TABLE F-16. DISTRIBUTION OF ALL DRIVERS BY DAY, HOUR OF ACCIDENT

BLOOD ALCOHOL DATA													TABLE # 40	PASS	PAGE # 13
BIVARIATE FREQUENCIES															
ROW (CONTROL) VARIABLE NO. 80												COLUMN (SPREAD) VARIABLE NO. 335			
DAY	TIME PERIOD 1														
( 0)	0:01-3 ( 1)	3-6 ( 2)	6-9 ( 3)	9-12 ( 4)	12-15 ( 5)	15-18 ( 6)	18-21 ( 7)	21-24 ( 8)	( 9)	( 10)	( 11)	WILD	TOTAL		
( 1) Sun	0	4	2	0	0	0	1	1	1	0	0	0	9		
( 2) Mon	0	1	0	0	0	0	0	0	1	0	0	0	2		
( 3) Tues	0	0	0	0	1	0	0	1	3	0	0	0	5		
( 5) Thurs	0	1	0	0	1	0	2	1	2	0	0	0	7		
( 6) Fri	0	3	1	0	0	0	0	0	2	0	0	0	6		
( 7) Sat	0	6	3	0	0	0	0	0	0	0	0	0	9		
TOTAL	0	15	6	0	2	0	3	3	9	0	0	0	38		

A

BLOOD ALCOHOL DATA													TABLE # 40	PASS	PAGE # 14
BIVARIATE PERCENTAGES (BASED ON ROW TOTALS)															
ROW (CONTROL) VARIABLE NO. 80												COLUMN (SPREAD) VARIABLE NO. 335			
DAY	TIME PERIOD 1														
( 0)	0:01-3 ( 1)	3-6 ( 2)	6-9 ( 3)	9-12 ( 4)	12-15 ( 5)	15-18 ( 6)	18-21 ( 7)	21-24 ( 8)	( 9)	( 10)	( 11)	WILD	TOTAL		
( 1) Sun	0.0	44.4	22.2	0.0	0.0	0.0	11.1	11.1	11.1	0.0	0.0	0.0	100.0		
( 2) Mon	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0	100.0		
( 3) Tues	0.0	0.0	0.0	0.0	20.0	0.0	0.0	20.0	60.0	0.0	0.0	0.0	100.0		
( 5) Thurs	0.0	14.3	0.0	0.0	14.3	0.0	28.6	14.3	28.6	0.0	0.0	0.0	100.0		
( 6) Fri	0.0	50.0	16.7	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0	0.0	100.0		
( 7) Sat	0.0	66.7	33.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0		
TOTAL	0.0	39.5	15.8	0.0	5.3	0.0	7.9	7.9	23.7	0.0	0.0	0.0	100.0		

B

BLOOD ALCOHOL DATA													TABLE # 40	PASS	PAGE # 15
BIVARIATE PERCENTAGES (BASED ON COLUMN TOTALS)															
ROW (CONTROL) VARIABLE NO. 80												COLUMN (SPREAD) VARIABLE NO. 335			
DAY	TIME PERIOD 1														
( 0)	0:01-3 ( 1)	3-6 ( 2)	6-9 ( 3)	9-12 ( 4)	12-15 ( 5)	15-18 ( 6)	18-21 ( 7)	21-24 ( 8)	( 9)	( 10)	( 11)	WILD	TOTAL		
( 1) Sun	0.0	26.7	33.3	0.0	0.0	0.0	33.3	33.3	11.1	0.0	0.0	0.0	23.7		
( 2) Mon	0.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0	11.1	0.0	0.0	0.0	5.3		
( 3) Tues	0.0	0.0	0.0	0.0	50.0	0.0	0.0	33.3	33.3	0.0	0.0	0.0	13.2		
( 5) Thurs	0.0	6.7	0.0	0.0	50.0	0.0	66.7	33.3	22.2	0.0	0.0	0.0	18.4		
( 6) Fri	0.0	20.0	16.7	0.0	0.0	0.0	0.0	0.0	22.2	0.0	0.0	0.0	15.8		
( 7) Sat	0.0	40.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.7		
TOTAL	0.0	100.0	100.0	0.0	100.0	0.0	100.0	100.0	100.0	0.0	0.0	0.0	100.0		

C

BLOOD ALCOHOL DATA													TABLE # 40	PASS	PAGE # 16
BIVARIATE PERCENTAGES (BASED ON GRAND TOTALS)															
ROW (CONTROL) VARIABLE NO. 80												COLUMN (SPREAD) VARIABLE NO. 335			
DAY	TIME PERIOD 1														
( 0)	0:01-3 ( 1)	3-6 ( 2)	6-9 ( 3)	9-12 ( 4)	12-15 ( 5)	15-18 ( 6)	18-21 ( 7)	21-24 ( 8)	( 9)	( 10)	( 11)	WILD	TOTAL		
( 1) Sun	0.0	10.5	5.3	0.0	0.0	0.0	2.6	2.6	2.6	0.0	0.0	0.0	23.7		
( 2) Mon	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	5.3		
( 3) Tues	0.0	0.0	0.0	0.0	2.6	0.0	0.0	2.6	7.9	0.0	0.0	0.0	13.2		
( 5) Thurs	0.0	2.6	0.0	0.0	2.6	0.0	5.3	2.6	5.3	0.0	0.0	0.0	18.4		
( 6) Fri	0.0	7.9	2.6	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0	15.8		
( 7) Sat	0.0	15.8	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.7		
TOTAL	0.0	39.5	15.8	0.0	5.3	0.0	7.9	7.9	23.7	0.0	0.0	0.0	100.0		

D

TABLE F-17. DISTRIBUTION OF ALL PASSENGERS BY DAY, HOUR OF ACCIDENT

BLOOD ALCOHOL DATA TABLE # 35 PEDEST PAGE # 13

BIVARIATE FREQUENCIES

ROW (CONTROL) VARIABLE NO. 80 DAY	COLUMN (SPREAD) VARIABLE NO. 335 TIME PERIOD 1								WILD	TOTAL			
( 0)	0:01-3 ( 1)	3-6 ( 2)	6-9 ( 3)	9-12 ( 4)	12-15 ( 5)	15-18 ( 6)	18-21 ( 7)	21-24 ( 8)	( 9)	( 10)	( 11)		
( 1) Sun	0	3	0	0	0	0	2	3	0	0	0	0	8
( 2) Mon	0	0	0	1	0	0	1	0	2	0	0	0	4
( 3) Tues	0	0	0	1	3	0	0	1	0	0	0	0	5
( 4) Wed	0	0	3	0	0	1	2	1	0	0	0	0	9
( 5) Thurs	0	0	0	2	0	0	2	1	1	0	0	0	6
( 6) Fri	0	1	0	1	0	0	1	3	4	0	0	0	10
( 7) Sat	0	2	0	0	0	1	1	2	5	0	0	0	11
( 9) Missing	0	0	0	0	0	1	0	0	1	0	0	0	2
TOTAL	0	6	3	5	3	3	7	11	17	0	0	0	55

A

BLOOD ALCOHOL DATA TABLE # 35 PEDEST PAGE # 14

BIVARIATE PERCENTAGES (BASED ON ROW TOTALS)

ROW (CONTROL) VARIABLE NO. 80 DAY	COLUMN (SPREAD) VARIABLE NO. 335 TIME PERIOD 1								WILD	TOTAL			
( 0)	0:01-3 ( 1)	3-6 ( 2)	6-9 ( 3)	9-12 ( 4)	12-15 ( 5)	15-18 ( 6)	18-21 ( 7)	21-24 ( 8)	( 9)	( 10)	( 11)		
( 1) Sun	0.0	37.5	0.0	0.0	0.0	0.0	25.0	37.5	0.0	0.0	0.0	0.0	100.0
( 2) Mon	0.0	0.0	0.0	25.0	0.0	0.0	25.0	0.0	50.0	0.0	0.0	0.0	100.0
( 3) Tues	0.0	0.0	0.0	20.0	60.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	100.0
( 4) Wed	0.0	0.0	33.3	0.0	0.0	11.1	22.2	22.2	11.1	0.0	0.0	0.0	100.0
( 5) Thurs	0.0	0.0	0.0	33.3	0.0	0.0	33.3	16.7	16.7	0.0	0.0	0.0	100.0
( 6) Fri	0.0	10.0	0.0	10.0	0.0	0.0	10.0	30.0	40.0	0.0	0.0	0.0	100.0
( 7) Sat	0.0	18.2	0.0	0.0	0.0	9.1	9.1	18.2	45.5	0.0	0.0	0.0	100.0
( 9) Missing	0.0	0.0	0.0	0.0	0.0	50.0	0.0	0.0	50.0	0.0	0.0	0.0	100.0
TOTAL	0.0	10.9	5.5	9.1	5.5	5.5	12.7	20.0	30.9	0.0	0.0	0.0	100.0

B

BLOOD ALCOHOL DATA TABLE # 35 PEDEST PAGE # 15

BIVARIATE PERCENTAGES (BASED ON COLUMN TOTALS)

ROW (CONTROL) VARIABLE NO. 80 DAY	COLUMN (SPREAD) VARIABLE NO. 335 TIME PERIOD 1								WILD	TOTAL			
( 0)	0:01-3 ( 1)	3-6 ( 2)	6-9 ( 3)	9-12 ( 4)	12-15 ( 5)	15-18 ( 6)	18-21 ( 7)	21-24 ( 8)	( 9)	( 10)	( 11)		
( 1) Sun	0.0	50.0	0.0	0.0	0.0	0.0	18.2	17.6	0.0	0.0	0.0	0.0	14.5
( 2) Mon	0.0	0.0	0.0	20.0	0.0	0.0	14.3	0.0	11.8	0.0	0.0	0.0	7.3
( 3) Tues	0.0	0.0	0.0	20.0	100.0	0.0	0.0	9.1	0.0	0.0	0.0	0.0	9.1
( 4) Wed	0.0	0.0	100.0	0.0	0.0	33.3	28.6	18.2	5.9	0.0	0.0	0.0	16.4
( 5) Thurs	0.0	0.0	0.0	40.0	0.0	0.0	28.6	9.1	5.9	0.0	0.0	0.0	10.9
( 6) Fri	0.0	16.7	0.0	20.0	0.0	0.0	14.3	27.3	23.5	0.0	0.0	0.0	18.2
( 7) Sat	0.0	33.3	0.0	0.0	0.0	33.3	14.3	18.2	29.4	0.0	0.0	0.0	20.0
( 9) Missing	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0	5.9	0.0	0.0	0.0	3.6
TOTAL	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	100.0

C

BLOOD ALCOHOL DATA TABLE # 35 PEDEST PAGE # 16

BIVARIATE PERCENTAGES (BASED ON GRAND TOTALS)

ROW (CONTROL) VARIABLE NO. 80 DAY	COLUMN (SPREAD) VARIABLE NO. 335 TIME PERIOD 1								WILD	TOTAL			
( 0)	0:01-3 ( 1)	3-6 ( 2)	6-9 ( 3)	9-12 ( 4)	12-15 ( 5)	15-18 ( 6)	18-21 ( 7)	21-24 ( 8)	( 9)	( 10)	( 11)		
( 1) Sun	0.0	5.5	0.0	0.0	0.0	0.0	3.6	5.5	0.0	0.0	0.0	0.0	14.5
( 2) Mon	0.0	0.0	0.0	1.8	0.0	0.0	1.8	0.0	3.6	0.0	0.0	0.0	7.3
( 3) Tues	0.0	0.0	0.0	1.8	3.5	0.0	1.8	0.0	1.8	0.0	0.0	0.0	9.1
( 4) Wed	0.0	0.0	5.5	0.0	0.0	1.8	3.6	3.6	1.8	0.0	0.0	0.0	16.4
( 5) Thurs	0.0	0.0	0.0	3.6	0.0	0.0	3.6	1.8	1.8	0.0	0.0	0.0	10.9
( 6) Fri	0.0	1.8	0.0	1.8	0.0	0.0	1.8	5.5	7.3	0.0	0.0	0.0	18.2
( 7) Sat	0.0	3.6	0.0	0.0	0.0	1.8	1.8	3.6	9.1	0.0	0.0	0.0	20.0
( 9) Missing	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	1.8	0.0	0.0	0.0	3.6
TOTAL	0.0	10.9	5.5	9.1	5.5	5.5	12.7	20.0	30.9	0.0	0.0	0.0	100.0

D

TABLE F-18. DISTRIBUTION OF ALL PEDESTRIANS BY DAY, HOUR OF ACCIDENT

ROW (CONTROL) VARIABLE NO. 335 TIME PERIOD 1	COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											WILD	TOTAL
(0)	not taken (1)	.01-04 (2)	.05-09 (3)	10-14 (4)	15-24 (5)	.25+ (6)	(7)	Negative (8)	(9)	(10)	(11)		
(1)0:01-3	0	2	2	4	5	15	9	0	6	0	0	0	43
(2)3-6	0	1	2	1	1	3	0	0	6	0	0	0	14
(3)6-9	0	0	5	1	2	0	0	0	6	0	0	0	14
(4)9-12	0	0	1	0	1	2	1	0	7	0	0	0	12
(5)12-15	0	0	1	0	0	0	0	0	7	0	0	0	8
(6)15-18	0	1	1	0	2	4	2	0	8	0	0	0	18
(7)18-21	0	2	2	1	2	5	5	0	7	0	0	0	24
(8)21-24	0	1	3	1	5	12	6	0	16	0	0	0	44
TOTAL	0	7	17	8	12	41	23	0	63	0	0	0	177

BIVARIATE PERCENTAGES (BASED ON ROW TOTALS)

ROW (CONTROL) VARIABLE NO. 335 TIME PERIOD 1	COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											WILD	TOTAL
(0)	not taken (1)	.01-04 (2)	.05-09 (3)	10-14 (4)	15-24 (5)	.25+ (6)	(7)	Negative (8)	(9)	(10)	(11)		
(1)0:01-3	0.0	4.7	4.7	9.3	11.6	34.9	20.9	0.0	14.0	0.0	0.0	0.0	100.0
(2)3-6	0.0	7.1	14.3	7.1	7.1	21.4	0.0	0.0	42.9	0.0	0.0	0.0	100.0
(3)6-9	0.0	0.0	35.7	7.1	14.3	0.0	0.0	0.0	42.9	0.0	0.0	0.0	100.0
(4)9-12	0.0	0.0	8.3	0.0	8.3	16.7	8.3	0.0	58.3	0.0	0.0	0.0	100.0
(5)12-15	0.0	0.0	12.5	0.0	0.0	0.0	0.0	0.0	87.5	0.0	0.0	0.0	100.0
(6)15-18	0.0	5.6	5.6	0.0	11.1	22.2	11.1	0.0	44.4	0.0	0.0	0.0	100.0
(7)18-21	0.0	8.3	8.3	4.2	8.3	20.8	20.8	0.0	29.2	0.0	0.0	0.0	100.0
(8)21-24	0.0	2.3	6.8	2.3	11.4	27.3	13.6	0.0	36.4	0.0	0.0	0.0	100.0
TOTAL	0.0	4.0	9.6	4.5	10.2	23.2	13.0	0.0	35.6	0.0	0.0	0.0	100.0

BIVARIATE PERCENTAGES (BASED ON COLUMN TOTALS)

ROW (CONTROL) VARIABLE NO. 335 TIME PERIOD 1	COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											WILD	TOTAL
(0)	not taken (1)	.01-04 (2)	.05-09 (3)	10-14 (4)	15-24 (5)	.25+ (6)	(7)	Negative (8)	(9)	(10)	(11)		
(1)0:01-3	0.0	28.6	11.8	50.0	27.8	36.6	39.1	0.0	9.5	0.0	0.0	0.0	24.3
(2)3-6	0.0	14.3	11.8	12.5	5.6	7.3	0.0	0.0	9.5	0.0	0.0	0.0	7.9
(3)6-9	0.0	0.0	29.4	12.5	11.1	0.0	0.0	0.0	9.5	0.0	0.0	0.0	7.9
(4)9-12	0.0	0.0	5.9	0.0	5.6	4.9	4.3	0.0	11.1	0.0	0.0	0.0	6.8
(5)12-15	0.0	0.0	5.9	0.0	0.0	0.0	0.0	0.0	11.1	0.0	0.0	0.0	4.5
(6)15-18	0.0	14.3	5.9	0.0	11.1	9.8	8.7	0.0	12.7	0.0	0.0	0.0	10.2
(7)18-21	0.0	28.6	11.8	12.5	11.1	12.2	21.7	0.0	11.1	0.0	0.0	0.0	13.6
(8)21-24	0.0	14.3	17.6	12.5	27.8	29.3	26.1	0.0	25.4	0.0	0.0	0.0	24.9
TOTAL	0.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	0.0	0.0	0.0	100.0

BIVARIATE PERCENTAGES (BASED ON GRAND TOTALS)

ROW (CONTROL) VARIABLE NO. 335 TIME PERIOD 1	COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											WILD	TOTAL
(0)	not taken (1)	.01-04 (2)	.05-09 (3)	10-14 (4)	15-24 (5)	.25+ (6)	(7)	Negative (8)	(9)	(10)	(11)		
(1)0:01-3	0.0	1.1	1.1	2.3	2.8	8.5	5.1	0.0	3.4	0.0	0.0	0.0	24.3
(2)3-6	0.0	0.6	1.1	0.6	0.6	1.7	0.0	0.0	3.4	0.0	0.0	0.0	7.9
(3)6-9	0.0	0.0	2.8	0.6	1.1	0.0	0.0	0.0	3.4	0.0	0.0	0.0	7.9
(4)9-12	0.0	0.0	0.6	0.0	0.6	1.1	0.6	0.0	4.0	0.0	0.0	0.0	6.8
(5)12-15	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	4.5
(6)15-18	0.0	0.6	0.6	0.0	1.1	2.3	1.1	0.0	4.5	0.0	0.0	0.0	10.2
(7)18-21	0.0	1.1	1.1	0.6	1.1	2.8	2.8	0.0	4.0	0.0	0.0	0.0	13.6
(8)21-24	0.0	0.6	1.7	0.6	2.8	6.8	3.4	0.0	9.0	0.0	0.0	0.0	24.9
TOTAL	0.0	4.0	9.6	4.5	10.2	23.2	13.0	0.0	35.6	0.0	0.0	0.0	100.0

TABLE F-19. DISTRIBUTION OF ALL FATALITIES BY HOUR OF ACCIDENT, B.A.L.

ROW (CONTROL) VARIABLE NO. 335 TIME PERIOD 1	COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											TOTAL	
(0)	not taken (1)	.01-04 (2)	.05-09 (3)	.10-14 (4)	.15-24 (5)	.25+ (6)	(7)	Negative (8)	(9)	(10)	(11)	WILD	TOTAL
(1)0:01-3	0	0	1	5	9	7	0	0	0	0	0	0	22
(2)3-6	0	0	0	0	3	0	0	2	0	0	0	0	5
(3)6-9	0	0	3	1	2	0	0	3	0	0	0	0	9
(4)9-12	0	0	0	1	2	0	0	4	0	0	0	0	7
(5)12-15	0	0	1	0	0	0	0	4	0	0	0	0	5
(6)15-18	0	0	0	1	2	2	0	3	0	0	0	0	8
(7)18-21	0	0	0	2	2	2	0	4	0	0	0	0	10
(8)21-24	0	1	2	1	9	3	0	2	0	0	0	0	18
TOTAL	0	1	6	2	12	14	0	22	0	0	0	0	84

BIVARIATE PERCENTAGES (BASED ON ROW TOTALS)

ROW (CONTROL) VARIABLE NO. 335 TIME PERIOD 1	COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											TOTAL	
(0)	not taken (1)	.01-04 (2)	.05-09 (3)	.10-14 (4)	.15-24 (5)	.25+ (6)	(7)	Negative (8)	(9)	(10)	(11)	WILD	TOTAL
(1)0:01-3	0.0	0.0	4.5	22.7	40.9	31.8	0.0	0.0	0.0	0.0	0.0	0.0	100.0
(2)3-6	0.0	0.0	0.0	0.0	60.0	0.0	0.0	40.0	0.0	0.0	0.0	0.0	100.0
(3)6-9	0.0	0.0	33.3	11.1	22.2	0.0	0.0	33.3	0.0	0.0	0.0	0.0	100.0
(4)9-12	0.0	0.0	0.0	14.3	28.6	0.0	0.0	57.1	0.0	0.0	0.0	0.0	100.0
(5)12-15	0.0	0.0	20.0	0.0	0.0	0.0	0.0	80.0	0.0	0.0	0.0	0.0	100.0
(6)15-18	0.0	0.0	0.0	12.5	25.0	25.0	0.0	37.5	0.0	0.0	0.0	0.0	100.0
(7)18-21	0.0	0.0	0.0	20.0	20.0	20.0	0.0	40.0	0.0	0.0	0.0	0.0	100.0
(8)21-24	0.0	5.6	11.1	5.6	50.0	16.7	0.0	11.1	0.0	0.0	0.0	0.0	100.0
TOTAL	0.0	1.2	7.1	2.4	14.3	32.1	0.0	26.2	0.0	0.0	0.0	0.0	100.0

BIVARIATE PERCENTAGES (BASED ON COLUMN TOTALS)

ROW (CONTROL) VARIABLE NO. 335 TIME PERIOD 1	COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											TOTAL	
(0)	not taken (1)	.01-04 (2)	.05-09 (3)	.10-14 (4)	.15-24 (5)	.25+ (6)	(7)	Negative (8)	(9)	(10)	(11)	WILD	TOTAL
(1)0:01-3	0.0	0.0	50.0	41.7	33.3	50.0	0.0	0.0	0.0	0.0	0.0	0.0	26.2
(2)3-6	0.0	0.0	0.0	0.0	11.1	0.0	0.0	9.1	0.0	0.0	0.0	0.0	6.0
(3)6-9	0.0	0.0	50.0	50.0	16.7	0.0	0.0	13.6	0.0	0.0	0.0	0.0	10.7
(4)9-12	0.0	0.0	0.0	0.0	8.3	7.4	0.0	18.2	0.0	0.0	0.0	0.0	8.3
(5)12-15	0.0	0.0	16.7	0.0	0.0	0.0	0.0	18.2	0.0	0.0	0.0	0.0	6.0
(6)15-18	0.0	0.0	0.0	0.0	8.3	7.4	14.3	13.6	0.0	0.0	0.0	0.0	9.5
(7)18-21	0.0	0.0	0.0	0.0	16.7	7.4	14.3	18.2	0.0	0.0	0.0	0.0	11.9
(8)21-24	0.0	100.0	33.3	0.0	8.3	33.3	21.4	9.1	0.0	0.0	0.0	0.0	21.4
TOTAL	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	100.0

BIVARIATE PERCENTAGES (BASED ON GRAND TOTALS)

ROW (CONTROL) VARIABLE NO. 335 TIME PERIOD 1	COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											TOTAL	
(0)	not taken (1)	.01-04 (2)	.05-09 (3)	.10-14 (4)	.15-24 (5)	.25+ (6)	(7)	Negative (8)	(9)	(10)	(11)	WILD	TOTAL
(1)0:01-3	0.0	0.0	1.2	6.0	10.7	8.3	0.0	0.0	0.0	0.0	0.0	0.0	26.2
(2)3-6	0.0	0.0	0.0	0.0	3.6	0.0	0.0	2.4	0.0	0.0	0.0	0.0	6.0
(3)6-9	0.0	0.0	3.6	1.2	2.4	0.0	0.0	3.6	0.0	0.0	0.0	0.0	10.7
(4)9-12	0.0	0.0	0.0	1.2	2.4	0.0	0.0	4.8	0.0	0.0	0.0	0.0	8.3
(5)12-15	0.0	0.0	1.2	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	6.0
(6)15-18	0.0	0.0	0.0	1.2	2.4	2.4	0.0	3.6	0.0	0.0	0.0	0.0	9.5
(7)18-21	0.0	0.0	0.0	2.4	2.4	2.4	0.0	4.8	0.0	0.0	0.0	0.0	11.9
(8)21-24	0.0	1.2	2.4	1.2	10.7	3.6	0.0	2.4	0.0	0.0	0.0	0.0	21.4
TOTAL	0.0	1.2	7.1	2.4	14.3	32.1	16.7	26.2	0.0	0.0	0.0	0.0	100.0

TABLE F-20. DISTRIBUTION OF ALL DRIVERS BY HOUR OF ACCIDENT, B.A.L.

BIVARIATE FREQUENCIES

ROW (CONTROL) VARIABLE NO. 335 TIME PERIOD 1	COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											WILD	TOTAL	
	not taken	.01-.04	.05-.09	.10-.14	.15-.24	.25+	Negative							
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )			
( 1 ) 0:01-3	0	0	1	1	0	2	1	0	1	0	0	0	0	6
( 2 ) 3-6	0	0	1	0	0	0	0	0	2	0	0	0	0	3
( 3 ) 6-9	0	0	2	0	0	0	0	0	3	0	0	0	0	5
( 4 ) 9-12	0	0	0	0	0	0	1	0	2	0	0	0	0	3
( 5 ) 12-15	0	0	0	0	0	0	0	0	3	0	0	0	0	3
( 6 ) 15-18	0	0	1	0	1	1	0	0	4	0	0	0	0	7
( 7 ) 18-21	0	1	2	1	0	3	3	0	1	0	0	0	0	11
( 8 ) 21-24	0	0	1	1	3	3	3	0	6	0	0	0	0	17
TOTAL	0	1	8	3	4	9	8	0	22	0	0	0	0	55

BIVARIATE PERCENTAGES (BASED ON ROW TOTALS)

ROW (CONTROL) VARIABLE NO. 335 TIME PERIOD 1	COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											WILD	TOTAL	
	not taken	.01-.04	.05-.09	.10-.14	.15-.24	.25+	Negative							
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )			
( 1 ) 0:01-3	0.0	0.0	16.7	16.7	0.0	33.3	16.7	0.0	16.7	0.0	0.0	0.0	0.0	100.0
( 2 ) 3-6	0.0	0.0	33.3	0.0	0.0	0.0	0.0	0.0	66.7	0.0	0.0	0.0	0.0	100.0
( 3 ) 6-9	0.0	0.0	40.0	0.0	0.0	0.0	0.0	0.0	60.0	0.0	0.0	0.0	0.0	100.0
( 4 ) 9-12	0.0	0.0	0.0	0.0	0.0	0.0	33.3	0.0	66.7	0.0	0.0	0.0	0.0	100.0
( 5 ) 12-15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0
( 6 ) 15-18	0.0	0.0	14.3	0.0	14.3	14.3	0.0	0.0	57.1	0.0	0.0	0.0	0.0	100.0
( 7 ) 18-21	0.0	9.1	18.2	9.1	0.0	27.3	27.3	0.0	9.1	0.0	0.0	0.0	0.0	100.0
( 8 ) 21-24	0.0	0.0	5.9	5.9	17.6	17.6	17.6	0.0	35.3	0.0	0.0	0.0	0.0	100.0
TOTAL	0.0	1.8	14.5	5.5	7.3	16.4	14.5	0.0	40.0	0.0	0.0	0.0	0.0	100.0

BIVARIATE PERCENTAGES (BASED ON COLUMN TOTALS)

ROW (CONTROL) VARIABLE NO. 335 TIME PERIOD 1	COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											WILD	TOTAL	
	not taken	.01-.04	.05-.09	.10-.14	.15-.24	.25+	Negative							
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )			
( 1 ) 0:01-3	0.0	0.0	12.5	33.3	0.0	22.2	12.5	0.0	4.5	0.0	0.0	0.0	0.0	10.9
( 2 ) 3-6	0.0	0.0	12.5	0.0	0.0	0.0	0.0	0.0	9.1	0.0	0.0	0.0	0.0	5.5
( 3 ) 6-9	0.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	13.6	0.0	0.0	0.0	0.0	9.1
( 4 ) 9-12	0.0	0.0	0.0	0.0	0.0	0.0	12.5	0.0	9.1	0.0	0.0	0.0	0.0	5.5
( 5 ) 12-15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6	0.0	0.0	0.0	0.0	5.5
( 6 ) 15-18	0.0	0.0	12.5	0.0	25.0	11.1	0.0	0.0	18.2	0.0	0.0	0.0	0.0	12.7
( 7 ) 18-21	0.0	100.0	25.0	33.3	0.0	33.3	37.5	0.0	4.5	0.0	0.0	0.0	0.0	20.0
( 8 ) 21-24	0.0	0.0	12.5	33.3	75.0	33.3	37.5	0.0	27.3	0.0	0.0	0.0	0.0	30.9
TOTAL	0.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0

BIVARIATE PERCENTAGES (BASED ON GRAND TOTALS)

ROW (CONTROL) VARIABLE NO. 335 TIME PERIOD 1	COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											WILD	TOTAL	
	not taken	.01-.04	.05-.09	.10-.14	.15-.24	.25+	Negative							
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )			
( 1 ) 0:01-3	0.0	0.0	1.8	1.8	0.0	3.6	1.8	0.0	1.8	0.0	0.0	0.0	0.0	10.9
( 2 ) 3-6	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	5.5
( 3 ) 6-9	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0	9.1
( 4 ) 9-12	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	3.6	0.0	0.0	0.0	0.0	5.5
( 5 ) 12-15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0	5.5
( 6 ) 15-18	0.0	0.0	1.8	0.0	1.8	1.8	0.0	0.0	7.3	0.0	0.0	0.0	0.0	12.7
( 7 ) 18-21	0.0	1.8	3.6	1.8	0.0	5.5	5.5	0.0	1.8	0.0	0.0	0.0	0.0	20.0
( 8 ) 21-24	0.0	0.0	1.8	1.8	5.5	5.5	5.5	0.0	10.9	0.0	0.0	0.0	0.0	30.9
TOTAL	0.0	1.8	14.5	5.5	7.3	16.4	14.5	0.0	40.0	0.0	0.0	0.0	0.0	100.0

TABLE F-21. DISTRIBUTION OF ALL PEDESTRIANS BY HOUR OF ACCIDENT, B.A.L.

BLOOD ALCOHOL DATA													TABLE # 5 NO FILT PAGE # 5	
BIVARIATE FREQUENCIES														
ROW (CONTROL) VARIABLE NO. 345								COLUMN (SPREAD) VARIABLE NO. 337						
WEEKEND								BLOOD GROUP						
( 0)	not taken ( 1)	.01-04 ( 2)	.05-09 ( 3)	.10-14 ( 4)	.15-24 ( 5)	.25+ ( 6)	( 7)	Negative ( 8)	( 9)	( 10)	( 11)	WILD	TOTAL	
( 0) Week-day	0	4	11	0	7	20	10	0	42	0	0	0	94	
( 1) Week-end	0	3	6	8	11	21	13	0	21	0	0	0	83	
TOTAL	0	7	17	8	18	41	23	0	63	0	0	0	177	
BIVARIATE PERCENTAGES (BASED ON ROW TOTALS)														
ROW (CONTROL) VARIABLE NO. 345								COLUMN (SPREAD) VARIABLE NO. 337						
WEEKEND								BLOOD GROUP						
( 0)	not taken ( 1)	.01-04 ( 2)	.05-09 ( 3)	.10-14 ( 4)	.15-24 ( 5)	.25+ ( 6)	( 7)	Negative ( 8)	( 9)	( 10)	( 11)	WILD	TOTAL	
( 0) Week-day	0.0	4.3	11.7	0.0	7.4	21.3	10.6	0.0	44.7	0.0	0.0	0.0	100.0	
( 1) Week-end	0.0	3.6	7.2	9.6	13.3	25.3	15.7	0.0	25.3	0.0	0.0	0.0	100.0	
TOTAL	0.0	4.0	9.6	4.5	10.2	23.2	13.0	0.0	35.6	0.0	0.0	0.0	100.0	
BIVARIATE PERCENTAGES (BASED ON COLUMN TOTALS)														
ROW (CONTROL) VARIABLE NO. 345								COLUMN (SPREAD) VARIABLE NO. 337						
WEEKEND								BLOOD GROUP						
( 0)	not taken ( 1)	.01-04 ( 2)	.05-09 ( 3)	.10-14 ( 4)	.15-24 ( 5)	.25+ ( 6)	( 7)	Negative ( 8)	( 9)	( 10)	( 11)	WILD	TOTAL	
( 0) Week-day	0.0	57.1	64.7	0.0	38.9	48.8	43.5	0.0	66.7	0.0	0.0	0.0	53.1	
( 1) Week-end	0.0	42.9	35.3	100.0	61.1	51.2	56.5	0.0	33.3	0.0	0.0	0.0	46.9	
TOTAL	0.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	0.0	0.0	0.0	100.0	
BIVARIATE PERCENTAGES (BASED ON GRAND TOTALS)														
ROW (CONTROL) VARIABLE NO. 345								COLUMN (SPREAD) VARIABLE NO. 337						
WEEKEND								BLOOD GROUP						
( 0)	not taken ( 1)	.01-04 ( 2)	.05-09 ( 3)	.10-14 ( 4)	.15-24 ( 5)	.25+ ( 6)	( 7)	Negative ( 8)	( 9)	( 10)	( 11)	WILD	TOTAL	
( 0) Week-day	0.0	2.3	6.2	0.0	4.0	11.3	5.6	0.0	23.7	0.0	0.0	0.0	53.1	
( 1) Week-end	0.0	1.7	3.4	4.5	6.2	11.9	7.3	0.0	11.9	0.0	0.0	0.0	46.9	
TOTAL	0.0	4.0	9.6	4.5	10.2	23.2	13.0	0.0	35.6	0.0	0.0	0.0	100.0	

A

B

C

D

TABLE F-22. DISTRIBUTION OF ALL PEDESTRIANS BY WEEK-END/WEEK-DAY ACCIDENT, B. A. L.



ROW (CONTROL) VARIABLE NO. 344 MONTH	COLUMN (SPREAD) VARIABLE NO. 7 STATUS ON ROAD												
	Drivers	Pass.	Pedest.	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	WILD	TOTAL
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	WILD	TOTAL
(1)Jan.	0	12	3	1	0	0	0	0	0	0	0	0	16
(7)July	0	2	1	2	0	0	0	0	0	0	0	0	5
(8)Aug.	0	11	8	7	0	0	0	0	0	0	0	0	26
(9)Sept.	0	15	5	10	0	0	0	0	0	0	0	0	30
(10)Oct.	0	17	14	9	0	0	0	0	0	0	0	0	40
(11)Nov.	0	18	5	9	0	0	0	0	0	0	0	0	32
(12)Dec.	0	9	2	17	0	0	0	0	0	0	0	0	28
TOTAL	0	84	38	55	0	0	0	0	0	0	0	0	177

A

ROW (CONTROL) VARIABLE NO. 344 MONTH	COLUMN (SPREAD) VARIABLE NO. 7 STATUS ON ROAD												
	Drivers	Pass.	Pedest.	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	WILD	TOTAL
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	WILD	TOTAL
(1)Jan.	0.0	75.0	18.8	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
(7)July	0.0	40.0	20.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
(8)Aug.	0.0	42.3	30.8	26.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
(9)Sept.	0.0	50.0	16.7	33.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
(10)Oct.	0.0	42.5	35.0	22.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
(11)Nov.	0.0	56.3	15.6	28.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
(12)Dec.	0.0	32.1	7.1	60.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
TOTAL	0.0	47.5	21.5	31.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0

B

ROW (CONTROL) VARIABLE NO. 344 MONTH	COLUMN (SPREAD) VARIABLE NO. 7 STATUS ON ROAD												
	Drivers	Pass.	Pedest.	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	WILD	TOTAL
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	WILD	TOTAL
(1)Jan.	0.0	14.3	7.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
(7)July	0.0	2.4	2.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
(8)Aug.	0.0	13.1	21.1	12.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7
(9)Sept.	0.0	17.9	13.2	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.9
(10)Oct.	0.0	20.2	36.8	16.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.6
(11)Nov.	0.0	21.4	13.2	16.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.1
(12)Dec.	0.0	10.7	5.3	30.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8
TOTAL	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0

C

ROW (CONTROL) VARIABLE NO. 344 MONTH	COLUMN (SPREAD) VARIABLE NO. 7 STATUS ON ROAD												
	Drivers	Pass.	Ped.	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	WILD	TOTAL
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	WILD	TOTAL
(1)Jan.	0.0	6.8	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
(7)July	0.0	1.1	0.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
(8)Aug.	0.0	6.2	4.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7
(9)Sept.	0.0	8.5	2.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.9
(10)Oct.	0.0	9.6	7.9	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.6
(11)Nov.	0.0	10.2	2.8	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.1
(12)Dec.	0.0	5.1	1.1	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8
TOTAL	0.0	47.5	21.5	31.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0

D

TABLE F-23. DISTRIBUTION OF ALL FATALITIES BY ACCIDENT MONTH, ROAD STATUS

BIVARIATE FREQUENCIES

SELECTING ONLY THOSE CASES CODED ( 1- 1) ON VARIABLE NO. 69: DECEASED PERSON RESP.

ROW (CONTROL) VARIABLE NO. 323 MARITAL STATUS	COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											TOTAL	
	not taken	.01-04	.05-09	.10-14	.15-24	.25+	Negative	(9)	(10)	(11)	WILD		
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	WILD	TOTAL
(1) Married	0	0	4	0	2	17	9	0	9	0	0	0	41
(2) Single	0	0	1	2	5	6	6	0	5	0	0	0	25
(3) Divorced	0	0	0	0	1	2	2	0	2	0	0	0	7
(4) Separated	0	0	1	0	0	1	1	0	0	0	0	0	3
(5) Widowed	0	0	0	0	1	1	1	0	5	0	0	0	8
TOTAL	0	0	6	2	9	27	19	0	21	0	0	0	84

BIVARIATE PERCENTAGES (BASED ON ROW TOTALS)

SELECTING ONLY THOSE CASES CODED ( 1- 1) ON VARIABLE NO. 69: DECEASED PERSON RESP.

ROW (CONTROL) VARIABLE NO. 323 MARITAL STATUS	COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											TOTAL	
	not taken	.01-04	.05-09	.10-14	.15-24	.25+	Negative	(9)	(10)	(11)	WILD		
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	WILD	TOTAL
(1) Married	0.0	0.0	9.8	0.0	4.9	41.5	22.0	0.0	22.0	0.0	0.0	0.0	100.0
(2) Single	0.0	0.0	4.0	8.0	20.0	24.0	24.0	0.0	20.0	0.0	0.0	0.0	100.0
(3) Divorced	0.0	0.0	0.0	0.0	14.3	28.6	28.6	0.0	28.6	0.0	0.0	0.0	100.0
(4) Separated	0.0	0.0	33.3	0.0	0.0	33.3	33.3	0.0	0.0	0.0	0.0	0.0	100.0
(5) Widowed	0.0	0.0	0.0	0.0	12.5	12.5	12.5	0.0	62.5	0.0	0.0	0.0	100.0
TOTAL	0.0	0.0	7.1	2.4	10.7	32.1	22.6	0.0	25.0	0.0	0.0	0.0	100.0

BIVARIATE PERCENTAGES (BASED ON COLUMN TOTALS)

SELECTING ONLY THOSE CASES CODED ( 1- 1) ON VARIABLE NO. 69: DECEASED PERSON RESP.

ROW (CONTROL) VARIABLE NO. 323 MARITAL STATUS	COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											TOTAL	
	not taken	.01-04	.05-09	.10-14	.15-24	.25+	Negative	(9)	(10)	(11)	WILD		
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	WILD	TOTAL
(1) Married	0.0	0.0	66.7	0.0	22.2	63.0	47.4	0.0	42.9	0.0	0.0	0.0	48.8
(2) Single	0.0	0.0	16.7	100.0	55.6	22.2	31.6	0.0	23.8	0.0	0.0	0.0	29.8
(3) Divorced	0.0	0.0	0.0	0.0	11.1	7.4	10.5	0.0	9.5	0.0	0.0	0.0	8.3
(4) Separated	0.0	0.0	16.7	0.0	0.0	3.7	5.3	0.0	0.0	0.0	0.0	0.0	3.6
(5) Widowed	0.0	0.0	0.0	0.0	11.1	3.7	5.3	0.0	23.8	0.0	0.0	0.0	9.5
TOTAL	0.0	0.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	0.0	0.0	0.0	100.0

BIVARIATE PERCENTAGES (BASED ON GRAND TOTALS)

SELECTING ONLY THOSE CASES CODED ( 1- 1) ON VARIABLE NO. 69: DECEASED PERSON RESP.

ROW (CONTROL) VARIABLE NO. 323 MARITAL STATUS	COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											TOTAL	
	not taken	.01-04	.05-09	.10-14	.15-24	.25+	Negative	(9)	(10)	(11)	WILD		
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	WILD	TOTAL
(1) Married	0.0	0.0	4.8	0.0	2.4	20.2	10.7	0.0	10.7	0.0	0.0	0.0	48.8
(2) Single	0.0	0.0	1.2	2.4	6.0	7.1	7.1	0.0	6.0	0.0	0.0	0.0	29.8
(3) Divorced	0.0	0.0	0.0	0.0	1.2	2.4	2.4	0.0	2.4	0.0	0.0	0.0	8.3
(4) Separated	0.0	0.0	1.2	0.0	0.0	1.2	1.2	0.0	0.0	0.0	0.0	0.0	3.6
(5) Widowed	0.0	0.0	0.0	0.0	1.2	1.2	1.2	0.0	6.0	0.0	0.0	0.0	9.5
TOTAL	0.0	0.0	7.1	2.4	10.7	32.1	22.6	0.0	25.0	0.0	0.0	0.0	100.0

TABLE F-24. DISTRIBUTION OF ACCIDENT-RESPONSIBLE DRIVERS AND PEDESTRIANS BY MARITAL STATUS, B.A.L.

SELECTING ONLY THOSE CASES CODED ( 0- 0) ON VARIABLE NO. 69: DECEASED PERSON RESP.

ROW (CONTROL) VARIABLE NO. 323 MARITAL STATUS	not taken								Negative					WILD	TOTAL
( 0)	( 1)	( 2)	( 3)	( 4)	( 5)	( 6)	( 7)	( 8)	( 9)	( 10)	( 11)				
( 1) Married	0	2	3	1	4	3	2	0	14	0	0	0	0	29	
( 2) Single	0	0	4	1	0	4	1	0	6	0	0	0	0	16	
( 3) Divorced	0	0	1	0	1	1	0	0	2	0	0	0	0	5	
( 4) Separated	0	0	0	1	0	1	0	0	0	0	0	0	0	2	
( 5) Widowed	0	0	0	0	2	0	0	0	1	0	0	0	0	3	
TOTAL	0	2	8	3	7	9	3	0	23	0	0	0	0	55	

A

BIVARIATE PERCENTAGES (BASED ON ROW TOTALS)

SELECTING ONLY THOSE CASES CODED ( 0- 0) ON VARIABLE NO. 69: DECEASED PERSON RESP.

ROW (CONTROL) VARIABLE NO. 323 MARITAL STATUS	not taken								Negative					WILD	TOTAL
( 0)	( 1)	( 2)	( 3)	( 4)	( 5)	( 6)	( 7)	( 8)	( 9)	( 10)	( 11)				
( 1) Married	0.0	6.9	10.3	3.4	13.8	10.3	6.9	0.0	48.3	0.0	0.0	0.0	0.0	100.0	
( 2) Single	0.0	0.0	25.0	6.2	0.0	25.0	6.2	0.0	37.5	0.0	0.0	0.0	0.0	100.0	
( 3) Divorced	0.0	0.0	20.0	0.0	20.0	20.0	0.0	0.0	40.0	0.0	0.0	0.0	0.0	100.0	
( 4) Separated	0.0	0.0	0.0	50.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	
( 5) Widowed	0.0	0.0	0.0	0.0	66.7	0.0	0.0	0.0	33.3	0.0	0.0	0.0	0.0	100.0	
TOTAL	0.0	3.6	14.5	5.5	12.7	16.4	5.5	0.0	41.8	0.0	0.0	0.0	0.0	100.0	

B

BIVARIATE PERCENTAGES (BASED ON COLUMN TOTALS)

SELECTING ONLY THOSE CASES CODED ( 0- 0) ON VARIABLE NO. 69: DECEASED PERSON RESP.

ROW (CONTROL) VARIABLE NO. 323 MARITAL STATUS	not taken								Negative					WILD	TOTAL
( 0)	( 1)	( 2)	( 3)	( 4)	( 5)	( 6)	( 7)	( 8)	( 9)	( 10)	( 11)				
( 1) Married	0.0	100.0	37.5	33.3	57.1	33.3	66.7	0.0	60.9	0.0	0.0	0.0	0.0	52.7	
( 2) Single	0.0	0.0	50.0	33.3	0.0	44.4	33.3	0.0	26.1	0.0	0.0	0.0	0.0	29.1	
( 3) Divorced	0.0	0.0	12.5	0.0	14.3	11.1	0.0	0.0	8.7	0.0	0.0	0.0	0.0	9.1	
( 4) Separated	0.0	0.0	0.0	33.3	0.0	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	
( 5) Widowed	0.0	0.0	0.0	0.0	28.6	0.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	5.5	
TOTAL	0.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0	

C

BIVARIATE PERCENTAGES (BASED ON GRAND TOTALS)

SELECTING ONLY THOSE CASES CODED ( 0- 0) ON VARIABLE NO. 69: DECEASED PERSON RESP.

ROW (CONTROL) VARIABLE NO. 323 MARITAL STATUS	not taken								Negative					WILD	TOTAL
( 0)	( 1)	( 2)	( 3)	( 4)	( 5)	( 6)	( 7)	( 8)	( 9)	( 10)	( 11)				
( 1) Married	0.0	3.6	5.5	1.8	7.3	5.5	3.6	0.0	25.5	0.0	0.0	0.0	0.0	52.7	
( 2) Single	0.0	0.0	7.3	1.8	0.0	7.3	1.8	0.0	10.9	0.0	0.0	0.0	0.0	29.1	
( 3) Divorced	0.0	0.0	1.8	0.0	1.8	1.8	0.0	0.0	3.6	0.0	0.0	0.0	0.0	9.1	
( 4) Separated	0.0	0.0	0.0	1.8	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	
( 5) Widowed	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	5.5	
TOTAL	0.0	3.6	14.5	5.5	12.7	16.4	5.5	0.0	41.8	0.0	0.0	0.0	0.0	100.0	

D

TABLE F-25. DISTRIBUTION OF DRIVERS AND PEDESTRIANS NOT DESIGNATED ACCIDENT-RESPONSIBLE BY MARITAL STATUS, B. A. L.

BLOOD ALCOHOL DATA

BIVARIATE FREQUENCIES

TABLE # 41 DRIVERS PAGE # 13

ROW (CONTROL) VARIABLE NO. 338 SINGLE CAR ACCIDENT		COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											
	not taken ( 0) ( 1)	.01-04 ( 2)	.05-09 ( 3)	.10-14 ( 4)	.15-24 ( 5)	.25+ ( 6)	Negative ( 7) ( 8)		( 9)	( 10)	( 11)	WILD	TOTAL
( 1) Single car	0	2	1	2	12	7	0	9	0	0	0	0	33
( 2) Multiple car	0	1	4	1	10	15	7	0	13	0	0	0	51
TOTAL	0	1	6	2	12	27	14	0	22	0	0	0	84

A

BIVARIATE PERCENTAGES (BASED ON ROW TOTALS)

ROW (CONTROL) VARIABLE NO. 338 SINGLE CAR ACCIDENT		COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											
	not taken ( 0) ( 1)	.01-04 ( 2)	.05-09 ( 3)	.10-14 ( 4)	.15-24 ( 5)	.25+ ( 6)	Negative ( 7) ( 8)		( 9)	( 10)	( 11)	WILD	TOTAL
( 1) Single car	0.0	6.1	3.0	6.1	36.4	21.2	0.0	27.3	0.0	0.0	0.0	0.0	100.0
( 2) Multiple car	0.0	2.0	7.8	2.0	19.6	29.4	13.7	0.0	25.5	0.0	0.0	0.0	100.0
TOTAL	0.0	1.2	7.1	2.4	14.3	32.1	16.7	0.0	26.2	0.0	0.0	0.0	100.0

B

BIVARIATE PERCENTAGES (BASED ON COLUMN TOTALS)

ROW (CONTROL) VARIABLE NO. 338 SINGLE CAR ACCIDENT		COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											
	not taken ( 0) ( 1)	.01-04 ( 2)	.05-09 ( 3)	.10-14 ( 4)	.15-24 ( 5)	.25+ ( 6)	Negative ( 7) ( 8)		( 9)	( 10)	( 11)	WILD	TOTAL
( 1) Single car	0.0	33.3	50.0	16.7	44.4	50.0	0.0	40.9	0.0	0.0	0.0	0.0	39.3
( 2) Multiple car	0.0	100.0	66.7	50.0	83.3	55.6	50.0	59.1	0.0	0.0	0.0	0.0	60.7
TOTAL	0.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0

C

BIVARIATE PERCENTAGES (BASED ON GRAND TOTALS)

ROW (CONTROL) VARIABLE NO. 338 SINGLE CAR ACCIDENT		COLUMN (SPREAD) VARIABLE NO. 337 BLOOD GROUP											
	not taken ( 0) ( 1)	.01-04 ( 2)	.05-09 ( 3)	.10-14 ( 4)	.15-24 ( 5)	.25+ ( 6)	Negative ( 7) ( 8)		( 9)	( 10)	( 11)	WILD	TOTAL
( 1) Single car	0.0	2.4	1.2	2.4	14.3	8.3	0.0	10.7	0.0	0.0	0.0	0.0	39.3
( 2) Multiple car	0.0	1.2	4.8	1.2	11.9	17.9	8.3	0.0	15.5	0.0	0.0	0.0	60.7
TOTAL	0.0	1.2	7.1	2.4	14.3	32.1	16.7	0.0	26.2	0.0	0.0	0.0	100.0

D

TABLE F-26. DISTRIBUTION OF ALL DRIVERS BY SINGLE/MULTIPLE CAR ACCIDENTS, B.A.L.

Appendix G

BACKGROUND AND DRIVING RECORD QUESTIONNAIRE

## BACKGROUND AND DRIVING RECORD QUESTIONNAIRE

We would like to have you complete the following questionnaire as honestly and completely as possible. There are two parts to the questionnaire; the first part consists of questions concerning your background and personality, the second part deals with your driving record. Due to the personal nature of the information required, your answers will be held in strict confidence. The information will be used for research purposes only and will not be used against you in any way. To make sure that this is completely anonymous, please do not put your name on the questionnaire.

### IMPORTANT:

Please answer every question on the questionnaire. Work as rapidly as possible. Do not spend too much time on individual questions. We would like your first impressions, so try to answer with the first thing that comes to mind.

Thank you very much for your cooperation.

HIGHWAY SAFETY RESEARCH INSTITUTE  
University of Michigan Ann Arbor

Age: \_\_\_\_\_ Sex: \_\_\_\_\_ Religious Preference: \_\_\_\_\_

No. of brothers and sisters: \_\_\_\_\_

1. Did you lose a parent by death, divorce or separation before the age of fifteen? \_\_\_\_\_
2. Is there a history of mental illness or alcoholism in your family? \_\_\_\_\_
3. Did you have any problems as a child or adolescent? \_\_\_\_\_
4. Were you ever arrested? \_\_\_\_\_
5. How many traffic accidents have you been involved in when you were driving? \_\_\_\_\_
6. How many traffic violations (other than parking tickets) have you had? \_\_\_\_\_
7. How old were you when you had your first alcoholic drink? \_\_\_\_\_
8. Where did you have your first alcoholic drink? \_\_\_\_\_
9. If you were asked to draw a picture of a person or an animal, which would you prefer to draw first?  
Animal: \_\_\_\_\_ Person: \_\_\_\_\_ (check one)
10. Do you live in a:  
rented house \_\_\_\_\_ house owned by yourself \_\_\_\_\_ flat \_\_\_\_\_  
apartment \_\_\_\_\_ room \_\_\_\_\_ boarding house \_\_\_\_\_  
other \_\_\_\_\_ (check one)
11. What is the population of your city or town? (check one)  
5000 or less: \_\_\_\_\_ 5000-25,000: \_\_\_\_\_ 25,000-50,000 \_\_\_\_\_  
50,000-100,000: \_\_\_\_\_ 100,000-250,000: \_\_\_\_\_ over 250,000: \_\_\_\_\_
12. How many states have you lived in in your lifetime? \_\_\_\_\_
13. Did you ever receive any honors in high school? \_\_\_\_\_
14. Did you graduate in the top third of your high school class? \_\_\_\_\_
15. Did you participate in any extracurricular activities in high school? \_\_\_\_\_
16. Are you employed now? \_\_\_\_\_
17. Are you married? \_\_\_\_\_
18. What is your political preference?  
Democrat \_\_\_\_\_ Republican \_\_\_\_\_ Other \_\_\_\_\_ (check one)
19. Do you smoke? \_\_\_\_\_
20. Do you drink coffee? \_\_\_\_\_

	<u>YES</u>	<u>NO</u>
1. I had a happy family life as a child.		
2. I become sad quickly.		
3. A drinking spree gives me a wonderful feeling of release and freedom from worry.		
4. My home life is happy.		
5. I am very sensitive and self-analytical.		
6. I have had a number of strange and unusual experiences.		
7. I have a strong and clear faith in life.		
8. I often feel I am being held back from doing things I want to do most.		
9. I would rather go to a dinner or banquet than drink.		
10. I often have queer sensations in my fingers and toes.		
11. I feel myself to be alone in the world.		
12. I often feel I am being neglected.		
13. I have lived a good life.		
14. I often am afraid I will not be able to sleep.		
15. I often have a strong desire to leave home.		
16. I have good reasons for getting drunk.		
17. I quickly lose my interest or enthusiasm.		
18. My friends feel that I am as successful in life as I should be.		
19. I sometimes make movements without being aware of them.		
20. I often worry about things I fear.		
21. I often feel guilty without knowing why I feel guilty.		
22. I go on a spree every few months and stay drunk for a few days.		
23. I sometimes become sad or depressed for no good reason.		
24. I often feel tired, have trouble sleeping and have a poor appetite.		
25. My mother worried a great deal over me.		



	<u>YES</u>	<u>NO</u>
26. I have been unhappy in love.		
27. I am very sensitive to what people think about me.		
28. I always feel there is something between me and the rest of the world.		
29. It is easy for me to forget unpleasant experiences.		
30. I feel alone when among people.		
31. I cry easily.		
32. I need a drink or two to get started in my work.		
33. I often fool myself.		
34. I often feel uncomfortable and blue.		
35. I often feel wound up.		
36. I like to celebrate when I am happy.		
37. I drink only to join the fun.		
38. I often am so deep in thoughts that I do not notice what is going on around me.		
39. I have trouble sleeping.		
40. I know how to relax and take things easy.		
41. I wish people would stop telling me how to live my life.		
42. I frequently feel my muscles quiver.		
43. I often am afraid without knowing why I am afraid.		
44. My home life is as happy as it should be.		
45. I drink because I am unlucky in love.		
46. I become easily annoyed when I am arguing.		
47. I often go out of my way to avoid talking to someone I do not like.		
48. I take an active interest in politics.		
49. I am looking for something but don't know what it is.		
50. I graduated from high school.		
51. I have a strong need for someone to love me.		

	<u>YES</u>	<u>NO</u>
52. I often take a drink or two in the middle of the afternoon.		
53. Too much was expected from me as a child.		
54. People often misunderstand me.		
55. I need the help of God.		
56. I drink at regular times.		
57. I am very much interested in my work.		
58. People often take advantage of me.		
59. I spend too much time having a good time.		
60. My family should be more considerate and understanding.		
61. I would like to be more independent than I am.		
62. I often feel as if I were not myself.		
63. I would rather go to a movie than drink.		
64. I eat at regular hours.		
65. I feel shy with members of the same sex.		
66. My feelings and emotions change rapidly.		
67. I often have feelings of vague restlessness.		
68. I tremble when I am excited or afraid.		
69. Lately I have been mixing with many new groups of people.		
70. Drinking puts me at ease with people.		
71. My friends are much happier than I am.		
72. I feel tense and anxious most of the time.		
73. I swear a good deal.		
74. I am moderate in all my habits.		
75. My friends are more polite to me than are my relatives.		
76. I drink liquor too fast.		
77. I am much different from most people.		
78. I was often unhappy because of sadness.		

	<u>YES</u>	<u>NO</u>
79. I am satisfied with the way I live.		
80. I would rather go to a dance than drink.		
81. I often feel bored and uneasy.		
82. I often pity myself.		
83. I can make up a good story to get out of a tight spot.		
84. My life is quiet and peaceful.		
85. I feel that it is certainly best to keep my mouth shut when I'm in trouble.		
86. At times I feel like smashing things.		
87. My judgement is better than it ever was.		
88. I control my drinking at all times.		
89. I have not lived the right kind of life.		
90. I do many things which I regret afterwards (I regret more often than others seem to).		
91. I go to church most every week.		
92. I have met problems so full of possibilities that I have been unable to make up my mind about them.		
93. My hardest battles are with myself.		
94. I know who is responsible for most of my troubles.		
95. Do you worry about catching diseases?		
96. I like to cook.		
97. Drinking speeds up life for me.		
98. I would like to be a soldier.		
99. At times I feel like picking a fist fight with someone.		
100. I am neither gaining nor losing weight.		
101. I have used alcohol excessively.		
102. I think I would like the work of a contractor.		
103. I drink entirely too much.		
104. Is it hard for you to ask help from friends when you cannot return the favor?		

	<u>YES</u>	<u>NO</u>
105. My relatives are nearly all in sympathy with me.		
106. I have been disappointed in love.		
107. I am entirely self-confident.		
108. I have very few fears compared to my friends.		
109. I am always disgusted with the law when a criminal is freed through the arguments of a good lawyer.		
110. Are you likely to speak to people before they speak to you?		
111. Have you ever been in trouble with the law?		
112. There never was a time in my life when I liked to play with dolls.		
113. I prefer to dine in restaurants which serve drinks.		
114. I worry over money and business.		
115. My father or mother often made me obey when I thought it was unreasonable.		
116. I feel anxiety about something or someone almost all the time.		
117. I usually have to stop and think before I act even in trifling matters.		
118. I have a habit of counting things that are not important such as bulbs of electric signs, and so forth.		
119. I tend to be on my guard with people who are somewhat more friendly than I had expected.		
120. I often have the desire to take a drink or two.		
121. I get anxious and upset when I have to make a short trip away from home.		
122. Sometimes some unimportant thought will run through my mind and bother me for days.		
123. I am inclined to take things hard.		
124. I feel uneasy indoors.		
125. Even when I am with people I feel lonely much of the time.		
126. When I am feeling very happy and active someone who is blue or low will spoil it all.		

	<u>YES</u>	<u>NO</u>
127. A drink or two is the best way to get quick energy or pep.		
128. Are you bothered when you see women smoke?		
129. People often disappoint me.		
130. I like to keep people guessing what I'm going to do next.		
131. The only miracles I know are simply tricks that other people play on one another.		
132. Drinking has changed my personality a good deal.		
133. It makes me feel like a failure when I hear of the success of someone I know well.		
134. If given the chance I would make a good leader of people.		
135. I have had some very unusual religious experiences.		
136. One or more members of my family is very nervous.		
137. I am embarrassed by dirty stories.		
138. Drinking disturbs my sleep.		
139. I have strong political opinions.		
140. I used to have imaginary companions.		
141. People usually demand more respect for their own rights than they are willing to allow for others.		
142. I drink to get over my feelings of inferiority.		
143. It is all right to get around the law if you don't actually break it.		
144. I enjoy gambling for small stakes.		
145. I have one or more bad habits which are so strong that it is no use in fighting against them.		
146. I have used alcohol moderately (or not at all).		
147. I have several times had a change of heart about my life work.		
148. I drink because I am unhappy or sad.		
149. I am fascinated by fire.		

	<u>YES</u>	<u>NO</u>
150. Whenever possible I avoid being in a crowd.		
151. If I were in trouble with several friends who were equally to blame, I would rather take the blame than to give them away.		
152. Christ performed miracles such as changing water into wine.		
153. It is unusual for me to express strong approval or disapproval of the actions of others.		
154. I have had periods when I felt so full of pep that sleep did not seem necessary for days at a time.		
155. I drink about a pint of whiskey a week.		
156. I think Lincoln was greater than Washington.		
157. Some of my family have quick tempers.		
158. Are you afraid of picking up a disease or germs from door knobs?		
159. Are you bothered by a great deal of belching of gas from your stomach?		
160. If I were an artist I would like to draw children.		
161. I sometimes feel that I am about to go to pieces.		
162. I drink because I like to drink and want to drink.		
163. A large number of people are guilty of bad sexual conduct.		
164. I am greatly bothered by forgetting where I put things.		
165. If people had not had it in for me I would have been much more successful.		
166. During one period when I was a youngster I engaged in petty thievery.		
167. I would rather attend a lecture or concert than drink.		
168. My family does not like the work I have chosen (or the work I intend to choose for my life work).		
169. I am sure I get a raw deal from life.		
170. At times I have very much wanted to leave home.		
171. No one seems to understand me.		
172. I find it hard to keep my mind on a task or job.		
173. I have had very peculiar and strange experiences.		

	<u>YES</u>	<u>NO</u>
174. I drink much more now than five years ago.		
175. I wish I could be as happy as others seem to be.		
176. These days I find it hard not to give up hope of amounting to something.		
177. Much of the time I feel as if I have done something wrong or evil.		
178. Someone has it in for me.		
179. In school I was sometimes sent to the principal for cutting up.		
180. Some of my best friends are heavy drinkers.		
181. There is very little love and companionship in my family as compared to other homes.		
182. My parents have often objected to the kind of people I went around with.		
183. My way of doing things is apt to be misunderstood by others.		
184. My parents and family find more fault with me than they should.		
185. I am sure I am being talked about.		
186. My daily life is full of things that keep me interested.		
187. I drink to make life more pleasant.		
188. My sex life is satisfactory.		
189. Have you ever been in trouble because of your sex behavior?		
190. I am easily downed in an argument.		
191. A drink or two before a conference, interview or social affair helps me very much.		
192. Do you mind being made fun of?		
193. I have very few quarrels with members of my family.		
194. I am happy most of the time.		
195. I take a drink or two before a date.		
196. At times my thoughts have raced ahead faster than I could speak them.		

	<u>YES</u>	<u>NO</u>
197. I believe that my home life is as pleasant as that of most people I know.		
198. My conduct is largely controlled by the customs of those people about me.		
199. Does what others think of you bother you?		
200. I often go to a cheaper neighborhood to do my drinking.		
201. It makes me uncomfortable to put on a stunt at a party even when others are doing the same sort of things.		
202. I liked school.		
203. I find it hard to make talk when I meet new people.		
204. I am against giving money to beggars.		
205. Do you wish that you were not so shy?		
206. I like to talk about sex.		
207. I get drunk about every payday.		
208. I have been quite independent and free from family rule.		
209. Sometimes without any reason or even when things are going wrong I feel excitedly happy, "on top of the world."		
210. When in a group of people I have trouble thinking of the right things to talk about.		
211. I have periods in which I feel unusually cheerful without any special reason.		
212. I drink because it braces me up.		
213. I have had periods in which I carried on activities without knowing later what I had been doing.		
214. I sweat very easily even on cool days.		
215. My parents have often objected to the kind of people I went around with.		
216. It is necessary for some people to drink.		
217. I played hooky from school quite often as a youngster.		
218. I would like to wear expensive clothes.		
219. As a youngster I was suspended from school one or more times for cutting up.		



	<u>YES</u>	<u>NO</u>
220. While in trains, buses, etc., I often talk to strangers.		
221. I pray several times every week.		
222. I deserve severe punishment for my sins.		
223. I have had blank spells in which my activities were interrupted and I did not know what was going on around me.		
224. I need the friendship I find in drinking places.		
225. I have a cough most of the time.		
226. My table manners are not quite as good at home as when I am out in company.		
227. I have few or no pains.		
228. I like to read newspaper articles on crime.		
229. I am worried about sex matters.		
230. I drink whenever I have the chance.		
231. My soul sometimes leaves my body.		
232. The sight of blood neither frightens me nor makes me sick.		
233. Do you find it hard to keep your mind on one thing?		
234. The one to whom I was most attached and whom I most admired as a child was a woman. (Mother, sister, aunt, or other woman.)		
235. I have more trouble concentrating than others seem to have.		
236. I drink to ease my pain.		
237. I am a good mixer.		
238. I enjoy a race or game better when I bet on it.		
239. I frequently notice my hand shakes when I try to do something.		
240. Everything is turning out just like the prophets of the Bible said it would.		
241. I was fond of excitement when I was young (or in childhood).		
242. After a few drinks I swear easily.		

	<u>YES</u>	<u>NO</u>
243. I have at times had to be rough with people who were rude or annoying.		
244. If I were a reporter I would very much like to report sporting news.		
245. I am certainly lacking in self-confidence.		
246. I have frequently worked under people who seem to have things arranged so that they get credit for good work, but are able to pass off mistakes onto those under them.		
247. When I am sober, I feel bored and restless.		
248. I readily become one hundred percent sold on a good idea.		
249. I think I would like the kind of work a forest ranger does.		
250. Evil spirits possess me at times.		
251. Many of my dreams are about sex matters.		
252. I have often felt that strangers were looking at me critically.		
253. I used to keep a diary.		
254. I go on a bender at least once a month.		
255. I seem to make friends about as quickly as others do.		
256. Have you ever vomited blood or coughed up blood?		
257. Have you ever indulged in any unusual sex practices?		
258. I usually pass out after I start drinking.		
259. I used to like drop-the-handkerchief.		
260. I hardly ever notice my heart pounding and I am seldom short of breath.		
261. I enjoy detective or mystery stories.		
262. I am more sensitive than most other people.		
263. I would certainly enjoy beating a crook at his own game.		
264. I often have blackouts when I am drinking.		
265. Have you ever been in trouble with the law?		
266. There seems to be a fullness in my head or nose most of the time.		

	<u>YES</u>	<u>NO</u>
267. The future is too uncertain for a person to make serious plans.		
268. Do you seldom or never have dizzy spells?		
269. I am very seldom troubled by constipation.		
270. Have you ever had any breaking out on your skin that has worried you?		
271. I drink because it takes away my shyness.		
272. I must admit that I have at times been worried beyond reason over something that really did not matter.		
273. Sometimes I have the same dream over and over.		
274. I have had no difficulty in starting or holding my bowel movement.		
275. I get high about once or twice a week.		
276. Once a week or oftener I become very excited.		
277. Most people will use somewhat unfair means to gain profit or an advantage rather than to lose it.		
278. Sometimes I become so excited that I find it hard to get to sleep.		
279. I resent having anyone take me in so cleverly that I have to admit that it was one on me.		
280. I often have pleasant burning sensations in my throat.		
281. Sometimes when I am not feeling well I am cross.		
282. I can remember "playing sick" to get out of something.		
283. I have been inspired to a program of life based on duty which I have since carefully followed.		
284. Once in a while I feel hate toward members of my family whom I usually love.		
285. I drink often at regular times.		
286. I am quite often not in on the gossip and talk of the group I belong to.		
287. I wake up fresh and rested most mornings.		
288. I get mad easily and then get over it soon.		
289. My speech is the same as always (not faster or slower, or slurring; no hoarseness).		

	<u>YES</u>	<u>NO</u>
290. At parties I am more likely to sit by myself or with just one other person than to join in with the crowd.		
291. I take a drink or two when I feel happy.		
292. I easily become impatient with people.		
293. I almost never dream.		
294. I very much like horseback riding.		
295. I was a slow learner in school.		
296. It takes a lot of argument to convince most people of the truth.		
297. I have had periods in which I lost sleep over worry.		
298. I drink to relax.		
299. Do you have a great fear of snakes?		
300. I like to be with a crowd who play jokes on one another.		
301. I enjoy social gatherings just to be with people.		
302. I like to study and read about things that I am working on.		
303. When I was a child I belonged to a crowd or gang that tried to stick together through thick and thin.		
304. I have sometimes felt that difficulties were piling up so high that I could not overcome them.		
305. I refuse to play some games because I am not good at them.		
306. I need a drink or two in the morning.		
307. I have difficulty in starting to do things.		
308. It is always a good thing to be frank.		
309. Often I can't understand why I have been so cross and grouchy.		
310. When in a group of people I have trouble thinking.		
311. I have had periods of days, weeks or months when I couldn't take care of things because I couldn't get going.		
312. I drink to forget my sins.		

	<u>YES</u>	<u>NO</u>
313. I have long periods of such great restlessness that I cannot sit long in a chair.		
314. I am often sorry because I am so cross and grouchy.		
315. Most people inwardly dislike putting themselves out to help other people.		
316. I frequently find myself worrying about something.		
317. I am often so annoyed when someone tries to get ahead of me in a line of people that I speak to him about it.		
318. I take a drink or two everyday.		
319. I am a high-strung person.		
320. Do you blame a person for taking advantage of someone who lays himself open to it?		
321. I dream frequently.		
322. At times I think I am no good at all.		
323. My people treat me more like a child than a grown-up.		
324. I would rather drink alone than with others.		
325. I used to like hopscotch.		
326. Are your feelings easily hurt?		
327. I often memorize numbers that are not important (such as automobile licenses, etc.)		
328. I drink to forget my troubles.		
329. Except by a doctor's orders do you ever take drugs or sleeping powders.		
330. At times I have very much wanted to leave home.		
331. What others think of me does not bother me.		
332. I shrink from facing a crisis or difficulty.		
333. I enjoy children.		
334. I have never had any black, tarry-looking bowel movements.		
335. My family thinks I drink too much.		
336. I believe that a person should never taste an alcoholic drink.		

	<u>YES</u>	<u>NO</u>
337. Criticism or scolding hurts me terribly.		
338. I hate to have to rush when working.		
339. My skin seems to be unusually sensitive to touch.		
340. I enjoy the excitement of a crowd.		
341. I certainly feel useless at times.		
342. I go on a weekend drunk now and then.		
343. When someone says silly or ignorant things about something I know about, I try to set him right.		
344. I enjoy many different kinds of play and recreation.		
345. I am afraid when I look down from a high place.		
346. I like to attend lectures on serious subjects.		
347. I have often felt badly over being misunderstood when trying to keep someone from making a mistake.		
348. People who never drink are dull company.		
349. The man who provides temptation by leaving valuable property unprotected is about as much to blame for its theft as the one who steals it.		
350. Most people are honest chiefly through fear of being caught.		
351. People can pretty easily change me even though I thought my mind was already made up on the subject.		
352. I am apt to take disappointments so keenly that I can't put them out of my mind.		
353. I like parties and socials.		
354. I worry quite a bit over possible misfortune.		
355. My friends think I'm a heavy drinker.		
356. I work under a great deal of tension.		
357. At times I feel like picking a fist fight with someone.		
358. Sometimes at elections I vote for men about whom I know very little.		
359. Most nights I go to sleep without thoughts or ideas bothering me.		

	<u>YES</u>	<u>NO</u>
360. My father is (or was) a heavy drinker.		
361. I love to go to dances.		
362. It makes me nervous to have to wait.		
363. In a group of people would you be embarrassed to be called upon to start a discussion or give an opinion about something you know well?		
364. All people who drink get drunk at some time or other.		

In the following questions NA means No Answer.  
Circle the response which is most appropriate for you.

	<u>RESPONSE</u>
365. I feel weak all over much of the time.	1. Yes 2. No 3. NA
366. In general, would you say that most of the time you are in high (very good) spirits, good spirits, low spirits, or very low spirits?	1. High 2. Good 3. Low 4. Very Low 5. NA
367. Every so often I suddenly feel hot all over.	1. Yes 2. No 3. NA
368. Have you ever been bothered by your heart beating hard? Would you say: often, sometimes, or never?	1. Often 2. Sometimes 3. Never 4. NA
369. Would you say your appetite is poor, fair, good or too good?	1. Poor 2. Fair 3. Good 4. Too Good 5. NA
370. Are you the worrying type (a worrier)?	1. Yes 2. No 3. NA
371. Have you ever been bothered by shortness of breath when you were not exercising or working hard? Would you say: often, sometimes, or never?	1. Often 2. Sometimes 3. Never 4. NA
372. Are you ever bothered by nervousness (irritable, fidgety, tense)? Would you say: often, sometimes, or never?	1. Often 2. Sometimes 3. Never 4. NA
373. Have you ever had any fainting spells (lost consciousness)? Would you say: never, a few times, or more than a few times?	1. Never 2. A few times 3. More than a few times 4. NA

374. Do you ever have any trouble in getting to sleep or staying asleep? Would you say: often, sometimes, or never?
1. Often
  2. Sometimes
  3. Never
  4. NA
- 
375. I am bothered by acid (sour) stomach several times a week.
1. Yes
  2. No
  3. NA
- 
376. My memory seems to be all right (good).
1. Yes
  2. No
  3. NA
- 
377. Have you ever been bothered by "cold sweats?" Would you say: often, sometimes, or never?
1. Often
  2. Sometimes
  3. Never
  4. NA
- 
378. Do your hands ever tremble enough to bother you? Would you say: often, sometimes, or never?
1. Often
  2. Sometimes
  3. Never
  4. NA
- 
379. There seems to be a fullness (clogging) in my head or nose much of the time.
1. Yes
  2. No
  3. NA
- 
380. I have personal worries that get me down physically (make me feel physically ill).
1. Yes
  2. No
  3. NA
- 
381. Do you feel somewhat apart even among friends (apart, isolated, alone)?
1. Yes
  2. No
  3. NA
- 
382. Nothing ever turns out for me the way I want it to (turns out, happens, comes about, i.e., my wishes aren't fulfilled).
1. Yes
  2. No
  3. NA
- 
383. Are you ever troubled with headaches or pains in the head? Would you say: often, sometimes, or never?
1. Often
  2. Sometimes
  3. Never
  4. NA
- 
384. You sometimes can't help wondering if anything is worthwhile anymore.
1. Yes
  2. No
  3. NA
- 
385. In the matter of alcoholic beverages: (check one)
- Are you a) a total abstainer?
  - Do you b) drink on rare occasions?
  - Do you c) drink occasionally?
  - Are you d) a moderate drinker?
  - Are you e) a heavy drinker?



	<u>YES</u>	<u>NO</u>
386. Did you ever do anything of which your classmates would disapprove if they knew?		
387. Did you ever seriously consider running away from home?		
388. Did your parents ever jump to conclusions concerning you without waiting to hear your side of the story?		
389. Did your high school teachers all treat you as a friend?		
390. Do you think that your parents feel that they understand you?		
391. Did you enjoy talking over your activities and your prospects with your parents during high school days?		
392. Do you often hurt other people's feelings without meaning to do it?		
393. Do you have a habit of contradicting people?		
394. Does anyone hate you?		
395. Do you find it very difficult to refrain from talking about others?		
396. Are you inclined to study the motives of others?		
397. Physical comforts add more to human happiness than does high morality.		
398. You can't get anywhere in this world without money.		
399. Would you rather have \$10,000 than a high-school and college education?		
400. Success would be just as pleasing to me if gained through money and pull rather than through my own efforts.		
401. The average person is about as honest as he need be.		
402. Do you have a friend who is not accepted by others?		
403. I would condemn the person who kept the money when a mistake in change is made to his advantage.		
404. While in high school, if a friend asked you to tell the answer on a test, did you refuse?		
405. Is it impractical to be loyal when this loyalty would hurt yourself?		

	<u>YES</u>	<u>NO</u>
406. Do you hesitate to lend your personal property even to close friends?		
407. I prefer to be a citizen of the world rather than a citizen of one country.		
408. Would you send your children to school in Europe?		
409. Turkish people should not be admitted to our country as citizens.		
410. On the whole, race prejudice is beneficial, for it keeps many undesirable foreigners from this country.		
411. The Japanese race is on the whole crafty and treacherous.		
412. Censorship of speech, press, and entertainment should be abolished.		
413. The Continental attitude towards mistresses is saner than ours.		
414. Cremation is the best method of burial.		
415. Historic heroes should be "debunked."		
416. Do you favor a U.S. Government lottery as a means of raising revenue.		
417. On the whole, women are unsuccessful and unsatisfactory in political office.		
418. The increased economic independence of women is not a good movement.		
419. Truly great women will always be far less numerous than truly great men.		
420. A woman's place is in the home and not in the business world.		
421. Should the United States have the largest naval and air forces?		
422. Military training should continue to receive strong support in our universities.		
423. Should the United States build an air force to prevent attack from the air?		
424. It is hard to decide whether wars do more harm than good.		
425. Are you often bored and restless?		
426. Do you constantly desire excitement and adventure?		

	<u>YES</u>	<u>NO</u>
427. Are you often depressed and moody?		
428. Do you sometimes feel afraid to face the future?		
429. Life has no particular purpose.		
430. Are you very jumpy at unexpected sounds?		
431. While listening to a lecture does your hand keep active in drawing or writing when not taking notes?		
432. Does the thought of living your whole life only with the members of your own sex make you unhappy?		
433. Are you usually considered to be indifferent to the opposite sex?		
434. Would you rather lose \$100 than pass-out from drinking?		
435. When moderately used, alcoholic liquor adds appreciably to human happiness.		
436. There is less drunkenness since the abolition of Prohibition.		
437. Science should endeavor to discover and develop a harmless liquor retaining all the good features of alcohol but lacking all its harmful features.		
438. Is smoking important to your happiness?		
439. Do you smoke more than the average individual of your sex?		
440. Would you like to play poker?		
441. Would you like to act on the stage?		
442. Would you like to attend a graduation?		
443. Would you like to go to a boxing match?		
444. Would you like to use a typewriter?		
445. Would you like to visit an observatory?		
446. Would you like to shoot quail?		
447. Would you like to attend a murder trial?		
448. Would you like to swing on a swing in the park?		
449. Would you like to hunt wild flowers?		
450. Do you like to argue?		

	<u>YES</u>	<u>NO</u>
451. Do you like to overhear an argument?		
452. Do you frequently engage in an argument?		

The following questions consist of a brief inventory designed to estimate your reactions in terms of past, present, and future. Please indicate for each statement below whether it most nearly refers to the past, present, or future, by placing an X in the appropriate column. Be sure to place only one X for each statement. In the "Age" column, indicate your best guess of your age at the time to which the statement refers. In cases where a statement applies to a time in the future less than a year from now, list under the "Age" column your present age.

Here are two examples to show you how to fill out the inventory.

Example 1: I am answering these questions in the

Past	Present	Future	Age
	X		Your current age

Example 2: My death is in the

Past	Present	Future	Age
		X	85

In Example 1, since you are currently answering these questions, you would place the X under the "Present" column, and under the "Age" column you would list your current age.

In Example 2, since you expect to die in the future, you would place the X under the "Future" column. Your guess might be that you will die at the age of 85, and therefore you write "85" under the "Age" column.

Please complete every statement below, even though you may have to make wild guesses. Be sure to list an age for every item, and be sure that ages listed for "Future" items are greater than your present age (unless less than a year from now) and ages listed for "Past" items are less than your present age. List a single age for each item, not an age range.

453. The most important time of my life is probably to be found in the

Past	Present	Future	Age
------	---------	--------	-----

454. I believe the happiest time of my life is to found in the

Past	Present	Future	Age
------	---------	--------	-----

455. The period of my life during which I have gotten the most done is to be found in the

Past	Present	Future	Age
------	---------	--------	-----

456. The most peaceful time of my life is to be found in the  
 Past Present Future Age
457. I usually like best to talk about the  
 Past Present Future Age
458. The most satisfying period of my life is probably to be found in the  
 Past Present Future Age
459. My period of greatest success is probably to be found in the  
 Past Present Future Age
460. The most untroubled period of my life is probably to be found in the  
 Past Present Future Age
461. I get the most pleasure out of thinking about the  
 Past Present Future Age
462. The most unhappy time of my life is to found in the  
 Past Present Future Age
463. I believe the most difficult time of my life is to be found in the  
 Past Present Future Age
464. The most frightening time of my life is to found in the  
 Past Present Future Age
465. The time of greatest worrying is probably to be found in the  
 Past Present Future Age
466. The time in my life during which things most often go wrong is to  
 be found in the  
 Past Present Future Age
467. The saddest time of my life is probably to be found in the  
 Past Present Future Age
468. I feel the most trying period of my life is to be found in the  
 Past Present Future Age
469. The most anxious time of my life is to found in the  
 Past Present Future Age

470. The most troubled period of my life is probably to be found in the
- |      |         |        |     |
|------|---------|--------|-----|
| Past | Present | Future | Age |
|------|---------|--------|-----|
471. The period of my life during which I am most likely to feel like giving up trying is to be found in the
- |      |         |        |     |
|------|---------|--------|-----|
| Past | Present | Future | Age |
|------|---------|--------|-----|
472. The busiest time of my life is probably to be found in the
- |      |         |        |     |
|------|---------|--------|-----|
| Past | Present | Future | Age |
|------|---------|--------|-----|
473. The most religious time of my life is probably to be found in the
- |      |         |        |     |
|------|---------|--------|-----|
| Past | Present | Future | Age |
|------|---------|--------|-----|
474. Most of my daydreams are about the
- |      |         |        |     |
|------|---------|--------|-----|
| Past | Present | Future | Age |
|------|---------|--------|-----|
475. My most important decisions are usually based mostly on the
- |      |         |        |     |
|------|---------|--------|-----|
| Past | Present | Future | Age |
|------|---------|--------|-----|
476. I most often dream about the
- |      |         |        |     |
|------|---------|--------|-----|
| Past | Present | Future | Age |
|------|---------|--------|-----|
477. My most active period is probably to be found in the
- |      |         |        |     |
|------|---------|--------|-----|
| Past | Present | Future | Age |
|------|---------|--------|-----|
478. Most of my thinking about religion is probably to be found in the
- |      |         |        |     |
|------|---------|--------|-----|
| Past | Present | Future | Age |
|------|---------|--------|-----|
479. Most of my fantasies are about the
- |      |         |        |     |
|------|---------|--------|-----|
| Past | Present | Future | Age |
|------|---------|--------|-----|
480. In making plans I usually think mostly about the
- |      |         |        |     |
|------|---------|--------|-----|
| Past | Present | Future | Age |
|------|---------|--------|-----|
481. Most of my dreams are usually about the
- |      |         |        |     |
|------|---------|--------|-----|
| Past | Present | Future | Age |
|------|---------|--------|-----|

How many traffic tickets (not parking tickets) have you received.

- 1) for which you were convicted \_\_\_\_\_
- 2) for which you were subsequently not convicted \_\_\_\_\_

How many traffic accidents have you been involved in when you were driving. Count all accidents in which property damage exceeding \$25.00 occurred, whether or not they were reported. \_\_\_\_\_

Starting with the most recent accident describe each accident as accurately as possible; for those questions where a choice of answers is given, write down the one you consider to be most true.



(a) Date: Month \_\_\_\_\_ Year \_\_\_\_\_


Time: \_\_\_\_\_ AM/PM


- (b) Type of road: Freeway  Rural   
 Urban   
 Secondary Rural   
 Urban

(c) Circle the kind of accident:

(1) Head-on 

(2) Side  your car      Side  your car

(3) Rear—your car A 

(4) Rear—your car B 

(5) Object/Pedestrian 

(6) Loss of Control

	Own	Other	Pedes-
	Car	Vehicle	trian

(d) Number of people injured \_\_\_\_\_  
 Number of people killed \_\_\_\_\_

(e) INDICATE THE MAKE AND MODEL OF THE CAR YOU WERE DRIVING.

Make: \_\_\_\_\_ Model: \_\_\_\_\_

(f) Were you driving for  Personal or  business reasons, at the time of the accident?

(g) Make and model of other vehicle involved.  
 Make: \_\_\_\_\_ Model: \_\_\_\_\_

(h) Do you think you were  mostly to blame  
 partly to blame  not to blame?

(i) Had you been drinking within an hour of the accident?  
 Yes  No

(j) Do you think the other party had been drinking shortly before the accident?  Yes  No  Don't know

(k) How many miles were you from home when the accident occurred.  0-10  10-25  25-100  
 100-250  more than 250

(l) Was the vehicle equipped with seat belts?  
 Yes  No

(m) Were you wearing the seat belt at the time of the accident?  Yes  No





Appendix H

SAMPLE QUESTIONNAIRE FROM A SEMINAR ON  
ALCOHOL-RELATED TRAFFIC OFFENSES

SEMINAR ON ALCOHOL RELATED TRAFFIC OFFENSES

Date \_\_\_\_\_

Location: ( ) Macomb County  
( ) Oakland County

1. Name \_\_\_\_\_ 2. Social Security No. \_\_\_\_\_
- Sex \_\_\_\_\_ 4. Birth Date \_\_\_\_\_ 5. Marital Status: Never Married ( )  
Now Married ( )  
Widowed ( )  
Separated ( )  
Divorced ( )
6. Religious Preference \_\_\_\_\_ Denomination \_\_\_\_\_
7. Country of Father's Birth \_\_\_\_\_
8. Country of Mother's Birth \_\_\_\_\_
9. Country of Your Birth \_\_\_\_\_
10. Were you raised in: a city ( ), a small town ( ), the country ( )?
11. Please circle highest grade you completed in school:  

<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
grammar school								high school				college					
12. Military Service: ( ) yes, ( ) no  
 If yes, a) Branch: ( ) Army ( ) Air Force ( ) Coast Guard ( ) Marines  
 ( ) Navy ( ) Other \_\_\_\_\_  
 please specify  
 b) Type: ( ) Regular Active Duty ( ) Reserves only ( ) National Guard  
 c) Time: \_\_\_\_\_  
 Approx. Beginning Date \_\_\_\_\_ Approx. Discharge Date \_\_\_\_\_  
 d) Highest rank attained \_\_\_\_\_
13. About how many years have you lived in your present community? \_\_\_\_\_
14. List all persons living with you now \_\_\_\_\_  
 (examples: wife, 1 son, 2 daughters, father, mother, self)
15. How many jobs have you had in the last year? \_\_\_\_\_
16. What is your present position? \_\_\_\_\_  
 (job description)  
 a. full or part-time? (circle one)      b. number of dependants \_\_\_\_\_  
 (including self)
17. How long have you been in your present job? \_\_\_\_\_ years \_\_\_\_\_ months
18. If your usual occupation differs from No. 15, what is it? \_\_\_\_\_
19. Have you ever been hospitalized? Yes ( ) No ( )  
 a. If yes, where, when and for what (last admission)? \_\_\_\_\_
20. Have you ever before had any special instructions about alcohol use and misuse?  
 Yes ( ) No ( )  
 a. If yes, what kind of instructions and where? \_\_\_\_\_
21. How often do you drink alcoholic beverages: daily ( ), once or twice a week ( )  
 once or twice a month ( ), special occasions only ( ), never ( ).  
 2. When you drink, what's your usual alcoholic beverage? \_\_\_\_\_
23. Would you like to comment about your attendance at this seminar? \_\_\_\_\_
24. Any other comments? \_\_\_\_\_