

ERRATA
TRI-LEVEL STUDY OF THE CAUSES
OF TRAFFIC ACCIDENTS: INTERIM REPORT I

VOLUME I Research Findings
Report No. DOT-HS-034-3-535-73-TAC

Credits Page, Under Multidisciplinary Team Members
Change: Jahanbakhsh Benham, Ph.D.
To read: Jahanbakhsh Behnam, Ph.D.

Page 8
Change: Casual Factor
To read: Causal Factor

Page 35
Change: Vehicular Factors

Tires & Wheels	14.0	17.9	9.2	3.2	12.2	13.6
Brake System	1.3	5.3	2.6	1.6	3.7	4.2

To read: Vehicular Factors

Tires & Wheels	14.0	17.9	9.2	3.2	12.2	13.6
Tires & Wheels	4.3	5.3	2.6	1.6	3.7	4.2
Brake System	3.0	7.9	2.9	1.6	3.0	6.1

Page 36, Figure 3-4, 3. Vehicle
Change: 5.7
To read: 13.6
Change: 13.6
To read: 5.7

Page 37
Change: page number 37
To read: 38

Page 38
Change: page number 38
To read: 37

Page 39, Figure 3-6, 4. Improper Evasive Action
Change: In-depth bar at 15 percent
To read: 18.2 percent

ERRATA continued

Page 72, Figure 3-15

Change: 27.73

To read: 22.73

Page 128, 6.3.1, Line 5

Change: .975

To read: .965

Page 131: replace with page 131

Pages 142-151—replace with pages 142-151

Page 199, Glossary

Change: J.Carrett

To read: J. Garrett

Table 6-3

Driver Subclasses More Involved in Alcohol-Related Than in General Accidents

Rank	Driver Subclass	Difference in Involvement Ratios
1	Separated	26.333
2	Laborer	4.657
3	Divorced	4.400
4	\$3-\$5,999 Family Income	4.183
5	Widowed	3.209
6	Yearly Mileage 31,000+	3.180
7	Yearly Mileage 26-30,999	2.085
8	Vocational or Technical High School	1.750
9	Driver Age 35-44	1.133
10	High School Graduate	1.030
11	Occupation "Other"	.842
12	20-29 Years' Driving Experience	.760
13	Vehicle Familiarity Under 7 Months	.757
14	Yearly Mileage 21-25,999	.639
15	Drivers Training Not Taken	.612
16	Vehicle Familiarity 73+ Months	.600
17	Under \$3,000 Family Income	.597
18	10-19 Years' Driving Experience	.588
19	Vehicle Familiarity 25-36 Months	.432
20	Semi-skilled Worker	.380
21	Male	.356
22	Driver Age 45-54	.345
23	\$6-\$7,999 Family Income	.339
24	40-49 Years' Driving Experience	.334
25	Driver Age 25-34	.222
26	Yearly Mileage 16-20,999	.120
27	30-39 Years' Driving Experience	.110
28	White Collar Worker	.070

Table 6-5

General-Accident Involvement Frequencies for Major Causal Factors, by Driver Age (N = 735)

Causal Factor		Age Categories, Sample Percentages						
		≤ 20	20-24	25-34	35-44	45-54	55-64	65+
	A	24.1	28.6	17.4	10.9	8.0	4.8	6.3
Inattention	B	21.6	28.4	15.7	7.5	13.4	6.7	6.7
	C	16.4	18.1	16.4	12.5	30.5	25.7	19.6
	D	14.7	18.0	14.8†	8.6	51.9*	35.8/†	20.8
Improper Lookout	B	18.5	29.4	13.4	12.6	11.8	2.5	11.8
	C	12.4	16.7	12.5	18.7	23.7	8.6	30.4
	D	9.5	17.2	9.6	21.6†	34.9†	4.5	56.9*/†
View Obstructions	B	19.4	33.3	15.7	10.2	7.4	6.5	7.4
	C	11.9	17.1	13.3	13.8	13.6	20.0	17.4
	D	9.6	19.9†	12.0	12.9	12.5	27.1*	20.4
Excessive Speed	B	41.6	27.7	10.9	10.9	3.0	3.0	3.0
	C	23.7	13.3	8.6	13.8	5.1	8.6	6.5
	D	40.9*/†	12.9	5.4	13.8	1.9	5.4	3.1
False Assumption	B	20.7	28.7	18.4	12.6	9.2	5.7	4.6
	C	10.2	11.9	12.5	13.8	13.6	14.3	8.7
	D	8.8	11.9	13.2	15.9	15.6	17.0*	6.3
Improper Evasive Action	B	23.1	34.6	12.8	7.7	6.4	7.7	7.7
	C	10.2	12.9	7.8	7.5	8.5	17.1	13.0
	D	9.8	15.6	5.7	5.2	6.8	27.4*	15.9

A = % of Accident-Involved Drivers Represented by Driver Subgroup; e.g., 24.1% of Drivers were 20 yrs. old or younger.

B = % of Total Accidents Caused by Specified Factor, Occurring Within Specified Driver Subgroup; e.g., 21.6% of All "Inattention" Accidents were Caused by Drivers 20 years or younger.

C = % of Driver Subgroup's Accidents Caused by Specified Factor; e.g., 16.4% of all 20 yr. old or younger Drivers' Accidents were caused by Inattention.

D = Adjusted % of Driver Subgroup's Accidents Caused by Specified Factor (= BC/A); e.g., 14.7% of 20 yr. old or younger Drivers' Accidents were caused by Inattention, Taking into Account the % of Inattention Accidents which the Size of this Subgroup Warrants.

*Indicates Highest "D" Figure for the Causal Factor in that row.

†Indicates Highest "D" Figure for the Driver Subgroup in that column.

Table 6-6

General-Accident Involvement Frequencies for Major Causal Factors, by Driver Sex (N = 751)

Causal Factor		Sex Categories, Sample Percentages	
		Male	Female
	A	68.6	31.4
Inattention	B	68.6	31.2
	C	18.8	18.6
	D	18.8*/†	18.5
Improper Lookout	B	62.6	37.4
	C	15.0	19.5
	D	13.7	23.2*/†
View Obstructions	B	63.3	36.7
	C	13.4	16.9
	D	12.4	19.7*
Excessive Speed	B	80.4	19.6
	C	15.9	8.5
	D	18.6*	5.3
False Assumption	B	60.9	39.1
	C	10.3	14.4
	D	9.1	17.9*
Improper Evasive Action	B	64.6	35.4
	C	9.9	11.9
	D	9.3	13.4*

A = % of Accident-Involved Drivers Represented by Driver Subgroup.

B = % of Total Accidents Caused by Specified Factor, Occurring Within Specified Driver Subgroup.

C = % of Driver Subgroup's Accidents Caused by Specified Factor.

D = Adjusted % of Driver Subgroup's Accidents Caused by Specified Factor (= BC/A).

*Indicates Highest "D" Figure for the Causal Factor in that row.

†Indicates Highest "D" Figure for the Driver Subgroup in that column.

Table 6-7

General-Accident Involvement Frequencies for Major Causal Factors, by Driver Marital Status (N = 187)

Causal Factor		Marital Status Categories, Sample Percentages		
		Single	Married	Separated, Divorced or Widowed
	A	51.3	42.2	6.4
Inattention	B	37.5	59.4	3.1
	C	12.5	24.1	8.3
	D	9.2	33.9*†	4.0
Improper Lookout	B	56.0	40.0	4.0
	C	14.6	12.7	8.3
	D	15.9*	12.0	5.2
View Obstructions	B	48.0	48.0	4.0
	C	12.5	15.2	8.3
	D	11.7	17.3*	5.2
Excessive Speed	B	69.7	24.2	6.1
	C	24.0	10.1	16.7
	D	32.6*†	5.8	15.9†
False Assumption	B	46.7	46.7	6.7
	C	7.3	8.9	8.3
	D	6.6	9.8*	8.7
Improper Evasive Action	B	55.6	44.4	0.0
	C	10.4	10.1	0.0
	D	11.3*	10.6	0.0

A = % of Accident-Involved Drivers Represented by Driver Subgroup.

B = % of Total Accidents Caused by Specified Factor, Occurring Within Specified Driver Subgroup.

C = % of Driver Subgroup's Accidents Caused by Specified Factor.

D = Adjusted % of Driver Subgroup's Accidents Caused by Specified Factor (= BC/A).

*Indicates Highest "D" Figure for the Causal Factor in that row.

†Indicates Highest "D" Figure for the Driver Subgroup in that column.

Table 6-8

General-Accident Involvement Frequencies for Major Causal Factors, by Driver Educational Level (N = 188)

Causal Factor		Educational Categories, Sample Percentages			
		Less Than High School Graduate	High School, Voc. or Tech. School Graduate	Attended College	College Graduate or Higher
	A	27.7	30.9	23.9	17.5
Inattention	B	24.2	24.2	27.3	24.2
	C	15.4	13.8	20.0	24.2
	D	13.4	10.8	22.8	33.4*
Improper Lookout	B	12.5	20.8	29.2	37.5
	C	5.8	8.6	15.6	27.2
	D	2.6	5.8	19.0	58.3*/†
View Obstructions	B	24.0	24.0	32.0	20.0
	C	11.5	10.3	17.8	15.1
	D	10.0	8.0	23.8*/†	17.2
Excessive Speed	B	41.2	29.4	23.5	5.9
	C	26.9	17.2	17.8	6.1
	D	40.0*/†	16.4†	17.5	2.1
False Assumption	B	40.0	13.3	13.3	33.3
	C	11.5	3.4	4.4	15.1
	D	16.6	1.5	2.4	28.7*
Improper Evasive Action	B	22.2	33.3	33.3	11.1
	C	7.7	10.3	13.3	6.1
	D	6.2	11.1	18.5*	3.9

A = % of Accident-Involved Drivers Represented by Driver Subgroup.

B = % of Total Accidents Caused by Specified Factor, Occurring Within Specified Driver Subgroup.

C = % of Driver Subgroup's Accidents Caused by Specified Factor.

D = Adjusted % of Driver Subgroup's Accidents Caused by Specified Factor (= BC/A).

*Indicates Highest "D" Figure for the Causal Factor in that row.

†Indicates Highest "D" Figure for the Driver Subgroup in that column.

Table 6-9

General-Accident Involvement Frequencies for Major Causal Factors, by Driver Family Income (N = 159)

Causal Factor		Income Categories, Sample Percentages		
		< \$6,000	\$6-14,999	≥\$15,000
Inattention	A	22.6	61.7	15.7
	B	13.8	62.1	24.1
	C	11.1	18.4	28.0
	D	6.8	18.5	42.9* / †
Improper Lookout	B	26.3	52.6	21.0
	C	13.8	10.2	16.0
	D	16.1†	8.7	21.4*
View Obstructions	B	25.0	65.0	10.0
	C	13.8	13.3	8.0
	D	15.3*	14.0	5.1
Excessive Speed	B	14.3	71.4	14.3
	C	11.1	20.4	16.0
	D	7.0	23.6* / †	14.6
False Assumption	B	7.7	92.3	0.0
	C	2.8	12.2	0.0
	D	0.9	18.2*	0.0
Improper Evasive Action	B	14.3	64.3	21.4
	C	5.5	9.2	12.0
	D	3.5	9.6	16.4*

A = % of Accident-Involved Drivers Represented by Driver Subgroup.

B = % of Total Accidents Caused by Specified Factor, Occurring Within Specified Driver Subgroup.

C = % of Driver Subgroup's Accidents Caused by Specified Factor.

D = Adjusted % of Driver Subgroup's Accidents Caused by Specified Factor (= BC/A).

*Indicates Highest "D" Figure for the Causal Factor in that row.

†Indicates Highest "D" Figure for the Driver Subgroup in that column.

Table 6-10

General-Accident Involvement Frequencies for Major Causal Factors, by Driver Occupation (N = 181)

Causal Factor	Occupation Categories, Sample Percentages							
		Farmer or Laborer	Semi-Skilled	Skilled	White Collar	Professional	Student	Housewife/other
	A	17.7	7.7	8.8	9.4	10.5	38.7	7.1
Inattention	B	16.1	9.7	9.7	6.4	16.1	29.0	12.9
	C	15.6	21.4	18.7	11.8	26.3	12.9	30.8
	D	14.2	27.0	20.6†	8.0	40.3	9.7	56.0*/†
Improper Lookout	B	24.0	0.0	0.0	0.0	20.0	44.0	12.0
	C	18.7	0.0	0.0	0.0	26.3	15.7	15.4
	D	25.4†	0.0	0.0	0.0	50.1*/†	17.8	26.0
View Obstructions	B	20.8	8.3	0.0	12.5	4.2	45.8	8.3
	C	15.6	14.3	0.0	17.6	5.3	15.7	15.4
	D	18.3	15.4	0.0	23.4*/†	2.1	18.6	18.0
Excessive Speed	B	17.1	14.3	5.7	2.8	11.4	42.8	5.6
	C	18.7	35.7	12.5	5.9	21.1	21.4	12.4
	D	18.1	66.3*/†	8.1	17.6	22.9	23.7†	9.95
False Assumption	B	0.0	0.0	13.3	13.3	13.3	53.3	6.7
	C	0.0	0.0	12.5	11.8	16.5	11.4	7.7
	D	0.0	0.0	18.8	16.7	20.9*	15.7	7.3
Improper Evasive Action	B	10.5	5.3	10.5	10.5	10.5	47.4	5.3
	C	6.2	7.1	12.5	11.8	10.5	12.9	7.7
	D	3.6	4.9	14.9	13.2	10.5	15.8*	5.7

A = % of Accident-Involved Drivers Represented by Driver Subgroup.
 B = % of Total Accidents Caused by Specified Factor, Occurring Within Specified Driver Subgroup.
 C = % of Driver Subgroup's Accidents Caused by Specified Factor.
 D = Adjusted % of Driver Subgroup's Accidents Caused by Specified Factor (= BC/A).

*Indicates Highest "D" Figure for the Causal Factor in that row.
 †Indicates Highest "D" Figure for the Driver Subgroup in that column.

Table 6-11

General-Accident Involvement Frequencies for Major Causal Factors, by Driving Experience Level in Years (N = 773)

Causal Factor	Experience Categories, Sample Percentages							
		<5	5-9	10-19	20-29	30-39	40-49	50+
	A	36.1	17.2	13.8	8.4	4.5	4.9	15.0
Inattention	B	34.2	25.6	22.2	9.4	4.3	0.9	3.4
	C	16.8	16.5	15.0	21.5	34.3	15.8	23.3
	D	15.9	24.6	24.1†	24.0	32.8*/†	2.9	5.3†
Improper Lookout	B	37.5	17.0	17.0	13.4	6.3	4.5	4.5
	C	16.8	9.8	19.6	32.3	2.9	10.5	15.5
	D	17.4	9.7	24.1†	51.5*/†	4.1	9.6	4.6
View Obstructions	B	36.0	20.0	20.0	9.0	6.0	3.0	6.0
	C	13.6	15.8	13.1	18.5	14.3	21.1	12.1
	D	13.6	18.4	19.0	19.8*	19.1	12.9	4.8
Excessive Speed	B	45.7	28.4	18.5	2.5	2.5	1.2	1.2
	C	16.5	12.0	11.2	6.2	11.4	5.3	18.1
	D	20.9*/†	19.8	15.0	18.4	6.3	1.3	1.4
False Assumption	B	28.2	24.7	12.9	12.9	10.6	4.7	5.9
	C	9.7	18.0	11.2	21.5	5.7	15.8	2.6
	D	7.6	25.8†	10.5	33.0*	13.4	15.2†	1.0
Improper Evasive Action	B	40.3	20.8	12.5	15.3	5.6	4.2	1.4
	C	11.5	13.5	5.6	7.7	14.3	13.2	8.6
	D	12.8	16.3	5.1	14.0	17.8*	11.2	0.8

A = % of Accident-Involved Drivers Represented by Driver Subgroup.

B = % of Total Accidents Caused by Specified Factor, Occurring Within Specified Driver Subgroup.

C = % of Driver Subgroup's Accidents Caused by Specified Factor.

D = Adjusted % of Driver Subgroup's Accidents Caused by Specified Factor (= BC/A).

*Indicates Highest "D" Figure for the Causal Factor in that row.

†Indicates Highest "D" Figure for the Driver Subgroup in that column.

Table 6-12

General-Accident Involvement Frequencies for Major Causal Factors, by Driver's Recent Yearly Mileage (N = 533)

Causal Factor		Mileage Categories, Sample Percentages						
		< 6,000	6,000-10,999	11,000-15,999	16,000-20,999	21,000-25,999	26,000-30,999	31,000+
Inattention	A	18.0	29.3	21.0	13.7	6.9	3.4	7.7
	B	10.5	23.2	27.4	14.7	9.5	4.2	10.5
	C	10.4	14.1	23.2	19.2	24.3	22.2	24.4
	D	6.1	11.2	30.3†	20.6	3.3	27.4†	33.3*/†
Improper Lookout	B	18.4	43.7	20.7	6.9	5.7	0.0	4.6
	C	16.7	24.4	16.1	8.2	13.5	0.0	9.8
	D	17.1	36.4*/†	15.9	4.1	11.1	0.0	5.8
View Obstructions	B	18.7	37.3	16.0	9.3	8.0	4.0	6.7
	C	14.6	17.9	10.7	9.6	16.2	16.7	12.2
	D	15.2	22.8*	8.1	6.5	18.8	19.6	10.6
Excessive Speed	B	24.2	19.4	16.1	21.0	8.1	4.8	6.5
	C	15.6	7.7	8.9	17.8	13.5	16.7	9.8
	D	21.0†	5.1	6.8	27.3*/†	15.8	23.6	8.3
False Assumption	B	18.7	32.8	21.9	12.5	7.8	4.7	1.6
	C	12.5	13.5	12.5	11.0	13.5	16.7	2.4
	D	13.0	15.1	13.0	10.0	15.3	23.1*	0.5
Improper Evasive Action	B	12.3	29.8	29.8	10.5	12.3	1.8	3.5
	C	7.3	10.9	15.2	8.2	18.9	5.6	4.9
	D	5.0	11.9	21.6	6.3	33.7*/†	3.0	2.2

A = % of Accident-Involved Drivers Represented by Driver Subgroup.

B = % of Total Accidents Caused by Specified Factor, Occurring Within Specified Driver Subgroup.

C = % of Driver Subgroup's Accidents Caused by Specified Factor.

D = Adjusted % of Driver Subgroup's Accidents Caused by Specified Factor (= BC/A).

*Indicates Highest "D" Figure for the Causal Factor in that row.

†Indicates Highest "D" Figure for the Driver Subgroup in that column.

Table 6-13

General-Accident Involvement Frequencies for Major Causal Factors, by Vehicle Familiarity in Years (N = 665)

Causal Factor		Vehicle Familiarity (Years)						
		<1/2	1/2 - 1	1 - 2	2 - 3	3 - 4	4 - 5	5+
	A	39.7	21.2	17.7	9.8	4.4	3.5	3.8
Inattention	B	34.2	25.6	22.2	9.4	4.3	0.9	3.4
	C	15.2	21.3	22.0	16.9	17.2	4.3	16.0
	D	13.1	25.7†	27.6*/†	16.2	16.8	1.1	14.3
Improper Lookout	B	37.5	17.0	17.0	13.4	6.3	4.5	4.3
	C	15.9	13.5	16.1	23.1	24.1	21.7	20.0
	D	15.0	10.8	15.5	31.6†	34.5*	27.9†	22.6
View Obstructions	B	36.0	20.0	20.0	9.0	6.0	3.0	6.0
	C	13.6	14.2	16.9	13.8	20.7	13.0	24.0
	D	12.3	13.4	19.1	12.7	28.2	11.1	38.0*/†
Excessive Speed	B	45.7	28.4	18.5	2.5	2.5	1.2	0.8
	C	14.0	16.3	12.7	3.1	6.9	4.3	4.0
	D	16.1†	21.8*	13.3	0.8	3.9	1.5	0.8
False Assumption	B	28.2	24.7	12.9	12.9	10.6	4.7	4.3
	C	9.1	14.9	9.3	16.9	31.0	17.4	20.0
	D	6.5	17.4	6.8	22.2	74.7*/†	23.4	22.6
Improper Evasive Action	B	40.3	20.8	12.5	15.3	5.6	4.2	0.8
	C	11.0	10.6	7.6	16.9	13.8	13.0	4.0
	D	11.2	10.4	5.4	26.4*	17.5	15.6	0.8

A = % of Accident-Involved Drivers Represented by Driver Subgroup.

B = % of Total Accidents Caused by Specified Factor, Occurring Within Specified Driver Subgroup.

C = % of Driver Subgroup's Accidents Caused by Specified Factor.

D = Adjusted % of Driver Subgroup's Accidents Caused by Specified Factor (= BC/A).

*Indicates Highest "D" Figure for the Causal Factor in that row.

†Indicates Highest "D" Figure for the Driver Subgroup in that column.

Table 6-14

General-Accident Involvement Frequencies for Major Causal Factors, by Driver Training Exposure (N = 188)

Causal Factor	Exposure Categories, Sample Percentages		
		Driver Training Taken (a)	Driver Training NOT Taken
	A	62.2	37.8
Inattention	B	57.6	42.4
	C	16.4	19.7
	D	15.2†	22.0*/†
Improper Lookout	B	60.0	40.0
	C	12.9	14.1
	D	12.4	14.9*
View Obstructions	B	60.0	40.0
	C	12.9	14.1
	D	12.4	14.9*
Excessive Speed	B	57.6	42.4
	C	16.4	19.7
	D	15.2†	22.0*/†
False Assumption	B	66.7	33.3
	C	8.6	7.0
	D	9.2*	6.2
Improper Evasive Action	B	75.5	23.5
	C	11.2	5.6
	D	13.8*	3.5

A = % of Accident-Involved Drivers Represented by Driver Subgroup.

B = % of Total Accidents Caused by Specified Factor, Occurring Within Specified Driver Subgroup.

C = % of Driver Subgroup's Accidents Caused by Specified Factor.

D = Adjusted % of Driver Subgroup's Accidents Caused by Specified Factor (= BC/A).

*Indicates Highest "D" Figure for the Causal Factor in that row.

†Indicates Highest "D" Figure for the Driver Subgroup in that column.