

Transportation Data Center  
Data Set Codebook

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The University of Michigan  
Transportation Research Institute



STATE OF MICHIGAN  
1991 MOTOR VEHICLE ACCIDENT CODEBOOK

INTRODUCTION

This codebook documents data sets describing motor vehicle accidents that occurred in the State of Michigan during calendar year 1991. The data sets were developed by the Transportation Data Center at the University of Michigan's Transportation Research Institute from data supplied by the Michigan State Police. The cooperation of that agency is gratefully acknowledged.

Four separate data set categories have been built from the original Motor Vehicle Accident data supplied by the state.

- 1) All accidents that occurred in Michigan in 1991, known as the "Census" data.
- 2) A 5% random sample of all accidents. These data sets were constructed from the original data through a computer-generated random sampling technique. The actual accident sample fraction is 0.049714.
- 3) All accidents in which at least one large truck was involved. Large trucks were defined by code values 08 and 09 for variable 104 as described in the codebook.
- 4) All accidents in which at least one person was fatally injured.

The table below provides summary information for each of the categories (such as the "key" that provides access in ADAAS).

Each of the four data set categories have been constructed in three distinct formats: an Accident data set, a Vehicle data set, and an Occupant data set.

- 1) The Accident data set (described by variables 1 through 56) includes one record for each accident. General accident information not specific to any vehicle or its occupants is found in this data set (e.g., time of day, accident type, etc.).

## 1991 MICHIGAN DATA SETS

CATEGORY	KEY	VARIABLES	CASES
Census	MIC91ACC	1-56	364,847
	MIC91VEH	1-56, 101-152	613,936
	MIC91OCC	1-56, 101-152, 201-210	886,976
5% Sample	MIS91ACC	1-56	18,138
	MIS91VEH	1-56, 101-152	30,465
	MIS91OCC	1-56, 101-152, 201-210	43,813
Large Truck	MIT91ACC	1-56	15,616
	MIT91VEH	1-56, 101-152	29,168
	MIT91OCC	1-56, 101-152, 201-210	37,140
Fatal	MIF91ACC	1-56	1,290
	MIF91VEH	1-56, 101-152	2,220
	MIF91OCC	1-56, 101-152, 201-210	3,423

- 2) The Vehicle data set (described by variables 1 through 56, and 101 through 152) includes one record for every "traffic unit" (motor vehicles, pedestrians, pedalcyclists, etc.) involved in the accident. Variables 101 through 152 describe specific characteristics of the traffic unit, while 1 through 56 repeat the accident description.
- 3) The Occupant data set (described by variables 1 through 56, 101 through 152, and 201 through 210) includes one record for every occupant involved in the accident. Variables 201 through 210 describe specific characteristics of the traffic unit occupants, while 1 through 56, and 101 through 152, repeat the accident and traffic unit descriptions. Occupant records for DRIVERS contain data from the original MSP vehicle record while passengers of vehicles, pedestrians, and occupants of 'other' traffic unit types contain data from the MSP occupant record.

This codebook documents the variable names and code values for all the individual Michigan data sets. However, the univariate frequency counts and percentages for each variable apply to the Census data sets. In using the univariate frequencies, the following convention should be noted: frequencies for variables 1 through 56 were derived from the Accident data set, frequencies for variables 101 through 152 were derived from the Vehicle data set, frequencies for variables 201 through 210 were derived from the Occupant data set.

The definitions of the code values described in the codebook were taken from a document known as the "Accident Master File Tape Layout" (Revision February 5, 1988) that was produced by the Data Processing Section of the Michigan Criminal Justice Data Center.

While every effort has been made to provide accurate, reliable data, inconsistencies may arise from the source data or from the reformatting procedures used. Consequently, the Data Center cannot guarantee the accuracy of the data but will try to correct any discrepancies that are found. Any comments or suggestions concerning the data or the codebook may be made by calling the Data Center at (734) 763-3230 or by emailing TDC-UMTRI@umich.edu.

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STATE OF MICHIGAN  
1991 - Accident

Variable Number	Variable Name	Width	Storage Type	Page Number
1	CASE SEQUENCE NUMBER	6	Numeric	1
2	ACCIDENT MONTH	2	Numeric	1
3	ACCIDENT DAY	2	Numeric	1
4	ACCIDENT YEAR	2	Numeric	1
5	TIME OF DAY	2	Numeric	2
6	WEEK OF YEAR	2	Numeric	2
7	JULIAN DAY FROM 03-01-00	5	Numeric	3
8	DAY OF WEEK	1	Numeric	3
9	HOUR OF WEEK	3	Numeric	4
10	HIGHWAY DEPT DISTRICT	1	Numeric	7
11	STATE POLICE POST	2	Numeric	8
12	COUNTY	2	Numeric	9
13	CITY OR TOWNSHIP	2	Numeric	11
14	ROUTE THROUGH COUNTY	3	Numeric	11
15	MILES IN CONTROL SECTION	4	Numeric	11
16	HIGHWAY NUMBER	3	Numeric	11
17	HIGHWAY AREA TYPE	1	Numeric	12
18	HIGHWAY AREA CODE	2	Numeric	12
19	ACCIDENT LOCATION	1	Numeric	14
20	HIGHWAY CLASS	1	Numeric	14
21	HIGHWAY CLASS SUBSCRIPT	1	Numeric	14
22	ROAD ALIGNMENT	1	Numeric	14
23	ROAD SURFACE	1	Numeric	15
24	ROAD DEFECT	1	Numeric	15
25	TRAFFIC CONTROL	2	Numeric	15
26	CONSTRUCTION ZONE	1	Numeric	15
27	WEATHER	1	Numeric	16
28	LIGHT	1	Numeric	16
29	POPULATION	2	Numeric	16
30	ACCIDENT TYPE	2	Numeric	16
31	ACC ANALYSIS - WHERE	1	Numeric	17
32	ACC ANALYSIS - HOW	2	Numeric	17
33	ACC ANALYSIS SUBSCRIPT	2	Numeric	18
34	SPECIAL ACCIDENT TAG	2	Numeric	20
35	ACCIDENT TYPE SUBSCRIPT	2	Numeric	20
36	NSC ACC CIRCUMSTANCE	2	Numeric	21
37	TWO VEH ACC SUBSCRIPT	1	Numeric	21
38	ACCIDENT CONFIGURATION	1	Numeric	21
39	TRAFFIC UNIT MIX	2	Numeric	22
40	DRINKING IN ACCIDENT	1	Numeric	22
41	PED INVOLVED IN ACCIDENT	1	Numeric	23
42	ACCIDENT INVESTIGATED BY	1	Numeric	23
43	INVESTIGATED AT SCENE	1	Numeric	23
44	ENFORCEMENT IN ACCIDENT	1	Numeric	23
45	SEVERITY OF ACCIDENT	1	Numeric	24
46	TOTAL TRAFFIC UNITS	2	Numeric	24
47	TOTAL MOVING VEHICLES	2	Numeric	24
48	WORST INJURY IN ACC	1	Numeric	25
49	TOTAL KILLED IN ACC	2	Numeric	25
50	TOTAL A INJURED IN ACC	2	Numeric	25

STATE OF MICHIGAN  
1991 - Accident

<u>Variable Number</u>	<u>Variable Name</u>	<u>Width</u>	<u>Storage Type</u>	<u>Page Number</u>
51	TOTAL B INJURED IN ACC	2	Numeric	25
52	TOTAL C INJURED IN ACC	2	Numeric	26
53	TOTAL INJURED IN ACC	2	Numeric	26
54	TOTAL CASUALTIES IN ACC	2	Numeric	27
55	TOTAL UNINJURED IN ACC	2	Numeric	27
56	LEIN POLICE DEPT NUMBER	3	Numeric	28



STATE OF MICHIGAN  
1991 - Vehicle

Variable Number	Variable Name	Width	Storage Type	Page Number
101	TRAFFIC UNIT NUMBER	2	Numeric	29
102	TRAFFIC UNIT TYPE	2	Numeric	29
103	VEHICLE MAKE	2	Numeric	30
104	VEHICLE TYPE	2	Numeric	31
105	NSC VEHICLE TYPE	2	Numeric	31
106	YEAR MANUFACTURED	2	Numeric	32
107	VEHICLE CONDITION	1	Numeric	33
108	VEHICLE DRIVEN/TOWED	1	Numeric	33
109	TRAILER TYPE	1	Numeric	34
110	TRUCK CARGO TYPE	1	Numeric	34
111	TRUCK CARGO SPILLAGE	1	Numeric	34
112	DRIVER INTENT	2	Numeric	34
113	PEDESTRIAN INTENT	2	Numeric	35
114	DIRECTION OF TRAVEL	1	Numeric	35
115	OBJECT HIT	2	Numeric	36
116	SITUATION	1	Numeric	36
117	IMPACT CODE	2	Numeric	37
118	VEHICLE DAMAGE SEVERITY	1	Numeric	37
119	FUEL LEAK OR FIRE	1	Numeric	37
120	HIT AND RUN DRIVER	1	Numeric	38
121	DRINKING OR DRUG USE	1	Numeric	38
122	DRINKING TEST RESULT	1	Numeric	38
123	VISUAL OBSTRUCTION	1	Numeric	38
124	CONTRIBUTNG CIRCUMSTANCE	2	Numeric	39
125	HAZARDOUS ACTION	2	Numeric	39
126	POLICE ACTION	1	Numeric	39
127	TU TOTAL OCCUPANTS	1	Numeric	40
128	LF RESTRAINT USAGE	1	Numeric	40
129	CF RESTRAINT USAGE	1	Numeric	40
130	RF RESTRAINT USAGE	1	Numeric	41
131	LR RESTRAINT USAGE	1	Numeric	41
132	CR RESTRAINT USAGE	1	Numeric	41
133	RR RESTRAINT USAGE	1	Numeric	42
134	TOTAL OCC UNRESTRAINED	1	Numeric	42
135	TOTAL OCC RESTRAINED	1	Numeric	42
136	TOTAL OCC W UNK RES USE	1	Numeric	43
137	DRIVER HELMET USE	1	Numeric	43
138	PASSENGER HELMET USE	1	Numeric	43
139	TU WORST INJURY	1	Numeric	43
140	TU TOTAL KILLED	2	Numeric	44
141	TU TOTAL A INJURED	2	Numeric	44
142	TU TOTAL B INJURED	2	Numeric	44
143	TU TOTAL C INJURED	2	Numeric	44
144	TU TOTAL INJURED	2	Numeric	45
145	TU TOTAL CASUALTIES	2	Numeric	45
146	TU TOTAL UNINJURED	1	Numeric	46
147	DRIVER/PED AGE	2	Numeric	46
148	DRIVER/PED AGE MSP GRPS	2	Numeric	46
149	DRIVER/PED AGE 5YR GRPS	2	Numeric	47
150	DRIVER/PED SEX	1	Numeric	47

STATE OF MICHIGAN  
1991 - Vehicle

<u>Variable Number</u>	<u>Variable Name</u>	<u>Width</u>	<u>Storage Type</u>	<u>Page Number</u>
151	DRIVER/PED RESIDENCE	1	Numeric	48
152	VIN	11	Alphabetic	48

STATE OF MICHIGAN  
1991 - Occupant

<u>Variable Number</u>	<u>Variable Name</u>	<u>Width</u>	<u>Storage Type</u>	<u>Page Number</u>
201	OCCUPANT NUMBER	2	Numeric	49
202	OCCUPANT LOCATION	1	Numeric	49
203	OCCUPANT POSITION	1	Numeric	50
204	OCCUPANT RESTRAINT USE	1	Numeric	50
205	OCCUPANT HELMET USE	1	Numeric	50
206	OCCUPANT AGE	2	Numeric	50
207	OCCUPANT AGE NSC GRPS	2	Numeric	51
208	OCCUPANT AGE 5YR GRPS	2	Numeric	51
209	OCCUPANT SEX	1	Numeric	52
210	OCCUPANT INJURY SEVERITY	1	Numeric	52



The ACCIDENT Variables

Variables 1 through 56 describe the accident. They are included in the Accident, Vehicle, and Occupant data sets. The Accident data set includes these variables and no others.

Variable 1	CASE SEQUENCE NUMBER	Width: 6	Type: Numeric
		Dec: None	Miss: 0

Variable 2	ACCIDENT MONTH	Width: 2	Type: Numeric
		Dec: None	Miss: 99

Census Prcnt      Code Value and Description

32809	9.0	1	January
28231	7.7	2	February
25045	6.9	3	March
25429	7.0	4	April
28531	7.8	5	May
28339	7.8	6	June
27733	7.6	7	July
27676	7.6	8	August
27463	7.5	9	September
35539	9.7	10	October
39227	10.8	11	November
38825	10.6	12	December
0	0.0	99	Missing data

Variable 3	ACCIDENT DAY	Width: 2	Type: Numeric
		Dec: None	Miss: 99

Census Prcnt      Code Value and Description

11365	3.1	1	
		-	Day of month
6482	1.8	31	
0	0.0	99	Missing data

Variable 4	ACCIDENT YEAR	Width: 2	Type: Numeric
		Dec: None	Miss: 99

Census Prcnt      Code Value and Description

364847	100.0	91	1991
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STATE OF MICHIGAN  
1991 - Accident

Variable 5	TIME OF DAY	Width: 2	Type: Numeric
		Dec: None	Miss: 25

Census Prcnt	Code	Value and Description
9097	2.5	1 12:00 mid. - 1:00 a.m.
8048	2.2	2 1:00 a.m. - 2:00 a.m.
7970	2.2	3 2:00 a.m. - 3:00 a.m.
4532	1.2	4 3:00 a.m. - 4:00 a.m.
3433	0.9	5 4:00 a.m. - 5:00 a.m.
4904	1.3	6 5:00 a.m. - 6:00 a.m.
8974	2.5	7 6:00 a.m. - 7:00 a.m.
15700	4.3	8 7:00 a.m. - 8:00 a.m.
14563	4.0	9 8:00 a.m. - 9:00 a.m.
12041	3.3	10 9:00 a.m. - 10:00 a.m.
13497	3.7	11 10:00 a.m. - 11:00 a.m.
16772	4.6	12 11:00 a.m. - 12:00 noon
20058	5.5	13 12:00 noon - 1:00 p.m.
18797	5.2	14 1:00 p.m. - 2:00 p.m.
22458	6.2	15 2:00 p.m. - 3:00 p.m.
27278	7.5	16 3:00 p.m. - 4:00 p.m.
27554	7.6	17 4:00 p.m. - 5:00 p.m.
28875	7.9	18 5:00 p.m. - 6:00 p.m.
23587	6.5	19 6:00 p.m. - 7:00 p.m.
19036	5.2	20 7:00 p.m. - 8:00 p.m.
15771	4.3	21 8:00 p.m. - 9:00 p.m.
15227	4.2	22 9:00 p.m. - 10:00 p.m.
13589	3.7	23 10:00 p.m. - 11:00 p.m.
11960	3.3	24 11:00 p.m. - 12:00 mid.
1126	0.3	25 Unknown

Variable 6	WEEK OF YEAR	Width: 2	Type: Numeric
		Dec: None	Miss: 99

Census Prcnt	Code	Value and Description
7731	2.1	1 January 1 - January 7
7511	2.1	2 January 8 - January 14
6699	1.8	3 January 15 - January 21
7651	2.1	4 January 22 - January 28
6825	1.9	5 January 29 - February 4
5159	1.4	6 February 5 - February 11
10789	3.0	7 February 12 - February 18
5182	1.4	8 February 19 - February 25
8446	2.3	9 February 26 - March 3
5182	1.4	10 March 4 - March 10
5033	1.4	11 March 11 - March 17
5121	1.4	12 March 18 - March 24
5458	1.5	13 March 25 - March 31
5740	1.6	14 April 1 - April 7
6121	1.7	15 April 8 - April 15
6310	1.7	16 April 15 - April 21
5779	1.6	17 April 22 - April 28
6017	1.6	18 April 29 - May 5

Variable 6:WEEK OF YEAR (Continued)

Census Prcnt	Code	Value and Description
6205	1.7	19 May 6 - May 12
6272	1.7	20 May 13 - May 19
6812	1.9	21 May 20 - May 26
6660	1.8	22 May 27 - June 2
6911	1.9	23 June 3 - June 9
6955	1.9	24 June 10 - June 16
6607	1.8	25 June 17 - June 23
6177	1.7	26 June 24 - June 30
6514	1.8	27 July 1 - July 7
6193	1.7	28 July 8 - July 14
6053	1.7	29 July 15 - July 21
6413	1.8	30 July 22 - July 28
5996	1.6	31 July 29 - August 4
6562	1.8	32 August 5 - August 11
6582	1.8	33 August 12 - August 18
5813	1.6	34 August 19 - August 25
5585	1.5	35 August 26 - September 1
6507	1.8	36 September 2 - September 8
5699	1.6	37 September 9 - September 15
6677	1.8	38 September 16 - September 22
7309	2.0	39 September 23 - September 29
7603	2.1	40 September 30 - October 6
7488	2.1	41 October 7 - October 13
7563	2.1	42 October 14 - October 20
9214	2.5	43 October 21 - October 27
9335	2.6	44 October 28 - November 3
8437	2.3	45 November 4 - November 10
9288	2.5	46 November 11 - November 17
9328	2.6	47 November 18 - November 24
8453	2.3	48 November 25 - December 1
9703	2.7	49 December 2 - December 8
10710	2.9	50 December 9 - December 15
10327	2.8	51 December 16 - December 22
5509	1.5	52 December 23 - December 29
633	0.2	53 December 30 - December 31
0	0.0	99 Missing data

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Variable 7	JULIAN DAY FROM 03-01-00	Width: 5	Type: Numeric
		Dec: None	Miss: 99999

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Variable 8	DAY OF WEEK	Width: 1	Type: Numeric
		Dec: None	Miss: 9

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Census Prcnt	Code	Value and Description
42432	11.6	1 Sunday
50005	13.7	2 Monday
48162	13.2	3 Tuesday

STATE OF MICHIGAN  
1991 - Accident

Variable 8:DAY OF WEEK (Continued)

Census	Prcnt	Code	Value and Description
50537	13.9	4	Wednesday
56098	15.4	5	Thursday
63128	17.3	6	Friday
54485	14.9	7	Saturday
0	0.0	9	Missing data

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Variable 9	HOUR OF WEEK	Width: 3	Type: Numeric
		Dec: None	Miss: 999

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Census	Prcnt	Code	Value and Description
2131	0.6	0	12:00 a.m. Sunday - 12:59 a.m. Sunday
2108	0.6	1	1:00 a.m. Sunday - 1:59 a.m. Sunday
2223	0.6	2	2:00 a.m. Sunday - 2:59 a.m. Sunday
1189	0.3	3	3:00 a.m. Sunday - 3:59 a.m. Sunday
765	0.2	4	4:00 a.m. Sunday - 4:59 a.m. Sunday
565	0.2	5	5:00 a.m. Sunday - 5:59 a.m. Sunday
694	0.2	6	6:00 a.m. Sunday - 6:59 a.m. Sunday
630	0.2	7	7:00 a.m. Sunday - 7:59 a.m. Sunday
663	0.2	8	8:00 a.m. Sunday - 8:59 a.m. Sunday
1060	0.3	9	9:00 a.m. Sunday - 9:59 a.m. Sunday
1307	0.4	10	10:00 a.m. Sunday - 10:59 a.m. Sunday
1597	0.4	11	11:00 a.m. Sunday - 11:59 a.m. Sunday
2183	0.6	12	12:00 noon Sunday - 12:59 p.m. Sunday
2281	0.6	13	1:00 p.m. Sunday - 1:59 p.m. Sunday
2506	0.7	14	2:00 p.m. Sunday - 2:59 p.m. Sunday
2463	0.7	15	3:00 p.m. Sunday - 3:59 p.m. Sunday
2736	0.7	16	4:00 p.m. Sunday - 4:59 p.m. Sunday
2827	0.8	17	5:00 p.m. Sunday - 5:59 p.m. Sunday
2853	0.8	18	6:00 p.m. Sunday - 6:59 p.m. Sunday
2523	0.7	19	7:00 p.m. Sunday - 7:59 p.m. Sunday
2213	0.6	20	8:00 p.m. Sunday - 8:59 p.m. Sunday
1853	0.5	21	9:00 p.m. Sunday - 9:59 p.m. Sunday
1629	0.4	22	10:00 p.m. Sunday - 10:59 p.m. Sunday
1265	0.3	23	11:00 p.m. Sunday - 11:59 p.m. Sunday
799	0.2	24	12:00 a.m. Monday - 12:59 a.m. Monday
647	0.2	25	1:00 a.m. Monday - 1:59 a.m. Monday
566	0.2	26	2:00 a.m. Monday - 2:59 a.m. Monday
343	0.1	27	3:00 a.m. Monday - 3:59 a.m. Monday
363	0.1	28	4:00 a.m. Monday - 4:59 a.m. Monday
707	0.2	29	5:00 a.m. Monday - 5:59 a.m. Monday
1503	0.4	30	6:00 a.m. Monday - 6:59 a.m. Monday
2785	0.8	31	7:00 a.m. Monday - 7:59 a.m. Monday
2408	0.7	32	8:00 a.m. Monday - 8:59 a.m. Monday
1796	0.5	33	9:00 a.m. Monday - 9:59 a.m. Monday
1930	0.5	34	10:00 a.m. Monday - 10:59 a.m. Monday
2427	0.7	35	11:00 a.m. Monday - 11:59 a.m. Monday
2912	0.8	36	12:00 noon Monday - 12:59 p.m. Monday
2709	0.7	37	1:00 p.m. Monday - 1:59 p.m. Monday
3322	0.9	38	2:00 p.m. Monday - 2:59 p.m. Monday



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Variable 9: HOUR OF WEEK (Continued)

Census	Prcnt	Code	Value and Description
4139	1.1	39	3:00 p.m. Monday - 3:59 p.m. Monday
4094	1.1	40	4:00 p.m. Monday - 4:59 p.m. Monday
4374	1.2	41	5:00 p.m. Monday - 5:59 p.m. Monday
3233	0.9	42	6:00 p.m. Monday - 6:59 p.m. Monday
2384	0.7	43	7:00 p.m. Monday - 7:59 p.m. Monday
1912	0.5	44	8:00 p.m. Monday - 8:59 p.m. Monday
1905	0.5	45	9:00 p.m. Monday - 9:59 p.m. Monday
1434	0.4	46	10:00 p.m. Monday - 10:59 p.m. Monday
1179	0.3	47	11:00 p.m. Monday - 11:59 p.m. Monday
845	0.2	48	12:00 a.m. Tuesday - 12:59 a.m. Tuesday
719	0.2	49	1:00 a.m. Tuesday - 1:59 a.m. Tuesday
627	0.2	50	2:00 a.m. Tuesday - 2:59 a.m. Tuesday
378	0.1	51	3:00 a.m. Tuesday - 3:59 a.m. Tuesday
384	0.1	52	4:00 a.m. Tuesday - 4:59 a.m. Tuesday
695	0.2	53	5:00 a.m. Tuesday - 5:59 a.m. Tuesday
1414	0.4	54	6:00 a.m. Tuesday - 6:59 a.m. Tuesday
2671	0.7	55	7:00 a.m. Tuesday - 7:59 a.m. Tuesday
2370	0.6	56	8:00 a.m. Tuesday - 8:59 a.m. Tuesday
1631	0.4	57	9:00 a.m. Tuesday - 9:59 a.m. Tuesday
1766	0.5	58	10:00 a.m. Tuesday - 10:59 a.m. Tuesday
2214	0.6	59	11:00 a.m. Tuesday - 11:59 a.m. Tuesday
2681	0.7	60	12:00 noon Tuesday - 12:59 p.m. Tuesday
2360	0.6	61	1:00 p.m. Tuesday - 1:59 p.m. Tuesday
3053	0.8	62	2:00 p.m. Tuesday - 2:59 p.m. Tuesday
3925	1.1	63	3:00 p.m. Tuesday - 3:59 p.m. Tuesday
3833	1.1	64	4:00 p.m. Tuesday - 4:59 p.m. Tuesday
4089	1.1	65	5:00 p.m. Tuesday - 5:59 p.m. Tuesday
3091	0.8	66	6:00 p.m. Tuesday - 6:59 p.m. Tuesday
2354	0.6	67	7:00 p.m. Tuesday - 7:59 p.m. Tuesday
1982	0.5	68	8:00 p.m. Tuesday - 8:59 p.m. Tuesday
1973	0.5	69	9:00 p.m. Tuesday - 9:59 p.m. Tuesday
1714	0.5	70	10:00 p.m. Tuesday - 10:59 p.m. Tuesday
1268	0.3	71	11:00 p.m. Tuesday - 11:59 p.m. Tuesday
927	0.3	72	12:00 a.m. Wednesday - 12:59 a.m. Wednesday
672	0.2	73	1:00 a.m. Wednesday - 1:59 a.m. Wednesday
587	0.2	74	2:00 a.m. Wednesday - 2:59 a.m. Wednesday
386	0.1	75	3:00 a.m. Wednesday - 3:59 a.m. Wednesday
327	0.1	76	4:00 a.m. Wednesday - 4:59 a.m. Wednesday
707	0.2	77	5:00 a.m. Wednesday - 5:59 a.m. Wednesday
1468	0.4	78	6:00 a.m. Wednesday - 6:59 a.m. Wednesday
2861	0.8	79	7:00 a.m. Wednesday - 7:59 a.m. Wednesday
2574	0.7	80	8:00 a.m. Wednesday - 8:59 a.m. Wednesday
1945	0.5	81	9:00 a.m. Wednesday - 9:59 a.m. Wednesday
2008	0.6	82	10:00 a.m. Wednesday - 10:59 a.m. Wednesday
2373	0.7	83	11:00 a.m. Wednesday - 11:59 a.m. Wednesday
2883	0.8	84	12:00 noon Wednesday - 12:59 p.m. Wednesday
2417	0.7	85	1:00 p.m. Wednesday - 1:59 p.m. Wednesday
3118	0.9	86	2:00 p.m. Wednesday - 2:59 p.m. Wednesday
3954	1.1	87	3:00 p.m. Wednesday - 3:59 p.m. Wednesday
3926	1.1	88	4:00 p.m. Wednesday - 4:59 p.m. Wednesday
4168	1.1	89	5:00 p.m. Wednesday - 5:59 p.m. Wednesday
3407	0.9	90	6:00 p.m. Wednesday - 6:59 p.m. Wednesday

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## Variable 9: HOUR OF WEEK (Continued)

Census	Prcnt	Code	Value and Description
2554	0.7	91	7:00 p.m. Wednesday - 7:59 p.m. Wednesday
2113	0.6	92	8:00 p.m. Wednesday - 8:59 p.m. Wednesday
2047	0.6	93	9:00 p.m. Wednesday - 9:59 p.m. Wednesday
1659	0.5	94	10:00 p.m. Wednesday - 10:59 p.m. Wednesday
1309	0.4	95	11:00 p.m. Wednesday - 11:59 p.m. Wednesday
951	0.3	96	12:00 a.m. Thursday - 12:59 a.m. Thursday
787	0.2	97	1:00 a.m. Thursday - 1:59 a.m. Thursday
814	0.2	98	2:00 a.m. Thursday - 2:59 a.m. Thursday
444	0.1	99	3:00 a.m. Thursday - 3:59 a.m. Thursday
402	0.1	100	4:00 a.m. Thursday - 4:59 a.m. Thursday
762	0.2	101	5:00 a.m. Thursday - 5:59 a.m. Thursday
1600	0.4	102	6:00 a.m. Thursday - 6:59 a.m. Thursday
3188	0.9	103	7:00 a.m. Thursday - 7:59 a.m. Thursday
2927	0.8	104	8:00 a.m. Thursday - 8:59 a.m. Thursday
2000	0.5	105	9:00 a.m. Thursday - 9:59 a.m. Thursday
2046	0.6	106	10:00 a.m. Thursday - 10:59 a.m. Thursday
2566	0.7	107	11:00 a.m. Thursday - 11:59 a.m. Thursday
2964	0.8	108	12:00 noon Thursday - 12:59 p.m. Thursday
2600	0.7	109	1:00 p.m. Thursday - 1:59 p.m. Thursday
3238	0.9	110	2:00 p.m. Thursday - 2:59 p.m. Thursday
4377	1.2	111	3:00 p.m. Thursday - 3:59 p.m. Thursday
4542	1.2	112	4:00 p.m. Thursday - 4:59 p.m. Thursday
5042	1.4	113	5:00 p.m. Thursday - 5:59 p.m. Thursday
3634	1.0	114	6:00 p.m. Thursday - 6:59 p.m. Thursday
2935	0.8	115	7:00 p.m. Thursday - 7:59 p.m. Thursday
2353	0.6	116	8:00 p.m. Thursday - 8:59 p.m. Thursday
2237	0.6	117	9:00 p.m. Thursday - 9:59 p.m. Thursday
1938	0.5	118	10:00 p.m. Thursday - 10:59 p.m. Thursday
1589	0.4	119	11:00 p.m. Thursday - 11:59 p.m. Thursday
1141	0.3	120	12:00 a.m. Friday - 12:59 a.m. Friday
983	0.3	121	1:00 a.m. Friday - 1:59 a.m. Friday
928	0.3	122	2:00 a.m. Friday - 2:59 a.m. Friday
558	0.2	123	3:00 a.m. Friday - 3:59 a.m. Friday
441	0.1	124	4:00 a.m. Friday - 4:59 a.m. Friday
732	0.2	125	5:00 a.m. Friday - 5:59 a.m. Friday
1408	0.4	126	6:00 a.m. Friday - 6:59 a.m. Friday
2622	0.7	127	7:00 a.m. Friday - 7:59 a.m. Friday
2385	0.7	128	8:00 a.m. Friday - 8:59 a.m. Friday
1965	0.5	129	9:00 a.m. Friday - 9:59 a.m. Friday
2170	0.6	130	10:00 a.m. Friday - 10:59 a.m. Friday
2731	0.7	131	11:00 a.m. Friday - 11:59 a.m. Friday
3365	0.9	132	12:00 noon Friday - 12:59 p.m. Friday
3314	0.9	133	1:00 p.m. Friday - 1:59 p.m. Friday
4008	1.1	134	2:00 p.m. Friday - 2:59 p.m. Friday
5160	1.4	135	3:00 p.m. Friday - 3:59 p.m. Friday
5171	1.4	136	4:00 p.m. Friday - 4:59 p.m. Friday
5326	1.5	137	5:00 p.m. Friday - 5:59 p.m. Friday
4183	1.1	138	6:00 p.m. Friday - 6:59 p.m. Friday
3316	0.9	139	7:00 p.m. Friday - 7:59 p.m. Friday
2672	0.7	140	8:00 p.m. Friday - 8:59 p.m. Friday
2774	0.8	141	9:00 p.m. Friday - 9:59 p.m. Friday
2771	0.8	142	10:00 p.m. Friday - 10:59 p.m. Friday

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Variable 9: HOUR OF WEEK (Continued)

Census	Prcnt	Code	Value and Description
2812	0.8	143	11:00 p.m. Friday - 11:59 p.m. Friday
2303	0.6	144	12:00 a.m. Saturday - 12:59 a.m. Saturday
2132	0.6	145	1:00 a.m. Saturday - 1:59 a.m. Saturday
2225	0.6	146	2:00 a.m. Saturday - 2:59 a.m. Saturday
1234	0.3	147	3:00 a.m. Saturday - 3:59 a.m. Saturday
751	0.2	148	4:00 a.m. Saturday - 4:59 a.m. Saturday
736	0.2	149	5:00 a.m. Saturday - 5:59 a.m. Saturday
887	0.2	150	6:00 a.m. Saturday - 6:59 a.m. Saturday
943	0.3	151	7:00 a.m. Saturday - 7:59 a.m. Saturday
1236	0.3	152	8:00 a.m. Saturday - 8:59 a.m. Saturday
1644	0.5	153	9:00 a.m. Saturday - 9:59 a.m. Saturday
2270	0.6	154	10:00 a.m. Saturday - 10:59 a.m. Saturday
2864	0.8	155	11:00 a.m. Saturday - 11:59 a.m. Saturday
3070	0.8	156	12:00 noon Saturday - 12:59 p.m. Saturday
3116	0.9	157	1:00 p.m. Saturday - 1:59 p.m. Saturday
3213	0.9	158	2:00 p.m. Saturday - 2:59 p.m. Saturday
3260	0.9	159	3:00 p.m. Saturday - 3:59 p.m. Saturday
3252	0.9	160	4:00 p.m. Saturday - 4:59 p.m. Saturday
3049	0.8	161	5:00 p.m. Saturday - 5:59 p.m. Saturday
3186	0.9	162	6:00 p.m. Saturday - 6:59 p.m. Saturday
2970	0.8	163	7:00 p.m. Saturday - 7:59 p.m. Saturday
2526	0.7	164	8:00 p.m. Saturday - 8:59 p.m. Saturday
2438	0.7	165	9:00 p.m. Saturday - 9:59 p.m. Saturday
2444	0.7	166	10:00 p.m. Saturday - 10:59 p.m. Saturday
2538	0.7	167	11:00 p.m. Saturday - 11:59 p.m. Saturday
1126	0.3	999	Missing data

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Variable 10	HIGHWAY DEPT DISTRICT	Width: 1	Type: Numeric
		Dec: None	Miss: None

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Census	Prcnt	Code	Value and Description
10388	2.8	1	First district
5541	1.5	2	Second district
14920	4.1	3	Third district
11934	3.3	4	Fourth district
49517	13.6	5	Fifth district
41869	11.5	6	Sixth district
36044	9.9	7	Seventh district
45910	12.6	8	Eighth district
148724	40.8	9	Ninth district

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Variable 11	STATE POLICE POST	Width: 2	Type: Numeric
		Dec: None	Miss: 99

Census Prcnt	Code	Value and Description
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15747	4.3	11 East Lansing
4874	1.3	12 Brighton
2505	0.7	13 Ionia
2161	0.6	14 Ithica
2295	0.6	15 Owosso
31230	8.6	21 Detroit
2856	0.8	22 Romeo
4711	1.3	23 St. Clair
23822	6.5	24 Warren
14084	3.9	25 Flat Rock
19900	5.5	26 Ypsilanti
24307	6.7	27 Pontiac
2108	0.6	28 Erie
41296	11.3	29 Detroit Freeway
6378	1.7	31 Bay City
2328	0.6	32 East Tawas
1491	0.4	33 Bad Axe
1517	0.4	34 Sandusky
14705	4.0	35 Flint
3218	0.9	36 West Branch
8401	2.3	37 Bridgeport
2901	0.8	38 Lapeer
2078	0.6	39 Caro
6623	1.8	41 Jackson
3231	0.9	42 Clinton
2346	0.6	43 Tekonsha
0	0.0	44 Blissfield
1767	0.5	45 Jonesville
6595	1.8	46 Battle Creek
9347	2.6	51 Paw Paw
2935	0.8	52 White Pigeon
3174	0.9	53 Niles
808	0.2	54 New Buffalo
1477	0.4	55 South Haven
3801	1.0	56 Wayland
3531	1.0	57 Benton Harbor
1796	0.5	58 Hastings (team)
870	0.2	59 Saugatuck (team)
19857	5.4	61 Rockford
2821	0.8	62 Reed City
4198	1.2	63 Mt. Pleasant
11983	3.3	64 Grand Haven
1809	0.5	65 Newaygo
1802	0.5	66 Hart
3609	1.0	67 Lakeview
5255	1.4	71 Traverse City
1109	0.3	72 Cheboygan
1570	0.4	73 Gaylord
2413	0.7	74 Alpena
2250	0.6	75 Houghton Lake
2213	0.6	76 Cadillac

Variable 11: STATE POLICE POST (Continued)

Census Prcnt		Code	Value and Description
1338	0.4	77	Manistee
2758	0.8	78	Petoskey
721	0.2	79	Kalkaska (team)
2758	0.8	81	Marquette
612	0.2	82	Newberry
735	0.2	83	St. Ignace
514	0.1	84	Manistique
2178	0.6	85	Gladstone
1650	0.5	86	Iron Mountain
1366	0.4	87	Wakefield
654	0.2	88	L'Anse
1868	0.5	89	Stephenson
1170	0.3	90	Calumet
421	0.1	91	Munising
922	0.3	92	Iron River
1079	0.3	93	Sault Ste. Marie
0	0.0	99	Missing data

Variable 12	COUNTY	Width: 2	Type: Numeric
		Dec: None	Miss: 99

COUNTY (STATE POLICE CODING)

Census Prcnt		Code	Value and Description
874	0.2	1	Alcona
421	0.1	2	Alger
3495	1.0	3	Allegan
1248	0.3	4	Alpena
945	0.3	5	Antrim
972	0.3	6	Arenac
490	0.1	7	Baraga
2310	0.6	8	Barry
3971	1.1	9	Bay
590	0.2	10	Benzie
6184	1.7	11	Berrien
1789	0.5	12	Branch
6070	1.7	13	Calhoun
1957	0.5	14	Cass
1218	0.3	15	Charlevoix
910	0.2	16	Cheboygan
1341	0.4	17	Chippewa
1439	0.4	18	Clare
2287	0.6	19	Clinton
849	0.2	20	Crawford
2291	0.6	21	Delta
1650	0.5	22	Dickinson
3663	1.0	23	Eaton
1561	0.4	24	Emmet
14705	4.0	25	Genesee

## Variable 12:COUNTY (Continued)

Census	Prcnt	Code	Value and Description
960	0.3	26	Gladwin
750	0.2	27	Gogebic
3280	0.9	28	Grand Traverse
1498	0.4	29	Gratiot
1767	0.5	30	Hillsdale
1274	0.3	31	Houghton
1491	0.4	32	Huron
10733	2.9	33	Ingham
2505	0.7	34	Ionia
1457	0.4	35	Iosco
922	0.3	36	Iron
2506	0.7	37	Isabella
6055	1.7	38	Jackson
9357	2.6	39	Kalamazoo
721	0.2	40	Kalkaska
21066	5.8	41	Kent
60	0.0	42	Keweenaw
558	0.2	43	Lake
2901	0.8	44	Lapeer
655	0.2	45	Leelanau
3228	0.9	46	Lenawee
4874	1.3	47	Livingston
293	0.1	48	Luce
749	0.2	49	Mackinac
24866	6.8	50	Macomb
963	0.3	51	Manistee
2758	0.8	52	Marquette
1250	0.3	53	Mason
2211	0.6	54	Mecosta
1868	0.5	55	Menominee
2851	0.8	56	Midland
619	0.2	57	Missaukee
4356	1.2	58	Monroe
2727	0.7	59	Montcalm
461	0.1	60	Montmorency
5944	1.6	61	Muskegon
1816	0.5	62	Newaygo
39749	10.9	63	Oakland
920	0.3	64	Oceana
1209	0.3	65	Ogemaw
616	0.2	66	Ontonagon
1228	0.3	67	Osceola
541	0.1	68	Oscoda
952	0.3	69	Otsego
6037	1.7	70	Ottawa
674	0.2	71	Presque Isle
1198	0.3	72	Roscommon
8401	2.3	73	Saginaw
5309	1.5	74	St. Clair
2307	0.6	75	St. Joseph
1517	0.4	76	Sanilac
446	0.1	77	Schoolcraft

Variable 12:COUNTY (Continued)

Census Prcnt	Code	Value and Description
2022	0.6	78 Shiawassee
2078	0.6	79 Tuscola
2575	0.7	80 Van Buren
11234	3.1	81 Washtenaw
78800	21.6	82 Wayne
1454	0.4	83 Wexford
0	0.0	99 Missing data

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Variable 13	CITY OR TOWNSHIP	Width: 2	Type: Numeric
		Dec: None	Miss: None

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Use in conjunction with V12.

Census Prcnt	Code	Value and Description
10725	2.9	1
		- City or township code (by county)
41296	11.3	99

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Variable 14	ROUTE THROUGH COUNTY	Width: 3	Type: Numeric
		Dec: None	Miss: 999

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Used in combination with the Highway Department codes for COUNTY, this variable defines the "Highway Control Section" for the accident.

Census Prcnt	Code	Value and Description
25	0.0	0
		- Route code
0	0.0	998
232105	63.6	999 Local road or unknown

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Variable 15	MILES IN CONTROL SECTION	Width: 4	Type: Numeric
		Dec: 2	Miss: 99.99

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Variable 16	HIGHWAY NUMBER	Width: 3	Type: Numeric
		Dec: None	Miss: 999

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Census Prcnt	Code	Value and Description
5	0.0	0
2042	0.6	1
		- Highway number

## Variable 16:HIGHWAY NUMBER (Continued)

Census Prcnt	Code	Value and Description
0	0.0	990
232105	63.6	999 Local road or unknown

Variable 17	HIGHWAY AREA TYPE	Width: 1	Type: Numeric
		Dec: None	Miss: 9

An interchange area is within ramp limits in all directions. An intersection area is normally within 100 feet in any direction from the intersection, but it is farther if the accident is accountable to the intersection. A channelized intersection is considered an intersection.

Note: Non-traffic area accidents have been omitted by UMTRI.

Census Prcnt	Code	Value and Description
11182	3.1	1 Interchange area
201473	55.2	2 Intersection area
152192	41.7	3 Neither an interchange nor an intersection area
0	0.0	9 Missing data

Variable 18	HIGHWAY AREA CODE	Width: 2	Type: Numeric
		Dec: None	Miss: 99

Used in combination with HIGHWAY AREA TYPE (v17), this variable designates the accident location at a specific type of site.

Census Prcnt	Code	Value and Description
75302	20.6	0 Within confines of intersection (within crosswalk) or no ramp or loop (interchange)
23104	6.3	1 Within 100 ft. NORTH of intersection
2534	0.7	2 Within 100 ft. N. E. of intersection
22364	6.1	3 Within 100 ft. EAST of intersection
2822	0.8	4 Within 100 ft. S. E. of intersection
23530	6.4	5 Within 100 ft. SOUTH of intersection
2326	0.6	6 Within 100 ft. S. W. of intersection or on deceleration lane (interchange)
22844	6.3	7 Within 100 ft. WEST of intersection or on acceleration lane (interchange)
2888	0.8	8 Within 100 ft. N. W. of intersection
0	0.0	10 Exit to collector distributor
0	0.0	15 Entrance from collector distributor
1866	0.5	21 Off ramp near main road
352	0.1	22 Off ramp between roads (on the ramp)
3842	1.1	23 Leave ramp or on crossroad - accident ramp-related
1560	0.4	24 Enter ramp from crossroad
155	0.0	25 On ramp between roads (on the ramp)



Variable 18:HIGHWAY AREA CODE (Continued)

Census	Prcnt	Code	Value and Description
1176	0.3	26	On ramp near main road
76	0.0	31	Off loop near main road
42	0.0	32	Off loop between roads (on the loop)
112	0.0	33	Leave loop to crossroad
74	0.0	34	Enter loop from crossroad
36	0.0	35	On loop between roads (on the loop)
29	0.0	36	On loop near main road
0	0.0	41	Exit - leave main roadway
0	0.0	42	Exit - on ramp between roadways
0	0.0	43	Exit - leave ramp at crossroad
0	0.0	44	Entrance - enter main roadway
0	0.0	45	Entrance - on ramp between roadways
0	0.0	46	Entrance - enter ramp at crossroad
39	0.0	47	Exit to rest area
23	0.0	48	Within rest area
18	0.0	49	Entrance from rest area
0	0.0	50	Exit to scales
0	0.0	51	Within scale area
0	0.0	52	Entrance from scales
0	0.0	53	Exit to other area
0	0.0	54	Entrance from other area
0	0.0	55	Within other area
47344	13.0	56	Crossing - commercial driveway
0	0.0	57	Crossing - private driveway
0	0.0	58	Crossing - factory driveway
766	0.2	59	Crossing - railroad grade crossing
2	0.0	60	Crossing - school or church driveway
0	0.0	61	Crossing - public driveway (roadside park, etc.)
570	0.2	71	Crossing - enter crossover
191	0.1	72	Crossing - on the crossover
1639	0.4	73	Crossing - leave crossover
99	0.0	75	Entering or leaving shoulder - right side
13	0.0	76	Entering or leaving shoulder - left side
16	0.0	78	Left turn flare (slot)
43	0.0	79	Right turn flare (slot)
6	0.0	80	On deceleration lane (right turn cut-off)
0	0.0	81	On cut-off curve
0	0.0	82	Leaving cut-off lane
0	0.0	83	Turn channel at crossroad
0	0.0	84	Turn channel between roadways
2	0.0	85	Turn channel at trunkline
1	0.0	91	Turn loop at trunkline
0	0.0	92	Turn loop between roadways
1	0.0	93	Turn loop at crossroad
0	0.0	98	Street or road intersection on a ramp
127040	34.8	99	Other or unknown

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Variable 19	ACCIDENT LOCATION	Width: 1	Type: Numeric
		Dec: None	Miss: 9

Census Prcnt	Code Value and Description
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264238	72.4	1	On non-limited access roadway
74133	20.3	2	Off non-limited access roadway
18018	4.9	3	On limited access roadway
8458	2.3	4	Off limited access roadway
0	0.0	9	Missing data

Variable 20	HIGHWAY CLASS	Width: 1	Type: Numeric
		Dec: None	Miss: 9

Census Prcnt	Code Value and Description
--------------	----------------------------

5	0.0	0	
23733	6.5	1	Interstate route
28706	7.9	2	U.S. route
67461	18.5	3	Michigan route
6270	1.7	4	Interstate business loop or spur
4598	1.3	5	U.S. business route
520	0.1	6	Michigan business route
829	0.2	7	Connector
620	0.2	8	Service drive
232105	63.6	9	County road, city street, or unknown

Variable 21	HIGHWAY CLASS SUBSCRIPT	Width: 1	Type: Numeric
		Dec: None	Miss: 9

Census Prcnt	Code Value and Description
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23733	6.5	1	Interstate route
6871	1.9	2	Other fully controlled access route (not interstate)
25329	6.9	3	Other U.S. route (not fully-controlled access)
65313	17.9	4	Other Michigan route (not fully-controlled access)
11288	3.1	5	Other major arterial state trunkline (business route)
232313	63.7	9	Service drive, local trafficway, or unknown

Variable 22	ROAD ALIGNMENT	Width: 1	Type: Numeric
		Dec: None	Miss: 4

Census Prcnt	Code Value and Description
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346128	94.9	1	Straight
17668	4.8	2	Curve
794	0.2	3	Transition (from a divided to a non-divided road, or in number of lanes)
257	0.1	4	Unknown

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Variable 23	ROAD SURFACE	Width: 1	Type: Numeric
		Dec: None	Miss: 4

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Census Prcnt      Code Value and Description

234302	64.2	1	Dry
72112	19.8	2	Wet
55767	15.3	3	Snowy or icy
2666	0.7	4	Other or unknown

---

Variable 24	ROAD DEFECT	Width: 1	Type: Numeric
		Dec: None	Miss: 9

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Census Prcnt      Code Value and Description

362856	99.5	1	None
261	0.1	2	Obstruction (tree, barricade, etc.)
855	0.2	3	Loose material on surface (oil, sand, etc.)
522	0.1	4	Holes, ruts, bumps
40	0.0	5	Low or soft shoulder
95	0.0	6	Drifting snow
43	0.0	7	Frosted bridge
18	0.0	8	Slippery when wet
157	0.0	9	Other or unknown

---

Variable 25	TRAFFIC CONTROL	Width: 2	Type: Numeric
		Dec: None	Miss: 10

---

Census Prcnt      Code Value and Description

217124	59.5	1	None
71327	19.5	2	Stop sign
68014	18.6	3	Stop and go signal
230	0.1	4	Traffic regulator (flagman, watchman, policeman)
3192	0.9	5	Flasher (includes railroad flasher)
3905	1.1	6	Yield sign
12	0.0	7	School speed zone - with light or flasher
215	0.1	8	No passing zone
500	0.1	9	Other warning sign (no turn, sharp curve, etc.)
328	0.1	10	Other or unknown

---

Variable 26	CONSTRUCTION ZONE	Width: 1	Type: Numeric
		Dec: None	Miss: 9

---

Census Prcnt      Code Value and Description

359701	98.6	0	Not a construction zone accident
5146	1.4	1	Construction zone accident
0	0.0	9	Missing data

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Variable 27	WEATHER	Width: 1	Type: Numeric
		Dec: None	Miss: 5

Census Prcnt	Code Value and Description
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287619	78.8	1	Clear or cloudy
2619	0.7	2	Fog
41174	11.3	3	Raining
32486	8.9	4	Snowing
949	0.3	5	Other or unknown

Variable 28	LIGHT	Width: 1	Type: Numeric
		Dec: None	Miss: 5

Census Prcnt	Code Value and Description
--------------	----------------------------

224377	61.5	1	Daylight
19181	5.3	2	Dawn or dusk
34455	9.4	3	Darkness with street lights
85569	23.5	4	Darkness without street lights
1265	0.3	5	Unknown

Variable 29	POPULATION	Width: 2	Type: Numeric
		Dec: None	Miss: 99

Census Prcnt	Code Value and Description
--------------	----------------------------

158614	43.5	1	Township
2514	0.7	2	Less than 1000
6583	1.8	3	1000 to 2500
9363	2.6	4	2500 to 5000
11949	3.3	5	5000 to 10000
24404	6.7	6	10000 to 25000
35033	9.6	7	25000 to 50000
41869	11.5	8	50000 to 100000
33222	9.1	9	100000 to 250000
41296	11.3	10	Greater than 250000
0	0.0	99	Missing data

Variable 30	ACCIDENT TYPE	Width: 2	Type: Numeric
		Dec: None	Miss: 10

An accident is typed by the first injury or damage producing event, which may or may not be the most serious or most significant event.

Census Prcnt	Code Value and Description
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11120	3.0	1	Motor vehicle overturned
176	0.0	2	Collision with a railroad train

Variable 30:ACCIDENT TYPE (Continued)

Census Prcnt	Code	Value and Description
25043	6.9	3 Collision with a parked motor vehicle
220470	60.4	4 Collision with another motor vehicle
3642	1.0	5 Collision with a pedestrian
48862	13.4	6 Collision with a fixed object
2216	0.6	7 Collision with another object
47565	13.0	8 Collision with an animal
3515	1.0	9 Collision with a pedalcycle
2238	0.6	10 Other non-collision accident or unknown

---

Variable 31	ACC ANALYSIS - WHERE	Width: 1	Type: Numeric
		Dec: None	Miss: 8

---

Census Prcnt	Code	Value and Description
81712	22.4	1 Same direction (if two vehicle) - at intersection
162856	44.6	2 Same direction (if two vehicle) - not at intersection
17924	4.9	3 Opposite direction - at intersection
7525	2.1	4 Opposite direction - not at intersection
47349	13.0	5 At angle - at intersection
1560	0.4	6 At angle - not at intersection
45912	12.6	7 At driveway access
9	0.0	8 Missing data

---

Variable 32	ACC ANALYSIS - HOW	Width: 2	Type: Numeric
		Dec: None	Miss: 10

---

Used in combination with ACCIDENT TYPE (v30), this variable describes at-crash vehicle activity. The value descriptions are dependent upon ACCIDENT TYPE. Frequencies that correspond to ALL accident types, however, appear below only for the "Collision With Another Vehicle" value descriptions.

Census Prcnt	Code	Value and Description
Collision With Another Vehicle (v30=04)		
102111	28.0	1 Both straight - head-on, rear-end, broadside
40937	11.2	2 Both straight - sideswipe
36132	9.9	3 One straight and one turning left
9663	2.6	4 One straight and one turning right
56047	15.4	5 One straight and one stopped or disabled
4178	1.1	6 One straight and one backing
17945	4.9	7 One straight and one entering parking or driveway
21598	5.9	8 One straight and one leaving parking or driveway
547	0.1	9 One straight and one starting/stopping in traffic
75689	20.7	10 Other or unknown

Motor Vehicle Overtuned (v30=01)

Variable 32:ACC ANALYSIS - HOW (Continued)

Census Prcnt	Code Value and Description
	Collision With Fixed Object (v30=06)
	Collision With Another Object (v30=07)
	1 Left side of trafficway
	2 Right side of trafficway
	10 Unknown
	Collision With Railroad Train (v30=02)
	Collision With Parked Vehicle (v30=03)
	Collision With Animal (v30=08)
	10 Not applicable
	Collision With Pedestrian (v30=05)
	Collision With Pedalcycle (v30=09)
	1 Motor vehicle straight
	2 Motor vehicle turning left
	3 Motor vehicle turning right
	4 Motor vehicle backing
	5 Motor vehicle starting up
	6 Motor vehicle entering or leaving parking
	7 Motor vehicle skidding
	10 Other or unknown
	Other Non-collision or Unknown (v30=10)
	1 Fell from vehicle
	2 Injury within vehicle
	10 Other or unknown

---

Variable 33	ACC ANALYSIS SUBSCRIPT	Width: 2	Type: Numeric
		Dec: None	Miss: 99

---

ACC ANALYSIS SUBSCRIPT was generated by the State Police for their own analytic activity from ACCIDENT TYPE (v30), ACC ANALYSIS - WHERE (v31), and ACC ANALYSIS - HOW (v32).

Census Prcnt	Code Value and Description
47349 13.0	1 Two vehicles hit at angle at intersection - one or both going straight
11801 3.2	2 Two vehicles hit while going straight in the same direction at intersection - rear-end or sideswipe
10915 3.0	3 Two vehicles hit while going in the same direction at intersection - one turning
31792 8.7	4 Two vehicles hit while going in the same direction at intersection - one stopped or disabled
2360 0.6	5 Two vehicles hit while going in the same direction at intersection - one backing, starting, or stopping
2091 0.6	6 Two vehicles hit while going straight in opposite directions at intersection - head-on or sideswipe
15283 4.2	7 Two vehicles hit while going in opposite directions at intersection - one turning left

Variable 33:ACC ANALYSIS SUBSCRIPT (Continued)

Census	Prcnt	Code	Value and Description
550	0.2	8	Two vehicles hit while going in opposite directions at intersection - one turning right or stopped
6086	1.7	9	Moving vehicle hit parked vehicle at intersection
7138	2.0	10	Two vehicles hit while going in opposite directions not at intersection - one or both going straight
26796	7.3	11	Two vehicles hit while going in the same direction not at intersection - one or both going straight
18957	5.2	12	Moving vehicle hit parked vehicle - not at intersection, though possibly at driveway
23428	6.4	13	Moving vehicle hit stopped or disabled vehicle - not at intersection, though possibly at driveway
137	0.0	14	Two vehicles hit while one entering parking - not at intersection or at driveway
1155	0.3	15	Two vehicles hit while one leaving parking - not at intersection or at driveway
17798	4.9	16	Two vehicles hit at driveway while one entering the driveway
20443	5.6	17	Two vehicles hit at driveway while one leaving the driveway
1434	0.4	18	Two vehicles hit in some fashion not detailed above or in some way unknown
1408	0.4	19	Vehicle going straight hit pedestrian at intersection
193	0.1	20	Vehicle turning right hit pedestrian at intersection
211	0.1	21	Vehicle turning left hit pedestrian at intersection
37	0.0	22	Vehicle backing up hit pedestrian at intersection
8	0.0	23	Vehicle starting up, entering or leaving parking, or skidding, hit pedestrian at intersection
8	0.0	24	Vehicle hit pedestrian at intersection in some fashion not detailed above or in some way unknown
1559	0.4	25	Vehicle going straight hit pedestrian other than at intersection
42	0.0	26	Vehicle turning right hit pedestrian other than at intersection
46	0.0	27	Vehicle turning left hit pedestrian other than at intersection
105	0.0	28	Vehicle backing up hit pedestrian other than at intersection
14	0.0	29	Vehicle starting up, entering or leaving parking, or skidding, hit pedestrian other than at intersection
11	0.0	30	Vehicle hit pedestrian other than at intersection in some other or unknown fashion
2082	0.6	31	Vehicle hit railroad train or pedalcyclist at intersection
12113	3.3	32	Vehicle hit fixed object at intersection
1183	0.3	33	Vehicle hit non-fixed object or animal at intersection
1077	0.3	34	Vehicle overturned at intersection
438	0.1	35	Vehicle involved in other non-collision accident or in unknown accident at intersection
1609	0.4	36	Vehicle hit railroad train or pedalcyclist other than at intersection
36749	10.1	37	Vehicle hit fixed object other than at intersection
48598	13.3	38	Vehicle hit non-fixed object or animal other than at intersection

## Variable 33:ACC ANALYSIS SUBSCRIPT (Continued)

Census Prcnt		Code	Value and Description
10043	2.8	39	Vehicle overturned other than at intersection
1791	0.5	40	Vehicle involved in other non-collision accident or in unknown accident other than at intersection
9	0.0	41	Vehicle involved in other non-collision accident or in unknown accident with unk intersection relation
0	0.0	99	Missing data

---

Variable 34	SPECIAL ACCIDENT TAG	Width: 2	Type: Numeric
		Dec: None	Miss: 10

---

Census Prcnt		Code	Value and Description
1452	0.4	1	School bus physically involved
46	0.0	2	School bus not involved, but person boarding or alighting injured by another vehicle
413	0.1	3	School bus not involved, but influenced accident by stop
46525	12.8	4	Deer physically involved
1708	0.5	5	Deer, not involved, influenced accident
1426	0.4	6	Emergency or pursuit vehicle involved or influenced accident
313277	85.9	10	None of the preceding

---

Variable 35	ACCIDENT TYPE SUBSCRIPT	Width: 2	Type: Numeric
		Dec: None	Miss: 99

---

This subscript to ACCIDENT TYPE (v30) distinguishes motor vehicle collisions with or without a median crossing before the first impact.

Census Prcnt		Code	Value and Description
11120	3.0	1	Motor vehicle overturned
2238	0.6	2	Other non-collision accident or unknown
3642	1.0	3	Collision with pedestrian
220345	60.4	4	Collision of motor vehicles without median crossing
125	0.0	5	Collision of motor vehicles with at least one crossing median
25043	6.9	6	Collision with parked vehicle
176	0.0	7	Collision with railroad train
3515	1.0	8	Collision with pedalcycle
47565	13.0	9	Collision with animal
48862	13.4	10	Collision with a fixed object
2216	0.6	11	Collision with another object
0	0.0	99	Missing data



---

Variable 36	NSC ACC CIRCUMSTANCE	Width: 2	Type: Numeric
		Dec: None	Miss: 13

---

NATIONAL SAFETY COUNCIL ACC CIRCUMSTANCE

Census Prcnt	Code	Value and Description
32919 9.0	1	Speed too fast
72461 19.9	2	Failed to yield, disregarded traffic control
24733 6.8	3	Left of center, improper overtaking or lane usage
125557 34.4	4	Followed too closely, unable to stop
10520 2.9	5	Improper turn, improper or no signal
638 0.2	6	Driver inattention, illness, etc.
1993 0.5	7	Had been drinking
24669 6.8	8	Other improper driving
1744 0.5	9	Pedestrian error
270 0.1	10	Defective tires
998 0.3	11	Other mechanical defect
702 0.2	12	Road defect
67643 18.5	13	Other or not stated

---

Variable 37	TWO VEH ACC SUBSCRIPT	Width: 1	Type: Numeric
		Dec: None	Miss: 9

---

Census Prcnt	Code	Value and Description
119334 32.7	0	Collision of motor vehicle with other than another motor vehicle
7976 2.2	1	Head on
33620 9.2	2	Rear-end
595 0.2	3	Sideswipe - meeting
1975 0.5	4	Sideswipe - passing
31226 8.6	5	Angle
4099 1.1	6	Backed into
165947 45.5	7	Other
75 0.0	8	Not stated
0 0.0	9	Missing data

---

Variable 38	ACCIDENT CONFIGURATION	Width: 1	Type: Numeric
		Dec: None	Miss: 9

---

This variable was generated by UMTRI from v30-32, v46, v47, and v117. The variable defines single-vehicle configurations as those with a single-vehicle accident type and one moving vehicle. Two-vehicle configurations are defined as vehicle-to-vehicle accidents with exactly two moving vehicles and no subsequent involvement of any other traffic unit. Those two-vehicle accidents specifically defined by configuration have both the configuration and the areas of damage to the vehicles in agreement.

## Variable 38: ACCIDENT CONFIGURATION (Continued)

Census Prcnt	Code	Value and Description
141169	38.7	1 Single-vehicle accident
9263	2.5	2 Two-vehicle - head-on
68474	18.8	3 Two-vehicle - rear-end
2066	0.6	4 Two-vehicle - sideswipe
43989	12.1	5 Two-vehicle - angle
16690	4.6	6 Vehicle to vehicle - more than two traffic units
969	0.3	7 Single-vehicle accident type - two or more vehicles
74954	20.5	8 Two-vehicle collision - unclassifiable
7273	2.0	9 Missing data

---

Variable 39	TRAFFIC UNIT MIX	Width: 2	Type: Numeric
		Dec: None	Miss: 99

---

This variable, generated by UMTRI, describes the accident by the types of vehicles involved. Parked vehicles are considered fixed objects, while pedestrians and pedalcyclists are handled as traffic units.

Census Prcnt	Code	Value and Description
136202	37.3	1 Single traffic unit
129321	35.4	2 Car - car
47353	13.0	3 Car - truck
1362	0.4	4 Car - motorcycle, moped
3618	1.0	5 Car - other
5273	1.4	6 Car - pedestrian, pedalcyclist
5265	1.4	7 Truck - truck
248	0.1	8 Truck - motorcycle
694	0.2	9 Truck - other
772	0.2	10 Truck - pedestrian, pedalcyclist
38	0.0	11 Motorcycle - motorcycle
32	0.0	12 Motorcycle - other
66	0.0	13 Motorcycle - pedestrian, pedalcyclist
115	0.0	14 Other - other
89	0.0	15 Other - pedestrian, pedalcyclist
17133	4.7	16 Three or more traffic units
17266	4.7	99 Missing data

---

Variable 40	DRINKING IN ACCIDENT	Width: 1	Type: Numeric
		Dec: None	Miss: 3

---

Census Prcnt	Code	Value and Description
27656	7.6	1 Drinking by a driver, pedestrian, cyclist
316814	86.8	2 No drinking in the accident
20377	5.6	3 Unknown

---

Variable 41      PED INVOLVED IN ACCIDENT      Width: 1      Type: Numeric  
Dec:    None      Miss: 9

This variable was generated by UMTRI from TRAFFIC UNIT TYPE (v102). If v102 equals 9 or 10, the value is 1. Otherwise, the value is 2.

Census Prcnt      Code Value and Description

7398	2.0	1	Pedestrian or pedalcyclist involved
357449	98.0	2	Pedestrian or pedalcyclist not involved
0	0.0	9	Missing data

---

Variable 42      ACCIDENT INVESTIGATED BY      Width: 1      Type: Numeric  
Dec:    None      Miss: 9

Census Prcnt      Code Value and Description

48467	13.3	1	State police
86069	23.6	2	County sheriff
34656	9.5	3	Township police
195655	53.6	4	City or village police
0	0.0	9	Missing data

---

Variable 43      INVESTIGATED AT SCENE      Width: 1      Type: Numeric  
Dec:    None      Miss: 3

Census Prcnt      Code Value and Description

262272	71.9	1	Accident investigated at the scene
99483	27.3	2	Accident not investigated at the scene
3092	0.8	3	Unknown

---

Variable 44      ENFORCEMENT IN ACCIDENT      Width: 1      Type: Numeric  
Dec:    None      Miss: 2

Census Prcnt      Code Value and Description

158713	43.5	1	Hazardous violation in accident
0	0.0	2	Violation unknown
0	0.0	3	Non-hazardous violation in accident
206134	56.5	4	No violation

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Variable 45	SEVERITY OF ACCIDENT	Width: 1	Type: Numeric
		Dec: None	Miss: 9

Census Prcnt	Code Value and Description
--------------	----------------------------

1290	0.4	1	Fatal
91479	25.1	2	Injury
272078	74.6	3	Property damage
0	0.0	9	Missing data

Variable 46	TOTAL TRAFFIC UNITS	Width: 2	Type: Numeric
		Dec: None	Miss: 99

Census Prcnt	Code Value and Description
--------------	----------------------------

136202	37.3	1	1 traffic unit
211512	58.0	2	2 traffic units
14640	4.0	3	3 traffic units
2088	0.6	4	4 traffic units
330	0.1	5	5 traffic units
48	0.0	6	6 traffic units
16	0.0	7	7 traffic units
3	0.0	8	8 traffic units
4	0.0	9	9 traffic units
1	0.0	11	11 traffic units
1	0.0	12	12 traffic units
1	0.0	13	13 traffic units
1	0.0	14	14 traffic units

Variable 47	TOTAL MOVING VEHICLES	Width: 2	Type: Numeric
		Dec: None	Miss: 99

Census Prcnt	Code Value and Description
--------------	----------------------------

1	0.0	0	0 vehicles
143396	39.3	1	1 vehicle
204670	56.1	2	2 vehicles
14359	3.9	3	3 vehicles
2035	0.6	4	4 vehicles
317	0.1	5	5 vehicles
46	0.0	6	6 vehicles
14	0.0	7	7 vehicles
3	0.0	8	8 vehicles
3	0.0	9	9 vehicles
1	0.0	12	12 vehicles
1	0.0	13	13 vehicles
1	0.0	14	14 vehicles

---

Variable 48      WORST INJURY IN ACC      Width: 1      Type: Numeric  
Dec:    None      Miss: 9

---

Census Prcnt      Code Value and Description

1290	0.4	1	Fatal
15030	4.1	2	A - incapacitating injury
26176	7.2	3	B - nonincapacitating injury
50273	13.8	4	C - possible injury
272078	74.6	5	No injury
0	0.0	9	Missing data

---

Variable 49      TOTAL KILLED IN ACC      Width: 2      Type: Numeric  
Dec:    None      Miss: 99

---

Census Prcnt      Code Value and Description

363557	99.6	0	0 killed
1182	0.3	1	1 killed
85	0.0	2	2 killed
20	0.0	3	3 killed
2	0.0	4	4 killed
1	0.0	5	5 killed

---

Variable 50      TOTAL A INJURED IN ACC      Width: 2      Type: Numeric  
Dec:    None      Miss: 99

---

Census Prcnt      Code Value and Description

349392	95.8	0	0 A injured
12081	3.3	1	1 A injured
2429	0.7	2	2 A injured
632	0.2	3	3 A injured
220	0.1	4	4 A injured
59	0.0	5	5 A injured
22	0.0	6	6 A injured
8	0.0	7	7 A injured
2	0.0	8	8 A injured
2	0.0	9	9 A injured

---

Variable 51      TOTAL B INJURED IN ACC      Width: 2      Type: Numeric  
Dec:    None      Miss: 99

---

Census Prcnt      Code Value and Description

335825	92.0	0	0 B injured
23650	6.5	1	1 B injured
4168	1.1	2	2 B injured
886	0.2	3	3 B injured
227	0.1	4	4 B injured

Variable 51:TOTAL B INJURED IN ACC (Continued)

Census	Prcnt	Code	Value and Description
62	0.0	5	5 B injured
19	0.0	6	6 B injured
7	0.0	7	7 B injured
3	0.0	8	8 B injured

---

Variable 52	TOTAL C INJURED IN ACC	Width: 2	Type: Numeric
		Dec: None	Miss: 99

Census	Prcnt	Code	Value and Description
305462	83.7	0	0 C injured
44696	12.3	1	1 C injured
10926	3.0	2	2 C injured
2592	0.7	3	3 C injured
832	0.2	4	4 C injured
219	0.1	5	5 C injured
77	0.0	6	6 C injured
23	0.0	7	7 C injured
11	0.0	8	8 C injured
3	0.0	9	9 C injured
4	0.0	10	10 C injured
1	0.0	11	11 C injured
1	0.0	13	13 C injured

---

Variable 53	TOTAL INJURED IN ACC	Width: 2	Type: Numeric
		Dec: None	Miss: 99

Census	Prcnt	Code	Value and Description
272697	74.7	0	0 injured
63123	17.3	1	1 injured
19682	5.4	2	2 injured
5945	1.6	3	3 injured
2231	0.6	4	4 injured
729	0.2	5	5 injured
270	0.1	6	6 injured
103	0.0	7	7 injured
34	0.0	8	8 injured
19	0.0	9	9 injured
8	0.0	10	10 injured
2	0.0	11	11 injured
1	0.0	12	12 injured
2	0.0	13	13 injured
1	0.0	15	15 injured

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Variable 54	TOTAL CASUALTIES IN ACC	Width: 2	Type: Numeric
		Dec: None	Miss: 99

TOTAL KILLED (v49) plus TOTAL INJURED (v53).

Census Prcnt	Code Value and Description
--------------	----------------------------

272078	74.6	0	0 casualties
63390	17.4	1	1 casualty
19796	5.4	2	2 casualties
6063	1.7	3	3 casualties
2292	0.6	4	4 casualties
771	0.2	5	5 casualties
276	0.1	6	6 casualties
110	0.0	7	7 casualties
35	0.0	8	8 casualties
20	0.0	9	9 casualties
10	0.0	10	10 casualties
2	0.0	11	11 casualties
1	0.0	12	12 casualties
2	0.0	13	13 casualties
1	0.0	15	15 casualties

Variable 55	TOTAL UNINJURED IN ACC	Width: 2	Type: Numeric
		Dec: None	Miss: 99

Census Prcnt	Code Value and Description
--------------	----------------------------

27243	7.5	0	0 persons
114354	31.3	1	1 person
119115	32.6	2	2 persons
56461	15.5	3	3 persons
26134	7.2	4	4 persons
12250	3.4	5	5 persons
5575	1.5	6	6 persons
2232	0.6	7	7 persons
892	0.2	8	8 persons
346	0.1	9	9 persons
141	0.0	10	10 persons
56	0.0	11	11 persons
26	0.0	12	12 persons
14	0.0	13	13 persons
4	0.0	14	14 persons
1	0.0	15	15 persons
1	0.0	16	16 persons
1	0.0	17	17 persons
1	0.0	20	20 persons

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<u>Variable 56</u>	<u>LEIN POLICE DEPT NUMBER</u>	Width: 3	Type: Numeric
		Dec: None	Miss: 999

Census Prcnt	Code	Value and Description
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5	0.0	0
11	0.0	1
		- Department number
0	0.0	999



The VEHICLE Variables

Variables 101 through 152 describe the traffic units (motor vehicles, pedestrians, pedalcyclists, etc.) involved in the accident. They are included in all Vehicle and Occupant data sets.

Variable 101	TRAFFIC UNIT NUMBER	Width: 2	Type: Numeric
		Dec: None	Miss: 90

Census Prcnt	Code Value and Description
364847	59.4 1 Traffic unit 1
228645	37.2 2 Traffic unit 2
17133	2.8 3 Traffic unit 3
2493	0.4 4 Traffic unit 4
405	0.1 5 Traffic unit 5
75	0.0 6 Traffic unit 6
27	0.0 7 Traffic unit 7
11	0.0 8 Traffic unit 8
8	0.0 9 Traffic unit 9
4	0.0 11 Traffic unit 10
4	0.0 12 Traffic unit 11
3	0.0 13 Traffic unit 12
2	0.0 14 Traffic unit 13
1	0.0 15 Traffic unit 14
278	0.0 90 Parked vehicle with injured occupants

Variable 102	TRAFFIC UNIT TYPE	Width: 2	Type: Numeric
		Dec: None	Miss: 8

Census Prcnt	Code Value and Description
471209	76.8 1 Passenger car
95745	15.6 2 Truck
3468	0.6 3 Motorcycle, motor scooter, moped, etc.
1464	0.2 4 School bus
981	0.2 5 Commercial bus
263	0.0 6 Farm equipment
245	0.0 7 Construction equipment
32627	5.3 8 Other motor vehicle (ambulance, police equipment, snowmobile, etc.) or unknown
4061	0.7 9 Pedestrian
3573	0.6 10 Pedalcycle
22	0.0 11 Other non-motor vehicle
278	0.0 99 Parked vehicle with injured occupants

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Variable 103	VEHICLE MAKE	Width: 2	Type: Numeric
		Dec: None	Miss: 50

Census Prcnt	Code	Value and Description
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## Passenger Cars

2890	0.5	1 American Motors
35136	5.7	2 Buick
10264	1.7	3 Cadillac
93710	15.3	4 Chevrolet
12740	2.1	5 Chrysler
31672	5.2	6 Dodge
90966	14.8	7 Ford
91	0.0	8 Imperial
4187	0.7	9 Jeep
5982	1.0	10 Lincoln
23863	3.9	11 Mercury
41168	6.7	12 Oldsmobile
20735	3.4	13 Plymouth
44991	7.3	14 Pontiac
3873	0.6	15 Volkswagen
6410	1.0	16 GMC
220	0.0	17 International
8606	1.4	18 Honda
15620	2.5	19 Other foreign
1401	0.2	20 Other domestic

(See 71-73 for added pass cars)

## Trucks

29189	4.8	21 Chevrolet
79	0.0	22 Diamond T
7714	1.3	23 Dodge
61	0.0	24 Federal
33038	5.4	25 Ford
10528	1.7	26 GMC
2592	0.4	27 International
844	0.1	28 Mack
647	0.1	29 Peterbilt
56	0.0	30 Reo
578	0.1	31 White
1150	0.2	32 Jeep
1098	0.2	33 Freightliner
9	0.0	34 HINO.
291	0.0	35 I.H.C. (Navistar)
676	0.1	36 Kenworth
79	0.0	37 Mercedes-Benz
1043	0.2	38 Nissan
104	0.0	39 Western Star
5969	1.0	40 Other truck

## Other Motor Vehicles

3001	0.5	41 Motorcycle, motor scooter, etc.
1464	0.2	42 School bus
981	0.2	43 Commercial bus
263	0.0	44 Farm equipment

Variable 103:VEHICLE MAKE (Continued)

Census Prcnt		Code	Value and Description
245	0.0	45	Construction equipment
244	0.0	46	Fire equipment
294	0.0	47	Ambulance
2214	0.4	48	Police equipment
227	0.0	49	Snowmobile
29021	4.7	50	Other motor vehicles or unknown
Pedestrians or Other Road Vehicles			
4061	0.7	51	Pedestrian
3573	0.6	52	Pedalcycle
22	0.0	53	Other non-motor vehicle
467	0.1	54	Moped
206	0.0	61	Off-road recreational vehicle
16	0.0	62	Go-cart
405	0.1	64	Motor Home/Other Self Contained
Additional Passenger Cars			
3731	0.6	71	Mazda
4480	0.7	72	Nissan (Datsun)
8473	1.4	73	Toyota
278	0.0	99	Parked vehicle with injured occupants

---

Variable 104      VEHICLE TYPE      Width: 2      Type: Numeric  
Dec:    None      Miss: 10

---

Census Prcnt		Code	Value and Description
0	0.0	1	Passenger car - under 1500 lbs.
431975	70.4	2	Passenger car - 1500 to 2499 lbs.
0	0.0	3	Passenger car - 2500 to 3500 lbs.
0	0.0	4	Passenger car - over 3500 lbs.
29045	4.7	5	Station wagon, carryall, etc
12624	2.1	6	Jeep type
77544	12.6	7	Pickup or panel truck
8269	1.3	8	Stake or dump truck, step van, motor home, etc.
7784	1.3	9	Truck-tractor (semi) or road tractor
46417	7.6	10	Other or unknown or not a motor vehicle
278	0.0	99	Parked vehicle with injured occupants

---

Variable 105      NSC VEHICLE TYPE      Width: 2      Type: Numeric  
Dec:    None      Miss: 10

---

Census Prcnt		Code	Value and Description
468682	76.3	1	Passenger car
2527	0.4	2	Passenger car and trailer
85202	13.9	3	Truck or truck-tractor

## Variable 105: NSC VEHICLE TYPE (Continued)

Census Prcnt		Code	Value and Description
7628	1.2	4	Truck or truck-tractor and semi-trailer
2915	0.5	5	Other truck combination
263	0.0	6	Farm tractor and/or farm equipment
981	0.2	7	Bus
1464	0.2	8	School bus
3468	0.6	9	Motorcycle, motor scooter, moped, etc.
40528	6.6	10	Other or unknown or not a motor vehicle
278	0.0	99	Parked vehicle with injured occupants

Variable 106	YEAR MANUFACTURED	Width: 2	Type: Numeric
		Dec: None	Miss: 99

## Variable 106: YEAR MANUFACTURED

Census Prcnt		Code	Value and Description
10	0.0	40	1940 or earlier
1	0.0	41	1941
3	0.0	42	1942
1	0.0	43	1943
2	0.0	45	1945
5	0.0	46	1946
5	0.0	47	1947
5	0.0	48	1948
4	0.0	49	1949
7	0.0	50	1950
9	0.0	51	1951
8	0.0	52	1952
7	0.0	53	1953
11	0.0	54	1954
25	0.0	55	1955
14	0.0	56	1956
22	0.0	57	1957
8	0.0	58	1958
9	0.0	59	1959
32	0.0	60	1960
29	0.0	61	1961
64	0.0	62	1962
88	0.0	63	1963
162	0.0	64	1964
211	0.0	65	1965
305	0.0	66	1966
415	0.1	67	1967
529	0.1	68	1968
641	0.1	69	1969
904	0.1	70	1970
1066	0.2	71	1971
1763	0.3	72	1972
2097	0.3	73	1973
2271	0.4	74	1974
3047	0.5	75	1975
6090	1.0	76	1976

Variable 106:YEAR MANUFACTURED (Continued)

Census Prcnt	Code	Value and Description
12345	2.0	77 1977
17928	2.9	78 1978
21468	3.5	79 1979
17785	2.9	80 1980
19615	3.2	81 1981
20535	3.3	82 1982
26893	4.4	83 1983
43628	7.1	84 1984
51839	8.4	85 1985
56697	9.2	86 1986
51187	8.3	87 1987
55731	9.1	88 1988
57304	9.3	89 1989
51696	8.4	90 1990
40216	6.6	91 1991
2794	0.5	92 1992
46405	7.6	99 Unknown or not a motor vehicle

---

Variable 107	VEHICLE CONDITION	Width: 1	Type: Numeric
		Dec: None	Miss: 5

---

Census Prcnt	Code	Value and Description
0	0.0	1 Disabled vehicle
510	0.1	2 Puncture or blowout
3158	0.5	3 Other defective equipment (brakes, lights, steering)
602217	98.1	4 No defect
7773	1.3	5 Unknown or not a motor vehicle
278	0.0	9 Parked motor vehicle with injured occupants

---

Variable 108	VEHICLE DRIVEN/TOWED	Width: 1	Type: Numeric
		Dec: None	Miss: 3

---

Census Prcnt	Code	Value and Description
456926	74.4	1 Driven away
134983	22.0	2 Towed away
21749	3.5	3 Unknown or not a motor vehicle
278	0.0	9 Parked motor vehicle with injured occupants

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Variable 109	TRAILER TYPE	Width: 1	Type: Numeric
		Dec: None	Miss: 6

Census Prcnt	Code	Value and Description
592459	96.5	1 No trailer
4975	0.8	2 Utility trailer
7160	1.2	3 Single bottom truck combination
584	0.1	4 Double bottom truck combination
85	0.0	5 House trailer
7908	1.3	6 Other or unknown or not a motor vehicle
460	0.1	7 Towed vehicle
27	0.0	8
278	0.0	9 Parked motor vehicle with injured occupants

Variable 110	TRUCK CARGO TYPE	Width: 1	Type: Numeric
		Dec: None	Miss: 8

Census Prcnt	Code	Value and Description
904	0.1	1 Commercial - no cargo
54	0.0	2 Commercial - flammable or explosive - no cargo
173	0.0	3 Commercial - flammable or explosive - with cargo
1478	0.2	4 Commercial - general freight - non-bulk
2030	0.3	5 Commercial - general freight - bulk
7126	1.2	6 Non-commercial (private use: camper, miscellaneous articles, empty)
84966	13.8	8 Unknown or not stated
517205	84.2	9 Not a truck

Variable 111	TRUCK CARGO SPILLAGE	Width: 1	Type: Numeric
		Dec: None	Miss: 9

Census Prcnt	Code	Value and Description
1478	0.2	1 Truck cargo spilled
45364	7.4	2 Truck cargo did not spill
49889	8.1	3 Spillage unknown
516927	84.2	4 Not a truck
278	0.0	9 Parked motor vehicle with injured occupants

Variable 112	DRIVER INTENT	Width: 2	Type: Numeric
		Dec: None	Miss: 20

The value descriptions below are valid for drivers and pedalcyclists. If the traffic unit is a pedestrian, the values correspond to the descriptions of variable 113.

Variable 112:DRIVER INTENT (Continued)

Census Prcnt	Code	Value and Description
374900	61.1	1 Going straight ahead
8632	1.4	2 Overtaking or passing
13365	2.2	3 Changing lanes
23245	3.8	4 Making right turn
67646	11.0	5 Making left turn
2054	0.3	6 Making U turn
2611	0.4	7 Slowing or stopping on road
3831	0.6	8 Starting up on road
1000	0.2	9 Entering parking (along side of road)
2705	0.4	10 Leaving parking (along side of road)
19460	3.2	11 Backing
69789	11.4	12 Stopped on road
1181	0.2	13 Pursuing or being pursued (police)
389	0.1	14 Avoiding object
3786	0.6	15 Avoiding animal
667	0.1	16 Avoiding pedestrian
805	0.1	17 Lost load from vehicle
11897	1.9	18 Avoiding vehicle from same or opposite direction
3667	0.6	19 Avoiding vehicle from angle
2028	0.3	20 Other or unknown
278	0.0	99 Parked motor vehicle with injured occupants

---

Variable 113	PEDESTRIAN INTENT	Width: 2	Type: Numeric
		Dec: None	Miss: 99

---

Census Prcnt	Code	Value and Description
3573	0.6	0 Pedalcyclist
1865	0.3	1 Crossing at an intersection
1030	0.2	2 Crossing, but not at an intersection
90	0.0	3 Getting on or off a vehicle
128	0.0	4 Walking in the roadway with the traffic
29	0.0	5 Walking in the roadway against the traffic
156	0.0	6 Standing or lying in the roadway
77	0.0	7 Working on or pushing a vehicle in the roadway
35	0.0	8 Other types of working in the roadway
40	0.0	9 Playing in the roadway
254	0.0	10 Other actions in the roadway
316	0.1	11 Not in roadway
606343	98.8	99 Unknown or not a pedestrian

---

Variable 114	DIRECTION OF TRAVEL	Width: 1	Type: Numeric
		Dec: None	Miss: 9

---

Census Prcnt	Code	Value and Description
150320	24.5	1 North
7144	1.2	2 Northeast

## Variable 114: DIRECTION OF TRAVEL (Continued)

Census Prcnt	Code	Value and Description
143996	23.5	3 East
8781	1.4	4 Southeast
145286	23.7	5 South
6451	1.1	6 Southwest
139888	22.8	7 West
8306	1.4	8 Northwest
3764	0.6	9 Unknown

---

Variable 115	OBJECT HIT	Width: 2	Type: Numeric
		Dec: None	Miss: 19

---

Census Prcnt	Code	Value and Description
548703	89.4	1 No object hit
3969	0.6	2 Guard rail, guard post
5281	0.9	3 Highway sign
6712	1.1	4 Street light, utility pole
517	0.1	5 Culvert
10943	1.8	6 Ditch, embankment, stream
214	0.0	7 Bridge pier or abutment
254	0.0	8 Bridge rail or deck
10637	1.7	9 Tree
180	0.0	10 Highway or railroad signal
1425	0.2	11 Building
4020	0.7	12 Mailbox
2764	0.5	13 Fence
1941	0.3	14 Traffic island or curb
2513	0.4	15 Concrete median barrier
3542	0.6	16 Other on-trafficway object
2021	0.3	17 Other off-trafficway object
303	0.0	18 Overhead fixed object
7719	1.3	19 Unknown or not a motor vehicle
278	0.0	99 Parked motor vehicle with injured occupants

---

Variable 116	SITUATION	Width: 1	Type: Numeric
		Dec: None	Miss: 7

---

Census Prcnt	Code	Value and Description
98	0.0	1 Rebounded from guard rail
17	0.0	2 Went through guard rail
615	0.1	3 Went into median
202	0.0	4 Went through median
2679	0.4	5 Hit object after initial collision
1176	0.2	6 Ran through T intersection
601638	98.0	7 None of the above or not a motor vehicle
7233	1.2	8 Hit and run
278	0.0	9 Parked motor vehicle with injured occupants



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Variable 117      IMPACT CODE                      Width: 2            Type: Numeric  
Dec:    None           Miss: 13

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This is the area damaged, NOT direction of impact force.

Census Prcnt	Code	Value and Description
347	0.1	0 No impact
175758	28.6	1 Center front
76998	12.5	2 Right front
41607	6.8	3 Right side
35039	5.7	4 Right rear
87864	14.3	5 Center rear
31675	5.2	6 Left rear
42938	7.0	7 Left side
77570	12.6	8 Left front
6805	1.1	9 Other impact
11842	1.9	10 Rollover
7171	1.2	11 Both front and rear
18044	2.9	13 Unknown or not a motor vehicle
278	0.0	99 Parked motor vehicle with injured occupants

---

Variable 118      VEHICLE DAMAGE SEVERITY                      Width: 1            Type: Numeric  
Dec:    None           Miss: 9

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VEHICLE DAMAGE SEVERITY CODE (TAD)

Census Prcnt	Code	Value and Description
21498	3.5	1 No damage
206345	33.6	2 Minimum damage
157618	25.7	3 TAD 3
97502	15.9	4 TAD 4
49076	8.0	5 TAD 5
20904	3.4	6 TAD 6
9703	1.6	7 TAD 7
6427	1.0	8 Maximum damage
44863	7.3	9 Unknown

---

Variable 119      FUEL LEAK OR FIRE                              Width: 1            Type: Numeric  
Dec:    None           Miss: 9

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Census Prcnt	Code	Value and Description
2974	0.5	1 Fuel leaked from vehicle
958	0.2	2 Vehicle or cargo caught fire
165	0.0	3 Fuel leaked from vehicle and there was a fire
609561	99.3	4 No vehicle fuel leak or fire occurred
278	0.0	9 Parked motor vehicle with injured occupants

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Variable 120	HIT AND RUN DRIVER	Width: 1	Type: Numeric
		Dec: None	Miss: 9

Census Prcnt	Code Value and Description
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581203	94.7	0	Driver known or pedestrian/pedalcyclist
32455	5.3	1	Unapprehended hit and run driver
278	0.0	9	Parked vehicle with injured occupants

Variable 121	DRINKING OR DRUG USE	Width: 1	Type: Numeric
		Dec: None	Miss: 3

Census Prcnt	Code Value and Description
--------------	----------------------------

28334	4.6	1	Had taken alcohol or drugs
524818	85.5	2	Had not taken alcohol or drugs
60506	9.9	3	Unknown
278	0.0	9	Parked motor vehicle with injured occupants

Variable 122	DRINKING TEST RESULT	Width: 1	Type: Numeric
		Dec: None	Miss: 5

Census Prcnt	Code Value and Description
--------------	----------------------------

600878	97.9	1	Not tested
6867	1.1	2	D.U.I.L. (.10)
429	0.1	3	Impaired (.07)
1247	0.2	4	No influence
4237	0.7	5	Influence unknown
278	0.0	9	Parked motor vehicle with injured occupants

Variable 123	VISUAL OBSTRUCTION	Width: 1	Type: Numeric
		Dec: None	Miss: 6

Census Prcnt	Code Value and Description
--------------	----------------------------

608781	99.2	1	No obstruction
379	0.1	2	Obstruction within or on the vehicle
2730	0.4	3	Physical obstruction at the scene (parked or moving vehicle, shrubbery, trees, building, etc.)
473	0.1	4	Weather obstruction (heavy rain or snow, fog, smoke, etc.)
412	0.1	5	Glare obstruction (sun, headlights, etc.)
883	0.1	6	Other or unknown
278	0.0	9	Parked motor vehicle with injured occupants

---

Variable 124      CONTRIBUTNG CIRCUMSTANCE      Width: 2      Type: Numeric  
Dec:    None      Miss: 10

Census Prcnt      Code Value and Description

11471	1.9	1	Under the influence of alcohol or drugs
7874	1.3	2	Reckless or careless driving (driver) or improper crossing of street (pedestrian)
3557	0.6	3	Ill, fatigued, inattention
16	0.0	4	Failed to comply with license restrictions
3774	0.6	5	Obscured vision
3559	0.6	6	Defective equipment
191	0.0	7	Lost control due to shifting load, wind or vacuum
293786	47.9	8	None
19731	3.2	9	Skidding
269699	43.9	10	Other or unknown
278	0.0	99	Parked motor vehicle with injured occupants

---

Variable 125      HAZARDOUS ACTION      Width: 2      Type: Numeric  
Dec:    None      Miss: 10

Values 02-03 valid for Motor Vehicles only

Census Prcnt      Code Value and Description

304124	49.5	1	No violation
33254	5.4	2	Speed too fast
163	0.0	3	Speed too slow
76976	12.5	4	Failed to yield, disregarded traffic control
487	0.1	5	Wrong way
25850	4.2	6	Left of center, improper overtaking or lane usage
11967	1.9	7	Improper turn, improper or no signal
15715	2.6	8	Improper backing, unsafe start
131201	21.4	9	Followed too closely, unable to stop
13921	2.3	10	Other or unknown
278	0.0	99	Parked motor vehicle with injured occupants

---

Variable 126      POLICE ACTION      Width: 1      Type: Numeric  
Dec:    None      Miss: 4

Census Prcnt      Code Value and Description

440843	71.8	1	No citation
172815	28.1	2	Cited for hazardous violation
0	0.0	3	Cited for other violation
0	0.0	4	Unknown
278	0.0	9	Parked motor vehicle with injured occupants

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Variable 127	TU TOTAL OCCUPANTS	Width: 1	Type: Numeric
		Dec: None	Miss: 9

Census Prcnt	Code	Value and Description
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587	0.1	0 0 occupants
424647	69.2	1 1 occupant or pedestrian
126488	20.6	2 2 occupants
36538	6.0	3 3 occupants
16685	2.7	4 4 occupants
5324	0.9	5 5 occupants
1752	0.3	6 6 occupants
472	0.1	7 7 occupants
1134	0.2	8 8 or more occupants
309	0.1	9 Unknown

Variable 128	LF RESTRAINT USAGE	Width: 1	Type: Numeric
		Dec: None	Miss: 8

Census Prcnt	Code	Value and Description
--------------	------	-----------------------

0	0.0	0 Position not occupied
1649	0.3	1 No belt(s) available
490624	79.9	2 Belt(s) used
41136	6.7	3 Belt(s) not used
793	0.1	4 Air bag activated or not activated
0	0.0	5 Child restraint used
0	0.0	6 Child restraint not used
21	0.0	7 Restraint failure
36339	5.9	8 Restraint use or action unknown
43374	7.1	9 Restraint information not available

Variable 129	CF RESTRAINT USAGE	Width: 1	Type: Numeric
		Dec: None	Miss: 8

Census Prcnt	Code	Value and Description
--------------	------	-----------------------

561680	91.5	0 Position not occupied
184	0.0	1 No belt(s) available
6210	1.0	2 Belt(s) used
1585	0.3	3 Belt(s) not used
2	0.0	4 Air bag activated or not activated
418	0.1	5 Child restraint used
108	0.0	6 Child restraint not used
2	0.0	7 Restraint failure
373	0.1	8 Restraint use or action unknown
43374	7.1	9 Restraint information not available

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Variable 130      RF RESTRAINT USAGE      Width: 1      Type: Numeric  
Dec:    None      Miss: 8

---

Census Prcnt      Code Value and Description

398697	64.9	0	Position not occupied
545	0.1	1	No belt(s) available
149064	24.3	2	Belt(s) used
16144	2.6	3	Belt(s) not used
13	0.0	4	Air bag activated or not activated
1828	0.3	5	Child restraint used
160	0.0	6	Child restraint not used
6	0.0	7	Restraint failure
4105	0.7	8	Restraint use or action unknown
43374	7.1	9	Restraint information not available

---

Variable 131      LR RESTRAINT USAGE      Width: 1      Type: Numeric  
Dec:    None      Miss: 8

---

Census Prcnt      Code Value and Description

537695	87.6	0	Position not occupied
322	0.1	1	No belt(s) available
23043	3.8	2	Belt(s) used
6145	1.0	3	Belt(s) not used
2	0.0	4	Air bag activated or not activated
2162	0.4	5	Child restraint used
75	0.0	6	Child restraint not used
2	0.0	7	Restraint failure
1116	0.2	8	Restraint use or action unknown
43374	7.1	9	Restraint information not available

---

Variable 132      CR RESTRAINT USAGE      Width: 1      Type: Numeric  
Dec:    None      Miss: 8

---

Census Prcnt      Code Value and Description

556829	90.7	0	Position not occupied
331	0.1	1	No belt(s) available
8235	1.3	2	Belt(s) used
2951	0.5	3	Belt(s) not used
1	0.0	4	Air bag activated or not activated
1632	0.3	5	Child restraint used
93	0.0	6	Child restraint not used
2	0.0	7	Restraint failure
488	0.1	8	Restraint use or action unknown
43374	7.1	9	Restraint information not available

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Variable 133	RR RESTRAINT USAGE	Width: 1	Type: Numeric
		Dec: None	Miss: 8

Census Prcnt	Code	Value and Description
528090	86.0	0 Position not occupied
347	0.1	1 No belt(s) available
29654	4.8	2 Belt(s) used
8288	1.3	3 Belt(s) not used
5	0.0	4 Air bag activated or not activated
2803	0.5	5 Child restraint used
120	0.0	6 Child restraint not used
6	0.0	7 Restraint failure
1249	0.2	8 Restraint use or action unknown
43374	7.1	9 Restraint information not available

Variable 134	TOTAL OCC UNRESTRAINED	Width: 1	Type: Numeric
		Dec: None	Miss: 9

Internally generated by the State Police from the six passenger restraint usage variables.

Census Prcnt	Code	Value and Description
514803	83.9	0 0 passengers
38392	6.3	1 1 passenger
12288	2.0	2 2 passengers
3619	0.6	3 3 passengers
1024	0.2	4 4 passengers
354	0.1	5 5 passengers
82	0.0	6 6 passengers
43374	7.1	9 Motorcycle, bus, etc.

Variable 135	TOTAL OCC RESTRAINED	Width: 1	Type: Numeric
		Dec: None	Miss: 9

Internally generated by the State Police from the six passenger restraint usage variables.

Census Prcnt	Code	Value and Description
74674	12.2	0 0 passengers
339374	55.3	1 1 passenger
113515	18.5	2 2 passengers
26895	4.4	3 3 passengers
11789	1.9	4 4 passengers
3607	0.6	5 5 passengers
708	0.1	6 6 passengers
43374	7.1	9 Motorcycle, bus, etc.

---

Variable 136      TOTAL OCC W UNK RES USE      Width: 1      Type: Numeric  
Dec:    None      Miss: 9

Internally generated by the State Police from the six passenger restraint usage variables.

Census Prcnt      Code Value and Description

532760	86.8	0	0 passengers
33740	5.5	1	1 passenger
2896	0.5	2	2 passengers
709	0.1	3	3 passengers
321	0.1	4	4 passengers
89	0.0	5	5 passengers
47	0.0	6	6 passengers
43374	7.1	9	Motorcycle, bus, etc.

---

Variable 137      DRIVER HELMET USE      Width: 1      Type: Numeric  
Dec:    None      Miss: 3

Census Prcnt      Code Value and Description

2942	0.5	1	Helmet used
517047	84.2	2	Helmet not used
93669	15.3	3	Helmet information not coded
278	0.0	9	Parked motor vehicle with injured occupants

---

Variable 138      PASSENGER HELMET USE      Width: 1      Type: Numeric  
Dec:    None      Miss: 3

Census Prcnt      Code Value and Description

336	0.1	1	Helmet used
26696	4.3	2	Helmet not used
586626	95.6	3	Helmet information not coded
278	0.0	9	Parked motor vehicle with injured occupants

---

Variable 139      TU WORST INJURY      Width: 1      Type: Numeric  
Dec:    None      Miss: 9

Census Prcnt      Code Value and Description

1317	0.2	1	Fatal
16799	2.7	2	A - incapacitating injury
29665	4.8	3	B - nonincapacitating injury
63170	10.3	4	C - possible injury
502985	81.9	5	No injury
0	0.0	9	Missing data

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Variable 140	TU TOTAL KILLED	Width: 2	Type: Numeric
		Dec: None	Miss: 99

Census Prcnt	Code Value and Description
--------------	----------------------------

612619	99.8	0	0 killed
1228	0.2	1	1 killed
72	0.0	2	2 killed
16	0.0	3	3 killed
1	0.0	5	5 killed

Variable 141	TU TOTAL A INJURED	Width: 2	Type: Numeric
		Dec: None	Miss: 99

Census Prcnt	Code Value and Description
--------------	----------------------------

596848	97.2	0	0 A injured
14609	2.4	1	1 A injured
1981	0.3	2	2 A injured
375	0.1	3	3 A injured
94	0.0	4	4 A injured
20	0.0	5	5 A injured
7	0.0	6	6 A injured
2	0.0	9	9 A injured

Variable 142	TU TOTAL B INJURED	Width: 2	Type: Numeric
		Dec: None	Miss: 99

Census Prcnt	Code Value and Description
--------------	----------------------------

582576	94.9	0	0 B injured
27565	4.5	1	1 B injured
3118	0.5	2	2 B injured
515	0.1	3	3 B injured
121	0.0	4	4 B injured
32	0.0	5	5 B injured
5	0.0	6	6 B injured
3	0.0	7	7 B injured
1	0.0	8	8 B injured

Variable 143	TU TOTAL C INJURED	Width: 2	Type: Numeric
		Dec: None	Miss: 99

Census Prcnt	Code Value and Description
--------------	----------------------------

546274	89.0	0	0 C injured
58262	9.5	1	1 C injured
7576	1.2	2	2 C injured
1338	0.2	3	3 C injured
380	0.1	4	4 C injured



Variable 143:TU TOTAL C INJURED (Continued)

Census Prcnt	Code	Value	Description
69	0.0	5	5 C injured
22	0.0	6	6 C injured
5	0.0	7	7 C injured
5	0.0	8	8 C injured
2	0.0	9	9 C injured
2	0.0	10	10 C injured
1	0.0	11	11 C injured

---

Variable 144	TU TOTAL INJURED	Width: 2	Type: Numeric
		Dec: None	Miss: 99

---

Census Prcnt	Code	Value	Description
503916	82.1	0	0 injured
90551	14.7	1	1 injured
14993	2.4	2	2 injured
3109	0.5	3	3 injured
1036	0.2	4	4 injured
236	0.0	5	5 injured
62	0.0	6	6 injured
15	0.0	7	7 injured
9	0.0	8	8 injured
4	0.0	9	9 injured
2	0.0	10	10 injured
1	0.0	11	11 injured
1	0.0	12	12 injured
1	0.0	14	14 injured

---

Variable 145	TU TOTAL CASUALTIES	Width: 2	Type: Numeric
		Dec: None	Miss: 99

---

TU TOTAL KILLED (v140) plus TU TOTAL INJURED (v144).

Census Prcnt	Code	Value	Description
502985	81.9	0	0 casualties
91185	14.9	1	1 casualty
15170	2.5	2	2 casualties
3171	0.5	3	3 casualties
1082	0.2	4	4 casualties
246	0.0	5	5 casualties
62	0.0	6	6 casualties
16	0.0	7	7 casualties
9	0.0	8	8 casualties
4	0.0	9	9 casualties
3	0.0	10	10 casualties
1	0.0	11	11 casualties
1	0.0	12	12 casualties

## Variable 145:TU TOTAL CASUALTIES (Continued)

Census Prcnt	Code	Value and Description
1 0.0	14	14 casualties

---

Variable 146	TU TOTAL UNINJURED	Width: 1	Type: Numeric
		Dec: None	Miss: 9

---

Census Prcnt	Code	Value and Description
--------------	------	-----------------------

83247 13.6	0	0 persons
375996 61.2	1	1 person
104416 17.0	2	2 persons
29844 4.9	3	3 persons
13215 2.2	4	4 persons
4166 0.7	5	5 persons
1341 0.2	6	6 persons
1433 0.2	7	7 or more persons
278 0.0	9	Missing data

---

Variable 147	DRIVER/PED AGE	Width: 2	Type: Numeric
		Dec: None	Miss: 99

---

Census Prcnt	Code	Value and Description
--------------	------	-----------------------

0 0.0	0	Less than 1 year old
		- Age in years
3 0.0	98	98 years old
59457 9.7	99	Hit and run driver, driverless vehicle, or unknown

---

Variable 148	DRIVER/PED AGE MSP GRPS	Width: 2	Type: Numeric
		Dec: None	Miss: 12

---

Census Prcnt	Code	Value and Description
--------------	------	-----------------------

1878 0.3	1	15 years old or younger
18903 3.1	2	16 years old
20502 3.3	3	17 years old
38228 6.2	4	18 - 19 years old
84638 13.8	5	20 - 24 years old
144415 23.5	6	25 - 34 years old
106690 17.4	7	35 - 44 years old
60169 9.8	8	45 - 54 years old
38450 6.3	9	55 - 64 years old
26497 4.3	10	65 - 74 years old
14342 2.3	11	75 years old or older
58946 9.6	12	Unknown
278 0.0	99	Parked motor vehicle with injured occupants

The value definitions above are valid for vehicle drivers. If the traffic unit is a pedestrian or pedalcyclist, the values have the following definitions:

- 1 00 - 04 years old
- 2 05 - 09 years old
- 3 10 - 14 years old
- 4 15 - 19 years old
- 5 20 - 24 years old
- 6 25 - 44 years old
- 7 45 - 64 years old
- 8 65 years old or older
- 99 Unknown

Variable 149	DRIVER/PED AGE 5YR GRPS	Width: 2	Type: Numeric
		Dec: None	Miss: 99

Census Prcnt	Code Value and Description
306 0.0	1 00 - 04 years old
1184 0.2	2 05 - 09 years old
2244 0.4	3 10 - 14 years old
75777 12.3	4 15 - 19 years old
84638 13.8	5 20 - 24 years old
74729 12.2	6 25 - 29 years old
68993 11.2	7 30 - 34 years old
58525 9.5	8 35 - 39 years old
48323 7.9	9 40 - 44 years old
34715 5.7	10 45 - 49 years old
25459 4.1	11 50 - 54 years old
20277 3.3	12 55 - 59 years old
18142 3.0	13 60 - 64 years old
14945 2.4	14 65 - 69 years old
11721 1.9	15 70 - 74 years old
8149 1.3	16 75 - 79 years old
4370 0.7	17 80 - 84 years old
1622 0.3	18 85 - 89 years old
323 0.1	19 90 - 94 years old
37 0.0	20 Over 94 years old or missing data
59457 9.7	99 Missing data

Variable 150	DRIVER/PED SEX	Width: 1	Type: Numeric
		Dec: None	Miss: 9

Census Prcnt	Code Value and Description
384896 62.7	1 Male
228762 37.3	2 Female
278 0.0	9 Parked motor vehicle with injured occupants

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1991 - Vehicle

<u>Variable 151</u>	<u>DRIVER/PED RESIDENCE</u>	Width: 1	Type: Numeric
		Dec: None	Miss: 5

Census Prcnt	Code	Value	Description
--------------	------	-------	-------------

435640	71.0	1	In county of crash
120929	19.7	2	Michigan
11081	1.8	3	Illinois, Indiana, Ohio, Wisconsin, Canada
823	0.1	4	Driverless moving vehicle
45185	7.4	5	Other or unknown
278	0.0	9	Parked motor vehicle with injured occupants

<u>Variable 152</u>	<u>VIN</u>	Width: 11	Type: Alphabetic
		Dec: None	Miss: None

VEHICLE ID NUMBER - FIRST 11 POSTIONS

The OCCUPANT Variables

Variables 201 through 210 describe traffic unit occupants involved in the accident. They are included in the Occupant data set. The Occupant data set includes these variables, along with the accident and vehicle variables on an occupant level.

Variable 201	OCCUPANT NUMBER	Width: 2	Type: Numeric
		Dec: None	Miss: 99

Census Prcnt	Code Value and Description
--------------	----------------------------

613936	69.2	1	Occupant 1
182493	20.6	2	Occupant 2
58488	6.6	3	Occupant 3
23085	2.6	4	Occupant 4
6970	0.8	5	Occupant 5
1800	0.2	6	Occupant 6
122	0.0	7	Occupant 7
44	0.0	8	Occupant 8
19	0.0	9	Occupant 9
10	0.0	10	Occupant 10
4	0.0	11	Occupant 11
2	0.0	12	Occupant 12
1	0.0	13	Occupant 13
1	0.0	14	Occupant 14
1	0.0	15	Occupant 15

Variable 202	OCCUPANT LOCATION	Width: 1	Type: Numeric
		Dec: None	Miss: 7

Code value 1 represents a 'second' driver record for a vehicle. UMTRI has dropped the first driver record and generated one from vehicle record information. These generated records have code value 8 for variable 202.

Census Prcnt	Code Value and Description
--------------	----------------------------

272508	30.7	2	Passenger in a passenger car, truck, bus, or construction equipment
4061	0.5	3	Pedestrian
3601	0.4	4	On a pedalcycle
3827	0.4	5	On a motorcycle or moped
274	0.0	6	On farm equipment
412	0.0	7	Other or unknown
602293	67.9	8	Driver record generated by UMTRI from vehicle record.

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Variable	203	OCCUPANT POSITION	Width: 1	Type: Numeric
			Dec: None	Miss: 9

Census Prcnt	Code Value and Description
--------------	----------------------------

613667	69.2	0	Vehicle driver or pedestrian/pedalcyclist
9120	1.0	1	Front center occupant
172325	19.4	2	Front right occupant
33168	3.7	3	Rear left occupant
14143	1.6	4	Rear center occupant
42682	4.8	5	Rear right occupant
28	0.0	6	Pedalcycle passenger
359	0.0	7	Motorcycle, motor scooter or motor bike passenger
5	0.0	8	Farm equipment passenger
1479	0.2	9	Other or unknown

Variable	204	OCCUPANT RESTRAINT USE	Width: 1	Type: Numeric
			Dec: None	Miss: 8

Census Prcnt	Code Value and Description
--------------	----------------------------

3440	0.4	1	No belt(s) available
708027	79.8	2	Belt(s) used
76870	8.7	3	Belt(s) not used
818	0.1	4	Air bag activated or not activated
8861	1.0	5	Child restraint used
608	0.1	6	Child restraint not used
39	0.0	7	Restraint failure
44002	5.0	8	Restraint use or action unknown
44311	5.0	9	Restraint information not available

Variable	205	OCCUPANT HELMET USE	Width: 1	Type: Numeric
			Dec: None	Miss: 3

Census Prcnt	Code Value and Description
--------------	----------------------------

3287	0.4	1	Helmet used
551015	62.1	2	Helmet not used
332674	37.5	3	Helmet information not coded

Variable	206	OCCUPANT AGE	Width: 2	Type: Numeric
			Dec: None	Miss: 99

MSP coding changes have resulted in age under 1 being included with age 1. Some occupants with unknown age have been coded age 0 while others are age 99.

Census Prcnt	Code Value and Description
--------------	----------------------------

762	0.1	1	Age 1 or less
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Variable 206:OCCUPANT AGE (Continued)

Census Prcnt	Code Value and Description
	- Age in years
4 0.0	98 98 years old
291284 32.8	99 Unknown

---

Variable 207	OCCUPANT AGE NSC GRPS	Width: 2	Type: Numeric
		Dec: None	Miss: 12

Census Prcnt	Code Value and Description
2990 0.3	1 00 - 04 years old
4412 0.5	2 05 - 09 years old
6059 0.7	3 10 - 14 years old
84575 9.5	4 15 - 19 years old
90166 10.2	5 20 - 24 years old
149879 16.9	6 25 - 34 years old
110795 12.5	7 35 - 44 years old
62578 7.1	8 45 - 54 years old
40230 4.5	9 55 - 64 years old
28386 3.2	10 65 - 74 years old
15622 1.8	11 75 years old or older
291284 32.8	12 Unknown

---

Variable 208	OCCUPANT AGE 5YR GRPS	Width: 2	Type: Numeric
		Dec: None	Miss: 99

Census Prcnt	Code Value and Description
2990 0.3	1 00 - 04 years old
4412 0.5	2 05 - 09 years old
6059 0.7	3 10 - 14 years old
84575 9.5	4 15 - 19 years old
90166 10.2	5 20 - 24 years old
78209 8.8	6 25 - 29 years old
71670 8.1	7 30 - 34 years old
60779 6.9	8 35 - 39 years old
50016 5.6	9 40 - 44 years old
36049 4.1	10 45 - 49 years old
26529 3.0	11 50 - 54 years old
21205 2.4	12 55 - 59 years old
19025 2.1	13 60 - 64 years old
15856 1.8	14 65 - 69 years old
12530 1.4	15 70 - 74 years old
8719 1.0	16 75 - 79 years old
4728 0.5	17 80 - 84 years old
1766 0.2	18 85 - 89 years old
366 0.0	19 90 - 94 years old
43 0.0	20 Over 94 years old
291284 32.8	99 Unknown

STATE OF MICHIGAN  
1991 - Occupant

---

Variable 209	OCCUPANT SEX	Width: 1	Type: Numeric
		Dec: None	Miss: 9

---

Note that uninjured passengers are coded as male instead of unknown.

Census Prcnt	Code	Value and Description
632723	71.3	1 Male
254253	28.7	2 Female
0	0.0	9 Missing data

---

Variable 210	OCCUPANT INJURY SEVERITY	Width: 1	Type: Numeric
		Dec: None	Miss: 9

---

Census Prcnt	Code	Value and Description
1425	0.2	1 Fatal
20232	2.3	2 A - incapacitating injury
36049	4.1	3 B - nonincapacitating injury
79549	9.0	4 C - possible injury
749721	84.5	5 No injury
0	0.0	9 Missing data



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Index to Variables and Code Value Names

"\*" = Variable Name (i.e., no code value)

"+" = Many code values for this variable

Item	Var	CV	Variable Name or Code Value
abutment	115	7	Bridge pier or abutment
acceleration	18	7	Within 100 ft. WESTof intersection or
access	19	1	On non-limited access roadway
access	21	2	Other fully controlled access route (not
access	31	7	At driveway access
action	113	10	Other actions in the roadway
action	125	*	HAZARDOUS ACTION
action	126	*	POLICE ACTION
action	128	8	Restraint use or action unknown
action	129	8	Restraint use or action unknown
action	130	8	Restraint use or action unknown
action	131	8	Restraint use or action unknown
action	132	8	Restraint use or action unknown
action	133	8	Restraint use or action unknown
action	204	8	Restraint use or action unknown
activated	128	4	Air bag activated or not activated
activated	129	4	Air bag activated or not activated
activated	130	4	Air bag activated or not activated
activated	131	4	Air bag activated or not activated
activated	132	4	Air bag activated or not activated
activated	133	4	Air bag activated or not activated
activated	204	4	Air bag activated or not activated
age	147	*	DRIVER/PED AGE
age	148	*	DRIVER/PED AGE MSP GRPS
age	149	*	DRIVER/PED AGE 5YR GRPS
age	206	*	OCCUPANT AGE
age	207	*	OCCUPANT AGE NSC GRPS
age	208	*	OCCUPANT AGE 5YR GRPS
ahead	112	1	Going straight ahead
air	128	4	Air bag activated or not activated
air	129	4	Air bag activated or not activated
air	130	4	Air bag activated or not activated
air	131	4	Air bag activated or not activated
air	132	4	Air bag activated or not activated
air	133	4	Air bag activated or not activated
air	204	4	Air bag activated or not activated
alcohol	121	1	Had taken alcohol or drugs
alcohol	124	1	Under the influence of alcohol or drugs
alcona	12	1	Alcona
alger	12	2	Alger
alighting	34	2	School bus not involved, but person boar
alignment	22	*	ROAD ALIGNMENT
allegan	12	3	Allegan
along	112	9	Entering parking (along side of road)
alpena	11	74	Alpena
alpena	12	4	Alpena
ambulance	102	8	Other motor vehicle (ambulance, police e
ambulance	103	47	Ambulance
american	103	1	American Motors
analysis	31	*	ACC ANALYSIS - WHERE
analysis	32	*	ACC ANALYSIS - HOW
analysis	33	*	ACC ANALYSIS SUBSCRIPT
angle	31	5	At angle - at intersection
angle	33	1	Two vehicles hit at angle at intersectio

MICHIGAN 1991 Index (continued)

Item	Var	CV	Variable Name or Code Value
angle	37	5	Angle
angle	38	5	Two-vehicle - angle
angle	112	19	Avoiding vehicle from angle
animal	30	8	Collision with an animal
animal	33	33	Vehicle hit non-fixed object or animal a
animal	35	9	Collision with animal
animal	112	15	Avoiding animal
antrim	12	5	Antrim
april	2	4	April
april	6	14	April 1- April 7
arenac	12	6	Arenac
arterial	16	991	Major arterial local trafficway (not a s
arterial	21	5	Other major arterial state trunkline (bu
articles	110	6	Non-commercial (private use: camper, mis
august	2	8	August
august	6	31	July 29 - August 4
backed	37	6	Backed into
backing	32	6	One straight and one backing
backing	33	5	Two vehicles hit while going in the same
backing	112	11	Backing
backing	125	8	Improper backing, unsafe start
bad axe	11	33	Bad Axe
bag	128	4	Air bag activated or not activated
bag	129	4	Air bag activated or not activated
bag	130	4	Air bag activated or not activated
bag	131	4	Air bag activated or not activated
bag	132	4	Air bag activated or not activated
bag	133	4	Air bag activated or not activated
bag	204	4	Air bag activated or not activated
baraga	12	7	Baraga
barricade	24	2	Obstruction (tree, barricade, etc.)
barrier	115	15	Concrete median barrier
barry	12	8	Barry
battle creek	11	46	Battle Creek
bay	12	9	Bay
bay city	11	31	Bay City
belt	128	1	No belt(s) available
belt	129	1	No belt(s) available
belt	130	1	No belt(s) available
belt	131	1	No belt(s) available
belt	132	1	No belt(s) available
belt	133	1	No belt(s) available
belt	204	1	No belt(s) available
benton harbor	11	57	Benton Harbor
benzie	12	10	Benzie
berrien	12	11	Berrien
bike	203	7	Motorcycle, motor scooter or motor bike
blissfield	11	44	Blissfield
blowout	107	2	Puncture or blowout
boarding	34	2	School bus not involved, but person boar
bottom	109	3	Single bottom truck combination
brake	107	3	Other defective equipment (brakes, light
branch	12	12	Branch
bridge	24	7	Frosted bridge
bridge	115	7	Bridge pier or abutment
bridgeport	11	37	Bridgeport
brighton	11	12	Brighton

## MICHIGAN 1991 Index (continued)

Item	Var	CV	Variable Name or Code Value
broadside	32	1	Both straight - head-on, rear-end, broad
buick	103	2	Buick
building	115	11	Building
building	123	3	Physical obstruction at the scene (parke
bulk	110	5	Commercial - general freight - bulk
bump	24	4	Holes, ruts, bumps
bus	34	1	School bus physically involved
bus	102	4	School bus
bus	103	42	School bus
bus	105	7	Bus
bus	134	9	Motorcycle, bus, etc.
bus	135	9	Motorcycle, bus, etc.
bus	136	9	Motorcycle, bus, etc.
bus	202	1	Driver of a passenger car, truck, bus, o
business	20	4	Interstate business loop or spur
business	21	5	Other major arterial state trunkline (bu
cadillac	11	76	Cadillac
cadillac	103	3	Cadillac
calhoun	12	13	Calhoun
calumet	11	90	Calumet
camper	110	6	Non-commercial (private use: camper, mis
canada	151	3	Illinois, Indiana, Ohio, Wisconsin, Cana
car	39	2	Car - car
car	102	1	Passenger car
car	104	1	Passenger car - under 1500 lbs.
car	105	1	Passenger car
car	202	1	Driver of a passenger car, truck, bus, o
careless	124	2	Reckless or careless driving (driver) or
cargo	110	*	TRUCK CARGO TYPE
cargo	111	*	TRUCK CARGO SPILLAGE
cargo	119	2	Vehicle or cargo caught fire
cargo-explosive	34	7	Dangerous Cargo-explosive,radioactive,co
caro	11	39	Caro
carryall	104	5	Station wagon, carryall, etc
case	1	*	CASE SEQUENCE NUMBER
cass	12	14	Cass
casualties	54	*	TOTAL CASUALTIES IN ACC
casualties	145	*	TU TOTAL CASUALTIES
casualty	54	1	1 casualty
casualty	145	1	1 casualty
caught	117	12	Caught fire before impact
caught	119	2	Vehicle or cargo caught fire
cf	129	*	CF RESTRAINT USAGE
changing	112	3	Changing lanes
channel	18	83	Turn channel at crossroad
charlevoix	12	15	Charlevoix
cheboygan	11	72	Cheboygan
cheboygan	12	16	Cheboygan
chevrolet	103	4	Chevrolet
child	128	5	Child restraint used
child	129	5	Child restraint used
child	130	5	Child restraint used
child	131	5	Child restraint used
child	132	5	Child restraint used
child	133	5	Child restraint used
child	204	5	Child restraint used
chippewa	12	17	Chippewa

MICHIGAN 1991 Index (continued)

Item	Var	CV	Variable Name or Code Value
chrysler	103	5	Chrysler
church	18	60	Crossing - school or church driveway
circumstance	36	*	NSC ACC CIRCUMSTANCE
circumstance	124	*	CONTRIBUTNG CIRCUMSTANCE
citation	126	1	No citation
cited	126	2	Cited for hazardous violation
city	13	*	CITY OR TOWNSHIP
city	16	993	City street that is not major arterial
city	20	9	County road, city street, or unknown
city	42	4	City or village police
clare	12	18	Clare
class	20	*	HIGHWAY CLASS
class	21	*	HIGHWAY CLASS SUBSCRIPT
clear	27	1	Clear or cloudy
clinton	11	42	Clinton
clinton	12	19	Clinton
closely	36	4	Followed too closely, unable to stop
closely	125	9	Followed too closely, unable to stop
cloudy	27	1	Clear or cloudy
code	18	*	HIGHWAY AREA CODE
code	39	0	Invalid code
code	101	10	Not a valid code
code	102	0	Invalid code
code	117	*	IMPACT CODE
code	204	0	Invalid code
coded	137	3	Helmet information not coded
coded	138	3	Helmet information not coded
coded	205	3	Helmet information not coded
collector	18	10	Exit to collector distributor
collision	30	2	Collision with a railroad train
collision	35	3	Collision with pedestrian
collision	37	0	Collision of motor vehicle with other th
collision	38	8	Two-vehicle collision - unclassifiable
collision	116	5	Hit object after initial collision
combination	105	5	Other truck combination
combination	109	3	Single bottom truck combination
commercial	18	56	Crossing - commercial driveway
commercial	102	5	Commercial bus
commercial	103	43	Commercial bus
commercial	110	1	Commercial - no cargo
comply	124	4	Failed to comply with license restrictio
concrete	115	15	Concrete median barrier
condition	107	*	VEHICLE CONDITION
configuration	38	*	ACCIDENT CONFIGURATION
confines	18	0	Within confines of intersection (within
connector	20	7	Connector
construction	26	*	CONSTRUCTION ZONE
construction	102	7	Construction equipment
construction	103	45	Construction equipment
construction	202	1	Driver of a passenger car, truck, bus, o
contained	103	64	Motor Home/Other Self Contained
contributng	124	*	CONTRIBUTNG CIRCUMSTANCE
control	15	*	MILES IN CONTROL SECTION
control	25	*	TRAFFIC CONTROL
control	36	2	Failed to yield, disregarded traffic con
control	124	7	Lost control due to shifting load, wind
control	125	4	Failed to yield, disregarded traffic con

## MICHIGAN 1991 Index (continued)

Item	Var	CV	Variable Name or Code Value
controlled	21	2	Other fully controlled access route (not
corrosive	34	7	Dangerous Cargo-explosive,radioactive,co
county	12	*	COUNTY
county	14	*	ROUTE THROUGH COUNTY
county	16	992	County road that is not major arterial
county	20	9	County road, city street, or unknown
county	42	2	County sheriff
county	151	1	In county of crash
cr	132	*	CR RESTRAINT USAGE
crash	151	1	In county of crash
crawford	12	20	Crawford
crossover	18	71	Crossing - enter crossover
crossroad	18	23	Leave ramp or on crossroad - accident ra
crosswalk	18	0	Within confines of intersection (within
culvert	115	5	Culvert
curb	115	14	Traffic island or curb
curve	18	81	On cut-off curve
curve	22	2	Curve
curve	25	9	Other warning sign (no turn, sharp curve
cut-off	18	80	On deceleration lane (right turn cut-off
cyclist	40	1	Drinking by a driver, pedestrian, cyclis
damage	45	3	Property damage
damage	118	*	VEHICLE DAMAGE SEVERITY
dangerous	34	7	Dangerous Cargo-explosive,radioactive,co
darkness	28	3	Darkness with street lights
datsun	103	72	Nissan (Datsun)
dawn	28	2	Dawn or dusk
day	3	*	ACCIDENT DAY
day	5	*	TIME OF DAY
day	7	*	JULIAN DAY FROM 03-01-00
day	8	*	DAY OF WEEK
daylight	28	1	Daylight
deceleration	18	6	Within 100 ft. S. W. of intersection or
december	2	12	December
december	6	48	November 25 - December 1
deck	115	8	Bridge rail or deck
deer	34	4	Deer physically involved
defect	24	*	ROAD DEFECT
defect	36	11	Other mechanical defect
defect	107	4	No defect
defective	36	10	Defective tires
defective	107	3	Other defective equipment (brakes, light
defective	124	6	Defective equipment
delta	12	21	Delta
department	10	*	HIGHWAY DEPT DISTRICT
department	56	*	LEIN POLICE DEPT NUMBER
detailed	33	18	Two vehicles hit in some fashion not det
detroit	11	21	Detroit
detroit freeway	11	29	Detroit Freeway
diamond	103	22	Diamond T
dickinson	12	22	Dickinson
direction	31	1	Same direction (if two vehicle) - at int
direction	33	2	Two vehicles hit while going straight in
direction	112	18	Avoiding vehicle from same or opposite d
direction	114	*	DIRECTION OF TRAVEL
directions	33	6	Two vehicles hit while going straight in
disabled	32	5	One straight and one stopped or disabled

MICHIGAN 1991 Index (continued)

Item	Var	CV	Variable Name or Code Value
disabled	33	4	Two vehicles hit while going in the same
disabled	107	1	Disabled vehicle
disregarded	36	2	Failed to yield, disregarded traffic con
disregarded	125	4	Failed to yield, disregarded traffic con
distributor	18	10	Exit to collector distributor
district	10	*	HIGHWAY DEPT DISTRICT
ditch	115	6	Ditch, embankment, stream
divided	22	3	Transition (from a divided to a non-divi
dodge	103	6	Dodge
domestic	103	20	Other domestic
double	109	4	Double bottom truck combination
drifting	24	6	Drifting snow
drinking	36	7	Had been drinking
drinking	40	*	DRINKING IN ACCIDENT
drinking	121	*	DRINKING OR DRUG USE
drinking	122	*	DRINKING TEST RESULT
drive	20	8	Service drive
drive	21	9	Service drive, local trafficway, or unkn
driven	108	*	VEHICLE DRIVEN/TOWED
driver	36	6	Driver inattention, illness, etc.
driver	40	1	Drinking by a driver, pedestrian, cyclis
driver	112	*	DRIVER INTENT
driver	120	*	HIT AND RUN DRIVER
driver	124	2	Reckless or careless driving (driver) or
driver	137	*	DRIVER HELMET USE
driver	147	*	DRIVER/PED AGE
driver	148	*	DRIVER/PED AGE MSP GRPS
driver	149	*	DRIVER/PED AGE 5YR GRPS
driver	150	*	DRIVER/PED SEX
driver	151	*	DRIVER/PED RESIDENCE
driver	202	1	Driver of a passenger car, truck, bus, o
driver	203	0	Vehicle driver or pedestrian/pedalcyclis
driverless	147	99	Hit and run driver, driverless vehicle,
driverless	151	4	Driverless moving vehicle
driveway	18	56	Crossing - commercial driveway
driveway	31	7	At driveway access
driveway	32	7	One straight and one entering parking or
driveway	33	12	Moving vehicle hit parked vehicle - not
driving	36	8	Other improper driving
driving	124	2	Reckless or careless driving (driver) or
drug	121	*	DRINKING OR DRUG USE
drug	124	1	Under the influence of alcohol or drugs
dry	23	1	Dry
dump	104	8	Stake or dump truck, step van, motor hom
dusk	28	2	Dawn or dusk
earlier	106	40	1940 or earlier
east	18	3	Within 100 ft. EASTof intersection
east	114	3	East
east lansing	11	11	East Lansing
east tawas	11	32	East Tawas
eaton	12	23	Eaton
eighth district	10	8	Eighth district
embankment	115	6	Ditch, embankment, stream
emergency	34	6	Emergency or pursuit vehicle involved or
emmet	12	24	Emmet
empty	110	6	Non-commercial (private use: camper, mis
enforcement	44	*	ENFORCEMENT IN ACCIDENT

## MICHIGAN 1991 Index (continued)

Item	Var	CV	Variable Name or Code Value
engineering	34	9	Traffic engineering needed
entering	18	75	Entering or leaving shoulder - right sid
entering	32	7	One straight and one entering parking or
entering	33	14	Two vehicles hit while one entering park
entering	112	9	Entering parking (along side of road)
entrance	18	15	Entrance from collector distributor
equipment	102	6	Farm equipment
equipment	103	44	Farm equipment
equipment	105	6	Farm tractor and/or farm equipment
equipment	107	3	Other defective equipment (brakes, light
equipment	124	6	Defective equipment
equipment	202	1	Driver of a passenger car, truck, bus, o
equipment	203	8	Farm equipment passenger
erie	11	28	Erie
error	36	9	Pedestrian error
exit	18	10	Exit to collector distributor
explosive	110	2	Commercial - flammable or explosive - no
factory	18	58	Crossing - factory driveway
failure	128	7	Restraint failure
failure	129	7	Restraint failure
failure	130	7	Restraint failure
failure	131	7	Restraint failure
failure	132	7	Restraint failure
failure	133	7	Restraint failure
failure	204	7	Restraint failure
farm	102	6	Farm equipment
farm	103	44	Farm equipment
farm	105	6	Farm tractor and/or farm equipment
farm	202	6	On farm equipment
farm	203	8	Farm equipment passenger
fashion	33	18	Two vehicles hit in some fashion not det
fast	36	1	Speed too fast
fast	125	2	Speed too fast
fatal	45	1	Fatal
fatal	48	1	Fatal
fatal	139	1	Fatal
fatal	210	1	Fatal
fatigued	124	3	Ill, fatigued, inattention
february	2	2	February
february	6	5	January 29 - February 4
federal	103	24	Federal
female	150	2	Female
female	209	2	Female
fence	115	13	Fence
fifth district	10	5	Fifth district
fire	103	46	Fire equipment
fire	117	12	Caught fire before impact
fire	119	*	FUEL LEAK OR FIRE
first district	10	1	First district
fixed	30	6	Collision with a fixed object
fixed	33	32	Vehicle hit fixed object at intersection
fixed	35	10	Collision with a fixed object
fixed	115	18	Overhead fixed object
flagman	25	4	Traffic regulator (flagman, watchman, po
flammable	110	2	Commercial - flammable or explosive - no
flare	18	78	Left turn flare (slot)
flasher	25	5	Flasher (includes railroad flasher)

MICHIGAN 1991 Index (continued)

Item	Var	CV	Variable Name or Code Value
flat rock	11	25	Flat Rock
flint	11	35	Flint
fog	27	2	Fog
fog	123	4	Weather obstruction (heavy rain or snow,
followed	36	4	Followed too closely, unable to stop
followed	125	9	Followed too closely, unable to stop
foot	18	1	Within 100 ft. NORTH of intersection
ford	103	7	Ford
foreign	103	19	Other foreign
fourth district	10	4	Fourth district
freight	110	4	Commercial - general freight - non-bulk
freightliner	103	33	Freightliner
friday	8	6	Friday
friday	9	120	12:00 a.m. Friday - 12:59 a.m. Friday
front	117	1	Center front
front	203	1	Front center occupant
frosted	24	7	Frosted bridge
fuel	119	*	FUEL LEAK OR FIRE
fully	21	2	Other fully controlled access route (not
fully-controlled	21	3	Other U.S. route (not fully-controlled a
gaylord	11	73	Gaylord
general	110	4	Commercial - general freight - non-bulk
genesee	12	25	Genesee
gladstone	11	85	Gladstone
gladwin	12	26	Gladwin
glare	123	5	Glare obstruction (sun, headlights, etc.
gmc	103	16	GMC
go	25	3	Stop and go signal
go-cart	103	62	Go-cart
gogebic	12	27	Gogebic
grade	18	59	Crossing - railroad grade crossing
grand haven	11	64	Grand Haven
grand traverse	12	28	Grand Traverse
gratiot	12	29	Gratiot
grps	148	*	DRIVER/PED AGE MSP GRPS
grps	149	*	DRIVER/PED AGE 5YR GRPS
grps	207	*	OCCUPANT AGE NSC GRPS
grps	208	*	OCCUPANT AGE 5YR GRPS
guard	115	2	Guard rail, guard post
guard	116	1	Rebounded from guard rail
hart	11	66	Hart
hastings (team)	11	58	Hastings (team)
hazardous	44	1	Hazardous violation in accident
hazardous	125	*	HAZARDOUS ACTION
hazardous	126	2	Cited for hazardous violation
head	37	1	Head on
headlight	123	5	Glare obstruction (sun, headlights, etc.
head-on	32	1	Both straight - head-on, rear-end, broad
head-on	33	6	Two vehicles hit while going straight in
head-on	38	2	Two-vehicle - head-on
heavy	123	4	Weather obstruction (heavy rain or snow,
helmet	137	*	DRIVER HELMET USE
helmet	138	*	PASSENGER HELMET USE
helmet	205	*	OCCUPANT HELMET USE
highway	10	*	HIGHWAY DEPT DISTRICT
highway	16	*	HIGHWAY NUMBER
highway	17	*	HIGHWAY AREA TYPE



MICHIGAN 1991 Index (continued)

Item	Var	CV	Variable Name or Code Value
highway	18	*	HIGHWAY AREA CODE
highway	20	*	HIGHWAY CLASS
highway	21	*	HIGHWAY CLASS SUBSCRIPT
highway	115	3	Highway sign
hillsdale	12	30	Hillsdale
hino	103	34	HINO.
hit	33	1	Two vehicles hit at angle at intersectio
hit	115	*	OBJECT HIT
hit	116	5	Hit object after initial collision
hit	120	*	HIT AND RUN DRIVER
hit	147	99	Hit and run driver, driverless vehicle,
hole	24	4	Holes, ruts, bumps
home	103	64	Motor Home/Other Self Contained
home	104	8	Stake or dump truck, step van, motor hom
honda	103	18	Honda
houghton	12	31	Houghton
houghton lake	11	75	Houghton Lake
hour	9	*	HOUR OF WEEK
house	109	5	House trailer
huron	12	32	Huron
icy	23	3	Snowy or icy
ill	124	3	Ill, fatigued, inattention
illinois	151	3	Illinois, Indiana, Ohio, Wisconsin, Cana
illness	36	6	Driver inattention, illness, etc.
impact	117	*	IMPACT CODE
impaired	122	3	Impaired (.07)
imperial	103	8	Imperial
inattention	36	6	Driver inattention, illness, etc.
inattention	124	3	Ill, fatigued, inattention
incapacitating	48	2	A - incapacitating injury
incapacitating	139	2	A - incapacitating injury
incapacitating	210	2	A - incapacitating injury
indiana	151	3	Illinois, Indiana, Ohio, Wisconsin, Cana
influence	122	4	No influence
influence	124	1	Under the influence of alcohol or drugs
influenced	34	3	School bus not involved, but influenced
information	128	9	Restraint information not available
information	129	9	Restraint information not available
information	130	9	Restraint information not available
information	131	9	Restraint information not available
information	132	9	Restraint information not available
information	133	9	Restraint information not available
information	137	3	Helmet information not coded
information	138	3	Helmet information not coded
information	204	9	Restraint information not available
information	205	3	Helmet information not coded
ingham	12	33	Ingham
initial	116	5	Hit object after initial collision
injured	34	2	School bus not involved, but person boar
injured	50	*	TOTAL A INJURED IN ACC
injured	51	*	TOTAL B INJURED IN ACC
injured	52	*	TOTAL C INJURED IN ACC
injured	53	*	TOTAL INJURED IN ACC
injured	101	90	Parked vehicle with injured occupants
injured	102	99	Parked vehicle with injured occupants
injured	103	99	Parked vehicle with injured occupants
injured	104	99	Parked vehicle with injured occupants

MICHIGAN 1991 Index (continued)

Item	Var	CV	Variable Name or Code Value
injured	105	99	Parked vehicle with injured occupants
injured	107	9	Parked motor vehicle with injured occupa
injured	108	9	Parked motor vehicle with injured occupa
injured	109	9	Parked motor vehicle with injured occupa
injured	111	9	Parked motor vehicle with injured occupa
injured	112	99	Parked motor vehicle with injured occupa
injured	115	99	Parked motor vehicle with injured occupa
injured	116	9	Parked motor vehicle with injured occupa
injured	117	99	Parked motor vehicle with injured occupa
injured	119	9	Parked motor vehicle with injured occupa
injured	120	9	Parked vehicle with injured occupants
injured	121	9	Parked motor vehicle with injured occupa
injured	122	9	Parked motor vehicle with injured occupa
injured	123	9	Parked motor vehicle with injured occupa
injured	124	99	Parked motor vehicle with injured occupa
injured	125	99	Parked motor vehicle with injured occupa
injured	126	9	Parked motor vehicle with injured occupa
injured	137	9	Parked motor vehicle with injured occupa
injured	138	9	Parked motor vehicle with injured occupa
injured	141	*	TU TOTAL A INJURED
injured	142	*	TU TOTAL B INJURED
injured	143	*	TU TOTAL C INJURED
injured	144	*	TU TOTAL INJURED
injured	148	99	Parked motor vehicle with injured occupa
injured	150	9	Parked motor vehicle with injured occupa
injured	151	9	Parked motor vehicle with injured occupa
injury	45	2	Injury
injury	48	*	WORST INJURY IN ACC
injury	139	*	TU WORST INJURY
injury	210	*	OCCUPANT INJURY SEVERITY
intent	112	*	DRIVER INTENT
intent	113	*	PEDESTRIAN INTENT
interchange	17	1	Interchange area
interchange	18	0	Within confines of intersection (within
international	103	17	International
intersection	17	2	Intersection area
intersection	18	0	Within confines of intersection (within
intersection	31	1	Same direction (if two vehicle) - at int
intersection	33	1	Two vehicles hit at angle at intersectio
intersection	113	1	Crossing at an intersection
intersection	116	6	Ran through T intersection
interstate	20	1	Interstate route
interstate	21	1	Interstate route
investigated	42	*	ACCIDENT INVESTIGATED BY
investigated	43	*	INVESTIGATED AT SCENE
ionia	11	13	Ionia
ionia	12	34	Ionia
iosco	12	35	Iosco
iron	12	36	Iron
iron mountain	11	86	Iron Mountain
iron river	11	92	Iron River
isabella	12	37	Isabella
island	115	14	Traffic island or curb
ithica	11	14	Ithica
jackson	11	41	Jackson
jackson	12	38	Jackson
january	2	1	January

MICHIGAN 1991 Index (continued)

Item	Var	CV	Variable Name or Code Value
january	6	1	January 1- January 7
jeep	103	9	Jeep
jeep	104	6	Jeep type
jonesville	11	45	Jonesville
julian	7	*	JULIAN DAY FROM 03-01-00
july	2	7	July
july	6	27	July 1- July 7
june	2	6	June
june	6	22	May 27 - June 2
kalamazoo	12	39	Kalamazoo
kalkaska	12	40	Kalkaska
kalkaska (team)	11	79	Kalkaska (team)
kent	12	41	Kent
kenworth	103	36	Kenworth
keweenaw	12	42	Keweenaw
killed	49	*	TOTAL KILLED IN ACC
killed	140	*	TU TOTAL KILLED
lake	12	43	Lake
lakeview	11	67	Lakeview
lane	18	6	Within 100 ft. S. W. of intersection or
lane	22	3	Transition (from a divided to a non-divi
lane	36	3	Left of center, improper overtaking or l
lane	112	3	Changing lanes
lane	125	6	Left of center, improper overtaking or l
l'anse	11	88	L'Anse
lapeer	11	38	Lapeer
lapeer	12	44	Lapeer
leak	119	*	FUEL LEAK OR FIRE
leaked	119	1	Fuel leaked from vehicle
least	35	5	Collision of motor vehicles with at leas
leaving	18	75	Entering or leaving shoulder - right sid
leaving	32	8	One straight and one leaving parking or
leaving	33	15	Two vehicles hit while one leaving parki
leaving	112	10	Leaving parking (along side of road)
leelanau	12	45	Leelanau
left	18	76	Entering or leaving shoulder - left side
left	32	3	One straight and one turning left
left	33	7	Two vehicles hit while going in opposite
left	36	3	Left of center, improper overtaking or l
left	112	5	Making left turn
left	117	6	Left rear
left	125	6	Left of center, improper overtaking or l
left	128	*	LF RESTRAINT USAGE
left	203	3	Rear left occupant
lein	56	*	LEIN POLICE DEPT NUMBER
lenawee	12	46	Lenawee
license	124	4	Failed to comply with license restrictio
light	25	7	School speed zone - with light or flashe
light	28	*	LIGHT
light	107	3	Other defective equipment (brakes, light
light	115	4	Street light, utility pole
limited	19	3	On limited access roadway
lincoln	103	10	Lincoln
livingston	12	47	Livingston
load	112	17	Lost load from vehicle
load	124	7	Lost control due to shifting load, wind
local	14	999	Local road or unknown

## MICHIGAN 1991 Index (continued)

Item	Var	CV	Variable Name or Code Value
local	16	991	Major arterial local trafficway (not a s
local	21	9	Service drive, local trafficway, or unkn
loop	18	0	Within confines of intersection (within
loop	20	4	Interstate business loop or spur
loose	24	3	Loose material on surface (oil, sand, et
lost	112	17	Lost load from vehicle
lost	124	7	Lost control due to shifting load, wind
low	24	5	Low or soft shoulder
lr	131	*	LR RESTRAINT USAGE
luce	12	48	Luce
lying	113	6	Standing or lying in the roadway
mack	103	28	Mack
mackinac	12	49	Mackinac
macomb	12	50	Macomb
mailbox	115	12	Mailbox
main	18	21	Off ramp near main road
major	16	991	Major arterial local trafficway (not a s
major	21	5	Other major arterial state trunkline (bu
make	103	*	VEHICLE MAKE
making	112	4	Making right turn
male	150	1	Male
male	209	1	Male
manistee	11	77	Manistee
manistee	12	51	Manistee
manistique	11	84	Manistique
manufactured	106	*	YEAR MANUFACTURED
march	2	3	March
march	6	9	February 26 - March 3
marquette	11	81	Marquette
marquette	12	52	Marquette
mason	12	53	Mason
material	24	3	Loose material on surface (oil, sand, et
maximum	118	8	Maximum damage
may	2	5	May
may	6	18	April 29 - May 5
mazda	103	71	Mazda
mechanical	36	11	Other mechanical defect
mecosta	12	54	Mecosta
median	35	4	Collision of motor vehicles without medi
median	115	15	Concrete median barrier
median	116	3	Went into median
meeting	37	3	Sideswipe - meeting
menominee	12	55	Menominee
mercedes-benz	103	37	Mercedes-Benz
mercury	103	11	Mercury
michigan	20	3	Michigan route
michigan	21	4	Other Michigan route (not fully-controll
michigan	34	8	Michigan State Police special study
michigan	151	2	Michigan
midland	12	56	Midland
minimum	118	2	Minimum damage
miscellaneous	110	6	Non-commercial (private use: camper, mis
missaukee	12	57	Missaukee
missing data	11	99	Missing data
missing data	12	99	Missing data
mix	39	*	TRAFFIC UNIT MIX
monday	8	2	Monday

MICHIGAN 1991 Index (continued)

Item	Var	CV	Variable Name or Code Value
monday	9	24	12:00 a.m. Monday - 12:59 a.m. Monday
monroe	12	58	Monroe
montcalm	12	59	Montcalm
month	2	*	ACCIDENT MONTH
montmorency	12	60	Montmorency
moped	39	4	Car - motorcycle,moped
moped	102	3	Motorcycle, motor scooter, moped, etc.
moped	103	54	Moped
moped	105	9	Motorcycle, motor scooter, moped, etc.
moped	202	5	On a motorcycle or moped
motor	30	1	Motor vehicle overturned
motor	35	1	Motor vehicle overturned
motor	37	0	Collision of motor vehicle with other th
motor	102	3	Motorcycle, motor scooter, moped, etc.
motor	103	1	American Motors
motor	104	8	Stake or dump truck, step van, motor hom
motor	105	9	Motorcycle, motor scooter, moped, etc.
motor	106	99	Unknown or not a motor vehicle
motor	107	5	Unknown or not a motor vehicle
motor	108	3	Unknown or not a motor vehicle
motor	109	6	Other or unknown or not a motor vehicle
motor	111	9	Parked motor vehicle with injured occupa
motor	112	99	Parked motor vehicle with injured occupa
motor	115	19	Unknown or not a motor vehicle
motor	116	7	None of the above or not a motor vehicle
motor	117	13	Unknown or not a motor vehicle
motor	119	9	Parked motor vehicle with injured occupa
motor	121	9	Parked motor vehicle with injured occupa
motor	122	9	Parked motor vehicle with injured occupa
motor	123	9	Parked motor vehicle with injured occupa
motor	124	99	Parked motor vehicle with injured occupa
motor	125	99	Parked motor vehicle with injured occupa
motor	126	9	Parked motor vehicle with injured occupa
motor	137	9	Parked motor vehicle with injured occupa
motor	138	9	Parked motor vehicle with injured occupa
motor	148	99	Parked motor vehicle with injured occupa
motor	150	9	Parked motor vehicle with injured occupa
motor	151	9	Parked motor vehicle with injured occupa
motor	203	7	Motorcycle, motor scooter or motor bike
motorcycle	39	4	Car - motorcycle,moped
motorcycle	102	3	Motorcycle, motor scooter, moped, etc.
motorcycle	103	41	Motorcycle, motor scooter, etc.
motorcycle	105	9	Motorcycle, motor scooter, moped, etc.
motorcycle	134	9	Motorcycle, bus, etc.
motorcycle	135	9	Motorcycle, bus, etc.
motorcycle	136	9	Motorcycle, bus, etc.
motorcycle	202	5	On a motorcycle or moped
motorcycle	203	7	Motorcycle, motor scooter or motor bike
msp	148	*	DRIVER/PED AGE MSP GRPS
mt. pleasant	11	63	Mt. Pleasant
munising	11	91	Munising
muskegon	12	61	Muskegon
navistar	103	35	I.H.C. (Navistar)
needed	34	9	Traffic engineering needed
new buffalo	11	54	New Buffalo
newaygo	11	65	Newaygo
newaygo	12	62	Newaygo

MICHIGAN 1991 Index (continued)

Item	Var	CV	Variable Name or Code Value
newberry	11	82	Newberry
niles	11	53	Niles
ninth district	10	9	Ninth district
nissan	103	38	Nissan
non-bulk	110	4	Commercial - general freight - non-bulk
non-collision	30	10	Other non-collision accident or unknown
non-collision	33	35	Vehicle involved in other non-collision
non-collision	35	2	Other non-collision accident or unknown
non-commercial	110	6	Non-commercial (private use: camper, mis
non-divided	22	3	Transition (from a divided to a non-divi
non-fixed	33	33	Vehicle hit non-fixed object or animal a
non-hazardous	44	3	Non-hazardous violation in accident
nonincapacitating	48	3	B - nonincapacitating injury
nonincapacitating	139	3	B - nonincapacitating injury
nonincapacitating	210	3	B - nonincapacitating injury
non-limited	19	1	On non-limited access roadway
non-motor	102	11	Other non-motor vehicle
non-motor	103	53	Other non-motor vehicle
north	18	1	Within 100 ft. NORTH of intersection
north	114	1	North
northeast	114	2	Northeast
northwest	114	8	Northwest
november	2	11	November
november	6	44	October 28 - November 3
nsc	36	*	NSC ACC CIRCUMSTANCE
nsc	105	*	NSC VEHICLE TYPE
nsc	207	*	OCCUPANT AGE NSC GRPS
oakland	12	63	Oakland
obscured	124	5	Obscured vision
obstruction	24	2	Obstruction (tree, barricade, etc.)
obstruction	123	*	VISUAL OBSTRUCTION
occupant	101	90	Parked vehicle with injured occupants
occupant	102	99	Parked vehicle with injured occupants
occupant	103	99	Parked vehicle with injured occupants
occupant	104	99	Parked vehicle with injured occupants
occupant	105	99	Parked vehicle with injured occupants
occupant	107	9	Parked motor vehicle with injured occupa
occupant	108	9	Parked motor vehicle with injured occupa
occupant	109	9	Parked motor vehicle with injured occupa
occupant	111	9	Parked motor vehicle with injured occupa
occupant	112	99	Parked motor vehicle with injured occupa
occupant	115	99	Parked motor vehicle with injured occupa
occupant	116	9	Parked motor vehicle with injured occupa
occupant	117	99	Parked motor vehicle with injured occupa
occupant	119	9	Parked motor vehicle with injured occupa
occupant	120	9	Parked vehicle with injured occupants
occupant	121	9	Parked motor vehicle with injured occupa
occupant	122	9	Parked motor vehicle with injured occupa
occupant	123	9	Parked motor vehicle with injured occupa
occupant	124	99	Parked motor vehicle with injured occupa
occupant	125	99	Parked motor vehicle with injured occupa
occupant	126	9	Parked motor vehicle with injured occupa
occupant	127	*	TU TOTAL OCCUPANTS
occupant	134	*	TOTAL OCC UNRESTRAINED
occupant	135	*	TOTAL OCC RESTRAINED
occupant	136	*	TOTAL OCC W UNK RES USE
occupant	137	9	Parked motor vehicle with injured occupa

MICHIGAN 1991 Index (continued)

Item	Var	CV	Variable Name or Code Value
occupant	138	9	Parked motor vehicle with injured occupa
occupant	148	99	Parked motor vehicle with injured occupa
occupant	150	9	Parked motor vehicle with injured occupa
occupant	151	9	Parked motor vehicle with injured occupa
occupant	201	*	OCCUPANT NUMBER
occupant	202	*	OCCUPANT LOCATION
occupant	203	*	OCCUPANT POSITION
occupant	204	*	OCCUPANT RESTRAINT USE
occupant	205	*	OCCUPANT HELMET USE
occupant	206	*	OCCUPANT AGE
occupant	207	*	OCCUPANT AGE NSC GRPS
occupant	208	*	OCCUPANT AGE 5YR GRPS
occupant	209	*	OCCUPANT SEX
occupant	210	*	OCCUPANT INJURY SEVERITY
occupied	128	0	Position not occupied
occupied	129	0	Position not occupied
occupied	130	0	Position not occupied
occupied	131	0	Position not occupied
occupied	132	0	Position not occupied
occupied	133	0	Position not occupied
oceana	12	64	Oceana
october	2	10	October
october	6	40	September 30 - October 6
off-road	103	61	Off-road recreational vehicle
off-trafficway	115	17	Other off-trafficway object
ogemaw	12	65	Ogemaw
ohio	151	3	Illinois, Indiana, Ohio, Wisconsin, Cana
oil	24	3	Loose material on surface (oil, sand, et
older	148	11	75 years old or older
older	207	11	75 years old or older
oldsmobile	103	12	Oldsmobile
ontonagon	12	66	Ontonagon
on-trafficway	115	16	Other on-trafficway object
osceola	12	67	Osceola
oscoda	12	68	Oscoda
otsego	12	69	Otsego
ottawa	12	70	Ottawa
overhead	115	18	Overhead fixed object
overtaking	36	3	Left of center, improper overtaking or 1
overtaking	112	2	Overtaking or passing
overtaking	125	6	Left of center, improper overtaking or 1
overturned	30	1	Motor vehicle overturned
overturned	33	34	Vehicle overturned at intersection
overturned	35	1	Motor vehicle overturned
owosso	11	15	Owosso
panel	104	7	Pickup or panel truck
park	18	61	Crossing - public driveway (roadside par
parked	30	3	Collision with a parked motor vehicle
parked	33	9	Moving vehicle hit parked vehicle at int
parked	35	6	Collision with parked vehicle
parked	101	90	Parked vehicle with injured occupants
parked	102	99	Parked vehicle with injured occupants
parked	103	99	Parked vehicle with injured occupants
parked	104	99	Parked vehicle with injured occupants
parked	105	99	Parked vehicle with injured occupants
parked	107	9	Parked motor vehicle with injured occupa
parked	108	9	Parked motor vehicle with injured occupa

MICHIGAN 1991 Index (continued)

Item	Var	CV	Variable Name or Code Value
parked	109	9	Parked motor vehicle with injured occupa
parked	111	9	Parked motor vehicle with injured occupa
parked	112	99	Parked motor vehicle with injured occupa
parked	115	99	Parked motor vehicle with injured occupa
parked	116	9	Parked motor vehicle with injured occupa
parked	117	99	Parked motor vehicle with injured occupa
parked	119	9	Parked motor vehicle with injured occupa
parked	120	9	Parked vehicle with injured occupants
parked	121	9	Parked motor vehicle with injured occupa
parked	122	9	Parked motor vehicle with injured occupa
parked	123	3	Physical obstruction at the scene (parke
parked	124	99	Parked motor vehicle with injured occupa
parked	125	99	Parked motor vehicle with injured occupa
parked	126	9	Parked motor vehicle with injured occupa
parked	137	9	Parked motor vehicle with injured occupa
parked	138	9	Parked motor vehicle with injured occupa
parked	148	99	Parked motor vehicle with injured occupa
parked	150	9	Parked motor vehicle with injured occupa
parked	151	9	Parked motor vehicle with injured occupa
parking	32	7	One straight and one entering parking or
parking	33	14	Two vehicles hit while one entering park
parking	112	9	Entering parking (along side of road)
passenger	102	1	Passenger car
passenger	104	1	Passenger car - under 1500 lbs.
passenger	105	1	Passenger car
passenger	134	0	0 passengers
passenger	135	0	0 passengers
passenger	136	0	0 passengers
passenger	138	*	PASSENGER HELMET USE
passenger	202	1	Driver of a passenger car, truck, bus, o
passenger	203	6	Pedalcycle passenger
passing	25	8	No passing zone
passing	37	4	Sideswipe - passing
passing	112	2	Overtaking or passing
paw paw	11	51	Paw Paw
pedalcycle	30	9	Collision with a pedalcycle
pedalcycle	35	8	Collision with pedalcycle
pedalcycle	102	10	Pedalcycle
pedalcycle	103	52	Pedalcycle
pedalcycle	202	4	On a pedalcycle
pedalcycle	203	6	Pedalcycle passenger
pedalcyclist	33	31	Vehicle hit railroad train or pedalcycli
pedalcyclist	39	6	Car - pedestrian, pedalcyclist
pedalcyclist	41	1	Pedestrian or pedalcyclist involved
pedalcyclist	113	0	Pedalcyclist
pedalcyclist	120	0	Driver known or pedestrian/pedalcyclist
pedalcyclist	203	0	Vehicle driver or pedestrian/pedalcyclis
pedestrian	30	5	Collision with a pedestrian
pedestrian	33	19	Vehicle going straight hit pedestrian at
pedestrian	35	3	Collision with pedestrian
pedestrian	36	9	Pedestrian error
pedestrian	39	6	Car - pedestrian, pedalcyclist
pedestrian	40	1	Drinking by a driver, pedestrian, cyclis
pedestrian	41	*	PED INVOLVED IN ACCIDENT
pedestrian	102	9	Pedestrian
pedestrian	103	51	Pedestrian
pedestrian	112	16	Avoiding pedestrian



MICHIGAN 1991 Index (continued)

Item	Var	CV	Variable Name or Code Value
pedestrian	113	*	PEDESTRIAN INTENT
pedestrian	120	0	Driver known or pedestrian/pedalcyclist
pedestrian	124	2	Reckless or careless driving (driver) or
pedestrian	127	1	1 occupant or pedestrian
pedestrian	147	*	DRIVER/PED AGE
pedestrian	148	*	DRIVER/PED AGE MSP GRPS
pedestrian	149	*	DRIVER/PED AGE 5YR GRPS
pedestrian	150	*	DRIVER/PED SEX
pedestrian	151	*	DRIVER/PED RESIDENCE
pedestrian	202	3	Pedestrian
pedestrian	203	0	Vehicle driver or pedestrian/pedalcyclis
peterbilt	103	29	Peterbilt
petoskey	11	78	Petoskey
physical	123	3	Physical obstruction at the scene (parke
physically	34	1	School bus physically involved
pickup	104	7	Pickup or panel truck
pier	115	7	Bridge pier or abutment
playing	113	9	Playing in the roadway
plymouth	103	13	Plymouth
pole	115	4	Street light, utility pole
police	11	*	STATE POLICE POST
police	34	8	Michigan State Police special study
police	42	1	State police
police	56	*	LEIN POLICE DEPT NUMBER
police	102	8	Other motor vehicle (ambulance, police e
police	103	48	Police equipment
police	112	13	Pursuing or being pursued (police)
police	126	*	POLICE ACTION
policeman	25	4	Traffic regulator (flagman, watchman, po
pontiac	11	27	Pontiac
pontiac	103	14	Pontiac
population	29	*	POPULATION
position	128	0	Position not occupied
position	129	0	Position not occupied
position	130	0	Position not occupied
position	131	0	Position not occupied
position	132	0	Position not occupied
position	133	0	Position not occupied
position	203	*	OCCUPANT POSITION
possibly	33	12	Moving vehicle hit parked vehicle - not
post	11	*	STATE POLICE POST
post	115	2	Guard rail, guard post
pound	104	1	Passenger car - under 1500 lbs.
preceding	34	10	None of the preceding
presque isle	12	71	Presque Isle
private	18	57	Crossing - private driveway
private	110	6	Non-commercial (private use: camper, mis
property	45	3	Property damage
public	18	61	Crossing - public driveway (roadside par
puncture	107	2	Puncture or blowout
pursued	112	13	Pursuing or being pursued (police)
pursuing	112	13	Pursuing or being pursued (police)
pursuit	34	6	Emergency or pursuit vehicle involved or
pushing	113	7	Working on or pushing a vehicle in the r
radioactive	34	7	Dangerous Cargo-explosive,radioactive,co
rail	115	2	Guard rail, guard post
rail	116	1	Rebounded from guard rail

MICHIGAN 1991 Index (continued)

Item	Var	CV	Variable Name or Code Value
railroad	18	59	Crossing - railroad grade crossing
railroad	25	5	Flasher (includes railroad flasher)
railroad	30	2	Collision with a railroad train
railroad	33	31	Vehicle hit railroad train or pedalcycli
railroad	35	7	Collision with railroad train
railroad	115	10	Highway or railroad signal
rain	123	4	Weather obstruction (heavy rain or snow,
raining	27	3	Raining
ramp	18	0	Within confines of intersection (within
ramp-related	18	23	Leave ramp or on crossroad - accident ra
rear	117	4	Right rear
rear	203	3	Rear left occupant
rear-end	32	1	Both straight - head-on, rear-end, broad
rear-end	33	2	Two vehicles hit while going straight in
rear-end	37	2	Rear-end
rear-end	38	3	Two-vehicle - rear-end
rebounded	116	1	Rebounded from guard rail
reckless	124	2	Reckless or careless driving (driver) or
recreational	103	61	Off-road recreational vehicle
reed city	11	62	Reed City
regulator	25	4	Traffic regulator (flagman, watchman, po
relation	33	41	Vehicle involved in other non-collision
reo	103	30	Reo
res	136	*	TOTAL OCC W UNK RES USE
residence	151	*	DRIVER/PED RESIDENCE
rest	18	47	Exit to rest area
restrained	135	*	TOTAL OCC RESTRAINED
restraint	128	*	LF RESTRAINT USAGE
restraint	129	*	CF RESTRAINT USAGE
restraint	130	*	RF RESTRAINT USAGE
restraint	131	*	LR RESTRAINT USAGE
restraint	132	*	CR RESTRAINT USAGE
restraint	133	*	RR RESTRAINT USAGE
restraint	204	*	OCCUPANT RESTRAINT USE
restriction	124	4	Failed to comply with license restrictio
result	122	*	DRINKING TEST RESULT
rf	130	*	RF RESTRAINT USAGE
right	18	75	Entering or leaving shoulder - right sid
right	32	4	One straight and one turning right
right	33	8	Two vehicles hit while going in opposite
right	112	4	Making right turn
right	117	2	Right front
right	203	2	Front right occupant
road	14	999	Local road or unknown
road	16	991	Major arterial local trafficway (not a s
road	18	21	Off ramp near main road
road	20	9	County road, city street, or unknown
road	22	*	ROAD ALIGNMENT
road	23	*	ROAD SURFACE
road	24	*	ROAD DEFECT
road	36	12	Road defect
road	104	9	Truck-tractor (semi) or road tractor
road	112	7	Slowing or stopping on road
roads	18	22	Off ramp between roads (on the ramp)
roadside	18	61	Crossing - public driveway (roadside par
roadway	18	41	Exit - leave main roadway
roadway	19	1	On non-limited access roadway

MICHIGAN 1991 Index (continued)

Item	Var	CV	Variable Name or Code Value
roadway	113	4	Walking in the roadway with the traffic
roadways	18	42	Exit - on ramp between roadways
rockford	11	61	Rockford
rollover	117	10	Rollover
romeo	11	22	Romeo
roscommon	12	72	Roscommon
route	14	*	ROUTE THROUGH COUNTY
route	20	1	Interstate route
route	21	1	Interstate route
rr	133	*	RR RESTRAINT USAGE
run	116	8	Hit and run
run	120	*	HIT AND RUN DRIVER
run	147	99	Hit and run driver, driverless vehicle,
rut	24	4	Holes, ruts, bumps
saginaw	12	73	Saginaw
sand	24	3	Loose material on surface (oil, sand, et
sandusky	11	34	Sandusky
sanilac	12	76	Sanilac
saturday	8	7	Saturday
saturday	9	144	12:00 a.m. Saturday - 12:59 a.m. Saturda
saugatuck (team)	11	59	Saugatuck (team)
sault ste. marie	11	93	Sault Ste. Marie
scale	18	51	Within scale area
scales	18	50	Exit to scales
scene	43	*	INVESTIGATED AT SCENE
scene	123	3	Physical obstruction at the scene (parke
school	18	60	Crossing - school or church driveway
school	25	7	School speed zone - with light or flashe
school	34	1	School bus physically involved
school	102	4	School bus
school	103	42	School bus
school	105	8	School bus
schoolcraft	12	77	Schoolcraft
scooter	102	3	Motorcycle, motor scooter, moped, etc.
scooter	103	41	Motorcycle, motor scooter, etc.
scooter	105	9	Motorcycle, motor scooter, moped, etc.
scooter	203	7	Motorcycle, motor scooter or motor bike
second district	10	2	Second district
self	103	64	Motor Home/Other Self Contained
semi	104	9	Truck-tractor (semi) or road tractor
semi-trailer	105	4	Truck or truck-tractor and semi-trailer
september	2	9	September
september	6	35	August 26 - September 1
sequence	1	*	CASE SEQUENCE NUMBER
service	20	8	Service drive
service	21	9	Service drive, local trafficway, or unkn
seventh district	10	7	Seventh district
severity	45	*	SEVERITY OF ACCIDENT
severity	118	*	VEHICLE DAMAGE SEVERITY
severity	210	*	OCCUPANT INJURY SEVERITY
sex	150	*	DRIVER/PED SEX
sex	209	*	OCCUPANT SEX
sharp	25	9	Other warning sign (no turn, sharp curve
sheriff	42	2	County sheriff
shiawassee	12	78	Shiawassee
shifting	124	7	Lost control due to shifting load, wind
shoulder	18	75	Entering or leaving shoulder - right sid

MICHIGAN 1991 Index (continued)

Item	Var	CV	Variable Name or Code Value
shoulder	24	5	Low or soft shoulder
shrubbery	123	3	Physical obstruction at the scene (parke
sideswipe	32	2	Both straight - sideswipe
sideswipe	33	2	Two vehicles hit while going straight in
sideswipe	37	3	Sideswipe - meeting
sideswipe	38	4	Two-vehicle - sideswipe
sign	25	2	Stop sign
sign	115	3	Highway sign
signal	25	3	Stop and go signal
signal	36	5	Improper turn, improper or no signal
signal	115	10	Highway or railroad signal
signal	125	7	Improper turn, improper or no signal
single	39	1	Single traffic unit
single	109	3	Single bottom truck combination
single-vehicle	38	1	Single-vehicle accident
situation	116	*	SITUATION
sixth district	10	6	Sixth district
skidding	33	23	Vehicle starting up, entering or leaving
skidding	124	9	Skidding
slippery	24	8	Slippery when wet
slot	18	78	Left turn flare (slot)
slow	125	3	Speed too slow
slowing	112	7	Slowing or stopping on road
smoke	123	4	Weather obstruction (heavy rain or snow,
snow	24	6	Drifting snow
snow	123	4	Weather obstruction (heavy rain or snow,
snowing	27	4	Snowing
snowmobile	102	8	Other motor vehicle (ambulance, police e
snowmobile	103	49	Snowmobile
snowy	23	3	Snowy or icy
soft	24	5	Low or soft shoulder
south	18	5	Within 100 ft. SOUTH of intersection
south	114	5	South
south haven	11	55	South Haven
southeast	114	4	Southeast
southwest	114	6	Southwest
special	34	*	SPECIAL ACCIDENT TAG
speed	25	7	School speed zone - with light or flashe
speed	36	1	Speed too fast
speed	125	2	Speed too fast
spill	111	2	Truck cargo did not spill
spillage	111	*	TRUCK CARGO SPILLAGE
spilled	111	1	Truck cargo spilled
spur	20	4	Interstate business loop or spur
st. clair	11	23	St. Clair
st. clair	12	74	St. Clair
st. ignace	11	83	St. Ignace
st. joseph	12	75	St. Joseph
stake	104	8	Stake or dump truck, step van, motor hom
standing	113	6	Standing or lying in the roadway
star	103	39	Western Star
start	125	8	Improper backing, unsafe start
state	11	*	STATE POLICE POST
state	16	991	Major arterial local trafficway (not a s
state	21	5	Other major arterial state trunkline (bu
state	34	8	Michigan State Police special study
state	42	1	State police

MICHIGAN 1991 Index (continued)

Item	Var	CV	Variable Name or Code Value
stated	36	13	Other or not stated
stated	37	8	Not stated
stated	110	8	Unknown or not stated
station	104	5	Station wagon, carryall, etc
steering	107	3	Other defective equipment (brakes, light
step	104	8	Stake or dump truck, step van, motor hom
stephenson	11	89	Stephenson
stop	25	2	Stop sign
stop	34	3	School bus not involved, but influenced
stop	36	4	Followed too closely, unable to stop
stop	125	9	Followed too closely, unable to stop
straight	22	1	Straight
straight	32	1	Both straight - head-on, rear-end, broad
straight	33	1	Two vehicles hit at angle at intersectio
straight	112	1	Going straight ahead
stream	115	6	Ditch, embankment, stream
street	16	993	City street that is not major arterial
street	18	98	Street or road intersection on a ramp
street	20	9	County road, city street, or unknown
street	28	3	Darkness with street lights
street	115	4	Street light, utility pole
street	124	2	Reckless or careless driving (driver) or
study	34	8	Michigan State Police special study
subscript	21	*	HIGHWAY CLASS SUBSCRIPT
subscript	33	*	ACC ANALYSIS SUBSCRIPT
subscript	35	*	ACCIDENT TYPE SUBSCRIPT
subscript	37	*	TWO VEH ACC SUBSCRIPT
sun	123	5	Glare obstruction (sun, headlights, etc.
sunday	8	1	Sunday
sunday	9	0	12:00 a.m. Sunday - 12:59 a.m. Sunday
surface	23	*	ROAD SURFACE
surface	24	3	Loose material on surface (oil, sand, et
tad	118	3	TAD 3
taken	121	1	Had taken alcohol or drugs
tekonsha	11	43	Tekonsha
test	122	*	DRINKING TEST RESULT
tested	122	1	Not tested
third district	10	3	Third district
thursday	8	5	Thursday
thursday	9	96	12:00 a.m. Thursday - 12:59 a.m. Thursda
time	5	*	TIME OF DAY
tire	36	10	Defective tires
towed	108	*	VEHICLE DRIVEN/TOWED
towed	109	7	Towed vehicle
township	13	*	CITY OR TOWNSHIP
township	29	1	Township
township	42	3	Township police
toyota	103	73	Toyota
tractor	104	9	Truck-tractor (semi) or road tractor
tractor	105	6	Farm tractor and/or farm equipment
traffic	25	*	TRAFFIC CONTROL
traffic	32	9	One straight and one starting/stopping i
traffic	34	9	Traffic engineering needed
traffic	36	2	Failed to yield, disregarded traffic con
traffic	38	6	Vehicle to vehicle - more than two traff
traffic	39	*	TRAFFIC UNIT MIX
traffic	46	*	TOTAL TRAFFIC UNITS

MICHIGAN 1991 Index (continued)

Item	Var	CV	Variable Name or Code Value
traffic	101	*	TRAFFIC UNIT NUMBER
traffic	102	*	TRAFFIC UNIT TYPE
traffic	113	4	Walking in the roadway with the traffic
traffic	115	14	Traffic island or curb
traffic	125	4	Failed to yield, disregarded traffic con
traffic-unit	127	*	TU TOTAL OCCUPANTS
traffic-unit	139	*	TU WORST INJURY
traffic-unit	140	*	TU TOTAL KILLED
traffic-unit	141	*	TU TOTAL A INJURED
traffic-unit	142	*	TU TOTAL B INJURED
traffic-unit	143	*	TU TOTAL C INJURED
traffic-unit	144	*	TU TOTAL INJURED
traffic-unit	145	*	TU TOTAL CASUALTIES
traffic-unit	146	*	TU TOTAL UNINJURED
trafficway	16	991	Major arterial local trafficway (not a s
trafficway	21	9	Service drive, local trafficway, or unkn
trailer	105	2	Passenger car and trailer
trailer	109	*	TRAILER TYPE
train	30	2	Collision with a railroad train
train	33	31	Vehicle hit railroad train or pedalcycli
train	35	7	Collision with railroad train
transition	22	3	Transition (from a divided to a non-divi
travel	114	*	DIRECTION OF TRAVEL
traverse city	11	71	Traverse City
tree	24	2	Obstruction (tree, barricade, etc.)
tree	115	9	Tree
tree	123	3	Physical obstruction at the scene (parke
truck	39	3	Car - truck
truck	102	2	Truck
truck	103	40	Other truck
truck	104	7	Pickup or panel truck
truck	105	3	Truck or truck-tractor
truck	109	3	Single bottom truck combination
truck	110	*	TRUCK CARGO TYPE
truck	111	*	TRUCK CARGO SPILLAGE
truck	202	1	Driver of a passenger car, truck, bus, o
truck-tractor	104	9	Truck-tractor (semi) or road tractor
truck-tractor	105	3	Truck or truck-tractor
trunkline	18	85	Turn channel at trunkline
trunkline	21	5	Other major arterial state trunkline (bu
tuesday	8	3	Tuesday
tuesday	9	48	12:00 a.m. Tuesday - 12:59 a.m. Tuesday
turn	18	78	Left turn flare (slot)
turn	25	9	Other warning sign (no turn, sharp curve
turn	36	5	Improper turn, improper or no signal
turn	112	4	Making right turn
turn	125	7	Improper turn, improper or no signal
tuscola	12	79	Tuscola
two-vehicle	38	2	Two-vehicle - head-on
type	17	*	HIGHWAY AREA TYPE
type	30	*	ACCIDENT TYPE
type	35	*	ACCIDENT TYPE SUBSCRIPT
type	38	7	Single-vehicle accident type - two or mo
type	102	*	TRAFFIC UNIT TYPE
type	104	*	VEHICLE TYPE
type	105	*	NSC VEHICLE TYPE
type	109	*	TRAILER TYPE

MICHIGAN 1991 Index (continued)

Item	Var	CV	Variable Name or Code Value
type	110	*	TRUCK CARGO TYPE
type	113	8	Other types of working in the roadway
umtri	202	8	Driver record generated by UMTRI from ve
unable	36	4	Followed too closely, unable to stop
unable	125	9	Followed too closely, unable to stop
unapprehended	120	1	Unapprehended hit and run driver
unclassifiable	38	8	Two-vehicle collision - unclassifiable
uninjured	55	*	TOTAL UNINJURED IN ACC
uninjured	146	*	TU TOTAL UNINJURED
unrestrained	134	*	TOTAL OCC UNRESTRAINED
unsafe	125	8	Improper backing, unsafe start
usage	36	3	Left of center, improper overtaking or 1
usage	125	6	Left of center, improper overtaking or 1
usage	128	*	LF RESTRAINT USAGE
usage	129	*	CF RESTRAINT USAGE
usage	130	*	RF RESTRAINT USAGE
usage	131	*	LR RESTRAINT USAGE
usage	132	*	CR RESTRAINT USAGE
usage	133	*	RR RESTRAINT USAGE
utility	109	2	Utility trailer
utility	115	4	Street light, utility pole
vacuum	124	7	Lost control due to shifting load, wind
van	104	8	Stake or dump truck, step van, motor hom
van buren	12	80	Van Buren
village	42	4	City or village police
vin	152	*	VIN
violation	44	1	Hazardous violation in accident
violation	125	1	No violation
violation	126	2	Cited for hazardous violation
vision	124	5	Obscured vision
visual	123	*	VISUAL OBSTRUCTION
volkswagen	103	15	Volkswagen
wagon	104	5	Station wagon, carryall, etc
wakefield	11	87	Wakefield
walking	113	4	Walking in the roadway with the traffic
warning	25	9	Other warning sign (no turn, sharp curve
warren	11	24	Warren
washtenaw	12	81	Washtenaw
watchman	25	4	Traffic regulator (flagman, watchman, po
way	125	5	Wrong way
wayland	11	56	Wayland
wayne	12	82	Wayne
weather	27	*	WEATHER
weather	123	4	Weather obstruction (heavy rain or snow,
wednesday	8	4	Wednesday
wednesday	9	72	12:00 a.m. Wednesday - 12:59 a.m. Wednes
week	6	*	WEEK OF YEAR
week	8	*	DAY OF WEEK
week	9	*	HOUR OF WEEK
west	18	7	Within 100 ft. WESTof intersection or
west	114	7	West
west branch	11	36	West Branch
western	103	39	Western Star
wet	23	2	Wet
wet	24	8	Slippery when wet
wexford	12	83	Wexford
white	103	31	White

MICHIGAN 1991 Index (continued)

Item	Var	CV	Variable Name or Code Value
white pigeon	11	52	White Pigeon
wind	124	7	Lost control due to shifting load, wind
wisconsin	151	3	Illinois, Indiana, Ohio, Wisconsin, Cana
working	113	7	Working on or pushing a vehicle in the r
worst	48	*	WORST INJURY IN ACC
worst	139	*	TU WORST INJURY
wrong	125	5	Wrong way
year	4	*	ACCIDENT YEAR
year	6	*	WEEK OF YEAR
year	106	*	YEAR MANUFACTURED
year	147	0	Less than 1 year old
year	148	1	15 years old or younger
year	149	1	00 - 04 years old
year	206	98	98 years old
year	207	1	00 - 04 years old
year	208	1	00 - 04 years old
yield	25	6	Yield sign
yield	36	2	Failed to yield, disregarded traffic con
yield	125	4	Failed to yield, disregarded traffic con
younger	148	1	15 years old or younger
ypsilanti	11	26	Ypsilanti
zone	25	7	School speed zone - with light or flashe
zone	26	*	CONSTRUCTION ZONE



