

Appendix C

Codebook for the Database of Induced-Exposure Crash Involvements

(Crashes from 13 State files, with national weights)

Observations: 2,255,398

Variables: 46

Alphabetic List of Variables

- ABS – Antilock brake system (4-wheel)** Type: Numeric8
- 0 Not ABS-equipped
 - .01-.99 proportion of vehicles with ABS (optional but cannot be identified for an individual vehicle from the 1st 12 digits of its VIN)
 - 1 ABS-equipped
- AWD – All-wheel-drive or 4-wheel-drive** Type: Numeric8
- 0 FWD or RWD – i.e., not equipped with AWD or 4-wheel-drive
 - .01-.99 proportion of vehicles with AWD or 4-wheel-drive (optional but cannot be identified from 1st 12 digits of VIN)
 - 1 equipped with AWD or 4-wheel-drive
- BLOCKER – Voluntary vehicle-to-vehicle compatibility certification** Type: Numeric8
- 0 Not certified (or not a pickup truck or SUV)
 - 1 Certified, Option 1 (bumper height overlap with passenger cars)
 - 2 Certified, Option 2 (“blocker beam” or other secondary energy-absorbing structure)
- BOD2 – Passenger car body type** Type: Numeric8
- 0 Not a passenger car
 - 1 2-door convertible
 - 2 2-door coupe or sedan
 - 3 3-door hatchback
 - 4 4-door sedan
 - 5 5-door hatchback
 - 6 Station wagon
- CG – Car group** Type: Numeric8
- 1306-65001 Download 10Formats2011.sas, CarGroup2011.docx, or LTVGroup2011.docx for valid codes
- CGP – Car group codes for merging with IHS Automotive data** Type: Numeric8
- 1306-65001 Download 10Formats2011.sas, CarGroup2011.docx, or LTVGroup2011.docx for valid codes

COMBO – Side air bag with torso/head protection (“combination” bag) Type: Numeric8
 0 Not equipped with combo bags
 .01-.99 proportion of vehicles with combo bags (optional but cannot be identified from 1st 12 digits of VIN)
 .75 Combo bag for driver only
 1 Combo bags for driver and RF passenger (Note: a combo bag is a single bag that protects the head and torso; separate curtains and torso bags are coded CURTAIN=1, TORSO=1, COMBO=0)

CURBWT – Curb weight (pounds) Type: Numeric8
 1787 – 7710 Curb weight in pounds

CURTAIN – Head curtain air bags for front-seat occupants Type: Numeric8
 0 Not equipped with head curtain bags
 .01-.99 proportion of vehicles with curtain bags (optional but cannot be identified from 1st 12 digits of VIN)
 1 Head curtains for driver and RF passenger

CY – Calendar year Type: Numeric8
 2005 – 2011 Calendar year in which the crash occurred

DRVAGE – Driver age Type: Numeric8
 14 – 96 Age of the driver (unknown or out-of-range excluded)

DRVMALE – Male driver Type: Numeric8
 0 Female driver
 1 Male driver (non-reported gender excluded)

DUMMY – “Dummy” induced-exposure case Type: Numeric8
 0 Original induced-exposure case, same MY and CY as the case vehicle
 1 No original case available, used a case of the same make-model and MY, but different CY
 2 No original case available, used a case of the same make-model, but different MY and CY

ESC – Electronic stability control Type: Numeric8
 0 Not ESC-equipped
 .01-.99 proportion of vehicles with ESC (optional but cannot be identified for an individual vehicle from the 1st 12 digits of its VIN)
 1 ESC-equipped

FOOTPRNT – Footprint (square feet) Type: Numeric8
 26.8 – 80.9 Footprint in square feet (TRAKWIDTH X WB_MIN converted to square feet)

GE10 – GVWR \geq 10,000 pounds Type: Numeric8
 0 GVWR (gross vehicle weight rating) < 10,000 pounds
 1 GVWR \geq 10,000 pounds

HIFAT_ST – High-fatality-rate State Type: Numeric8
 0 One of the 26 States with < 160 crash fatalities per million vehicle registration
 years in 2005-2011
 1 One of the 24 States with > 160 crash fatalities per million vehicle registration
 years in 2005-2011

MAK2 – Vehicle Make Type: Numeric8
 2 Jeep
 3 Hummer
 6 Chrysler
 7 Dodge
 11 Sprinter
 12 Ford
 13 Lincoln
 14 Mercury
 18 Buick
 19 Cadillac
 20 Chevrolet
 21 Oldsmobile
 22 Pontiac
 23 GMC
 24 Saturn
 30 Volkswagen
 32 Audi
 33 Mini-Cooper
 34 BMW
 35 Nissan
 37 Honda
 38 Isuzu
 39 Jaguar
 41 Mazda
 42 Mercedes-Benz
 45 Porsche
 47 Saab
 48 Subaru
 49 Toyota (including Scion)
 51 Volvo
 52 Mitsubishi
 53 Suzuki
 54 Acura
 55 Hyundai
 58 Infiniti

59	Lexus
62	Land-Rover
63	Kia
65	Smart

MM2 – Make-model Type: Numeric8
 2001-65031 Download 10Formats2011.sas, CarGroup2011.docx, or LTVGroup2011.docx
 for valid codes

MMP – Make-model codes for merging with IHS Automotive data Type: Numeric8
 2001-65031 Download 10Formats2011.sas, CarGroup2011.docx, or LTVGroup2011.docx
 for valid codes

MY – Model year Type: Numeric8
 2003 – 2010 Model year of the case vehicle

NITE – Time of day when the crash occurred Type: Numeric8
 0 6:00 a.m. to 6:59 p.m.
 .01-.99 In 2002-2006 Alabama data, estimated probability that the crash occurred from
 7:00 p.m. to 5:59 a.m., depending on light condition and month (as inferred
 from case number)
 1 7:00 p.m. to 5:59 a.m.

PASSIVE – Frontal air bags Type: Numeric8
 0 Not equipped with frontal air bags
 2 Dual frontal air bags
 3 Dual frontal air bags with a manual on-off switch for the RF passenger
 9 Unknown if equipped and/or what type

RDSUR – Road surface condition Type: Numeric8
 0 Dry
 1 Wet, muddy, or oily
 2 Snow, ice, or slush
 9 Unknown

REGWTFA – Registration-year weight factor Type: Numeric8
 0 – 18292 Weight factor; share of the nation’s vehicle registration years allocated to this
 induced-exposure case

ROLLCURT – Head curtain air bags designed to deploy in rollovers Type: Numeric8
 0 Not equipped with rollover curtain bags
 .01-.99 proportion of vehicles with rollover curtain bags (optional but cannot be
 identified from 1st 12 digits of VIN)
 1 Rollover curtains for driver and RF passenger (Note: CURTAIN should also be
 coded 1)

RURAL – County population density	Type: Numeric8
0	Crash occurred in a county with ≥ 250 inhabitants per square mile in the 2000 census
1	Crash occurred in a county with < 250 inhabitants per square mile
SPDLIM55 – Speed limit 55+	Type: Numeric8
0	Speed limit < 55 mph or not reported, for all roadways involved in the crash
1	Speed limit ≥ 55 mph for at least one roadway involved in the crash
SQUADCAR – Police model	Type: Numeric8
0	Not a Ford Crown Victoria or Chevrolet Impala “police” model and not a 2004-2005 Chevrolet Impala SS
1	Ford Crown Victoria or Chevrolet Impala “police” model or 2004-2005 Chevrolet Impala SS
STATE – State where the crash occurred	Type: Numeric8
1	Alabama
12	Florida
20	Kansas
21	Kentucky
24	Maryland
26	Michigan
29	Missouri
34	New Jersey
42	Pennsylvania
53	Washington State
55	Wisconsin
56	Wyoming
TORSO – Side air bag with torso protection	Type: Numeric8
0	Not equipped with torso bags
.01-.99	proportion of vehicles with torso bags (optional but cannot be identified from 1 st 12 digits of VIN)
.25	Torso bag for RF passenger only
1	Torso bags for driver and RF passenger
TRAKWDTH – Track width (inches, average of front and rear wheels)	Type: Numeric8
45.2 – 72.65	Average of front and rear track width, in inches
V1 – 1 st character of the VIN	Type: Character1
V2 – 2 nd character of the VIN	Type: Character1
V3 – 3 rd character of the VIN	Type: Character1
V4 – 4 th character of the VIN	Type: Character1
V5 – 5 th character of the VIN	Type: Character1
V6 – 6 th character of the VIN	Type: Character1
V7 – 7 th character of the VIN	Type: Character1

V8 – 8 th character of the VIN	Type: Character1
V11 – 11 th character of the VIN	Type: Character1
V12 – 12 th character of the VIN	Type: Character1
VEHAGE – Vehicle age in years (CY – MY) 0 – 8 Age of the case vehicle (years)	Type: Numeric8
VMTWTFA – VMT weight factor 103 – 265,082,805 Weight factor; share of the nation’s VMT allocated to this induced-exposure case	Type: Numeric8
VTYP – Case vehicle type	Type: Numeric8
1 Passenger car, 2 doors	
2 Passenger car, 4 doors	
3 Pickup truck, light duty (compact or 150-series)	
4 Pickup truck, heavy duty (250- or 350-series)	
5 SUV, truck-based	
6 CUV (crossover SUV)	
7 Minivan, except Chevrolet Astro or GMC Safari	
7.1 Chevrolet Astro or GMC Safari	
8 Full-sized van	
WHEELB – Wheelbase (inches) 73.0 – 170.3 Wheelbase (and if this is a pickup truck, wheelbase for the shortest bed available for this 12-character VIN)	Type: Numeric8