SAS® Programs and Databases for Evaluation of ESC

NHTSA's public ftp site, ftp://ftp.nhtsa.dot.gov/CURTAIN, contains SAS programs and databases needed to perform the contingency-table analyses in the report, *Updated Estimates of Fatality Reduction by Electronic Stability Control* (Report No. DOT HS 812 020, May 2014), available at www-nrd.nhtsa.dot.gov/Pubs/812020.pdf. The programs, among others, include VIN-decode programs, through model year 2011, as developed by NHTSA's Evaluation Division, which assign a 5-digit make-model code and a 5-digit "car group" code to cars (MY 1981 to 2011) and LTVs (MY 1985 to 2011).

The main SAS program is new_escmodel3.sas. This program identifies: (1) By make, model, and model year, the cars and LTVs with ESC as standard equipment or available as an option; (2) The specific make-models and model-year ranges included in the analyses of the report; (3) The more limited group of make-models and model-year ranges where ESC was added without any change in rollover curtains; and (4) Definitions of the control group and other groups of crash involvements. It then generates the contingency tables.

To run new_escmodel3.sas, you will need FARS data in SAS format for 1994 to 2011, plus the SAS database FARS_A11. You can create FARS_A11 by running, in the following sequence, these programs that you can download from the ftp site: vin110, vin111, 02CarUS2011, 03CarImp2011, 04LTVJcf2011, 05LTVGM2011, 06LTVImp2011, 07CarBody2011, 08CarPassive2011, 09LTVPassive, vin112.

The pdf files "CarGroup2011" and "LTVGroup2011" define the 5-digit make-model codes and 5-digit "car group" codes used in all the other programs. The pdf file "esc1998-2011" lists, by make, model, and model year, the cars and LTVs with ESC as standard equipment or available as an option

Note: the contingency tables you will generate by running new_escmodel3.sas might not exactly match those in the report, because some FARS files might have been updated after the report was completed.