

SAS® Programs and Databases for Evaluation of Curtain and Side Air Bags, Rollover Curtains

NHTSA's public ftp site, <ftp://ftp.nhtsa.dot.gov/CURTAIN>, contains SAS programs and databases needed to replicate the two principal logistic regression analyses in the report, *Updated Estimates of Fatality Reduction by Curtain and Side Air Bags in Side Impacts and Preliminary Analyses of Rollover Curtains* (Report No. DOT HS 811 882, January 2014), available at <http://www-nrd.nhtsa.dot.gov/Pubs/811882.pdf>.

The two main SAS programs are `nearside_logist.sas` (effectiveness of curtain and side air bags in nearside impacts) and `rollcurt_logist.sas` (effectiveness of rollover curtains in first-event rollovers).

To run `nearside_logist.sas`, you will need FARS data in SAS format for 1993 to 2011, plus the SAS databases `FARS_A11`, `POPDENS`, `CURBWT2`, `WT03PC`, and `WT03LT`. You can download the last four from the ftp site. 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`.

When you run `nearside_logist.sas`, you will need to stop in the middle (as shown in the comment cards) and then run, in the following sequence, these programs that you can download from the ftp site: `Digit41`, `2CarUS2000`, `3CarImp2000`, `4ltv.jcf.model2000`, `5LTV.GM.model2000`, `6LTVIMP.model2000`, `7Car.Bodystyle2000`, `8Car.Passive2000`, `8LTV.Passive2000`. After running these programs, you may proceed with the remainder of `nearside_logist.sas`.

To run `rollcurt_logist.sas`, you will need FARS data in SAS format for 1999 to 2011, plus the SAS databases `FARS_A11`, `POPDENS`, and `CURBWT2`. You have already created or downloaded these if you ran `nearside_logist.sas` (see above). `Rollcurt_logist.sas` runs straight through and does not need to be stopped in the middle like `nearside_logist.sas`.

Note: the estimates of curb weight and footprint for vehicles newer than MY 2007 or older than MY 2000 are not necessarily exact – e.g., they may be carryovers from a preceding or subsequent model year.