

EGAS Version 5.0 Beta – Information about Regression Analysis

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The EGAS 5.0 website includes a Regression Analysis Memo written by Pechan and Associates. This memo describes the methodology used to develop emission activity growth equations for EGAS 5.0. Many of the regressions are used, however not all. To determine which MACT codes and SCCs regressions are used for, please look at the MACT crosswalk memo and the SCC crosswalk memo. These memos inform the user of which growth factors rely on regression analysis.

To look at the format of the regressions used to generate emission growth factors for select MACT codes and SCCs, users can go to: C:\Program Files\Abt Associates Inc\EGAS 5.0 Beta\Data\Datasets. From here, the user can select to look at the data set of interest (REMI EGAS 5 or DOE EGAS 5). For example, if the user is interested in looking at the regressions used to generate growth factors for fuel combustion/production sectors, she would select DOE EGAS 5. From here, the user would click on DOE.mdb (a Microsoft Access Database file). This will take you to a list of the tables. To look at the regressions used for select MACT codes, click on MACT Functions. Similarly, to look at the regressions used for select SCCs, click on SCC functions. These tables list the regressions used to generate emission growth factors.

This same logic applies to looking at the regressions used to generate select growth factors for non-fuel combustion/production sectors in REMI EGAS 5.

Note: a majority of the growth factors generated by EGAS 5.0 do not rely upon regression analysis. Only when data are available or there is some indication that the default growth factor would be abnormally large are regressions used.