



## SAS PROGRAMS FOR CDS

These four SAS programs enable SAS users to import and format the CDS data download, as well as produce reports similar to the [CDS Almanacs](#).

### *How to Use These SAS Files*

Before running any of these programs, [download](#) CDS data for the peer group of interest. Then, extract the contents of the .zip file so that they are accessible to SAS. If you plan to run the almanac programs, data from modules 1- 7 and 10 will be analyzed. If you do not have access to data from these modules or do not download it, the programs will still run, but some warnings may appear in the log window or some values may be missing from the output. Data from additional modules can be included without affecting the almanac programs.

### *Import Data into SAS*

Open CDS\_import.sas in a program editor window in SAS. It expects to find a file called 'Core\_data.csv' in the current directory. If not, you may need to change the file location in the FILENAME statement.

Run the FILENAME statement and the PROC IMPORT at the beginning of the program. If the log window reports an error that says the number of variable names is different than the number of variables, then follow the instructions in the program to remedy this.

Once you have successfully created the data set called CDS in your WORK library, run the rest of the program. The program creates formats and labels for most of the variables in the data set and creates additional variables that are used in the almanac programs.

### *Further Analyses in SAS*

The CDS data set is now available for any analysis you want to conduct in SAS. You can use PROC CONTENTS to see the contents of the data set, though the output may be lengthy.

If you wish to run either of the almanac programs, make sure the CDS data set is in the WORK library. Then run the program. Each program produces a file in rtf format that will open when the program is done running. You may need to download and install SAS(r) Remote Browser Server for the report to open.

CDS\_macros.sas does not need to be run by itself and does not produce any meaningful output of its own. It is called from within CDS\_almanac\_summary.sas. CDS\_almanac\_summary.sas assumes that CDS\_macros.sas is in the current directory. If not, you may need to change the file location in the %inc statement in CDS\_almanac\_summary.sas.

CDS\_almanac\_summary.sas will produce the same content as in the published almanacs for the peer group you downloaded. The output contains several tables. The column labeled “Peers” is either a median or percentage for the peer group. The column labeled “n” indicates the number of institutions in the peer group that had a non-missing value for each almanac item. Because this program produces summary statistics, it may not be meaningful for very small peer groups.

CDS\_almanac\_peers.sas will produce the individual (institutional) values for the variables used to produce the summary statistics in the almanac. The output contains several tables. Because this program prints out individual values for each variable, it may not be useful for peer groups larger than ten institutions.

*If you have questions about the CDS SAS programs, please contact [coredata@educause.edu](mailto:coredata@educause.edu).*