



EGU Forecasting Tool Setup

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Background

Hardware Requirements

A 64-bit computer running at least 4 GB of RAM
Recommend a hard drive that is at least 1 TB

Software Requirements

Windows with Python libraries version 2.6 or 2.7 series installed, which should include SQLite 3.6 or 3.7 series

Background

ERTAC Model Files

ertac_reports.py

ertac_lib.py

ertac_tables.py

ertac_postprocess.py

ertac_preprocess.py

ertac_projection.py

counties.csv

states.csv

-These are the executable files as well as base county and state data

Tool Setup

- Download and install Python libraries
- Create a directory for your executables(tool) as well as county and state files
- Download copies of the latest version of the input files, i.e. CONUS1.65
- Create a second directory for your input files as well as an output directory if desired
- File names are important and must contain certain information for the model to read them correctly
- The model runs in two steps, preprocess and projection

Tool Setup

- The preprocess is to be used to screen the input files for potential issues
- Log file from the preprocess can be lengthy and some warnings may be ignored
- The projection portion of the model is the second step and will yield results that should be reviewed extensively
- Run times will depend on your system (6 hours for the preprocessor and 16 hours for the projection module)
 - These run times are on a Intel Quad Core Q9400 @ 2.66GHz with 8 GB installed RAM and 64-bit operating system using Windows 7 Professional and a 1 TB hard drive
- Typical CONUS run creates about 5 or 6 GB in output files after the projection portion

Tool Execution

- Open a command line prompt (go to the start button and type “cmd” in the search window)
- Navigate to the directory that contains the input files
- Example command:
`c:\egu-code\ertac_preprocess.py -i CONUS165_ -o CONUS165pre_`
- Review the log file for possible issues and refer to the user’s guide and documentation e-mails for information
- If the input files require editing open them in Excel and make changes and save as CSV files (beware of leading zeros in unit ID fields)

Tool Execution

- Run the projection module
 - Reads files created by the preprocessor
- Example command:
`c:\egu-code\ertac_projection.py -i CONUS165pre_ -o CONUS165proj_`
- Review log and output files

Questions

- For additional information, please contact John Welch at jwelch@idem.IN.gov or (317) 233-2637