**Mia Mac**

**Read Me File**

**ECON 398**

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1. **The Contents of the Replication Documentation**

There are four main subfolders in the folder Mac-398-Project - Original\_Data, Analysis\_Data, Command\_Files, and Documents – the pdf version of the final paper, and the pdf version of the Read Me File

* **Original\_Data**
* Include 2 original datasets as excel files: PastrCropbyState.xlsx (dataset on organic farming in United States) and climatewatch-usemissions.xlsx (dataset on greenhouse gas emission in United States)
* Include 2 importable datasets of the original datasets: PastrCropbyState\_importable.xlsx and climatewatch-usemissions\_importable.xlsx.
* Include a base data file – base\_file.dta – which can be used to generate the data
* Include a subfolder for Metadata Guide which is the guide to import the two original datasets
* **Analysis\_Data**
* Include the analyst dataset: analyst.dta
* **Command\_Files**
* Included 3 do.files and 3 log.filed
* 3 do.files: processing.do, construction.do, analysis.do
* processing.do: import and clean the two importable datasets and merge in to base\_file.dta
* construction.do: further cleaning for base\_file.dta and create a new variable.
* analysis.do: run three different model specifications – pooled OLS and fixed effect models – to investigate the relationship of total organic farming and total greenhouse gas emission.
* 3 log.files: processing.log, construction.log, analysis.log
* **Documents**
* Include the Final Paper and Read Me File

1. **Modifications Made to Importable Data Files**

* Clean each original excel file
* climatewatch-usemissions.xlsx
* Delete 1-3 rows, remove the logo image and rename as climatewatch-usemissions\_importable.xlsx
* PastrCropbyState.xlsx
* Delete sheet pastcrop97, pastcrop11, pastcrop10
* Delete the first row and row 58-59
* Delete row 2-7
* Change Number of certified operations to certified\_operations
* Change Crops to crops
* Change Pasture & Rangeland to pasture\_rangeland
* Change Total to total\_organic\_arces
* Fill "state" in A1
* Repeat step 2 to 8 for the rest data sheets
* Rename as PastrCropbyState\_importable.xlsx
* Save in the Original\_Data subfolder

1. **Instructions for Replicating the Study**

* Using Stata BE, Version 18 to clean and analyze the dataset
* Setting Directory to Mac-398-Project
* First, run the processing.do to import the two datasets and merge into the base\_file.dta
* Next, run the processing.do for further cleaning and creating new variables.
* Lastly, run the analysis.do to get the regression results. In the do.file, outreg2 installation is also included.