

Caribbean Basin Economic Recovery Act: Impact on U.S. Industries and Consumers and on Beneficiary Countries, 27th Report, Inv. No. 332-606
Model Release

Overview:

This is the README file associated with *Caribbean Basin Economic Recovery Act: Impact on U.S. Industries and Consumers and on Beneficiary Countries, 27th Report, Inv. No. 332-606* economic model and data inputs for replication of results in Chapters 3 and 4 of the report.

Recommended Citation:

U.S. International Trade Commission (USITC). *Caribbean Basin Economic Recovery Act: Impact on U.S. Industries and Consumers and on Beneficiary Countries, Twenty-Seventh Report*, USITC Publication 5662. Washington DC: USITC, September 2025.

Files included:

- cbera2025.R: R script for calibrating the model and generating counterfactual results presented in Chapters 3 and 4.
- cberapython.ipynb: Python script for calibrating the model and generating counterfactual results presented in Chapters 3 and 4. While this code is intended to generate the same results as the accompanying R program when used with the same dataset, identical performance is not guaranteed. This script is included to accommodate users of different programming languages.
- cberaimports.xlsx: Excel file containing imports from CBERA-eligible countries, broken down by subheading, country of origin, and import program claimed.
- otherimports.xlsx: Excel file containing total U.S. imports under each of the 20 subheadings discussed in Chapter 3.
- cberaPNTR.xlsx: Excel file containing average PNTR tariff rates for each of the 20 subheadings discussed in Chapter 3. PNTR rates shown as ad valorem equivalents.
- cberadom.xlsx: Excel file containing initial estimates of domestic production and employment in industries represented by each of each of the subheadings discussed in Chapter 3.
- sigmas: Folder containing data files used to estimate elasticities of substitution for all subheadings. Excel files within this folder are described by the nomenclature 'XXXXimports.xlsx', where 'XXXX' is the 4-digit HTS heading containing a particular subheading. For example, the file '2905imports.xlsx' would contain data for heading 2905.

List of Python packages required to run the provided code:

- The Python script requires numpy, pandas, os, zipfile, PooledOLS, PanelOLS, and statsmodels.

List of R packages required to run the provided code:

- The R script requires readxl, plm

Instructions for replication:

Step 1: Use the R or Python script corresponding to the CBERA simulation.

Step 2: Change "Replace with folder location" to the folder where CBERArelease.zip is located.

Step 3: Run code

Output created:

The scripts output nine tables corresponding to the seven tables in Chapter 3 as well as two tables in Chapter 4. The tables will be saved in the Results folder. All tables match exactly with their counterparts in the CBERA report.

- Table3.2.csv
- Table3.3.csv
- Table3.4.csv
- Table3.5.csv
- Table3.6.csv
- Table3.7.csv
- Table3.8.csv
- Table4.7.csv
- Table4.8.csv