

# Summary of "The Long-Term Effects of Africa's Slave Trades"

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Published in 2008

## Document Link

The Long-Term Effects of Africa's Slave Trades on JSTOR

## 1 Objective

The objective of the study is to examine the long-term effects of Africa's slave trades on the continent's current economic underdevelopment.

## 2 Reason

This research is conducted to understand how historical events, specifically the slave trades, have shaped the economic trajectories of African nations up to the present day.

## 3 Data

Two types of data are used:

- Shipping Data: Records the total number of slaves exported from each port or region in Africa, mainly from the Trans-Atlantic Slave Trade Database.
- Ethnic Identity Data: Provides information on the ethnic identities of slaves, helping to trace the origins of slaves shipped from coastal countries.

## 4 Results

The study finds a significant negative relationship between the number of slaves exported from African countries during the four slave trades between 1400 and 1900 and the current economic performance of these countries. This suggests

that the slave trades have had a long-lasting adverse impact on African economic development.

## 5 ChatGPT Prompt for Python Program Replication

Could you create a Python program capable of replicating the statistical analysis performed in a study where all the relevant data is contained within a file called replicationData.csv? The study involves a two-stage regression analysis:

First Regression: Ordinary Least Squares (OLS) Regression

Dependent variable: `ln_maddison_pcgdp2000` (log of GDP per capita in 2000).

Independent variables: `ln_export_area`, `longitude`, `rain_min`, `humid_max`, `low_temp`, `ln_coastline_area`, `island_dum`, `islam`, `legor_fr`, `region_n`, `ln_avg_gold_pop`, `ln_avg_oil_pop`, `ln_avg_all_diamonds_pop`, `colony0`, `colony1`, `colony2`, `colony3`, `colony4`, `colony5`, `colony6`, and `colony7` (the colony variables are called the colonizer fixed effect and should be omitted from the regression summary table but included in the overall regression estimation).

Second Regression: Two stage Instrumental Variable regression

First Stage

Dependent variable: `ln_export_area`

Independent instrument variables: `atlantic_distance_minimum`, `indian_distance_minimum`, `saharan_distance_minimum`, `red_sea_distance_minimum`.

Second Stage

Dependent variable: `ln_maddison_pcgdp2000`

Independent variable: Predicted values of `ln_export_area` from the first stage of the IV regression

Please include comments to explain each step and make sure the code is structured in a way that is easy to follow. Add functionality to plot the relationship between `ln_export_area` (x-axis) and `ln_maddison_pcgdp2000` (y-axis), displaying a scatter plot with a trendline. Add functionality to plot the relationship between `ln_pop_dens_1400` (x-axis) and `ln_export_area` (y-axis), displaying a scatter plot with a trendline. Add functionality to plot the relationship between `ln_export_area` (x-axis) and `ethnic_fractionalization` (y-axis), displaying a scatter plot with a trendline. Additionally save all regression summaries printed to two .txt files (one for the OLS regression and one for the IV regression first and second stage) and save the scatterplot outputs to .jpg files. Additionally, include in all regression summary outputs a summary statistics table for the independent variables used excluding the colony variables. All files should be saved to the current directory. Please make the program organized by functions.