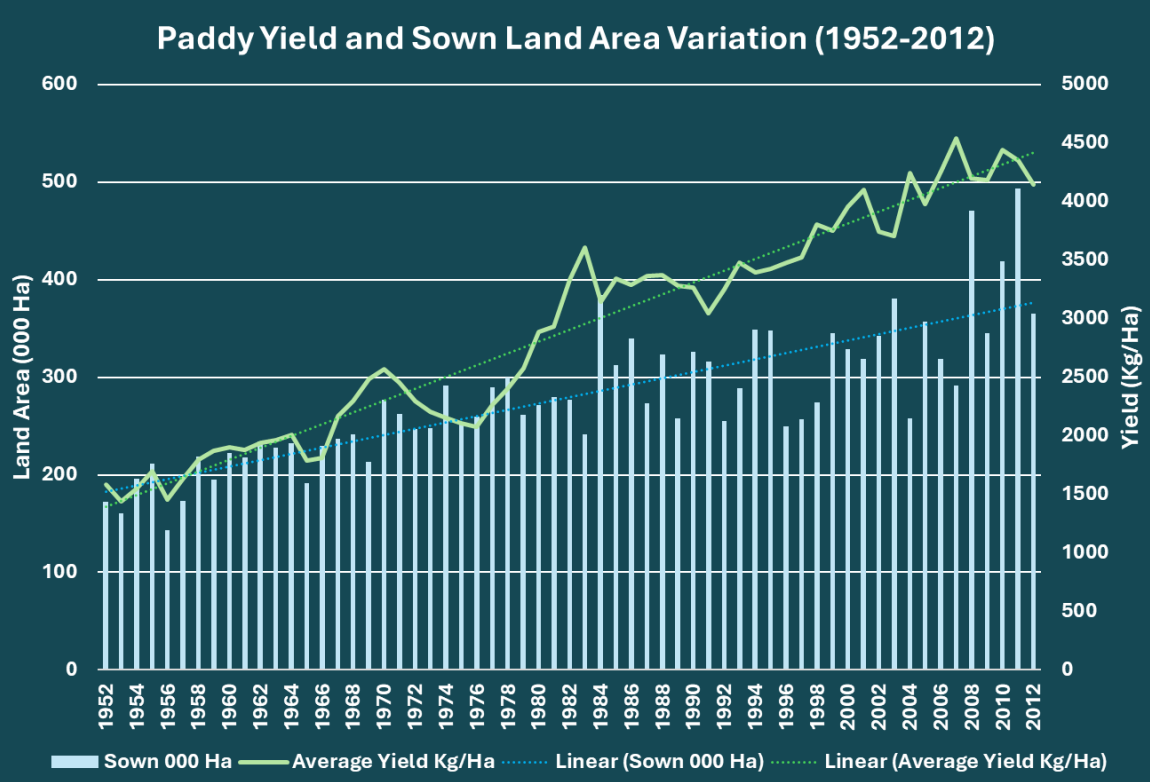
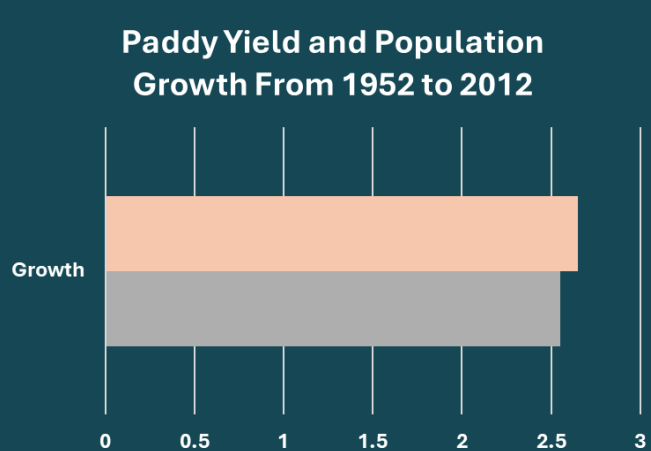
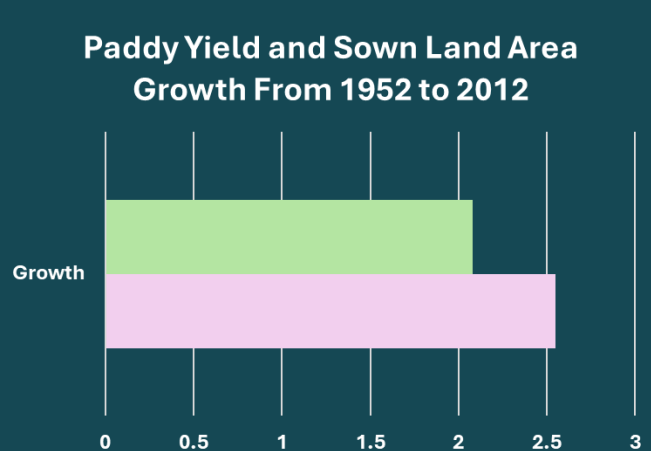
SRI LANKA PADDY PRODUCTION

YALA SEASON (1952-2012)



IN LAST 60 YEARS

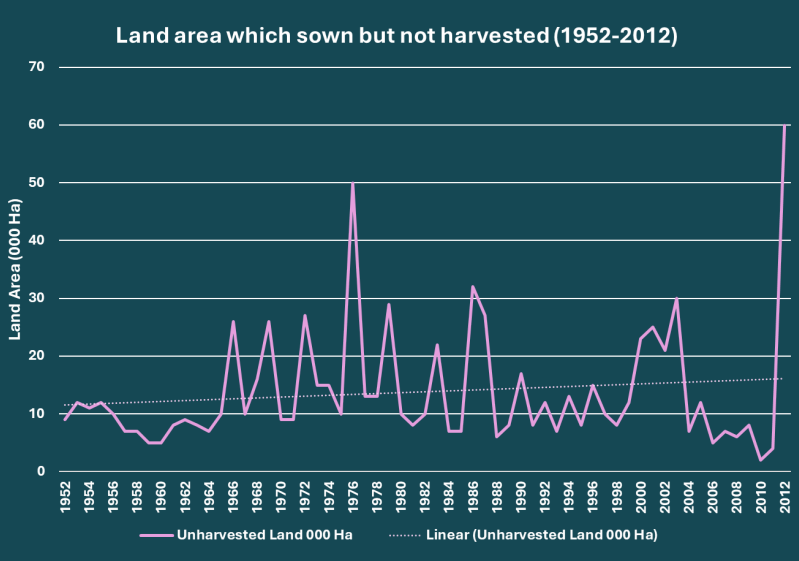




BASE ON 2012 DATA HARVEST FROM YALA SEASON CAN FEED UP TO 7.5 MILLION PEOPLE IN SRI LANKA FOR A YEAR

***ONLY 2/3 OF PADDY CAN BE CONVERTED TO RICE AND AS PER DATA OF 2012 FROM DEPARTMENT OF CENSUS AND STATISTICS, AVAERAGE SRI LANKAN ADULCT CONSUMES AROUND 100KG OF RICE PER YEAR

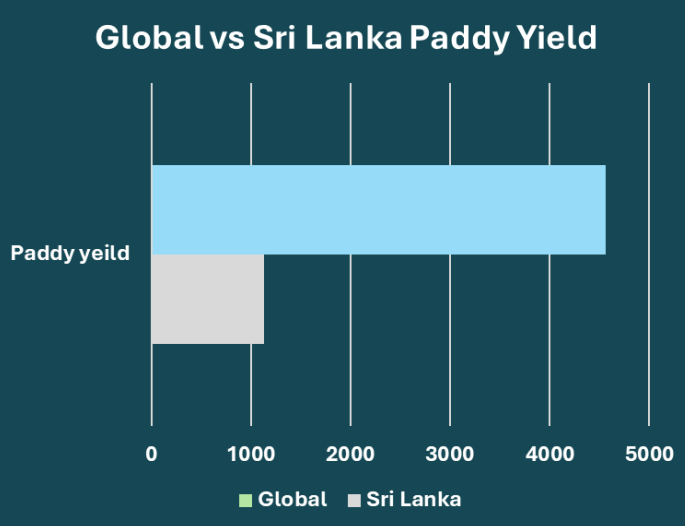
EVEN THOUGH THE PADDY YIELD IS GROWING THAN THE POPULATION, YALA PRODUCTION IS INSUFFICENT TO SUPPLY LOCAL DEMAND



FOR THE LAST 60 YEARS THE LAND AREA OF SOWN BUT UNHARVESTED HAS BEEN SLOWLY INCREASING BY 1.43 FOLDS

PEASRSON CORELATION (AVERAGE YIELD - HARVESTED OOO HA): 0.77

THERE IS NO VERY STRONG CONNECTION BETWEEN THE YIELD AND HARWESTED LAND AREA



*** THIS COMPARISON MIGHT NOT BE SUITABLE SINCE WE HAVE TAKE ONLY THE MAHA SEASON IGNORING THE YALA SEASON AND THERE ARE NO SEASONAL DATA IN GLOBAL CONTEXT

SRI LANAKA PADDY YIELD IS COMPARATIVELY VERY LOW TO THE GLOBAL AVERAGES AND THEREFORE FRAMERS RESPECTIVE AUTHORITIES SHOULD NECESSARY STEPS TO INCREASE THE YIELD WHILE PRESERVING ALL THE SOWN LAND FOR INCREASED HARVEST

Data Cleaning
Only used data with metric units

Data manipulation

Unharvested land area was calculated under this equation

Uncultivated Land = Sown - Harvested

Additional data:

From Department of Census and Statistics used for further calculations:

- Population in 1952 – 8,245,475
- Population in 2012 – 21,017,147
- Paddy to rice conversion ratio – 3:2
- Rice consumption per person: 107 Kg

Global yield was got from ourworldindata.org : 6540 Kg/Ha

Assumptions:

Even thought the `Average Yield Kg/Ha` is not tallying with provided data it was assumed that the provided average yield is correct.

Assumed hectare and acre area calculation are correctly done in the dataset

Methods to explore data:

Graphs

Peason correlation

Trend analysis

GitHub Link: https://github.com/avantha-d/DS---Infographic