# Report on Datasets Gathered

Dataset 1 Name: 1711 - 2016 Rainfall ( Ireland )

Place Acquired: https://www.met.ie/

Relevance to Project Goal: Key factor in crop production as well plants need water to grow, differences in rainfall will affect growth of certain crops.

Data Type: Time series monthly

Description of Work done with csv: python script made to average the rain fall for each year

Image of csv with factors:

Dataset 2 Name: Crop Yield 1985 - 2007 and Crop Yield 2007 - 2019

Place Acquired: https://data.cso.ie/

Relevance to Project Goal: contains a different crops and their associated yeild number per year ( Selected crop to examine ( pototaes ) )

Data Type: Time series yearly

Description of Work done with csv: Combined the two dataset into one

Image of csv with factors:

Dataset 3 Name: GNP ( Ireland Billions USD )

Place Acquired: https://www.macrotrends.net/

Relevance to Project Goal: Looking to see if there is a depencancy between gnp and crop production

Data Type: Time series yearly

Description of Work done with csv: None

Image of csv with factors:

Dataset 4 Name: GDP (Ireland Billion USD)

Place Acquired: https://tradingeconomics.com/

Relevance to Project Goal: Looking to see if there is a depencancy between gdp and crop production

Data Type: Time series yearly

Description of Work done with csv: None

Image of csv with factors:

Dataset 5 Name: CO2 emissions Metric Tons

Place Acquired: https://tradingeconomics.com/

Relevance to Project Goal: Key factor in crop growth,

Data Type: Time-series yearly

Description of Work done with csv: None

Image of csv with factors:

Dataset 6 Name: Agricultural Land (sq. Km)

Place Acquired: https://data.cso.ie/

Relevance to Project Goal: Land avaible for crop production

Data Type: Time-series yearly

Description of Work done with csv: None

Image of csv with factors:

Dataset 7 Name: Population Growth %

Place Acquired: https://tradingeconomics.com/

Relevance to Project Goal: Looking for a depenancy between the two

Data Type: Time-series yearly

Image of csv with factors:

Dataset 8 Name: Fertilizer Consumption ( kilograms Per Hectare Of Arable Land )

Place Acquired: https://tradingeconomics.com/

Relevance to Project Goal: amount of fertizler being used for

Data Type: Time series yearly

Description of Work done with csv: None

Image of csv with factors:

Dataset 9 Name: Exports of cereal flour cereal, flour, starch, milk preparations and products

Place Acquired: https://tradingeconomics.com/

Relevance to Project Goal:

Data Type: Time series yearly

Description of Work done with csv: None

Image of csv with factors:

Dataset 10 Name: Imports of Cereal, flour, starch, milk preparations and products

Place Acquired: https://tradingeconomics.com/

Relevance to Project Goal:

Data Type: Time series yearly

Description of Work done with csv: None

Image of csv with factors:

Dataset 11 Name: Temp Grid

Place Acquired: https://www.met.ie/

Relevance to Project Goal: Key factor in crop production as well plants need water to grow, differences in temp will affect growth of certain crops.

Data Type: Time series: Yearly

Description of Work done with csv: None

Image of csv with factors:

Conclusion:

For this project i gather data from the various sources on the internet listed above.

The criteria for selecting my datasets were as follows

* Are they of relevance to crop production
* Do they add scope to the goal of my project
* Is the dataset in a useable format
* Does the dataset have enough infomation to be valiable
* Is values in the dataset accurate
* Does the dataset compilment other dataset already acquired
* Must be geolocated to Ireland
* From a reliable source

Most of the datasets were not changed to get into a useable format apart from two datasets in which i used a python script to average the rainfaill for each year

There was no need to do eithical work as all the datasets were acquired from reliable sources as mentioned above.

Data from before 1985 was filter out of all datasets in order to keep the data pool as mordern as possible aswell as coverting all