## Data Sources

### Data Gathering

After we determined what information we wanted to collect, we set a timeframe for data collection. The following step is to select a data gathering technique and then begin collecting data.

Result: Various tables and databases containing the data

### Evaluate gathered data

After we gather the data, the data needs to be evaluated before we select which information will be in analysing.

## Data Selection

### Based on Relevant timeframe

- automate data selection for daily cases to select what will be relevant to any given days crops time wise

Result: consolidated tables selected for relevant timelines

## Data Cleaning

### Remove noise

Remove or rectify statistical noise, such as misinputs, missing inputs, duplicate records

Result: cleaned tables and DB’s

### Identify anomalies

Identify anomalies in the data and decide if they are erroneous readings or worth keeping

Result: cleaned data and anomaly report

## Data Transformation

### Collect Inputs

This process includes collecting all selected data after identifying anomalies removing all noises.

### Unify all inputs to table

This step is based on unifying all collected data inputs into one and getting ready data for final analysing.

### Read Single inputs

In this process, when we wish to evaluate a range of data values in an input field, we configure a set of rules to read every single data input.

## Data Analytics

### Make analysis programs

Create and test the analysis programs

Result: Working code

### Analyse given data

Run the data through our analysis algorithms

Result: analysis system output, probably a text database

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## Interpretation and Evaluation

### Interpret acquired data

Put the analysis results in a dashboard and on the website

Result: Dashboards with the data

### Evaluate results

Evaluate the success of our predictions and determine if the process needs improvement

Result: Report

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