

# Farming Data Dictionary

1. Geographic features		
Column Name:	Description:	Data Type:
Field_ID	A unique identifier for each field	BigInt
Elevation	The elevation of the field above sea level in metres	Float
Latitude	Geographical latitude of the field in degrees	Float
Longitude	Geographical longitude of the field in degrees	Float
Location	Province the field is in	Text
Slope	The slope of the land in the field	Float

2. Weather features		
Column Name:	Description:	Data Type:
Field_ID	Corresponding field identifier	BigInt
Rainfall	Amount of rainfall in the area in mm	Float
Min_temperature_C	Average minimum temperature recorded in Celsius	Float
Max_temperature_C	Average maximum temperature recorded in Celsius	Float
Ave_temps	Average temperature in Celcius	Float

3. Soil and crop features		
Column Name:	Description:	Data Type:
Field_ID	Corresponding field identifier	BigInt
Soil_fertility	A measure of soil fertility where 0 is infertile soil, and 1 is very fertile soil	Float
Soil_type	Type of soil present in the field	Text
pH	pH level of the soil, which is a measure of how acidic/basic the soil is	Float

4. Farm management features		
Column Name:	Description:	Data Type:
Field_ID	Corresponding field identifier	BigInt
Pollution_level	Level of pollution in the area where 0 is unpolluted and 1 is very polluted	Float
Plot_size	Size of the plot in the field (Ha)	Float
Chosen_crop	Type of crop chosen for cultivation	Text
Annual_yield	Annual yield from the field. This is the total output of the field. The field size and type of crop will affect the Annual Yield	Float
Standard_yield	Standardised yield expected from the field, normalised per crop. This is independent of field size, or crop type. Multiplying this number by the field size, and average crop yield will give the Annual_Yield.	Float

Weather_station_data (CSV)		
Column Name:	Description:	Data Type:
Weather_station_ID	The weather station the data originated from.	Int
Message	The weather data was captured by sensors at the stations, in the format of text messages.	Str

Weather_data_field_mapping (CSV)		
Column Name:	Description:	Data Type:
Field_ID	The id of the field that is connected to a weather station. This is the key we can use to join the weather station ID to the original data.	Int
Weather_station_ID	The weather station that is connected to a field. If a field has weather_station_ID = 0 then that field is closest to weather station 0.	Int