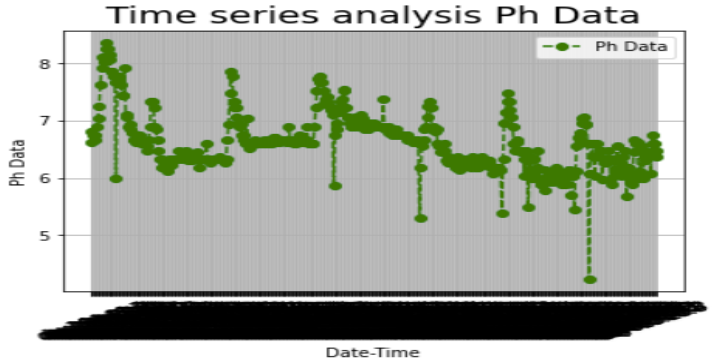
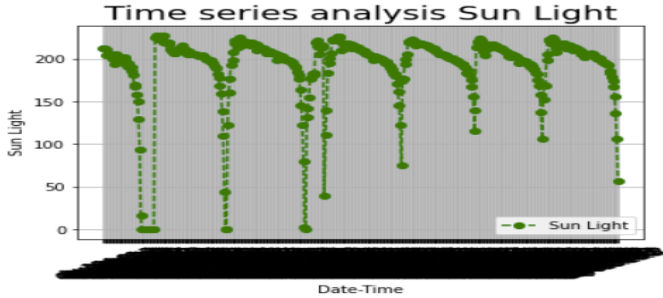
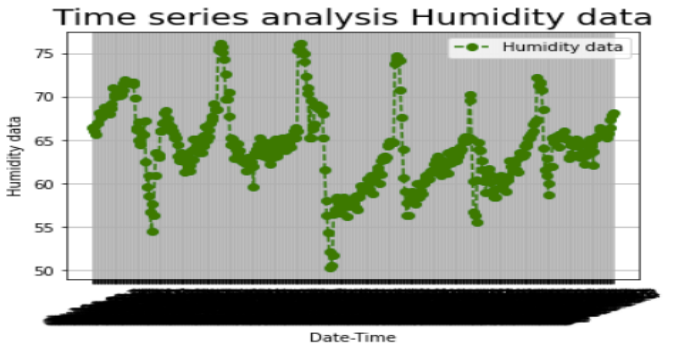
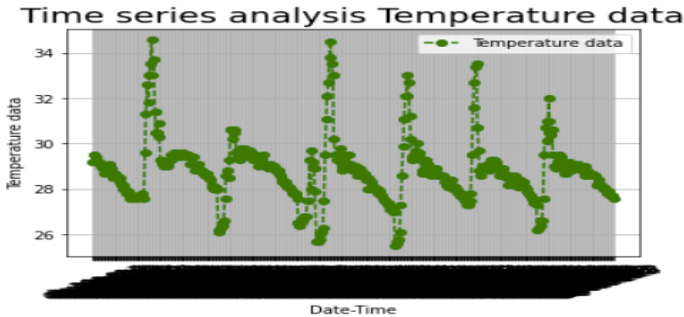
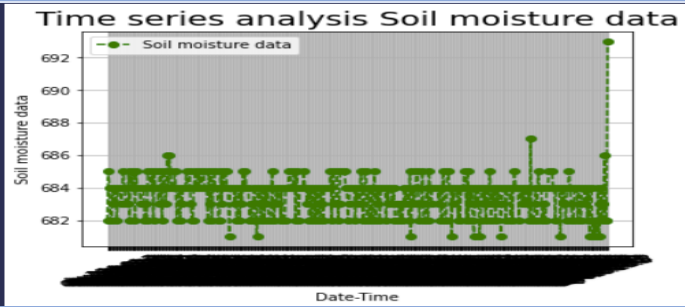


- **HYDROPHONIC SYSTEM DATA DESCRIPTION**

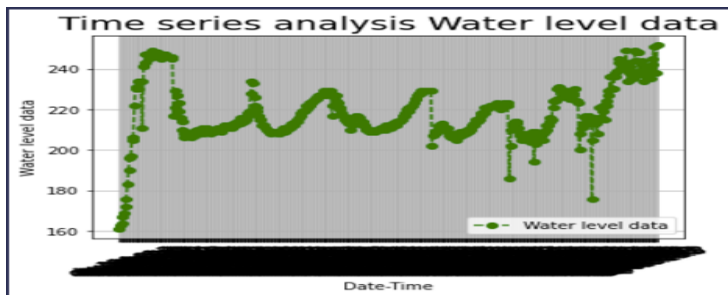
Time series analysis of phase 1 (planting phase)

PARAMETERS	CHART
PH	 <p>The chart titled "Time series analysis Ph Data" displays pH levels on the y-axis (ranging from 5 to 8) against Date-Time on the x-axis. The data points, represented by green dots connected by a dashed line, show a fluctuating trend that generally stays between 6 and 8, with a notable dip around the middle of the time period.</p>
LUMINOUS INTENSITY	 <p>The chart titled "Time series analysis Sun Light" displays sun light intensity on the y-axis (ranging from 0 to 200) against Date-Time on the x-axis. The data points, represented by green dots connected by a dashed line, show a clear periodic pattern with peaks around 200 and troughs near 0, indicating a daily cycle of light intensity.</p>
HUMIDITY	 <p>The chart titled "Time series analysis Humidity data" displays humidity data on the y-axis (ranging from 50 to 75) against Date-Time on the x-axis. The data points, represented by green dots connected by a dashed line, show a fluctuating trend that generally stays between 55 and 75, with a notable dip around the middle of the time period.</p>
TEMPERATURE	 <p>The chart titled "Time series analysis Temperature data" displays temperature data on the y-axis (ranging from 26 to 34) against Date-Time on the x-axis. The data points, represented by green dots connected by a dashed line, show a fluctuating trend that generally stays between 26 and 34, with a notable dip around the middle of the time period.</p>

SOIL MOISTURE



WATER LEVEL



Range of parameters

PARAMETER	MAX	MIN
PH	8.37	4.23
LUMINOUS INTENSITY	228	0
HUMIDITY	76.2	50.3
TEMPERATURE	34.6	25.5
SOIL MOISTURE	687	676
WATER LEVEL	252	161

Dataset Description

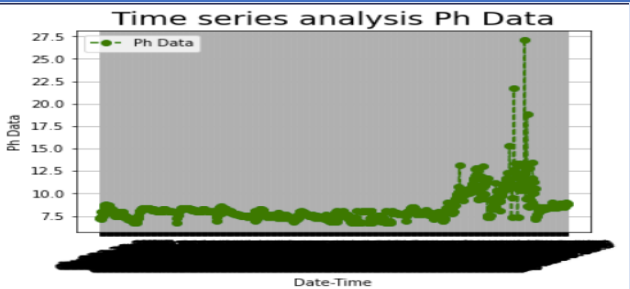
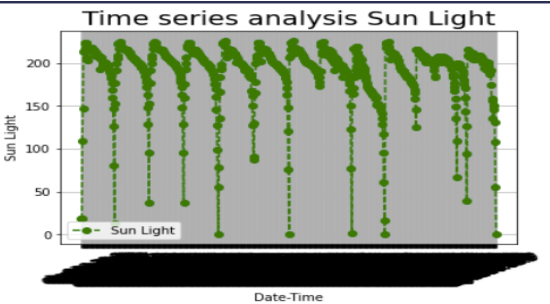
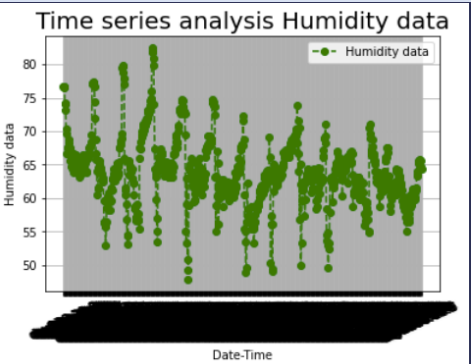
TYPE	DESCRIPTION
Data set Characteristic	Multivariant
Attribute Characteristics	Timestamp, Integer, Real
Associated Tasks	Regression
Number of Instances	469
Number of attributes	841

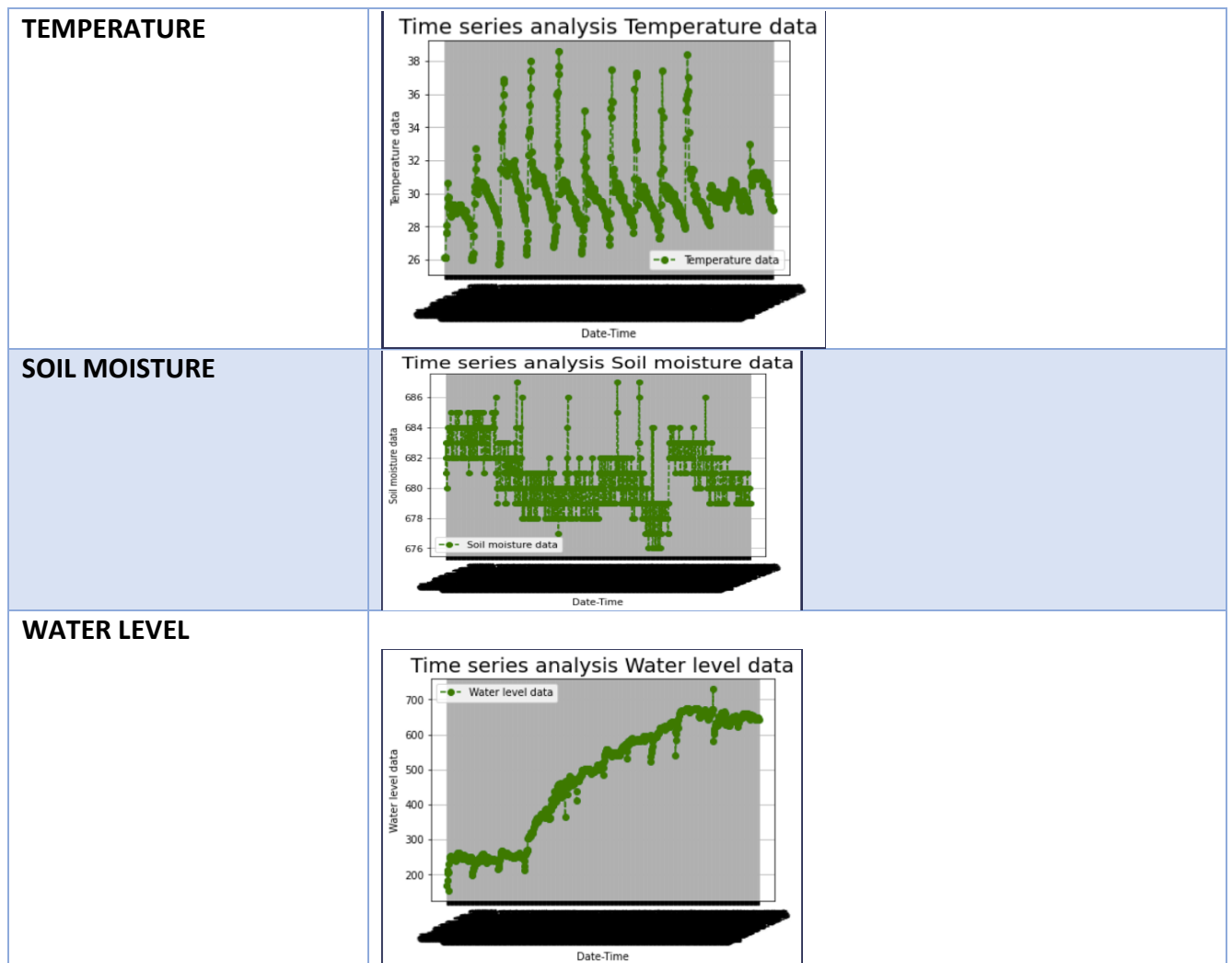
Attribute Information

- 1) Day(1-28)
- 2) Timestamp(HH:MM:SS)
- 3) Ph value
- 4) Luminous intensity
- 5) Humidity
- 6) Temperature
- 7) Water level

8) Soil Moisture

Time series analysis of phase 2 (Growing phase)

PARAMETERS	CHART
PH	<div><p>Time series analysis Ph Data</p></div>
LUMINOUS INTENSITY	<div><p>Time series analysis Sun Light</p></div>
HUMIDITY	<div><p>Time series analysis Humidity data</p></div>



Range of parameters

PARAMETER	MAX	MIN
PH	27.13	6.68
LUMINOUS INTENSITY	226	0
HUMIDITY	82.5	47.8
TEMPERATURE	38.6	25.7
SOIL MOISTURE	687	579
WATER LEVEL	731	153

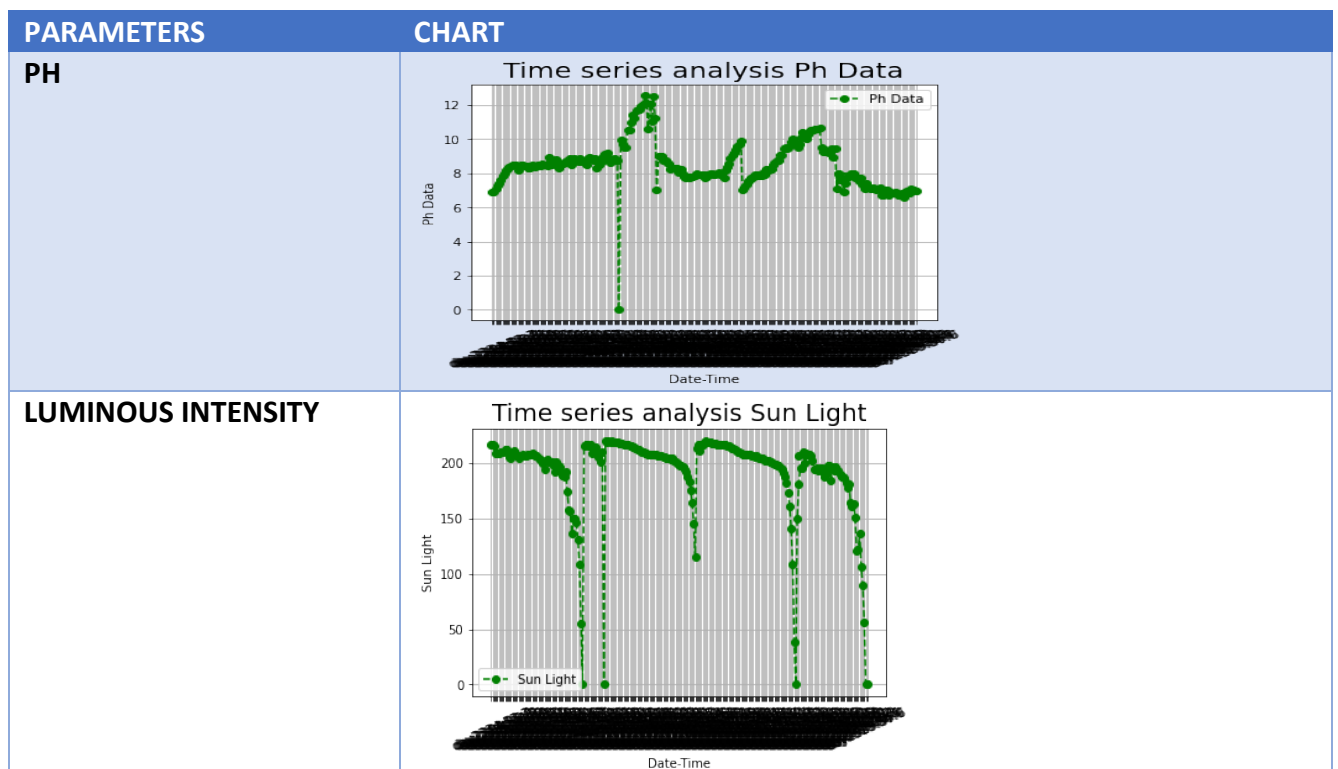
Dataset Description

TYPE	DESCRIPTION
Data set Characteristic	Multivariant
Attribute Characteristics	Timestamp, Integer, Real
Associated Tasks	Regression
Number of Instances	841
Number of attributes	8

Attribute Information

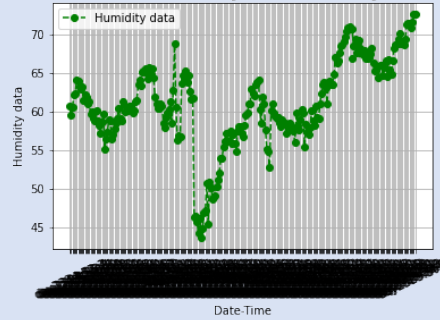
- 1) Day(1-28)
- 2) Timestamp(HH:MM:SS)
- 3) Ph value
- 4) Luminous intensity
- 5) Humidity
- 6) Temperature
- 7) Water level
- 8) Soil Moisture

Time series analysis of phase 3 (Harvesting Phase)



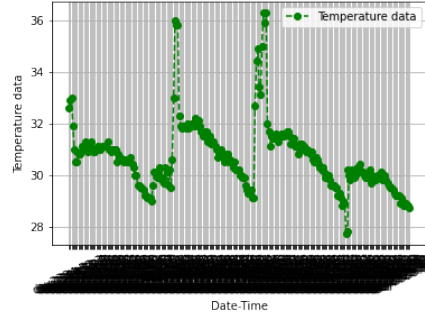
HUMIDITY

Time series analysis Humidity data



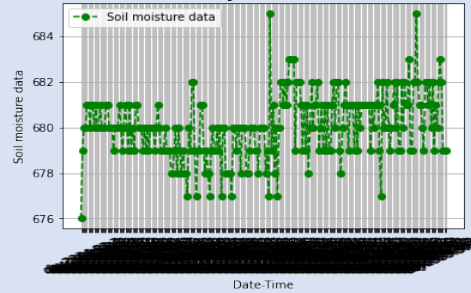
TEMPERATURE

Time series analysis Temperature data



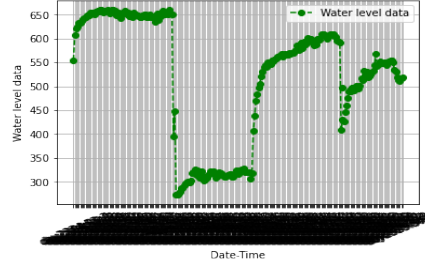
SOIL MOISTURE

Time series analysis Soil moisture data



WATER LEVEL

Time series analysis Water level data



Range of parameters

PARAMETER	MAX	MIN
PH	12.59	0
LUMINOUS INTENSITY	220	0
HUMIDITY	72.7	43.6
TEMPERATURE	36.3	27.7
SOIL MOISTURE	685	676
WATER LEVEL	661	272

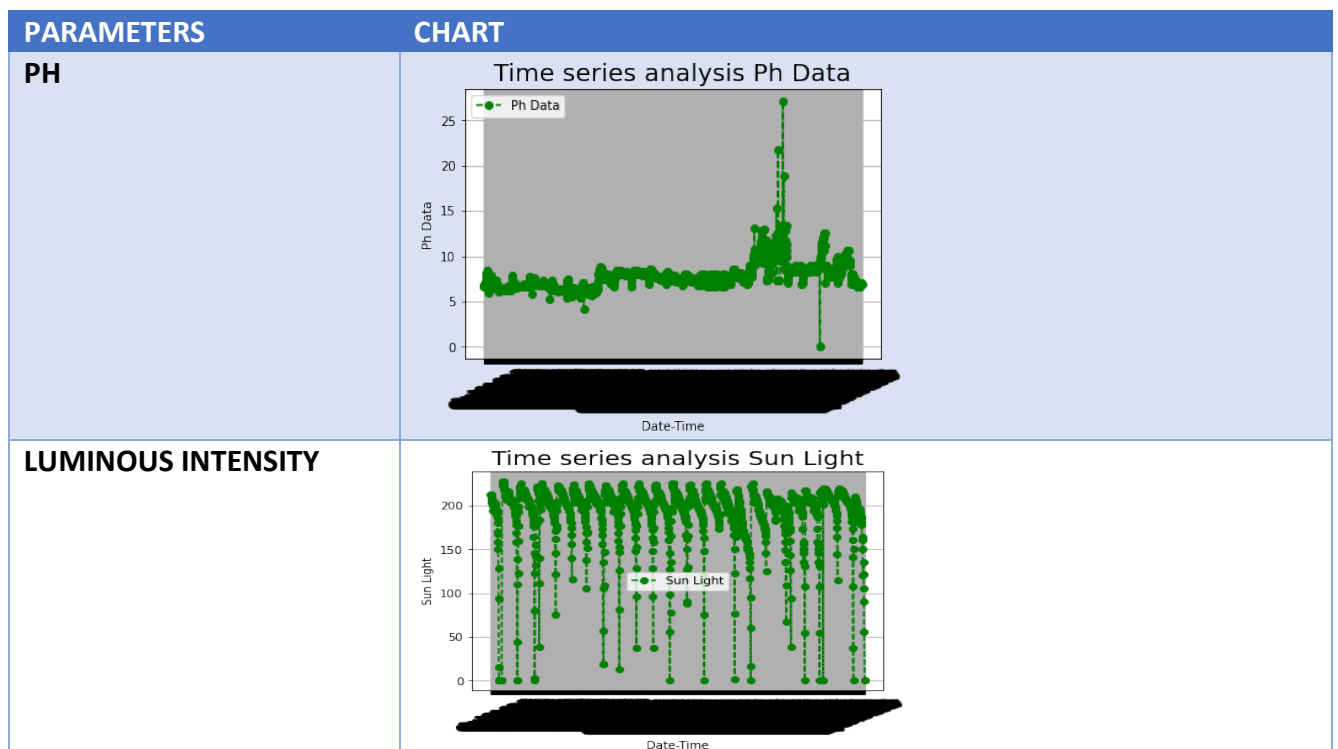
Dataset Description

TYPE	DESCRIPTION
Data set Characteristic	Multivariant
Attribute Characteristics	Timestamp, Integer, Real
Associated Tasks	Regression
Number of Instances	250
Number of attributes	8

Attribute Information

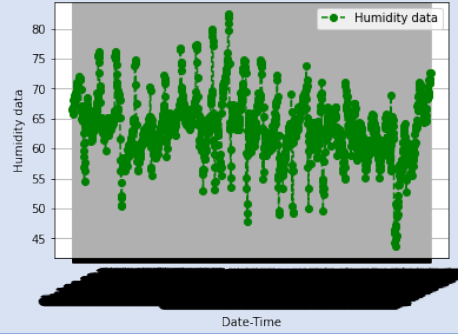
- 1) Day(1-28)
- 2) Timestamp(HH:MM:SS)
- 3) Ph value
- 4) Luminous intensity
- 5) Humidity
- 6) Temperature
- 7) Water level
- 8) Soil Moisture

Time series analysis of all phases combined



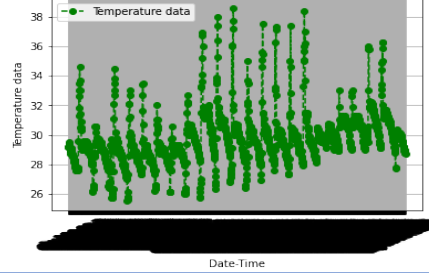
HUMIDITY

Time series analysis Humidity data



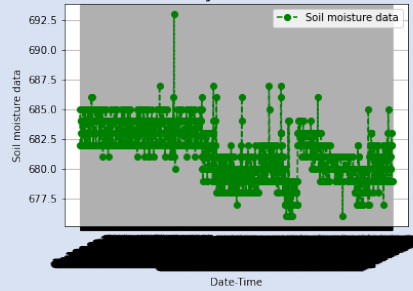
TEMPERATURE

Time series analysis Temperature data



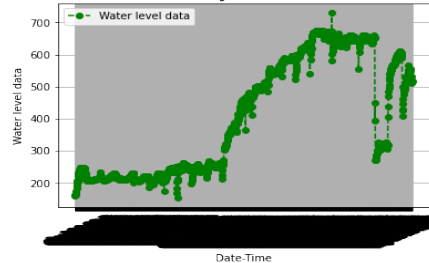
SOIL MOISTURE

Time series analysis Soil moisture data



WATER LEVEL

Time series analysis Water level data



Range of parameters

PARAMETER	MAX	MIN
PH	27.13	0
LUMINOUS INTENSITY	228	0
HUMIDITY	82.5	43.6
TEMPERATURE	38.6	25.5
SOIL MOISTURE	693	676
WATER LEVEL	731	153

Dataset Description

TYPE	DESCRIPTION
Data set Characteristic	Multivariant
Attribute Characteristics	Timestamp, Integer, Real
Associated Tasks	Regression
Number of Instances	1559
Number of attributes	8

Attribute Information

- 1) Day(1-28)
- 2) Timestamp(HH:MM:SS)
- 3) Ph value
- 4) Luminous intensity
- 5) Humidity
- 6) Temperature
- 7) Water level
- 8) Soil Moisture