* **HYDROPHONIC SYSTEM DATA DESCRIPTION**

Time series analysis of phase 1 (planting phase)

|  |  |
| --- | --- |
| PARAMETERS | CHART |
| PH |  |
| LUMINOUS INTENSITY |  |
| HUMIDITY |  |
| TEMPERATURE |  |
| 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 |  |
| LUMINOUS INTENSITY |  |
| HUMIDITY |  |
| TEMPERATURE |  |
| SOIL MOISTURE |  |
| WATER LEVEL |  |

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)

|  |  |
| --- | --- |
| PARAMETERS | CHART |
| PH |  |
| LUMINOUS INTENSITY |  |
| HUMIDITY |  |
| TEMPERATURE |  |
| SOIL MOISTURE |  |
| WATER LEVEL |  |

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

|  |  |
| --- | --- |
| PARAMETERS | CHART |
| PH |  |
| LUMINOUS INTENSITY |  |
| HUMIDITY |  |
| TEMPERATURE |  |
| SOIL MOISTURE |  |
| WATER LEVEL |  |

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