

Assessment of amount of inoculum:-

It can be founded by No. or amount of infections. Here you should see the symptom or the portion of field that is damaged then you can assess how much inoculum is present.

Apprehensions:-

At initial stage, the disease can not be guessed. It is the incubation period that is from where the the tissue are injected and no symptoms are produced.

Film: Least method:-

There is a film that is sensitive to the near infrared radiations. It can be easily assessed when the rays are injected and then they reflect back the level of reflection, the tells us that disease is present and how much amount reflected tell the severity of disease. It is technically called aerial photography.

Monitoring of weather:-

that effect the disease development. It is some how difficult process. It can be done by 3 ways.

1. weather assessment of canopy of plant
2. weather assessment of surface of plant
3. weather assessment of surface of field.

7. sensor related to crop canopy.
The data base should have input
venel trap, humidity, rainfall, leaf wetness
host variable also be known.

1. variety and stage of host must be known.

2. pathogen inoculum and spore should be known.

plant disease epidemic model is model that tells about the relationship that disease describe the interaction b/w a nutrient & host / pathogen variable and disease that are described as equation, graph, table and simple statement components and sub components. information comes from the experiment

Lecture ~~8~~ Theory:-

Assessment of initial disease ^{inoculum} &

If you have an inoculum and the inoculum is soil born then do the extraction of soil born inoculum

By applying:-

1. Soil extraction method
2. Trapping method.

If the inoculum by air borne or transfered by vector. then you apply

1. Different Devices.

In older time, different instrument were used for the measurement of the different weather parameters. on chart by different graphs and curve, made

Electronic Sensors:-

In 1971, electronic sensors were used. They produce the electrical outputs that are recorded by the computer loggers (Arrangement). Once the data is inputted, it will do some processing and then give a value and keep the record. It generate the data from different weather parameters.

- | | |
|------------------------|-------------------|
| 1. Maximum Temperature | 2. Rainfall |
| 3. Minimum Temperature | 4. Wind direction |
| 5. Solar radiations | 6. Wind speed |
| 7. Leaf wetness | 8. Dew drop |

They are battery operated.

For Example:-

1. Temperature:-

Thermometer, hygrothermographs, thermocouples, thermistors (semiconductors the electric resistance change with the temperature)

2. Relative humidity:-

i. Hygrothermographs / their mechanism is the contraction and relaxation of wire as like the human hair in the humidity.

ii. Psychrometer comprised of dry and wet bulbs, the dry and wet

thermister, electrode bounding sulfonated polystyrene plate, its resistance change logarithmically with with R.H).

3. Leaf wetness:-

i. There are string type moisture sensors that constrict on moisture and expand on drying.

ii. Leaf ink trace:- They produce the ink traces when are in contact with the moist leave to measure the leaf moisture.

iii. The string type electrodes can break and close the circuits. By touching over the leaf, they give data of rain, wind, cloudiness.

Forum: rain funnel, rain pipet, bucket gauge and rain cups.

4. Wind speeds:-

wind thermometers.

5. Wind direction:-

wind vanes.

6. Cloudiness:-

It is also called irradiance pyrenometers, connect with computer and give data to project on screen.

The small computer called the micro computers are connected to the screen where data is displayed.

ANS:-

Automated weather system. They can store the data of 20 years, 30 years

Plant Pathology

PP-308

Practical Part



Sheet1

Student Practice Sheet

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	A	B	C	D	E
1	Relative Humidity (%)	Variety-I	Variety-II	Variety-III	
2	20	10	20	0	
3	45	20	30	15	
4	30	30	40	25	
5	50	35	50	30	
6	55	45	55	35	
7	45	50	55	60	
8	60	60	60	70	
9	80	60	80	90	
10					
11					
12					



Sheet1

Student Practice Sheet

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