

slurry, and put the seeds along with the slurry either in glass jar & shake thoroughly or use a slurry machine. Wet fungicides or organo-mercuric fungicides are generally used for slurry treatment.

⇒ Systemic seed dressers:

Systemic seed dressers are used for loose smut or bunt of cereals. Systemic seed dresser include Benomyl, oxathiin, Carbozin, .

(In bunt & smut - the pathogen become part of system of embryo & reside in embryo, therefore we spray or use systemic seed dresser)

25-09-19

Theory

⇒ methods that eradicate/reduce pathogen inoculum:

i) You can reduce amount of inoculum from an area

ii) Reduce from plant part

iii) Reduce from a plant

Different ways to reduce like

Cultural Methods

i) Eradication

ii) Crop Rotation

iii) Sanitation

iv) Improving plant conditions

v) Creating unfavourable conditions for the pathogen.

vi) Polythene mulching

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vii) Trickle irrigation



(نچر سے drop form)

viii) Eco-fallow (fallow the field but field environment should be friendly)

ix) Reduced or increased tillage practices.

→ Eradication / Roguing:-

→ In 1915 Citrus Canker is in Epidemic form in Florida. An eradication Campaign starts & 3 million citrus trees were eradicate.

So In 1916 - almost citrus Canker controlled.

In 1984 - 1992 again citrus Canker comes in Epidemic form in Florida state. Millions of nursery plants + orchards trees were eradicated. Then In 1995 a survey was conducted again in town & colonies and it was concluded that canker is still present in town & they again eradicate it.

→ Witchweed (Stigja asiatica) was present in Europe. An eradication campaign eradicate it. & it is controlled effectively.

→ Fire blight of Apple was controlled by eradication.

→ Coffee Rust in South America was also controlled.

→ other diseases like Cucumber Mosaic Virus over winter / oversummer in crop stubbles so stubbles should be eradicated.

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Some time viruses are present in Tubers so eradicate the Tubers.

→ Eradicate Volunteer plants & alternate & collateral hosts. e.g. by eradicating Volunteer plant you can control Tomato mottle virus & Tomato yellow leaf curl virus.

Some plant pathogens have alternate host e.g. in ^{stem} black Rust is Barberry

→ Crop Rotation.

Crop is rotated for 3-4 years. To control the disease / pathogen. Microbes or pathogens are of two types. Soil invaders and soil inhabitants. Soil invaders are invaders & attack on favourable crop plant & remain in soil until the crop is present in soil. Soil inhabitants are permanently remain in soil for longer periods so crop rotation is not affected for them.

Verticillium wilt is effectively controlled by crop rotation.

Remain the soil fellow is also very effective in crop rotation. By this method a fungus Fusarium moniliforme is very effectively controlled by this method.