b. Case study in India on the adoption of weather based crop production on pest and disease management

Dr. T. N. Balasubramanian
Case study in India on the adoption of weather based crop production on pest and disease management

Results - Agromet advisory for blast and *Helminthosporium* leaf disease management of rice

- Weather situation "*anticipating high relative humidity (40 – 90%) combined with prevalence of minimum temperature <20°C*" at maximum tillering and panicle initiation stages of rice.
- The sensitiveness of these crop stages to the weather situation mentioned above are a yield loss of up to 30 per cent as a result disease infestation if it is not controlled by taking appropriate plant protection measures.
- The proposed agro met advisory is to adopt timely plant protection measures.
- The present practice generally prevalent with farmers is to go for plant protection measures as per advice of agricultural input dealer rather than to contact extension specialist for proper advice on choice of chemical, its dose and dilution.
Case study in India on the adoption of weather based crop production on pest and disease management

Results - Agromet advisory for tikka leaf spot in groundnut

- Weather situation "anticipating high evening relative humidity (>60%) for a week and high leaf wetness would provide congenial environment for the initiation of tikka leaf spot disease groundnut at peak vegetative stage"

- The sensitiveness of this crop stage to the weather situation mentioned above are a yield loss of up to up to 40 per cent, if it is not controlled by taking appropriate plant protection measures.

- The proposed agro met advisory is to adopt timely plant protection measures.

- The present practice generally prevalent with farmers is to go for plant protection measures as per advice of agricultural input dealer rather than to contact extension specialist for proper advice on choice of chemical, its dose and dilution.
Results - Agromet advisory for brown plant hopper in rice

- Weather situation "anticipating high cloud cover more than 6 octa combined with day relative humidity of more than 60 per cent would provide congenial environment for the initiation of brown plant hopper at peak tillering stage"

- The sensitiveness of this crop stage to the weather situation mentioned above are a yield loss of up to up to 40 per cent, if it is not controlled by taking appropriate plant protection measures.

- The proposed agro met advisory is to adopt timely plant protection measures at the base of the rice tillers rather than foliage application and also draining water to minimize hopper incidence.

- The present practice generally prevalent with farmers is to go for plant protection measures as per advice of agricultural input dealer rather than to contact extension specialist for proper advice on choice of chemical, its dose and dilution.