CLIMATE CHANGE: UNDER THE RADAR FACTORS

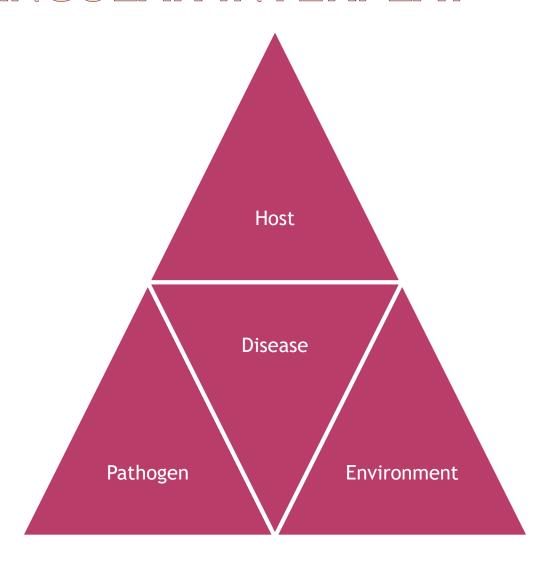
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DEFINITION

climate change

- noun
- noun: climate change; plural noun: climate changes
- a change in global or regional climate patterns, in particular a change apparent from the mid to late 20th century onwards and attributed largely to the increased levels of atmospheric carbon dioxide produced by the use of fossil fuels.

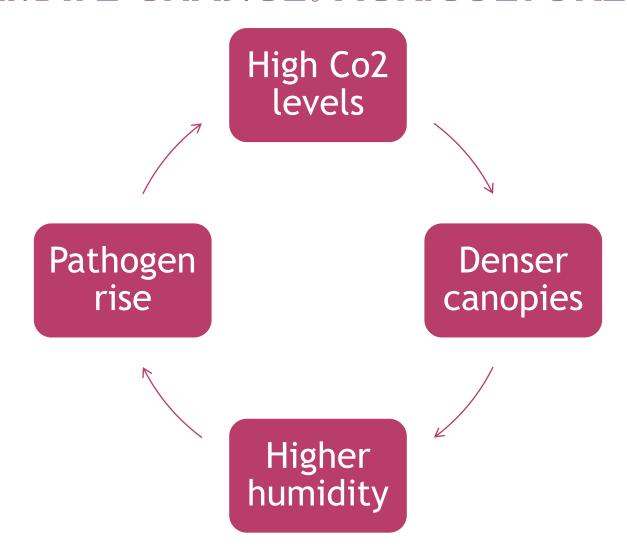
TRIANGULAR INTERPLAY



CLIMATE CHANGE IMPACTS: AGRICULTURE

- Increased/ decrease in temperatures could increase/ decrease insect (predators vs. pests) populations
 - soybeans grown in elevated CO2 atmosphere had 57% more damage from insects (primarily Japanese beetle, potato leafhopper, western corn rootworm and Mexican bean beetle)
- Moisture changes pathogens and disease
- Higher CO2 levels to denser canopies, humidity and growth of pathogens

CLIMATE CHANGE: AGRICULTURE



TRENDS

- White fly on paddy in Telangana and AP
- Pink bollworm on cotton in all States
- paddy swarming caterpillar in Assam
- wheat blast diseases in Bengal and Bangladesh
- Semi-looper on neem tree
- Higher use of insecticides
- Future of Pollinators?





RESULTS

- Higher usage of agrochemicals
- Poisoning of farmers, their families, soil and ecology
- Lower/ higher crop yields
- Market losses
- Increased health expenditures
- Contaminated food

THANK YOU

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