



Expert Meeting Working Group 3 on Climate-related Transboundary Pests and Diseases Including Relevant Aquatic Species

Overview





General Objective of the Working Group

- Discuss the risks of climate change on food security in relation to plant and animal pests and diseases and prepare documents for the High Level Conference on World Food Security and the Challenges of Climate Change and Bioenergy



Specifics objectives of the Working Group

- Respond some questions:
 - Is there adequate knowledge to assess climate change on pests and diseases?
 - How climate change will affect emergence and spread of diseases and pests?
 - Is there a need to adjust relevant organizations to cope with the effects and consequences of climate change on pests and diseases?



Specific Objectives of the Working Group

- Respond some answers:
 - What will be the impact of climate changes in animal and plant pests and diseases on the food security and vulnerable situations?
 - Are future research activities necessary to clarify and quantify possible connections between climate change and their consequences for plant and animal pests and diseases?



Main Results of the Working Group

Two papers produced:

Climate – related transboundary pests and diseases including relevant aquatic species – options for decision makers

Report of the meeting including specific cases pointed out by the group





High Level Conference on Food Security and Global Challenges

- 34th Session of the FAO Conference decision
- FAO Headquarters – Rome next June from 3rd to 5th





The IPPC Inter-relation with the High Level Conference

- Factors that could affect pest introduction and spread:
 - Increases in temperature
 - Variability of rainfall intensity and distribution
 - Drought and CO₂ concentration in the atmosphere
 - Extreme events (hurricanes, storms)
 - Effects on diapause, number of generations, interaction with hosts
 - Ecosystems and hosts interactions (monoculture, biodiversity, natural enemies, etc.)



The IPPC Inter-relation with the High Level Conference

– Examples in the document:

- More areas vulnerable to introduction of corn root worm (*Diabrotica* spp.)
- High potential of fruit fly spread in new temperate areas
- Changes in Mountain pine beetle (*Dendroctonus ponderosae*) winter mortality





The IPPC Inter-relation with the High Level Conference

- Potential examples related to food security in the document:
 - Reduction of availability of quantities and quality of food
 - Effect of plant pests in new areas can affect food availability as well as feed for animal production
 - High volatility of production due to climate change and new pests
 - Indirect effects due to reduced access to international trade because new favourable areas to pests



Future possible IPPC activities on the issues of the Conference

- Pest risk analysis and climate change – is there a need to adapt?
- The role of vectors
- IPPC relation with food safety:
 - phytosanitary treatments – residues
 - control of pests (fungi) that could cause micotoxins



**Inter relation matter
IPPC – Food Security – Climate
Change – National, Regional and
international approach**

**Is there a need for actions in the
IPPC framework?**

