



الاتفاقية الدولية
لوقاية النباتات

国际植物
保护公约

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Protection Convention

Convention internationale
pour la protection des végétaux

Международная конвенция по
карантину и защите растений

Convención Internacional
de Protección Fitosanitaria



IPPC High-level Symposium on Cooperation of Phytosanitary Measures among the Chinese Initiative “One Belt” Countries

Xi'an, Shaanxi, China, from 27-to 30 May 2019

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Jordan



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Lay out of presentation

- Background on the country
- Imports and Exports
- Our NPPO
 - Organization
 - Responsibilities
 - Legal frame work
 - sisters
- Pests under Surveillance
- Cases of noncompliance
- Challenges and Opportunities



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- Jordan is one of the Middle Eastern countries situated between the lines 29°11' to 33° 22' north, and 34° 19' to 39° 18' east.
- The area is about 90,000 square kilometres the majority of it is desert lands (75%).
- The population according to the last census is about 10 million inhabitants of which 6 millions are Jordanians (others are mainly Syrian Refugees)



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The country is divided into the following nine bioclimatic Mediterranean zones (Figure 1):

- 1. Dry sub-humid Mediterranean.
- 2. Semi-arid Mediterranean, warm.
- 3. Semi-arid Mediterranean, cool.
- 4. Arid Mediterranean, cool.
- 5. Arid Mediterranean, warm
- 6. Arid Mediterranean, very warm
- 7. Saharan Mediterranean, cool very arid areas.
- 8. Saharan Mediterranean, warm: very arid strip or belt of land

Agricultural lands consist only about 3% of the total land areas, the most fertile are in the Jordan valley and high lands



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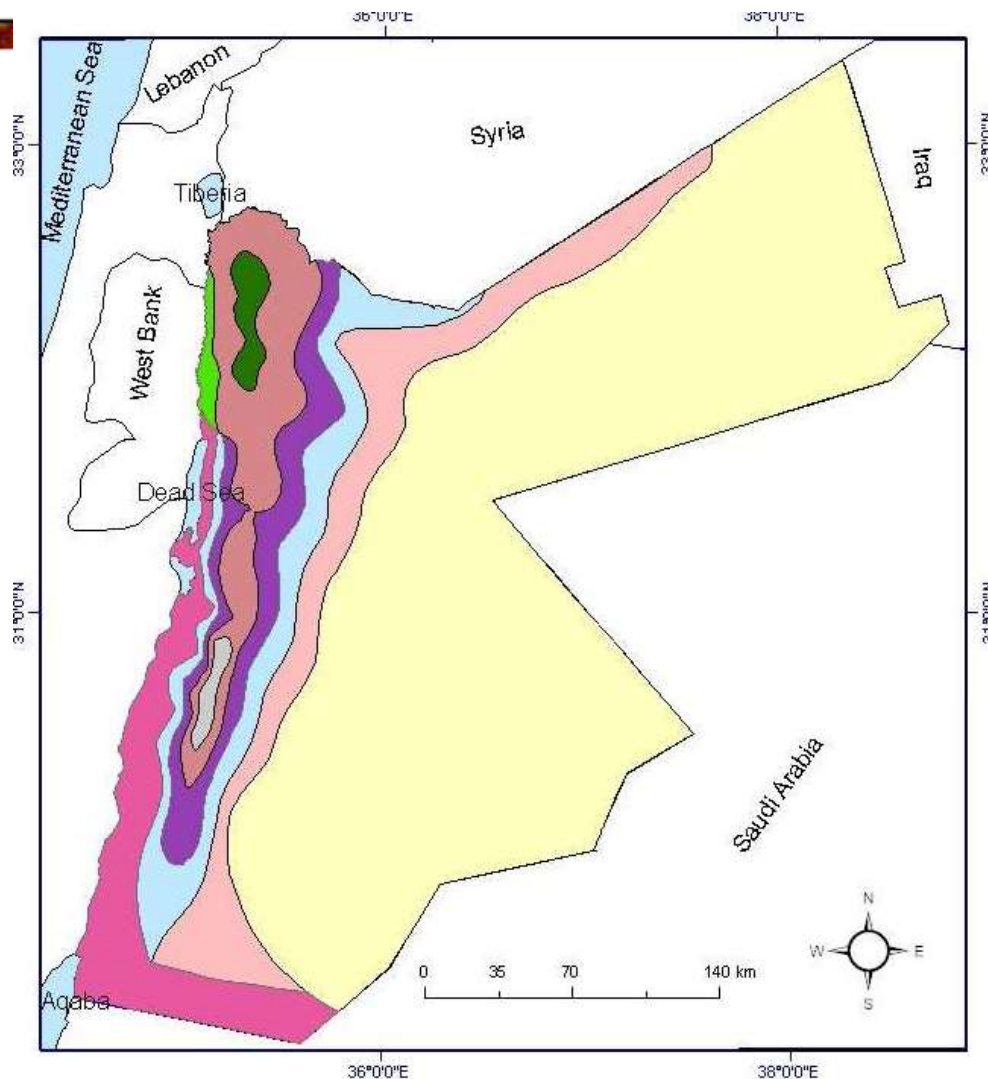
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Bioclimatic zone

- | | | |
|-------------------------------|----------------------------------|--|
| Arid Mediterranean, cool | Saharan Mediterranean, very warm | Semi-arid mediterranean, warm |
| Arid Mediterranean, warm | Saharan Mediterranean, cool | Sub-humid Mediterranean, warm and cool |
| Arid Mediterranean, very warm | Semi-arid mediterranean, cool | |



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- Jordan imports annually 107,000 tons of about 55 kind fruits from 45 different countries.
- Jordan Imports all kinds of grains for food and feed
- Jordan annually exports 32 kinds of fruits to 38 countries.
- Jordan exports of vegetables are about 550000 tons annually where more than 75% of it are Tomatoes, cucumber and peppers
- Jordan produces more than 16500 tones of high quality Dates (400000 trees) in which 90% are for export (no phytosanitary problems).
- Jordan used to export a value of 120 M Euros of stone fruits (fruit flies is a challenge)



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Jordanian NPPO

Directorate of Plant Protection and phytosanitary(MOA)

- Consists of the following Sections

- Pest control section
- Pesticide registration section
- Pesticide monitoring and control section
- Pest risk analysis section
- Phytosanitary section

Total employees beside the Head are 10

Plant protection officers (regional basis) are about 50

Border inspectors are about 40



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Responsibilities

- Desert locust monitoring and control
- Pesticide registration and pesticide control and usage monitoring
- Phytosanitary responsibilities which includes carrying the responsibilities underlined by the IPPC as a contracting party
- Control of uprising pests in cooperation with the regional agriculture directorates
- Registration of biopesticides and bioagents and recently semiochemicals like insect pheromones.



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- The director of our NPPO is contact point for the IPPC, NEPPO and EPPO.
- Our NPPO besides a CP to IPPC is a member of the
- European and Mediterranean plant protection organization (EPPO)
- Near east and north Africa plant protection organization (NEPPO)



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Legal frame work

The Jordanian NPPO is legal to action to execute its responsibilities from the Jordanian Agricultural Law no. (13) 2015, the phytosanitary frame work and responsibilities are covered by the Instructions for plant quarantine(Z/19) for the year 2016 and instructions for Phytosanitary measures (Z/4) for the year 2014.



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NPPO Sisters

- Plant Production directorate
- Directorate of licensing and border centres
- Agricultural Marketing directorate
- Plant wealth laboratories directorate
 - Pesticide residue lab
 - Pesticide formulation
 - Phytosanitary lab



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Committees under supervision of NPPO

- Pesticide Committee
- Phytosanitary committee (Instructions for plant quarantine(Z/19))
 - Plant production directorate
 - Head of Phytosanitary lab
 - Directorate of licensing and border centres
 - National Agricultural research Centre (NCAR)
 - The Jordan Exporters and Producers Association for Fruit and Vegetables (JEPA)
 - Jordan Agricultural engineers association
 - 2 scholars from University of Jordan
- Biopesticide committee



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Pests under Surveillance

- Desert locust.
- Peach fruit fly like *Bactrocera zonata* and *Bactrocera latifrons*.
- Fall army worm *Spodoptera frugiperda* as an emerging pest in the area is surveyed by a set of pheromon traps distributed along the southern borders and in the most danger areas.
- Red palm weevil.
- *Fusarium oxysporum* TOR 4 (NCAR, present)
- Citrus Trestiza virus (NCAR and JU, not present)
- The Bacterium *Xylella fastidiosa* (NCAR, not present)
- Possible insect vectors of *Xylella fastidiosa* (UJ, present)



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Phytosanitary measures for fruit flies

- Pest Free Areas
- Phytosanitary treatments
 - Vapour Heat treatment
 - Cold treatment
 - We certified phytosanitary treatment facilities in the following countries
 - Egypt about 15 facilities (citrus, mango, guava) cold and VHT.
 - Sudan 2 facilities (mango), VHT.
 - Saudi Arabia one facility (mango), VHT.
 - Yemen one facility (mango), VHT.



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Cases of noncompliance

- Fruit fly *Bactrocera dorsals* from Sudan in mango.
- mealy bugs on bananas from also Sudan
- Onion Yellow dwarf virus in garlic from China and Spain.
- Citrus Tristeza virus in Citrus plants from Palestine .
- Potato Golden cyst nematode *Glopedrea spp.* from Lebanon
- longhorn beetles larvae in fire wood from Ukraine.



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Challenges

- Legal frame work need to addressed in an advanced way to be harmonized with the IPPC and SPS agreements (Need PCE)
- Lack of adequate and trained personal (China can Help).
- Higher education in phytosanitary and plant quarantine (China can help).
- Implementation of ISPMs (IPPC (IC), EPPO can help)
- Cooperation with customs authority (China example can be adopted).
- Phytosanitary Certificate fraudulent (????).
- ISPM 15 Stamp fraudulent(???)
- Pest challenges like FAM , *Xylella fastidiosa* and silverleaf nightshade *Solanum elaeagnifolium* (Other countries experiences, FAO and EU can be very helpful)



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Opportunities

- IPPC can help in PCE
- Since Jordan is a member of EPPO and NEPPO regional cooperation is a great opportunity to help in capacity development of our phytosanitary system
- China one belt one road initiative can help in
 - Training
 - Higher Education
 - Phytosanitary technical issues.
 - Potato seed production and certification

Thank you for Kind
Listening