



SAFE CROP PROTECTION
CHIN-9-28/9/2011
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The Hashemite Kingdom of Jordan
MINISTRY OF AGRECULTURE

JORDAN

Jordan is situated in the middle-east region. It is border from the north Syria. from the South Saudi -Arabia from the East Iraq and from the west Palestine. The capital Amman.



Population in Jordan was estimated in 2010 about 6.4 million, 40% of the labour force is employed in agriculture.

25% working in industry and trade sector , 35% working in services sector.

Population density is 50 person per square kilometer. The growth rate is 3.7

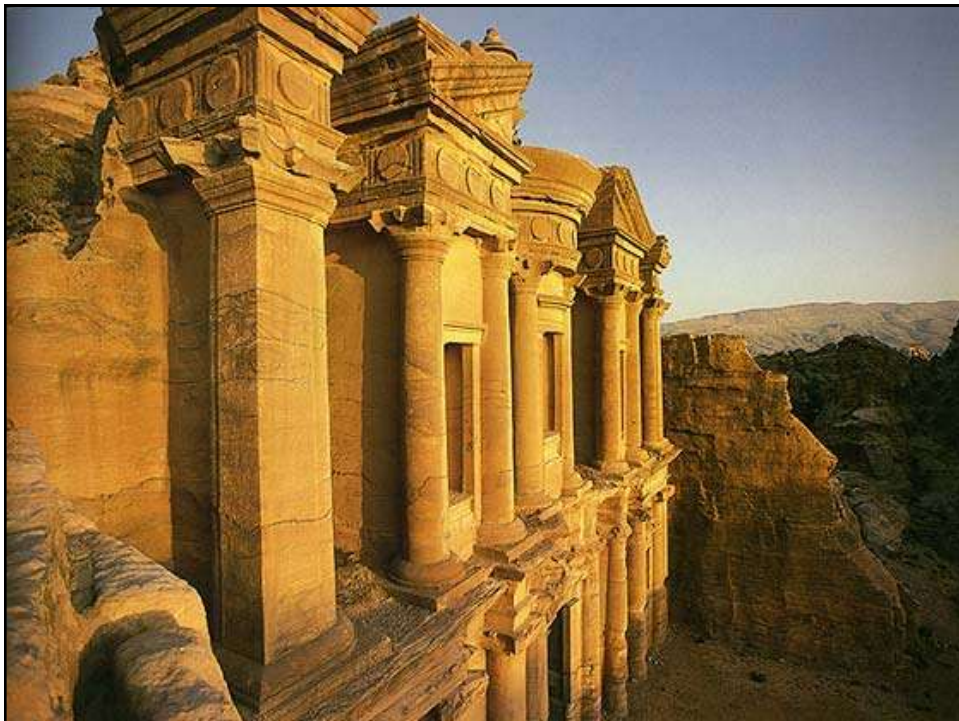
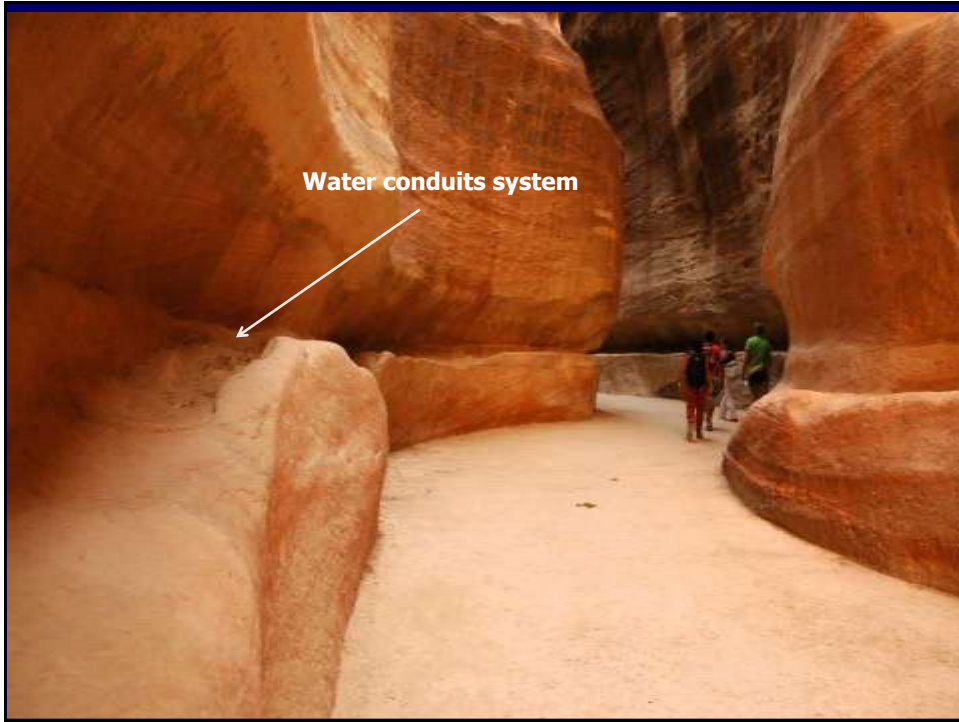
Agriculture sector in Jordan

The main natural resources are (Land, water and human).

Jordan is a country with a very **limited lands and water** , The total area is about 9 million hectare 10% of this area is suitable to plating which equal 0.9 million hectare. Only 0.4 of this area are being cultivated. We can divided this land into four environmental agricultural regions in addition to Al Ghor (Jordan valley) and semi Ghor and these regions are:

	Region	Average of rainfall	Total area mh
A)	Desert	Below 200 mm/y	8.2
b)	Arid	200-300 mm/y	0.53
c)	Semi arid	300-400 mm/y	0.17
d)	Semi wet	> 400 mm/y	0.1





The Dead Sea is popular with tourists from all over the world for its reputed therapeutic effects. The water of the Dead Sea has ten times the salt content of other sea water and is consequently substantially denser. This allows anyone to easily float on Dead Sea water because of its greater density. Its mineral composition is also different from ocean water since only 12-18% of Dead Sea salt is sodium chloride



The role of the Directorate of Plant Protection in the fight against agricultural pests.

Tasks and projects

Preparation

Head Section of Plant Protection

Eng- Faisal Bani Hani

Staff working in the field of plant protection

- Technical staff working in the field of plant protection is divided into several categories, namely

1- Staff working with the Ministry of Agriculture

- * Plant protection specialists are working as supervisors, managers and department heads .
- * Technicians working in laboratories and plant quarantines at border crossings .
- * Extension agents working in the field and at the Directorate of Agricultural Extension .
- * Field technicians trained and skilled .
- * Researchers at the National Center for Agricultural Research and Technology Transfer

2- Staff working with the various Jordanian universities, where the number of Jordanian universities that teach agriculture and specialty plant protection four universities, three government and one private, and graduated from these universities are not good numbers of specialists to the prevention of plant.

3 . Staff working in the private sector, and engaged in marketing of agricultural products, pesticides and plant protection through their work and also agricultural extension in the field of Plant Protection, with a number of companies registered and operating in the field of pesticides (300 companies) , as well as a local factories produce agricultural pesticides and number (11) Factory , and all these companies and factories employ specialized employed in the field of plant protection , according to Jordanian-law .

Laboratories working in the field of plant protection:

- * Laboratory analysis of pesticide residues, and it works on both constantly sampling of local agricultural products or imported and analyzed to determine the presence of pesticide residues.
- ** Plant Health Lab and follow the Directorate of Plant Resources Laboratory / Ministry of Agriculture, and working on the diagnosis of pests, both domestic and imported samples.
- *** Laboratory analysis of pesticides, and works to control the quality of local products of pesticides and insecticides as well as imported and the extent of compliance with the local and global.
- **** Plant Protection of the National Center for Agricultural Research and Extension and works to carry out experiments on plant protection and, if necessary, samples are sent for the diagnosis of their lesions.

Functions of the Directorate of Plant Protection:

- ✓ **1-** Setup instructions governing the production, import and export and the registration and trading of agricultural pesticides and treatments and follow up their implementation and provide documentation of relevant information .
- 2-** Setup instructions governing the operations of quarantine on plant products imported and exported by transit and pedestrians, and follow up their , implementation .
- 3-** Preparation of plans and operational programs to monitor diseases and plant pests and epidemic prevention and control, including the Desert Locust and follow-up implementation

- **4- Participation to the implementation and follow-up activities related to the environmental functions of the Directorate .**
- **5- Organizing campaigns, collective control of agricultural pests epidemiological and supervise their implementation.**
- **6- Propose research and studies related to the plant protection with the relevant authorities.**
- **7- Propose policies related to plant protection and cooperation with regional and international organization
Implementation of projects related to plant protection .**
- **8- Preparation of annual work plan and budget for the Directorate.**

Pest control strategy in Jordan:

Adopted by the Ministry of Agriculture of Jordan's strategy of IPM in the last twenty years because of their importance in pest control of various scientific methods and modern methods of environmentally safe, in order to reduce the use of agricultural pesticides as possible, and provide a product high quality and free of pesticide residues for both consumer local, Arab consumers or foreign, which are exported a lot of Jordanian agricultural products to many domestic and foreign markets, there are many examples that have been applied in Jordan and the proven success contributed to the pest control and maintain the natural balance without damage to the environment, and implement these tasks through the following sections

- **Department of Plant Pest and Plant Protection.** -
- **Pesticide Registration Section-**
- **Department of quarantine.-**

- Department of quarantine There is also a detailed annual plan of the Directorate of Plant Protection are placed annually to include all the projects implemented through the Directorate and work programs in the district, and after it has been discussed and adopted to be implemented through cooperation with various departments of Agriculture