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International
Plant Protection
Convention



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Convention



INTERNATIONAL YEAR OF
PLANT HEALTH

2020

Dr. Thaer Yaseen

Plant Protection Officer

Food and Agriculture Organization of the United Nations (FAO)

**Plant protection activities in
NENA Region
and the International Year of
Plant Health
IYPH**

PROTECTING PLANTS,
PROTECTING LIFE





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VIDEO

- https://www.youtube.com/watch?v=cmPAwiIK2BU&feature=share&fbclid=IwAR11c4fPpIsxszaNwPY_8HRBWkKFyZtuA2N-Z_XrhStzDIfSMHydx1QGmys



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TCP/RAB/3601

Regional



Strengthening preventive measures for the introduction and spread of *Xylella fastidiosa*– Olive Quick Decline Syndrome in NENA countries:

- Six Trainings of Trainers (ToTs)
- 3.858 participants, including 942 women
-
- Training for the use of XYLAPP and relative Xylella DataBase in NENA countries

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Beirut, 2nd July 2018



A MINIMUM OF 1 LAMP DEVICE AND 10 LAMP KITS , HAVE BEEN PROVIDED FOR EACH COUNTRY;



START THE APP



Sample cutting 4-5 olive leaf peduncle
Or transfer the insect from 95% alcohol tube to filter paper, leave them to dry for 5 minutes.



Insert the tube in icgene



Run the amplification



Add 22,5ul of LAMP master mix to each primer mix tube + 30ul of mineral oil + 2,5ul of the extracted DNA of the first step



Run the extraction procedure



Results



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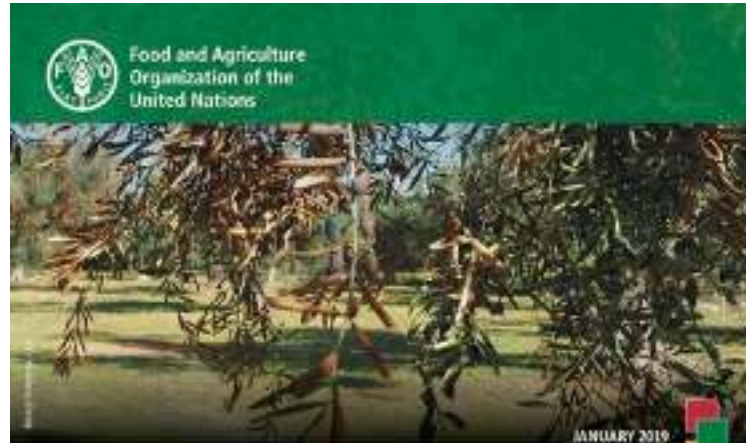
- A DEDICATED XYLWEB SOFTWARE AND FOR EACH COUNTRY;
- A DEDICATED VERSION OF XYLAPP WITH A MINIMUM OF 2 TABLETS HAVE BEEN PROVIDED FOR EACH COUNTRY;
- SEVERAL COUNTRIES BUY THE SERVAL LAMP DEVICE TO ENFORCE QUARANTINE SERVICE FOR THE DETECTION OF *X. FASTIDIOSA*.



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DEVELOPING CAPACITY IN THE NEAR EAST AND NORTH AFRICA REGION TO PREVENT THE INTRODUCTION AND SPREAD OF *XYLELLA FASTIDIOSA*

The occurrence of Olive Quick Decline Syndrome (OQDS) in the region of Apulia (southern Italy) poses a serious threat to olive production in the Mediterranean countries, where favourable climatic conditions and the abundant presence of the pathogen's insect vectors would foster the epidemic spread of the disease.

Infected olive plants may develop symptoms only after a long incubation period of 2 to 12 months or more. Once infected, the olive trees gradually die.

Based on pest risk assessments, plants for planting are considered the most likely means of long-distance spread. Thus, the risk for Near East and North Africa (NENA) countries arises in relation to the exchange of plants for planting material. As such, it is necessary to strengthen the phytosanitary measures enforced in the region and to adopt harmonized surveillance programmes.

All NENA countries are characterised by climatic and epidemiological conditions (presence of susceptible hosts, xylem feeders potentially acting

as vectors) favourable to the spread and establishment of the pathogen. Against this backdrop, it must be recalled that the olive production and olive oil sector is one of the most important sources of income and food security for thousands of farmers in the region.

To face this challenge, FAO launched a Regional Technical Cooperation Project to support NENA countries in their efforts to enforce preventive measures against the introduction and spread of *Xylella fastidiosa* and OQDS in their territories.

THE RESPONSE

FAO provided technical assistance to Algeria, Egypt, the Gaza Strip, Lebanon, Libya, Morocco, Tunisia and the West Bank to prevent the spread of the disease and save the livelihoods and income of growers of olive trees, a vital sector potential food security, as well as national economies.

FAO assisted the NEMA countries in establishing harmonized surveillance systems regionally, enforcing and consolidating risk assessment efforts, setting standards, strengthening their phytosanitary measures, improving their capacities to detect, diagnose and eradicate their management practices.

FOOD CROWN CRISIS | EARLY WARNING PREVENTION SYSTEM | INFORMATION SHEET



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منظمة
الأغذية والزراعة
للأمم المتحدة



بناء القدرات في منطقة الشرق الأدنى وشمال أفريقيا لمنع دخول وانتشار بكتريا زيليللا فاستيديوزا

تسبب ظهور ظاهرة التدهور السريع للزيتون في إقليم يونان (جنوب إيطاليا) في العديد من دول إنتاج الزيتون في بلدان البحر الأبيض المتوسط حيث تلحق الظروف المناخية المواتية على انتشار المرض وبشكل وبائي. هذا بالإضافة إلى وجود عدد وفير من الحشرات الناقلة لبكتريا زيليللا فاستيديوزا. وقد أظهرت أبحاث المرض على الزيتون بعد مرور ثمانية أعوام بين ٧ إلى ١٢ شهراً أو أقل فاصت أضرار الزيتون تدريجياً بعد إصابته.

ويخشى من تدهور مناطق الإنتاج أن نباتات الزيتون هي الوسيلة الأرجح لانتشار المرض عبر المسافات البعيدة وبسرعة الحدوث السياسية. وهكذا يظهر التهديد لبلدان منطقة الشرق الأدنى وشمال أفريقيا مرتبطة بتبادل النباتات المصابة الممرات التجارية والزيتون. وبالتالي، فهذه ظروفنا لتعزيز تدابير الصحة النباتية لضمان بقاء المنطقة واقتصاد بلدها مراقبة على نحو مستمر.

وتعبر جميع بلدان منطقة الشرق الأدنى وشمال أفريقيا بطرق مائية وبيئية مواتية لاستيطان وانتشار هذا المسبب المرضي. إنفاذ نباتات عائلة على نطاق جغرافي واسع، وتواجد العديد من الحشرات التي تنقل على سفاري أشجار العشب والعمل كحواجز للسرقة، وفي المقابل، لا يمكن أن يمنع إنتاج الزيتون وزيت الزيتون من أهم مصادر الدخل والأمن الغذائي لألاف المزارعين في المنطقة.

وبالتالي، هذا التحدي، لذلك مشروعنا إقليمي لتعاون التي تدعم بلدان منطقة الشرق الأدنى وشمال أفريقيا في جهودها لتعزيز التدابير الاحترازية من أجل التصدي لدخول وانتشار بكتريا زيليللا فاستيديوزا ومنع أزمة التدهور السريع للزيتون على أراضيها.

الاستجابة

قامت الدوا المساعدة الفنية لكل من الجزائر ومصر وسنغال وليبيا والمغرب وتونس وفلسطين والعربية لمنع انتشار المرض وإزالة مزارع العشب المصابة بأضرار الزيتون وتوجيه مزارع البساتين المصابة الأخرى. وكذلك إطلاق الاقتصاد الوطني من الحشرات المصابة.

كما ساهمت الدوا في بلدان منطقة الشرق الأدنى وشمال أفريقيا في وضع نظم مراقبة مستمرة على مستوى الإقليمي، مع تعزيز وتشجيع جهود الاتحاد للمنطقة بالمخاطر من البلدان، وتعزيز درجة التأهب ورفع القدرات بشأن تشخيص الأمراض وتحسين إجراءات المكافحة.

أرقام التكلفة المقدرة | نظام الإنذار المبكر | إدارة المعلومات

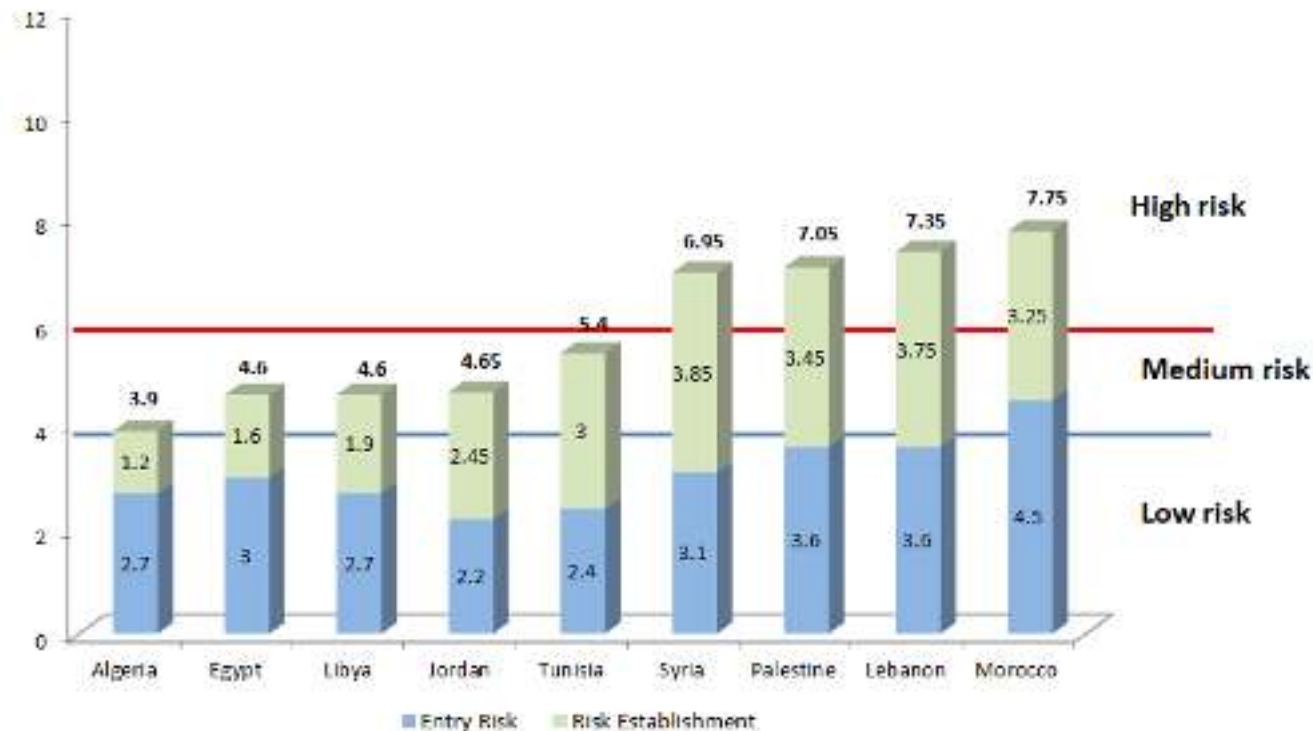


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LOA WITH CIHEAM



Assessment of the risk of *X. fastidiosa* introduction on the main crops (olive, grapevine, citrus, stone fruits and ornamental plants) in target NENA countries (Algeria, Egypt, Jordan, Lebanon, Libya, Morocco, Palestine, Syria, Tunisia)



Graphic representation of the risk assessment of entry and establishment of *Xylella fastidiosa* in NENA countries.

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GCP/RNE/012/MUL

Regional Program for Red Palm Weevil Management

**Near East and North Africa
Region**

Dr. Thaer Yaseen
Regional Officer - Plant Protection (FAO)



Food and Agriculture Organization
of the United Nations



20 million USD budget
is required to implement such a huge
program in the Region



2.1 million USD
are currently allocated to the project



2 million USD
from the Kingdom of Saudi Arabia



0.1 million USD
USD from the Sultanate of Oman

Regional Program for Red Palm Weevil Management - Near East and North Africa Region

Main elements of the project



Research



Capacity building



Knowledge and
technology transfer



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Donor meeting GCP/RNE/012/MUL

Regional



Additional fud from the donors:

- 2 million USD from UAE
- 0.25 million USD from Libya
- 0.1 million USD fom AOAD
- 4 schoularships from CIHEAM



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TCP/JOR/3705/C3

Jordan



Support to the assessment and control
of Red Palm Weevil in Jordan

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TCP/IRQ/3602

Iraq



Technical support for surveillance and
management of Red Palm Weevil
Rhyncophorus ferrugineus in Iraq.



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TCP/SNE/3601

Maghreb countries



**Exchange results of RPW strategies and
action plans among the Maghreb
countries and reinforce capacities of
stakeholders**

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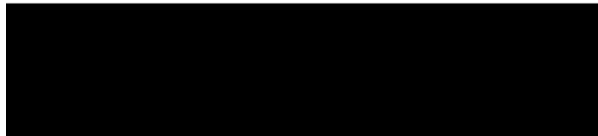


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New Projects

Regional

Syria



Iraq



الله أكبر



**Strengthening Control of Transboundary
Animal and Plant pests and diseases through
improved Quarantine Services in Countries
Affected by Crises in
Iraq and Syria**

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Water Hyacinth

Regional



Regional training for Syria and Lebanon

RI FSN

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Marlin E. Rice

FALL ARMYWORM

Spodoptera frugiperda

Sustainable Management of the Fall Armyworm
will transalted to Arabic language

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Approaches to FAW management





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TCP/YEM/3701 (E)

Yemen

Emergency response to enhance technical capacity for early warning, monitoring and management of Fall Army Worm in Yemen



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TCP/RAB/3601

Sudan



Sudan 200.000 USD for traps and
pheromones

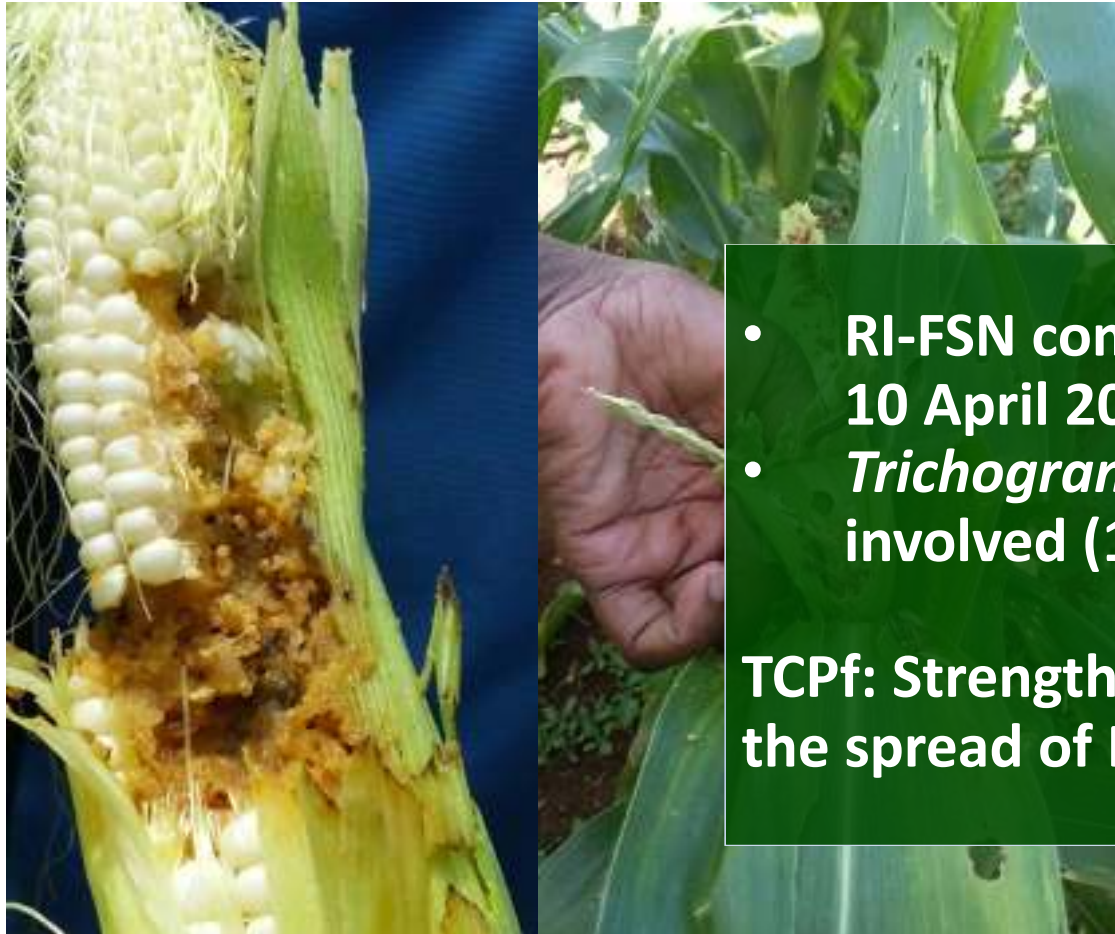
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TCP/RAB/3601

Egypt



- RI-FSN commit an urgent fund for a training in 9-10 April 2019.
- *Trichogramma* spp. producing units will be involved (18 factory private and public in Egypt)

TCPf: Strengthening national capacities to prevent the spread of Fall Army Worm in Egypt

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UTF/OMA/023/OMA

Oman



**DEVELOPMENT, PRODUCTION,
MULTIPLICATION AND DISSEMINATION
OF CERTIFIED CITRUS PROPAGATING
MATERIALS**

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UTF-LEB-028-LEB

Lebanon



Prevention of Agrochemical Pollution in the Upper Litani River Basin.

In June 2017, FAO started to implement a four-year project to promote the adoption of Integrated Crop Management (ICM) practices by farmers in the Upper Litani River Basin (UTF/LEB/028/LEB).

A new project proposal funded by Norwegian Ministry of Foreign Affairs (MFA) aims at scaling up the area of intervention of the ongoing FAO project to cover farmers in the caza of Baalbek which constitutes an important part of the Upper Litani Basin.

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TCP/MOR/3604

Maghreb
countries



Dactylopius opuntiae

Exchange results (IPM program) of
TCP/MOR/3604 among the Maghreb countries
to prevent the spread of the cochineal

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Green pit scale insect

LIBYA

EU/IOM fund

مزرعة السويبية / محلة نساوة -
بلدية وادي عتية
إحداثيات المزرعة
26°05'11.812"
13°29'20.745"



**Exchange Results of the Green pit scale insect
Programme in Libya and reinforce capacities in
the Maghreb region to prevent its spread**

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TCP/SUD/3606

SUDAN



**Support to improvement of the implementation of
sanitary and phytosanitary standards and norms for
livestock and crops in Sudan.**



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Obselute Pesticides

Lebanon



Request from Lebaon

To hold the training for MOA's staff for the management of the disposal of the 20 tons of pesticides at the expenses of the provider.

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Obselute Pesticides



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Obselute Pesticides



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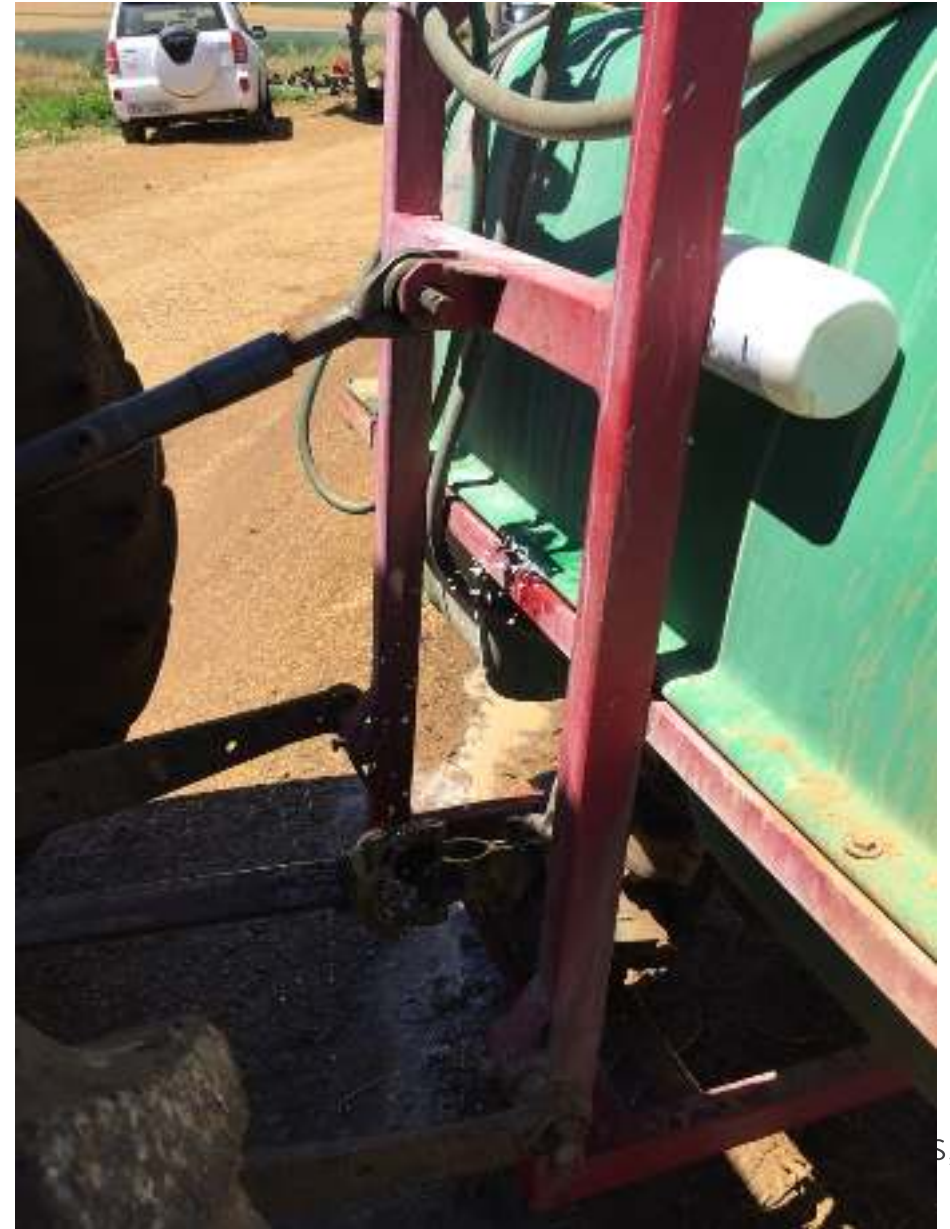
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The background image shows two scarab beetles in a field of dry, yellowish-brown grass. The beetle on the left is seen from the side, showing its orange-brown elytra with dark spots and a blue-black stripe. The beetle on the right is facing right, showing its head, long snout, and orange-brown body with dark spots. A semi-transparent green rectangle is centered over the image, containing the text 'THANK YOU' in white, bold, sans-serif capital letters. The text is framed by a thin white line.

**THANK
YOU**

Thaer.Yaseen@fao.org



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Contact us

IPPC Secretariat

Food and Agriculture Organization
of the United Nations (FAO)

Tel.: +39 06 57054812

Email: ippc@fao.org

Web:

www.ippc.int

www.fao.org/plant-health-2020



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Thaer Yaseen

31° Forum di Medicina Vegetale

Plant production activities in NENA Region

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