



RPPPO role and responsibility in response:

The European and Mediterranean Plant Protection Organization

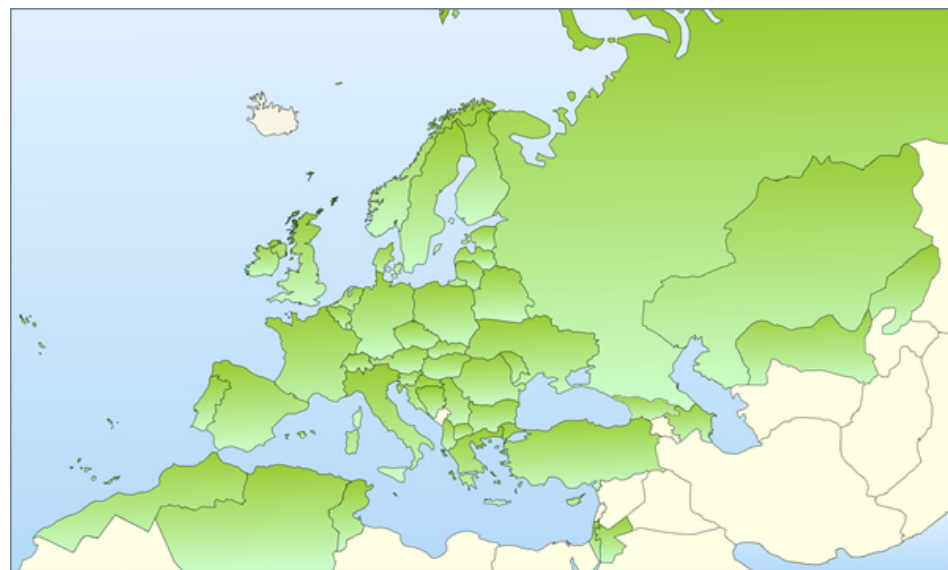


WEBINAR 3

EUROPEAN AND MEDITERRANEAN PLANT PROTECTION ORGANIZATION



- Intergovernmental Organization
- Created in 1951 by 15 countries (EPPO Convention)
- 52 member countries including 27 members of the European Union
- International cooperation in plant health
 - plant quarantine
 - plant protection products
- Works for and with National Plant Protection Organizations



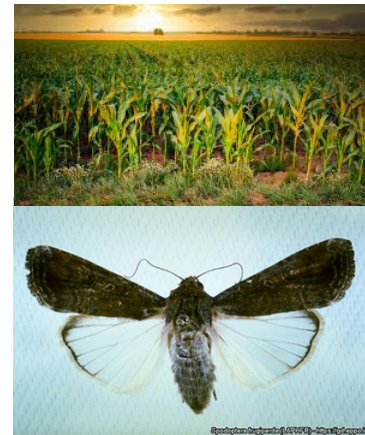
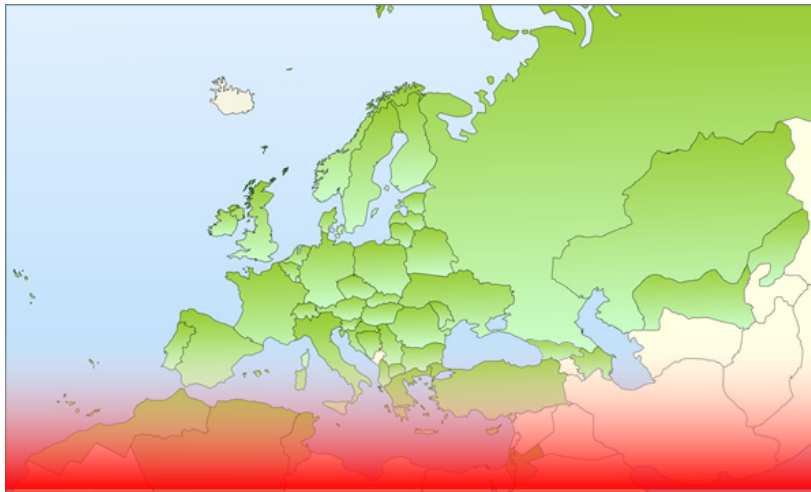
www.eppo.int



Fall Armyworm in Europe and EPPPO region




- In the EPPPO region, some areas are suitable for FAW establishment:
South of Spain, Portugal, Italy, Greece (EFSA, 2018), North Africa, Middle East...
- Up to four generations per year estimated
- Causing yield and quality losses in crops such as maize and rice
- Pathways: natural dispersal and/or traded commodities.



EPPO Provides Pest-specific Information: the EPPO Global Database








EPPO Global Database

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Spodoptera frugiperda (LAPHFR)



Code created in: 2002-10-29

MENU

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Overview

Basic information


- EPPO Code: LAPHFR
- Preferred name: *Spodoptera frugiperda*
- Authority: (Smith)

Other scientific names

Name	Authority
Laphygma frugiperda	(Smith)

Common names

Name	Language
<input type="text" value="Search..."/>	<div>- select -</div>
grass worm	English
southern grass worm	English
corn leaf worm	English (US)
fall armyworm	English (US)



more photos...

Taxonomy

- Kingdom: Animalia (1ANIMK)
- Phylum: Arthropoda (1ARTHP)
- Subphylum: Hexapoda (1HEXAQ)
- Class: Insecta (1INSEC)
- Order: Lepidoptera (1LEPIO)
- Family: Noctuidae (1NOCTF)
- Genus: *Spodoptera* (1SPODG)
- Species: *Spodoptera frugiperda* (LAPHFR)

EPPO informs countries on pest status in the region:



EPPO Reporting Service

- reports by NPPO
- stored in the EPPO Global Database
- advanced search tool allows making full-text searches
- free monthly newsletter



First FAW findings in the EPPO region

In 2019 - FAW in **Egypt** :

- ✓ Specific survey in Upper Egypt,
- ✓ 119 adult specimens in two locations (Kom Ombo, Edfo in Aswan)
- ✓ maize fields.

In June-July 2020 - FAW in **Israel**:

- ✓ Probably entered by natural spread from Egypt
- ✓ Maize fields - only minor damage observed
- ✓ Official control measures implemented:
insecticide treatments and surveys intensified.

In September 2020 - FAW in **Jordan**:

- ✓ Maize fields in a limited area.
- ✓ No significant damage reported so far.



EPPO informs countries on pest status in the region:

EPPO Reporting Service

First FAW findings in the EPPO region



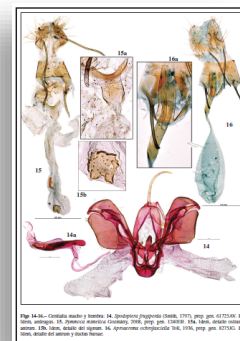
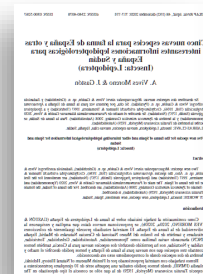
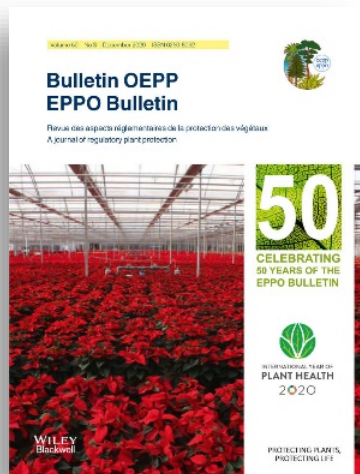
In December 2020 - FAW in **Syria** :

- ✓ 'First record of fall armyworm (*Spodoptera frugiperda*) in Syria'
- K. Heinoun¹, E. Muhammad¹, H. Abdullah Smadi¹, D. Annahhas¹ and R. Abou Kubaa²
EPPO Bulletin 51(1), 213-215.



In March 2021 - FAW in **Spain (Canary Islands)**

- ✓ Only in maize fields without causing damage to the plants. Under official control.



The EPPO Bulletin

EPPO recommends regulation:



FAW categorization in the EPPO region

PM 1/002(30) EPPO A1 and A2 Lists of pests recommended for regulation as quarantine pests (2021)

FAW is categorized as a pest in the EPPO A2 list

- pest present in the EPPO region
- recommended for regulation in EPPO countries

The EPPO Lists are reviewed every year by the Working Party on Phytosanitary Regulations and approved by the EPPO Council.

The EPPO Working Party PR in June 2021 agreed that S. frugiperda should be recommended for transfer from the EPPO A1 to the A2 List of pests recommended for regulation as quarantine pests. The EPPO Council approved.”



EPPO provides information on regulation:



Categorization

Country/Organization	List	Year addition
Egypt	A1 list	2018
Morocco	Quarantine pest	2018
Tunisia	Quarantine pest	2012
Israel	Quarantine pest	2009
Jordan	A1 list	2013
Kazakhstan	A1 list	2017
Uzbekistan	A1 list	2008
Georgia	A1 list	2018
Moldova	Quarantine pest	2017
Russia	A1 list	2014
Turkey	A1 list	2016
Ukraine	A1 list	2019
EAEU	A1 list	2016
EPPO	A2 list	1994
EU	A1 Quarantine pest (Annex II A)	2019
EU	Emergency measures	2018

EPPO provides information on regulation:



FAW categorization in European Union

The European Union included FAW in the list of EU quarantine pests.

- Commission Implementing Decision (EU) 2018/638 establishing emergency measures to prevent the introduction and spread.
- A number of temporary measures have been put into place in the EU, including:
 - compulsory detection surveys,
 - specific import requirements and
 - phytosanitary certificates for specific commodities.
 - adopt contingency plans



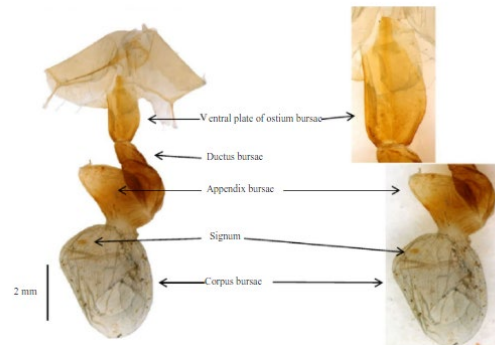
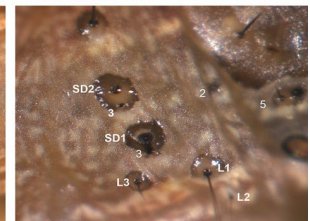
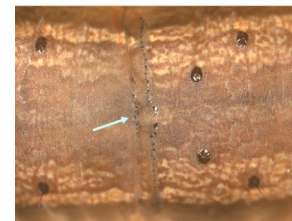
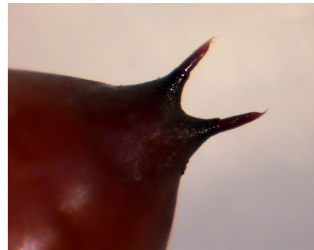
EPPO Prepares Standards



EPPO Diagnostic protocol (2015)

PM 7/124 (1) *Spodoptera littoralis*, *Spodoptera litura*, *Spodoptera frugiperda*, *Spodoptera eridania*

- Morphological identification and molecular methods



EPPO provides access to PRAs



- **EPPO Platform on PRAs** (including link to **EFSA PRA**, 2018)

The screenshot displays the EPPO Platform on PRAs website. At the top, there is a navigation bar with links: Home, Browse PRAs, Browse by type of pests, Useful links, and Download user guide. A search bar is located in the top right corner with a 'Go!' button and a 'Login' link. Below the navigation bar, the 'Advanced search' section is visible. It includes a 'Filter by' dropdown menu set to 'title or keywords' and a search input field containing 'spodoptera frugiperda'. There are buttons for 'Add filter' and 'Apply filters'. A note states: 'Please note that AND operator will be used for queries'. Below the search bar, the results are listed under the heading 'Search results - 7 item(s) found'. The first result is titled 'Assessment of Spodoptera frugiperda – likelihood of establishment and host plants relevant in surveys'. Under this title, there is a section 'Background and assignment' which states: 'Spodoptera frugiperda (J.E. Smith) (fall armyworm) is a moth native to the tropical and subtropical regions of the American continents (Luginbill, 1928). S. frugiperda has ...'. Below this, a red box highlights the 'EFSA Pest risk assessment of Spodoptera frugiperda for the European Union' section, which states: 'EFSA was asked for a partial risk assessment of Spodoptera frugiperda for the territory of the EU focussing on the main pathways for entry, factors affecting establishment, risk reduction options a...'. The final result is titled 'Forecasting the global extent of invasion of the cereal pest Spodoptera frugiperda, the fall armyworm', which states: 'Fall armyworm, Spodoptera frugiperda, is a crop pest native to the Americas, which has invaded and spread throughout sub-Saharan Africa within two years. Recent estimates of 20–50% maize yield loss...'.

EPPO supports awareness raising



Communication kits : Templates for pest specific posters and leaflets



All files can be easily modifiable and downloaded



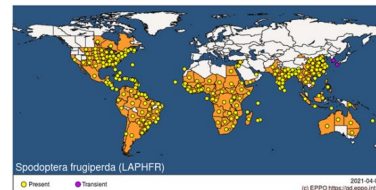
EPPO provides Special Alert



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EPPO

- EPPO Datasheet on *Spodoptera frugiperda* – NEW VERSION revised in 2020.
- EPPO Diagnostic protocol (PM 7/124, 2015)
- Geographical distribution of *Spodoptera frugiperda*
- Host plants of *Spodoptera frugiperda*
- EPPO Reporting Service articles on *Spodoptera frugiperda*
- EPPO Platform on PRAs (PRA documents on *Spodoptera frugiperda*)
- Pictures of *Spodoptera frugiperda*
- EPPO awareness raising poster (template)



European Commission and EFSA

- Emergency measures against *Spodoptera frugiperda* (Commission Implementing Decision (EU) 2018/638 of 23 April 2018)
- EFSA Pest categorization of *Spodoptera frugiperda* (2017)
- EFSA Pest risk assessment of *Spodoptera frugiperda* (2018)
- EFSA Pest survey card on *Spodoptera frugiperda* (2020)

FAO and IPPC

- IPPC Guidelines (2021): Prevention, preparedness and response guidelines for *Spodoptera frugiperda* – NEW
- Fall armyworm (FAO website dedicated to the pest)



Special Alert – Fall armyworm, *Spodoptera frugiperda*, found in the EPPO region

The fall armyworm, *Spodoptera frugiperda* (Lepidoptera: Noctuidae – EPPO A2 List), is a highly polyphagous pest originating from the tropical and subtropical areas of the Americas. *S. frugiperda* has recently invaded Africa, Asia and Oceania where it is causing severe economic losses more particularly on maize crops, and to a lesser extent on sugarcane, sorghum and other crops.



Courtesy: Marja van der Straten, Dutch NPPO



Courtesy: Boni B. Yarou



Courtesy: B.R. Wiseman - USDA/ARS, Tifton (US)

In the EPPO region, *S. frugiperda* was first found in Egypt in 2019. In August 2020, it was detected in a limited number of maize fields in Israel, and in September 2020, it was also found in maize fields in a limited area in Jordan. In July 2020, *S. frugiperda* was first found on maize in Canary Islands (Spain) where emergency measures are being applied. For the moment, no significant damage has been reported from Israel, Jordan and the Canary Islands (as of March 2021).

- Providing NPPOs with links to useful resources by EPPO and by other international bodies

https://www.eppo.int/ACTIVITIES/plant_quarantine/shortnotes_qps/fall_armyworm

EPPO facilitates networking for expertise and advice (also on request)



Contact us

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Find us online

www.eppo.int



www.eppo.int/ACTIVITIES/plant_quarantine/shortnotes_qps/fall_armyworm
www.ippc.int/en/the-global-action-for-fall-armyworm-control/