MORPHOLOGY AND BIOLOGY

The adult insect is a reddish-grey or orange colour which is highlighted by black spots.

It has transparent, iridescent wings and the lower part of its thorax is yellow. Its eggs are elongated and a white colour. The larva is apodous and a white colour. The pupa is elongated and a yellowish colour that darkens when it grows.

On average, two or three generations can be observed every year, depending on the climatic conditions. They usually overwinter at little depth underground in a pupal stage, although they can be found at all stages of growth.

© Marshall W Johnson

The adults of the first generation appear in March or April and spend some time feeding on sugary substances, such as the honeydew from some Homoptera, until they reach sexual maturity and begin to lay eggs. The females lay their eggs underneath the skin of the chosen olive. The olive should have an appropriate level of maturity and must not be occupied by another egg.

It is common for this insect to lay only one egg per olive.

After hatching, the larva feeds on the olive by excavating a small and torturous gallery. Once the larva has finished growing, it pupates inside the fruit near the skin.

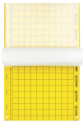
Flight activity of the olive fruit fly reaches its highest peaks in July and October. However, there is a greater increase in flight activity during October.

© Giancarlo Dessi

Bactrocera oleae larva

ECONEX BACTROCERA OLEAE

SOLUTIONS OVERVIEW

CODE	TRADE NAME	IMAGE
VA122	**ECONEX BACTROCERA OLEAE 20 MG 60 DAYS** Pheromone diffuser to attract the males of the olive fruit fly *Bactrocera oleae*, with a duration of 60 days.	
VA402	**ECONEX BACTROCERA OLEAE 30 MG 90 DAYS** Pheromone diffuser to attract the males of the olive fruit fly *Bactrocera oleae*, with a duration of 90 days.	
VA253	**DACUSNEX® COMBI 90 DAYS 1 UNIT** Diffuser consisting of 2 attractants: a food attractant and a pheromone attractant to capture the males and females of the *Bactrocera oleae*.	
VA334	**DACUSNEX® COMBI 90 DAYS 20 UNITS**	
TA125	**ECONEX YELLOW CHROMATIC 40 X 25 CM** Adhesive trap for the detection, monitoring and mass trapping of *Bactrocera oleae*.	

SANIDAD AGRÍCOLA ECONEX, S.L.
C/ Mayor, Nº 15 Bis · Edificio ECONEX · 30149 SISCAR-Santomera · Murcia (Spain, EU)
Tel. +34 968 86 03 82 / +34 968 86 40 88 · Fax +34 968 86 23 42 · **Customer Service: +34 900 502 401** www.e-econex.eu · e-mail: econex@e-econex.com

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ECONEX BACTROCERA OLEAE

www.bactroceraoleae.eu

Olive fruit fly

BIOCONTROL

© Alvesgaspar

ECONEX® PHEROMONES AND TRAPS Since 1986

35 1986-2021 Anniversary

ECONEX BACTROCERA OLEAE 20 MG 60 DAYS
ECONEX BACTROCERA OLEAE 30 MG 90 DAYS

Pheromone diffuser to attract the males of the olive fruit fly *Bactrocera oleae* + 1 hanger (paper clip). It last 60 and 90 days respectively, in field conditions.

ECONEX BACTROCERA OLEAE 20 MG 60 DAYS. Packaging, hanger and pheromone diffuser.

ECONEX BACTROCERA OLEAE 30 MG 90 DAYS. Packaging, hanger and pheromone diffuser.

The diffuser is a polyethylene tube that is individually packaged in an aluminium sachet with labelled specifications

Once removed from its packaging, **the diffuser needs no activation or opening**, just placed correctly in the trap.

The pheromone diffuser is used with an **ECONEX YELLOW CHROMATIC 40 X 25 CM,** so that the flies attracted by the diffuser are trapped on the adhesive of the trap.

Once the trap has been placed in the olive tree, hang the ECONEX BACTROCERA OLEAE 20 MG 60 DAYS or ECONEX BACTROCERA OLEAE 30 MG 90 DAYS diffuser from one of the holes on the trap. Use the hanger provided with the product.

DACUSNEX® COMBI 90 DAYS

Food attractant and pheromone attractant of *Bactrocera oleae* to capture the males and females of the olive fruit fly + 1 hanger (paper clip). It last 90 days in field conditions.

The diffuser is in a blister pack and individually packaged in an aluminium sachet with labelled specifications. It lasts 90 days in field conditions.

Once removed from its packaging, the diffuser needs no activation or opening, just placed correctly in the trap.

DACUSNEX® COMBI 90 DAYS 1 UNIT
Packaging, hanger and diffuser of attractants (front and back view).

DACUSNEX® COMBI 90 DAYS 20 UNITS

DACUSNEX® COMBI 90 DAYS is used with an **ECONEX YELLOW CHROMATIC 40 X 25 CM**, so that the flies attracted by the diffuser are trapped on the adhesive of the trap.

Once the trap has been placed in the olive tree, hang the DACUSNEX® COMBI 90 DAYS diffuser from one of the holes on the trap. Use the hanger provided with the product. **Do not place the metallic part in contact with the adhesive**

NECESSARY MATERIAL

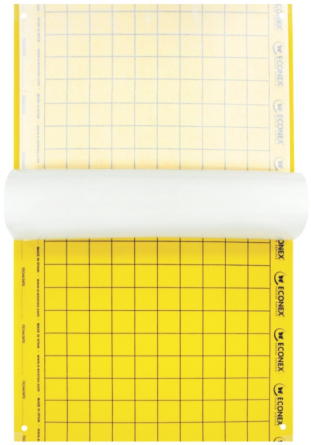
ECONEX YELLOW CHROMATIC 40 X 25 CM.

The ECONEX YELLOW CHROMATIC 40 X 25 CM is an adhesive trap consisting of a yellow polythene sheet resistant to sunlight and with a 2×2 black grid on both sides, which facilitates counting the captured insects.

The sheet is coated on both sides with a pressure-sensitive adhesive, without solvents, which is protected by sheets of translucent silicone paper.

A 1 cm margin is left free of the adhesive along the longest side on both sides of the sheet. This is to make handling the sheet easier.

It has a hole in each corner to make placing it easier.



ECONEX YELLOW CHROMATIC 40 X 25 CM

DETECTION AND MONITORING

Place **1 to 2 traps per hectare**, depending on the location and homogeneity of the plots. The traps should be placed on the south side of the olive trees at a height of 1.5 to 2 metres and 3 months before harvesting.

MASS TRAPPING

Place **10 to 20 traps per hectare**, depending on the location and homogeneity of the plots. One trap controls 500 to 1.000 m^2.

The traps should be placed as soon as there are captures and 3 months before harvesting. They should be placed on the south side of the olive trees at a height of 1.5 to 2 metres.

On the borders of the plots, it will be necessary to place a barrier of traps separated 10 to 15 metres from each other.

© M. González Núñez

Bactrocera oleae above an olive

PERIOD OF USE

To obtain a good level of control of the olive fruit fly it is advisable to combine two methods: detection and monitoring; and mass trapping.

At the beginning of summer, 1 trap per hectare should be placed for the detection of the pest and the observation of its population levels. Through tolerance thresholds established in each area, the moment to adopt control measures is later defined, in this case mass trapping.

The tolerance threshold for *Bactrocera oleae* is very low and depends on the area. In general, captures per trap and per day are between 1 and 5.

STORING THE DIFFUSERS

The diffusers must be stored in its original packaging without opening it in a cool and dry place.

To preserve the diffusers for long periods of time, it is recommended to keep them in the refrigerator at 4 ºC; or in the freezer at -20 ºC, in which case they will last for 2 and 4 years respectively.