

This short description was prepared in the framework of the EU FP7 project DROPSA - Strategies to develop effective, innovative and practical approaches to protect major European fruit crops from pests and pathogens (grant agreement no. 613678). This pest was listed in the DROPSA alert list for apple fruit.

Euzophera pyriella (Lepidoptera: Pyralidae)

Fruit pathway: larvae feed on skin, flesh and seeds of fruit, pupae may be in fruit (Biosecurity Australia 2010, citing others)

Other pathways: plants for planting; eggs on bark, larvae also bore into wood, pupae can also be in branches (Ma *et al.* 2014)

Hosts: Polyphagous, hosts incl. *Malus*, *Pyrus*, *Ziziphus*, *Prunus*, *Ficus carica* (Ma *et al.* 2014, citing references in Chinese). It is uncertain if *Malus* is really a host: there has been occasional reports on apple from China in just one article (Song *et al.* 2014, in Chinese). USDA (2014) assumed no regular impact on apples.

Distribution: Asia: China (Ma *et al.* 2014)

Damage: one of the most important insect pests in Xinjiang fragrant pear orchards with crop losses reaching 90% (Ma *et al.* 2014), may cause death of trees (ShiXing *et al.* 2011). This pest can kill host plants and is difficult to control (USDA 2014 citing Hou *et al.* 2011). While specific data are not available, additional control measures have been required in China in recent years in order to mitigate damage (USDA 2014 citing Sun and Wang 2010).

Other information: listed by USDA and Biosecurity Australia as a pest of quarantine significance in a PRA for apple from China (USDA 2014, Biosecurity Australia 2010).

Impact: High (on another crop)	Intercepted: Not known	Spreading/invasive: Not known
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References:

- Biosecurity Australia 2010. Final import risk analysis report for fresh apple fruit from the People's Republic of China. Department of Agriculture, Fisheries and Forestry, Canberra, 370 p.
- Ma T, Li Y, Sun Z, Wen X 2014. (Z, E)-9, 12-Tetradecadien-1-Ol: a major sex pheromone component of *Euzophera pyriella* (Lepidoptera: Pyralididae) in Xinjiang, China. *Florida Entomologist* 97(2): 496-503.
- USDA 2014. Importation of apples (*Malus pumila*) from China into the Continental United States - A Qualitative, Pathway-Initiated Pest Risk Assessment. United States Department of Agriculture, Animal and Plant Health Inspection Service, Plant Protection and Quarantine, 293 p.
- Song MJ, Zhou NL, Zai YD, Zhang X (1994) A preliminary study on *Euzophera pyriella* Yang. *Plant Protection* 20, 13-15
- ShiXing H, Junbao HSW, Hua P 2011. Research Progress of *Euzophera pyriella*. *Scientia Silvae Sinicae* 9: 148-152.