

◆ EPPO Standards ◆

PHYTOSANITARY PROCEDURES

FUMIGATION OF COTTON AND
COTTON PRODUCTS TO CONTROL
ANTHONOMUS GRANDIS

PM 3/47(1) English



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APPROVAL

EPPO Standards are approved by EPPO Council. The date of approval appears in each individual standard.

REVIEW

EPPO Standards are subject to periodic review and amendment. The next review date for this set of EPPO Standards is decided by the EPPO Working Party on Phytosanitary Regulations.

AMENDMENT RECORD

Amendments will be issued as necessary, numbered and dated. The dates of amendment appear in each individual standard (as appropriate).

DISTRIBUTION

EPPO Standards are distributed by the EPPO Secretariat to all EPPO member governments. Copies are available to any interested person under particular conditions upon request to the EPPO Secretariat.

SCOPE

EPPO Phytosanitary Procedures are intended to be used by National Plant Protection Organizations, in their capacity as bodies responsible for the inspection, testing and treatment of plants and plant products moving in trade, or for the implementation of surveys against quarantine pests.

REFERENCES

OEPP/EPPO (1996) Glossary of Phytosanitary Terms. *EPPO Technical Documents* no. 1026.

CABI/EPPO (1997) Quarantine Pests for Europe, 2nd edition (Ed. by Smith, I.M.; McNamara, D.G.; Scott, P.R.; Holderness, M.), CAB International, Wallingford, UK.

OEPP/EPPO (in preparation) Specific Quarantine Requirements. Available as electronic documents from the EPPO Web Site.

DEFINITIONS

Phytosanitary procedure: Any officially prescribed method for performing inspections, tests, surveys or treatments in connection with plant quarantine.

Inspection: Official visual examination of plants, plant products or other regulated articles to determine if pests are present and/or to determine compliance with phytosanitary regulations.

Survey: An official procedure conducted over a defined period of time to determine the characteristics of a pest population or to determine which species occur in an area.

Test: Official examination, other than visual, to determine if pests are present or to identify pests.

Treatment: An officially authorized procedure for the killing, removal or rendering infertile of pests.

OUTLINE OF REQUIREMENTS

EPPO Phytosanitary Procedures describe the methods to be followed for performing inspections, tests, or treatments of commodities moving in trade, or surveys against quarantine pests. For many quarantine pests, a reference to the relevant EPPO Phytosanitary Procedure is made in the corresponding EPPO Specific Quarantine Requirements. The development of EPPO phytosanitary procedures started many years ago, and these methods have been published in the Bulletin OEPP/EPPO Bulletin under several titles: 'Fumigation standards', 'Quarantine Inspection Procedures' and 'Quarantine Procedures'. All of them are now appearing under the title 'EPPO Phytosanitary Procedures' and are being edited into EPPO Standard format. The numbering of these procedures will continue to follow the sequence described in the Bulletin OEPP/EPPO Bulletin 20(2), 229-233, which corresponds approximately to the chronological order of appearance of the Phytosanitary Procedures.

Phytosanitary procedure

FUMIGATION OF COTTON AND COTTON PRODUCTS TO CONTROL *ANTHONOMUS GRANDIS*

Specific scope

This standard describes the fumigation of cotton and cotton products to control *Anthonomus grandis*, to satisfy the requirements of EPPO Standard PM 2/34(1).

Specific approval and amendment

First approved in September 1993
Edited as EPPO Standard in 1998.

Commodities: raw lint of cotton (*Gossypium* spp.), waste fabric, waste cotton, cotton seed cake, meal, bags that have been used as a container for lint or any form of unmanufactured cotton.

Pest: cotton boll weevil, *Anthonomus grandis*.

1. Methyl bromide fumigation at atmospheric pressure

Temperature	Initial dosage	Exposure time	CTP (g h m ⁻³)
4.5-9.5°C	96 g m ⁻³	8 h	466
10-12.5°C	80 g m ⁻³	4 h	248
13-15°C	80 g m ⁻³	3 h	176
15.5-20.5°C	64 g m ⁻³	3 h	133
21-26°C	64 g m ⁻³	3 h	91
26.5-31.5°C	48 g m ⁻³	2 h	69
> 32°C	40 g m ⁻³	2 h	55

2. Fumigation at atmospheric pressure with phosphine (generated from aluminium or magnesium phosphide preparations)

Temperature	Initial dosage	Exposure time
> 10°C	1.3 g m ⁻³	72 h

Reference

FAO (1983) *International Plant Quarantine Treatment Manual*, p. 143. FAO, Roma (IT).