

PD ISO/TS 11356:2011



BSI Standards Publication

Crop protection equipment — Traceability — Spray parameter recording

bsi.

...making excellence a habit.
AVA Documents™
Document Sharing Hub

National foreword

This Published Document is the UK implementation of ISO/TS 11356:2011.

The UK participation in its preparation was entrusted to Technical Committee AGE/15, Equipment for crop protection and application of liquid fertilizer.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2012

Published by BSI Standards Limited 2012

ISBN 978 0 580 66491 5

ICS 65.060.40

Compliance with a British Standard cannot confer immunity from legal obligations.

This Published Document was published under the authority of the Standards Policy and Strategy Committee on 31 May 2012.

Amendments issued since publication

Amd. No.	Date	Text affected
----------	------	---------------

TECHNICAL SPECIFICATION

ISO/TS 11356

First edition
2011-07-01

Crop protection equipment — Traceability — Spray parameter recording

*Matériel de protection des cultures — Traçabilité — Enregistrement des
paramètres liés à la pulvérisation*



Reference number
ISO/TS 11356:2011(E)

AVA Documents
Document Sharing Hub
© ISO 2011



COPYRIGHT PROTECTED DOCUMENT

© ISO 2011

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction.....	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Spray operation parameters.....	2
4.1 General	2
4.2 Field identification	3
4.3 Crop	6
4.4 Reason for treatment	7
4.5 Spray liquid	8
4.6 Dose	10
4.7 Application technique	11
4.8 Date and time of treatment	12
4.9 Weather.....	13
4.10 Handling of product for treatment by spraying.....	14
4.11 Operator	15
Annex A (informative) Example of structure of records	16
Bibliography.....	17

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

In other circumstances, particularly when there is an urgent market requirement for such documents, a technical committee may decide to publish other types of normative document:

- an ISO Publicly Available Specification (ISO/PAS) represents an agreement between technical experts in an ISO working group and is accepted for publication if it is approved by more than 50 % of the members of the parent committee casting a vote;
- an ISO Technical Specification (ISO/TS) represents an agreement between the members of a technical committee and is accepted for publication if it is approved by 2/3 of the members of the committee casting a vote.

An ISO/PAS or ISO/TS is reviewed after three years in order to decide whether it will be confirmed for a further three years, revised to become an International Standard, or withdrawn. If the ISO/PAS or ISO/TS is confirmed, it is reviewed again after a further three years, at which time it must either be transformed into an International Standard or be withdrawn.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO/TS 11356 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 6, *Equipment for crop protection*.

Introduction

This Technical Specification presents a list of spray operation parameters that can be used for traceability in the food chain, for the health of livestock, operators and bystanders, for environmental regulations and contract policies, for policy control by authorities and other relevant areas.

Target plants or organisms, as well as non-target objects in the treated field or outside the field, can be relevant for traceability.

NOTE ISO 22005^[1] gives related traceability principles and requirements.

Although the content of this Technical Specification received sufficient internal support to conclude that there is the future possibility of agreement on an International Standard, at the time of its publication there remained the need for

- more information on the parameters to be collected to cover local and regional requirements, such as the European Community Directive 2009/128/EC establishing a framework for Community action to achieve the sustainable use of pesticides,
- identification of the specific data to be recorded and the mode of collection for a number of the parameters, and
- results from technical developments within ISO/TC 23/SC 19 (*Agricultural electronics*) related to ISO 11783-10.

Crop protection equipment — Traceability — Spray parameter recording

1 Scope

This Technical Specification specifies the relevant spray operation parameters for recording information necessary for traceability, and provides a basis for the development of systems for automatically collecting and reporting agricultural production data. The parameters can also be valid for other records, such as those related to spraying in amenities.

Spray operation parameters for traceability can be required for different reasons, including approval, quality labelling, national or international directives, local regulations on food security, environmental protection or simply for identifying the treatment, machine or user. The extent to which these traceability parameters can be used will be dependent on the reasons and need for them identified by the intended users of this Technical Specification, who include machine manufacturers, farmers, the food industry and regulators.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 11783-10:2009, *Tractors and machinery for agriculture and forestry — Serial control and communications data network — Part 10: Task controller and management information system data interchange*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

buffer zone

distance between a **protected area** (3.4) and a **treated area** (3.8)

NOTE It is recorded in metres.

3.2

global navigation satellite system

GNSS

generic term for satellite navigation systems that provide autonomous geospatial positioning with global coverage

3.3

pre-harvest interval

time between the treatment and the harvesting of a crop

3.4

protected area

sensitive zone that can be adversely affected by spray treatment