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IS 15923 (Part 1): 2011 ISO 22369-1: 2006

# भारतीय मानक

फसल संरक्षण उपस्कर — फुहारक के प्रवाह का वर्गीकरण

# Indian Standard

# EQUIPMENT FOR CROP PROTECTION — DRIFT CLASSIFICATION OF SPRAYING EQUIPMENT

PART 1 CLASSES

ICS 65.060.40

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BUREAU OF INDIAN STANDARDS MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG NEW DELHI 110002

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## NATIONAL FOREWORD

This Indian Standard (Part 1) which is identical with ISO 22369-1:2006 'Crop protection equipment — Drift classification of spraying equipment — Part 1: Classes' issued by the International Organization for Standardization (ISO) was adopted by the Bureau of Indian Standards on the recommendation of the Farm Implements and Machinery Sectional Committee and approval of the Food and Agriculture Division Council.

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In reporting the results of a test or analysis made in accordance with this standard, if the final value, observed or calculated, is to be rounded off, it shall be done in accordance with IS 2: 1960 'Rules for rounding off numerical values (revised)'.

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# Indian Standard

# EQUIPMENT FOR CROP PROTECTION — DRIFT CLASSIFICATION OF SPRAYING EQUIPMENT

## PART 1 CLASSES

# 1 Scope

This part of ISO 22369 specifies the drift classification of spraying equipment and defines the spray drift reduction classes.

This part of ISO 22369 is applicable to spraying equipment used in applications such as arable field crops, in bush and tree crops, and in horticulture and forestry.

This part of ISO 22369 is intended to be used in conjunction with the other parts of ISO 22369, as applicable.

## 2 Terms and definitions

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

#### 2.1

#### drift reduction

 $d_{rec}$ 

difference between the spray drift deposition or collection of the candidate spraying equipment (CS) and that of a reference spray system (RS), for the same distance and test procedure, calculated as

$$d_{\text{red}} = \left(\frac{d_{\text{RS}} - d_{\text{CS}}}{d_{\text{RS}}}\right) \times 100 \%$$

## 3 Classification

The classification is based on the comparison of the candidate spraying equipment with the reference spraying system. The classification may include classes A to F (see Table 1). The classification of the spraying equipment depends on the amount of reduction of spray drift determined by using one of the test methods given in other parts of ISO 22369.

Table 1 — Drift reduction classes

| Class              | F       | E       | D                     | С       | В       | А    |
|--------------------|---------|---------|-----------------------|---------|---------|------|
| Drift reduction, % | 25 ≤ 50 | 50 ≤ 75 | <b>75</b> ≤ <b>90</b> | 90 ≤ 95 | 95 ≤ 99 | ≥ 99 |

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This Indian Standard has been developed from Doc No.: FAD 21 (1990).

#### **Amendments Issued Since Publication**

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