

ISPM 38 on the International Movement of Seeds – Outreach Activity

Dennis Johnson – International Seed Federation
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Outreach messaging to the NSAs, RSAs and the Seed Industry

- Raise awareness
- Become familiar with ISPM 38 as well as the other ISPMs
 - All ISPMs available by downloading from the IPPC website
 - Download and read the ISF ISPM 38 Training Manual
 - Attend workshops
- Partner with ISF to create regional/national workshops
- Align ISPM 38 with your national procedures and regulations to identify gaps
- Develop proposals to address those gaps and support your NPPOs implementation of ISPM 38

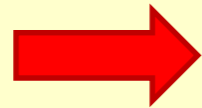
Accessing ISPM 38

<https://www.ippc.int/en/>

Information

Strategic Planning

IPPC Strategies
FAO Strategies
UN Strategies



Standards

Adopted Standards
Approved Specifications
Manual for Standard Setting

Recommendations

CPM Recommendations
Recommendations
Procedure

IPPC Projects

IRSS
ePhyto
PCE Facilitators Training

| Doc # | Title | Publication date |
|---------|---|------------------|
| ISPM 38 | International movement of seeds | 15 May 2017 |
| ISPM 39 | International movement of wood | 15 May 2017 |

ISPM 38 Outreach Activities to Date

ISPM 38 Training Manual

- Provides information on the IPPC, standard setting process, as well as the different elements of ISPM 38
- Describes the preparation of outreach needed in each country
 - Align ISPM 38 with your national procedures and regulations to identify gaps
 - Develop proposals to address those gaps to support your NPPO's implementation of ISPM 38
- Available to download from the ISF website

Accessing the ISF ISPM 38 Training Manual

<http://www.worldseed.org/>

The screenshot shows the top navigation bar of the World Seed website. It includes social media icons for Facebook, Twitter, YouTube, and LinkedIn, along with 'Contact' and 'Search' links. The main navigation menu has five items: 'ABOUT', 'OUR WORK', 'RESOURCES', 'EVENTS', and 'Members'. A red arrow points to 'RESOURCES'. Below this is a sub-menu with four items: 'TRADE', 'INTELLECTUAL PROPERTY', 'SUSTAINABLE AGRICULTURE', and 'SPECIFIC TECHNICAL SUBJECTS'. A second red arrow points to 'SPECIFIC TECHNICAL SUBJECTS'. Under this sub-menu, a card for a PDF document is displayed: 'NEW ISPM 38 on the International Movement of Seeds – A Training Manual', published in May 2017.

ISPM 38 Outreach Activities to Date

May 25, 2017 - Thematic Day

- What is ISPM 38?
- How do I prepare for outreach with my NPPO to assist with the implementation?

The International Movement of Seed – You Can Make a Difference

Chaired by ROB KEENE

- | | |
|--|----------------------------|
| 1. INTRODUCTION OF THE THEMATIC DAY | MICHAEL KELLER |
| 2. THE IMPORTANCE OF HARMONIZED REGULATION FOR SEED MOVEMENT | IOANA TUDOR & MARTIN GRUSS |
| 3. INTRODUCTION OF THE IPPC AND THE ROLE/FUNCTION OF ISPMs | 08:25-09:05 |
| 3.1 THE ISPM CREATION PROCESS AND THE IPPC'S ROLE OF IMPLEMENTATION | NICO HORN |
| 3.2 ISPM ON THE INTERNATIONAL MOVEMENT OF SEEDS: OVERVIEW AND OUTREACH | GERARD MEUIERINK |
| 4. ISPM ON SEEDS: SPECIFICS AND POSSIBILITIES FOR THE SEED INDUSTRY | 09:05-13:30 |
| 4.1 PEST RISK ANALYSIS | MEREL LANGENS |
| 4.1.1 PREPARATION OF OUTREACH IN CHILE | MARIO SCHINDLER |
| 4.1.2 Q&A | |
| 4.2 QUALITY SYSTEMS APPROACH TOWARD PHYTOSANITARY MANAGEMENT | TOM MOORE |
| 4.2.1 PREPARATION OF OUTREACH IN CHILE | MARIO SCHINDLER |
| 4.2.2 Q&A | |
| 4.3 SEED TESTING | SAMANTHA THOMAS |
| 4.3.1 PREPARATION OF OUTREACH IN CHILE | MARIO SCHINDLER |
| 4.3.2 Q&A | |
| 4.4 RE-EXPORTS | BRAM KOEBRUGGE |
| 4.4.1 PREPARATION OF OUTREACH IN CHILE | MARIO SCHINDLER |
| 4.4.2 Q&A | |
| 5. OUTREACH | 13:30-13:45 |
| 5.1 NEXT STEPS FOR FURTHER OUTREACH | DENNIS JOHNSON |

Outreach is a collaboration with NPPOs

- NPPO role: protect a country from unwanted pests.
- Seed company role: supply healthy seeds and satisfy customer needs
- Seeds = only one of many plant-related commodities for an NPPO
- Seed companies have very specific know-how and experience
- Outreach starts with a technical discussion about why:
a pest needs or does not need to be regulated,
or can be regulated differently,
or can be managed differently
etc.



Preparation of Outreach Proposal

- Need to provide technical justification for proposed changes to the requirements
 - For example, include references from the ISF Regulated Pest List to justify de-regulation of a pest for which seed is not a pathway
- Refer to specific sections within the ISPMs for justification
- Partner with ISF to make recommendations on:
 - equivalent measures to be proposed to NPPOs
 - integrated pest management practices as a phytosanitary measure
 - proportional measures based on purpose of import

Preparation of Outreach Proposal

Use ISF Resources:

- ISHI protocols for seed health testing
- ISF Disease resistance definitions, pathogen codes and differential hosts
- ISF paper on seed health testing of treated seeds
- Exchange best practices on phytosanitary requirements and measures
- ISF Regulated Pest List

The ISF Regulated Pest List

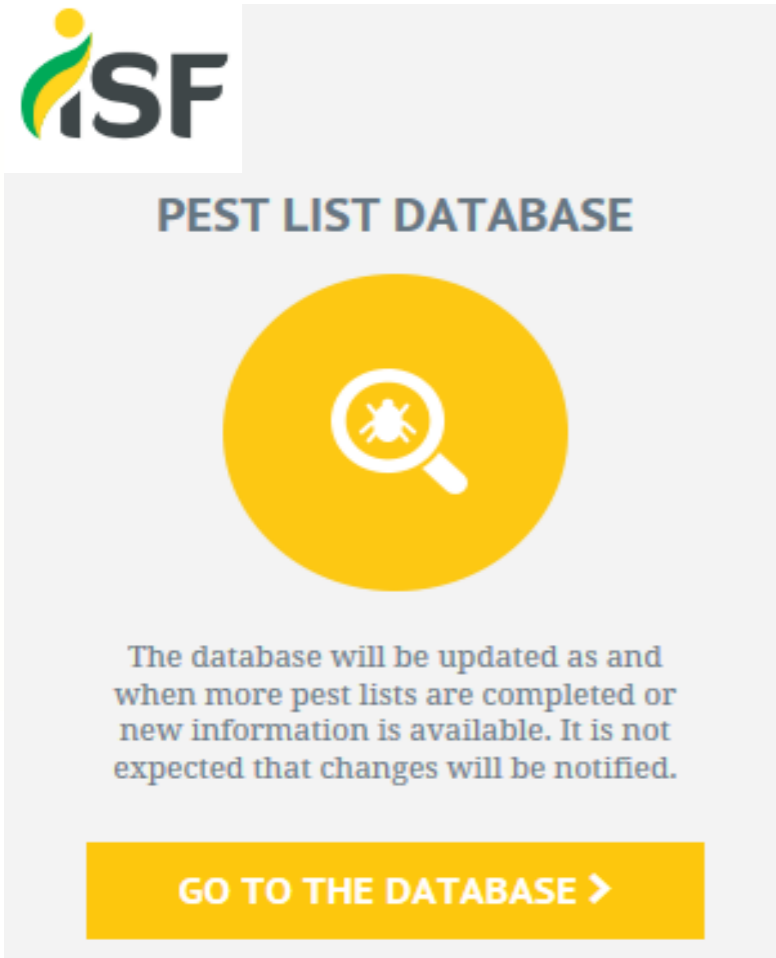
GOAL: Establish meaningful, science based and relevant crop specific pest lists and facilitate the harmonization of phytosanitary requirements

- Lists of regulated pests taken from NPPO databases and company information on Additional Declarations required per crop and country; updated for new pests every 2 years
- Classification of each pest by whether “seed is a pathway” and remarks pertinent to the industry
 - If seed a pathway, information on seed assay and seed treatment
- Information reviewed by 3 experts and documented with references to support or refute the classification
- Feedback mechanism open to experts outside the industry

ISF Regulated Pest List Database

- 10 crops are currently included
- Tomato, brassica, bean, and corn are in development
- Alfalfa – in process of identifying experts to review literature
- Leek, corn salad, eggplant, and beet/Swiss Chard are planned

New in ISPM on seeds – seed as a pathway



The graphic features the ISF logo at the top left. Below it, the text "PEST LIST DATABASE" is centered. A large yellow circle contains a white magnifying glass icon with a bug inside. Below the circle, a paragraph of text states: "The database will be updated as and when more pest lists are completed or new information is available. It is not expected that changes will be notified." At the bottom, a yellow button with white text says "GO TO THE DATABASE >".

Basis should be scientific evidence.

ISTA-annotated list - publications on seed-borne diseases.

However:

- Not necessarily linked to transmission of the pathogen via the seed
- No critical review of literature cited
- Studies under experimental conditions
- No update since 1990

CABI Compendium

- Need to review references to determine if seed is a pathway

Best resource to utilize: ISF Regulated Pest List

ISF Regulated Pest List – science based information about seed as a pathway

| Crop Species (9) | Regulated pests (no.) TOTAL 666 | Is seed a pathway? (in percentages) | | | |
|--------------------|---|-------------------------------------|--------------------|-----------|------------|
| | | Yes | Pathway not proven | No | Not a host |
| Carrot | 92 | 4 | 8 | 46 | 42 |
| Cucumber | 90 | 4 | 9 | 56 | 31 |
| Lettuce | 64 | 5 | 16 | 56 | 23 |
| Melon | 69 | 12 | 20 | 45 | 23 |
| Onion | 94 | 7 | 13 | 44 | 36 |
| Pepper | 107 | 8 | 17 | 43 | 32 |
| Spinach | 38 | 21 | 8 | 34 | 34 |
| Squash & pumpkin | 54 | 9 | 17 | 50 | 24 |
| Watermelon | 58 | 9 | 10 | 55 | 26 |
| Average (%) | | 9 | 13 | 48 | 30 |

In preparation:

- Tomato
- Brassica
- Bean
- Corn

80% do not warrant to be regulated!

Accessing the ISF Regulated Pest List

http://pestlist.worldseed.org/isf/pest_lists_db.html

The screenshot shows the ISF website header with the logo and tagline 'Seed is Life'. Navigation links include 'ABOUT', 'OUR WORK', 'RESOURCES', 'EVENTS', and 'Members'. Social media icons for Facebook, Twitter, YouTube, and LinkedIn are present, along with 'Contact' and 'Search' options. The main content area features a sidebar with 'Phytosanitary Matters' and a list of sub-topics: 'Seed Health - ISHI-Veg', 'Pest Risk Analysis', and 'Pest Lists'. The main content area has two tabs: 'IS SEED A PEST RISK?' and 'ISF REGULATED PEST LIST INITIATIVE'. The 'ISF REGULATED PEST LIST INITIATIVE' tab is active, displaying a title and two paragraphs of text. A 'PEST LIST DATABASE' section is highlighted with a magnifying glass icon and a 'GO TO THE DATABASE' button. A footer contains the ISF logo and tagline.

ISF International Seed Federation
Seed is Life

ABOUT **OUR WORK** RESOURCES EVENTS **Members**

f t YouTube in | Contact | Search Q

> **Phytosanitary Matters**

- Seed Health
 - ISHI-Veg
- Pest Risk Analysis
- **Pest Lists**

PEST LIST DATABASE

The database will be updated as and when more pest lists are completed or new information is available. It is not expected that changes will be notified.

GO TO THE DATABASE >

IS SEED A PEST RISK? **ISF REGULATED PEST LIST INITIATIVE**

ISF REGULATED PEST LIST INITIATIVE

Seed moved internationally, either for research or trade, are subject to phytosanitary regulations to minimise the risk of introducing or spreading pests worldwide. However, in some instances the phytosanitary measures imposed are unnecessary as seed is not a pathway for the entry, establishment or spread of the pest in question. After scanning national phytosanitary regulations from around the world, ISF has listed the regulated pathogenic organisms (bacteria, fungi, insects, nematodes, oomycetes, phytoplasma, viruses and viroids) for a number of seed species. Using their knowledge and experience, company seed and field pathologists provided an expert interpretation of scientific publications on whether seed was a means for the entry of each pest in the list and the conditions for its establishment.

Scientific articles published in refereed journals or scientific websites of the International Committee on Taxonomy of Viruses (ICTV), the Nematode-Plant Expert Information System (Nemaplex), the International Mycological Association (mycobank) and others were consulted. These ISF Pest Lists have been assembled in the form of a database. For those pests for which seed is a pathway or where the pathway is not yet conclusively proven, the database provides information on detection and risk mitigation. The database is a work in progress.

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