

Better Training for Safer Food *Initiative*

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Content

- Requirements for mandatory surveys for quarantine organisms (QP)
- Targeting of survey inspections based on risk
- Statistical principles
- Specific survey requirements for selected priority pests



Requirements for mandatory surveys for quarantine pests (QP) - based of the new Regulation on protective measures against pests of plants



Mandatory surveys for QP

PROTECTED ZONE PEST

REGULATED AND NOT LISTED AS UNION QP (em. measures)

UNION QUARANTINE PEST NON REGULATED PESTS REGULATED NON QUARANTINE PEST

PRIORITY PEST (10%)

DEMARKATED AREAS

ANNUAL SURVEY PROGRAMME

MULTI-ANNUAL SURVEY PROGRAMME (5-7 years) NOT FOR PESTS WHICH CAN NOT ESTABLISH OR SPREAD



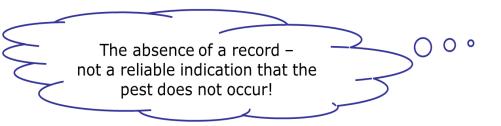
How to design the survey?

- ✓ Based on the risk that the pest concerned occurs in the respective area
- ✓ They shall consist of <u>visual examinations</u> by the competent authority, and, where appropriate, collection of <u>samples</u> and performance of tests
- ✓ Based on sound scientific and technical principles, and carried out at <u>appropriate</u> times with regard to the possibility to detect the pest concerned



Where to survey?

- ✓ All areas where pest is not known to be present (to know not to be present)
 - ✓ But not needed for pests which can not establish or spread due to the ecoclimatic conditions or the absence of its host species.
- ✓ Demarcated areas
- √ Protected zones



✓ For each area annually select different locations! Food safety



Where to survey?

- ✓ Natural and public green areas
- ✓ Premises
- √ Vehicles
- ✓ Machinery and
- ✓ Packaging









Multi-annual survey programmes (5-7 years)

- ✓ Specific objective of each survey
- ✓ Area concerned
- √ Time covered
- ✓ Plants and commodities targeted
- √ Survey methodology
- ✓ Procedure: visual examination, sampling and testing, timing, frequency and numbers of planned visual examinations, samples and tests
- ✓ Methods of recording of information collected.



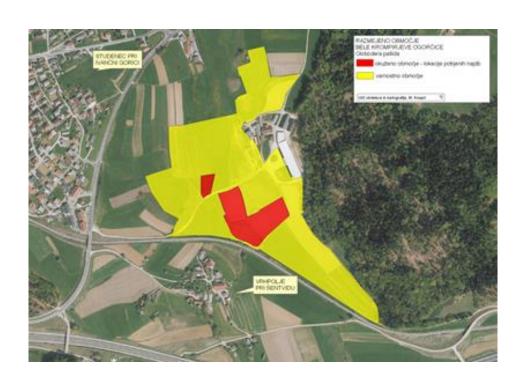
Targeting of survey inspections based on risk

Choice of observation points, high risk sites, commodities

 where are you most likely to find a pest?



High risk sites - previously reported presence of the pest







High risk sites – entry points of plants, plant products and other objects









High risk sites - where imported commodities are marketed/stored/repacked/processed









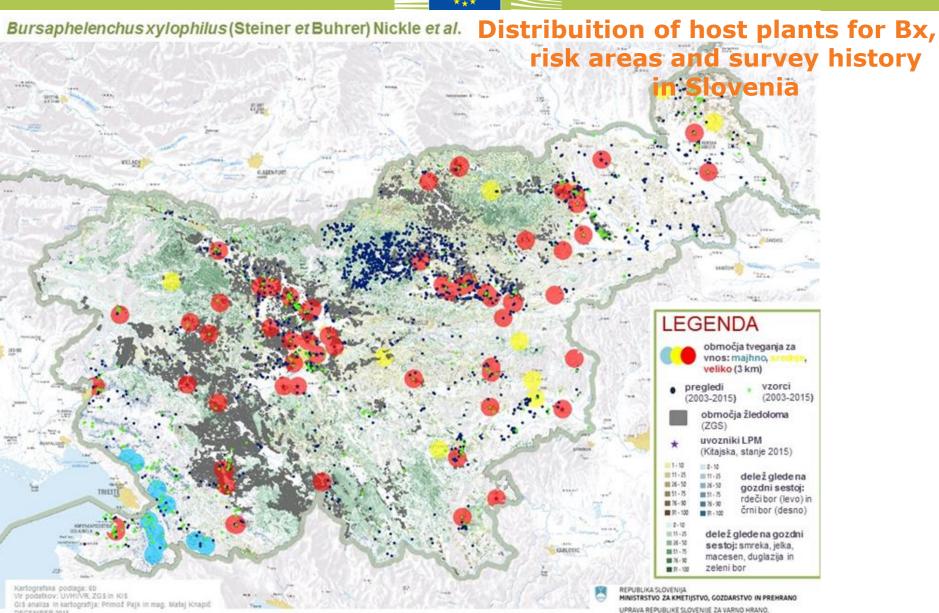


High risk sites - where imported commodities are used as planting material









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DECEMBER 2015

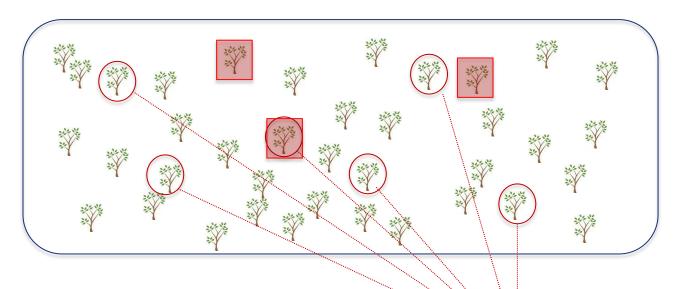


Statistical principles

- The population to be surveyed?
- The population is a collection of similar units of concern and may be of various types:
 - geographical unit with a trapping grid placed over an area
 - a field planted with a host crop
 - individual host plants in an unmanaged area
 - storage facility.
- Most common statistically based sampling methods:
 - simple random
 - systematic
 - stratified
 - targeted
- ISPM 31: Methodologies for sampling of consignments



Key concept: Populations and samples



Population











visual inspection

sampling

od safety













traps (color, pheromone, other)



- X. fastidiosa (CID 2015/789)
 - ✓ In buffer zones, the surveyed area shall be based on a grid split into 100 m × 100 m squares. Visual inspections shall take place in each of those square.
- Guidelines for the survey of X. fastidiosa in the Union territory (16 Dec. 2015)
- G. rostochiensis and G. pallida (CD 2007/33/EC)
 - ✓ on at least 0,5 % of the acreage used in the relevant year for the production of potatoes, other than seed potatoes



- Pseudomonas syringae pv. actinidiae
 Not required in CID 2017/198 but in a format for reporting)
 - ✓ fruit production areas
 - ✓ survey results on production of Actinidiae: plants for planting and pollen
 - ✓ records of checks of imported material.

A brief description of survey required.

Pomacea

Not required in CID 2012/697 but in a format for reporting)
Survey results from:

- √ Rice plots
- ✓ Other host plants in wetlands
- ✓ Irrigation and drainage network
- √ Rivers





Project Perseus

- Plant health surveys for the EU territory: an analysis of data quality and methodologies and the resulting uncertainties for pest risk assessment
- Datasheets for 283 regulated (Council Directive 2000/29/EC Annex I and Annex II) harmful organisms
- http://www.efsa.europa.eu/en/supporting/doc/676eax1.pdf



Better Training for Safer Food BTSF

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Food safety