

# Better Training for Safer Food Initiative

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# **Contingency planning**

Session 13

Food safety



#### **Generic Contingency Plan**

Outlines general arrangements and organisation to deal with an outbreak of any major pest

#### **Pest Specific Contingency Plan**

Specific information and guidance on how to deal with a particular major pest

#### **Standard operating procedures**

Detailed instructions on how to carry out certain operations e.g. how to take samples





## **Contingency plans**

# What are the advantages of having a plan?

# What are the risks/disadvantages of not having a plan?





## **Purpose of pest specific contingency plans**

- Evaluate potential actions in response to an outbreak
- *Highlight gaps in our preparations for an outbreak* 
  - e.g. diagnostic capability or lack of pesticide options pesticide approvals
- Agree who will do what in an outbreak
- Define an agreed policy on action (consult stakeholders for high profile pests)





## Pest Specific Contingency Plan

 Provision of Information
 Disease or Pest

 Biology
 life cycle, symptoms, detection, damage, control...
 How to prevent introduction and further spread



# g Rot of Potato

arantine disease of potato that is listed in the EC Plant Health Directive fiable in the UK. Yield losses are caused by tuber rotting and in individual have been as high as 50%. If it were to become established in the UK, on our seed-potato industry would be substantial, especially for exports. win win security in a security would be substantial, especially for exponsion ablished, the costs of control would also be high. Control of this disease wigilance from all sectors of the industry, from growers through to

nts, packers and retailers.

rot is caused by the bacterium Clavibacter michiganensis subsp. sepedonicus. found in parts of North America and is also established in northern and eastern ppe. Within the EC, there have been findings in most member states. There have been outbreaks in a number of the countries that will be joining the Community 2004. There had been no outbreaks in the UK prior to a finding in Wales in wember 2003. The disease is favoured by cool climates and could easily establish

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nder UK conditions.



What does it look like? The disease can cause plants to wilt but symptoms are much more likely to be observed in tubers.

Early tuber symptoms. Vascular tissue has a glassy, watersoaked appearance.

Close up of bacterial ooze emerging from the vascular ring of an infected tuber.

Later stage of infection. Extensive tuber rot Later stage or intection. Extensive tuber i and breakdown with internal hollowing.

ike rot of the vascular ring.

- Legislation
- What is being done to help?

- , Legislation Under the torms of the EC Plant Health Directive and the Plant Health (Great Britain) Coulor 1022 immortation of material carrying this diseases is prohibited in addition as Under the terms of the EC Plant Health Directive and the Plant Health (Great Britain) Order 1993, importation of material carrying this disease is prohibited. In addition, a specific control directive (02) RC ECC ) for the disease law down measures along at the disease is not at the disease is the disease of the disease Order 1993, importation of material carrying this disease is prohibited. In addition, a spec control directive (93/85/EEC) for the disease lays down measures aimed at preventing is control to down it is found and if revealed a preventing it spread wherever it is found and, if possible, eradicating it. Survey Survey Defra Plant Health and Seeds Inspectors (PHSIs) and SEERAD Inspectors carry out an annual survey of coard and ware notato stocks. Including those mount from both 1K and non-1K see
- Import inspections
- Defra Plant Health and Seeds Inspectors (PHSIs) and SEENAU Inspectors carry out an annuar survey of seed and ware potato stocks, including those grown from both UK and non-UK seed. survey of seed and ware potato stocks, including those grown from both UK and non-UK see Samples are tested for latent infection by the disease at the Central Science Laboratory (for England and Wales) and the Crothick Anticething Croining Anoneum (for Crothand) Samples are tested for latent infection by the disease at the Central Science Labo England and Wales) and the Scottish Agricultural Science Agency (for Scotland). J **Import inspections** Consignments of imported ware potatoes are inspected by the PHSL Samples are taken for tection at the Control Chinese Laborations for the disease Consignments or amported ware polators are inspected by in for testing at the Central Science Laboratory for the disease.

#### What can you do? Plant only classified seed

- All classified seed potatoes produced in the EC must have All classified seed pounces produced in the contrast name been derived from material found free from these diseases. Control groundkeepers Potato groundkeepers are a key factor in the long-term survival rotato ground geogram are a key rector in the long-term summ, of the disease. Their control removes an important source of Practise good hygiene disease inoculum. Regularly clean and disinfect all machinery, equipment, containers, regularly clean and distinct an inactimety, equipment, comain vehicles and storage facilities used during potato production.
- Don't spread disease with waste

de

- Discarded potatoes and potato processing waste could harbour the disease. Dispose of all potato waste in accordance with the
- The obsease, unspose or an positive wastein accordance with Code of Practice for the Management of Agricultural and Control of Agricultural and Keep a good look out
- If you see any of the symptoms described above your must immediately contact your local Defra blant i
- Tel: 01904 4551

#### Ring Rot / Brown Rot

You should be aware of two serious bacterial diseases of potato. They are not established in the UK and are a threat to our potato industry.

#### **Ring Rot**

The initial symptom is a glassiness and darkening of the vascular ring which develops into a cheesy rot with separation and eventual necrosis of the tissue.



Symptoms of potato ring rot caused by Clavibacter michiganensis subsp. sepedonicus

#### **Brown Rot**

The initial symptom is a brown staining of the vascular ring which later rots completely. A creamy-white ooze exudes from cut vascular tissues and eyes of the potato.



Please note! Potato waste can transmit these diseases. Don't dump it on arable land.

These diseases are difficult to tell apart. If you see any of the above symptoms or suspect either disease, you must immediately contact your local Defra Plant Health and Seeds Inspector, or in Scotland, your local SEERAD Area Office.





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#### **Essential elements of a plan (EPPO PM 9/10)**

- Initiation of plan official action following a presumptive diagnosis
- Confirmation official action to eradicate (possibly just containment?)
- Review of measures if prolonged outbreak
- Determination of completion of statutory action
- Command structure
- Stakeholder consultation
- Internal communication and documentation
- External communication
- Testing of plan and training of staff
- Evaluation of plan after outbreak and revision

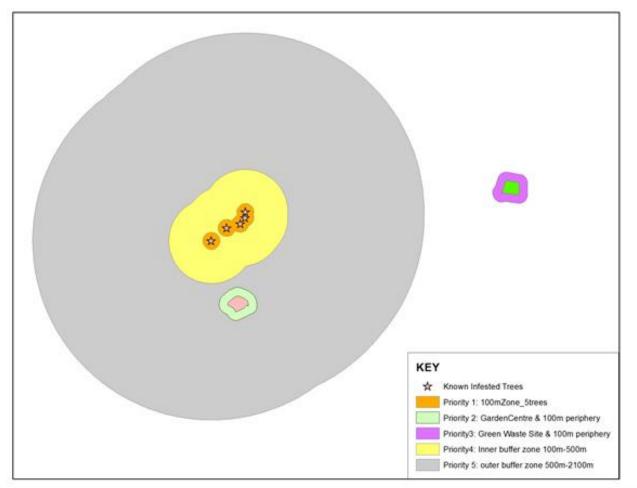


#### Structure of pest specific contingency plans in UK

- Introduction and scope
- Anticipation of threat
- Activities to be undertaken to prepare for outbreaks
- Response to suspect outbreaks
- Response to confirmed outbreaks
- Recovery activities
- References
- Optional factsheet on pest in Appendix



# Map showing layout of different survey areas for a hypothetical *Anoplophora* outbreak





### Shape of draft generic contingency plan

Anticipate

Assess

Prepare

Respond



#### Recover

Food safety



#### **Anticipate & Assess**

**Policy** 

Pest Risk Analysis

#### Pest Specific Contingency Plans





#### **Preparation**

#### Resources

#### Training

#### **Exercises**

**Evaluation** 







#### Response

- Initial investigation
- Decide Alert status
  - how serious is the outbreak?
- Command structure & management
- Roles and responsibilities



#### **Alert status in UK**

European Commission

ALERT	STATUS	COMMAND LEVEL
White	Plant pest/disease with potential for limited geographical spread	Instigation of Incident management plan involving Operational command at appropriate level and follow Standard Operating Procedures or scientific advice where applicable
Black	Significant plant pest/disease with potential for limited geographical spread	Instigation of Incident management plan usually involving joint Tactical and Operational command at appropriate level and follow plant pest/disease specific response plans where applicable
Amber	Serious plant pest/disease with potential for relatively slow but extensive spread leading to host death and/or major economic or environmental impacts	Instigation of Incident management plan usually involving joint Strategic and Tactical command and follow plant pest/disease specific response plans where applicable
Red	Serious or Catastrophic plant pest/disease with potential for rapid and extensive geographical spread leading to host death and/or major economic, food security or environmental impacts	Instigation of Incident management plan involving Strategic, Tactical and Operational command and follow plant pest/disease specific response plan where applicable



### **UK Escalation procedure**

- If a Response Officer (inspector) suspects a serious 'quarantine' pest they should <u>immediately</u> contact the person responsible for eradication and containment.
- Manager will determine the preliminary alert status.
- If Black, Amber or Red the manager will inform the CPHO (head of NPPO)
- The CPHO may convene a Contingency Core Group, by teleconference where necessary, to decide on the alert status.



### **Contingency Core Group (UK)**

- meeting is chaired by CPHO (Head of NPPO) and follows a standard agenda.
- an 'ad hoc' group put together quickly and composed of inspectors, policy, scientists, etc.
- assesses the report of outbreak using the risk criteria table
- If the alert status is confirmed as either Black, Amber or Red then the CCG will nominate the Control Authority, decide on command level and indicate the scale of response required.





**Possible weaknesses in outbreak management** 

- Too many people reporting to one person
- Different organisations involved and poor communication between them
- Lack of reliable up to date incident information
- Unclear lines of authority and responsibility
- Unclear or unspecified outbreak objectives
- Poor recording of decisions and justification for making them



Management by Outbreak Management Team

#### 'Everyone working towards one aim with clear objectives of how to achieve it'

- Incident Commander (with OMT) determines the desired outcome of the outbreak.
- These outbreak objectives are then communicated to everyone involved (needs adequate resources)
- At any one time only one set of objectives and only one Outbreak Action Plan
- Accurate and timely reports are produced of current outbreak situation and key decisions taken
- Control communication –providing information to media, affected stakeholders etc.





## **Underpinning concepts**

- Clearly defined roles and responsibilities for all people appointed to a role
- Defined information flows clear reporting lines within the management structure
- Common Operating Picture a description of the shared and consistent understanding the situation from Outbreak Management Team





# Summary

- A generic contingency plan outlines the principles on how an NPPO will respond to outbreaks
- Incident Management Systems can be used to structure the management of outbreaks
- Pest specific contingency plans outline the actions planned for specific pests
- Contingency plans are likely to be a requirement of the new EU plant health regime

