

What is risk based sampling?





Department for Environment Food & Rural Affairs





Detection survey



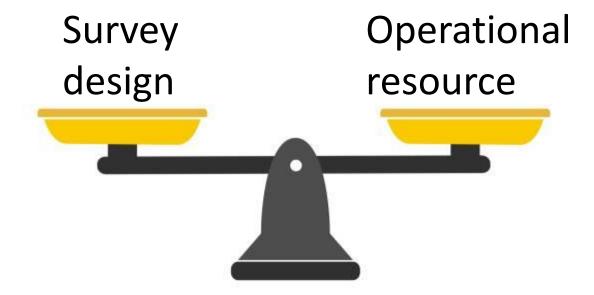
Delimiting survey



Monitoring survey







Risk-Based Sampling & Surveillance



"an inspection design that takes account of the probability of detection to determine the sample size for inspection. It consistently achieves a specific level of detection and confidence and is adjusted to correspond to the different levels of risk" (NAPPO)

"a survey design that allows differentiated sampling efforts based on risk factors and targets the survey effort in the corresponding proportion of the target population" (EFSA)

Survey design



• What?

• Where?

• How?

•When?

Orchards



Taxonomy	Quarantine Pests	Hosts	How to Inspect	When to Inspect
	American plum line pattern			
	virus			
Virus		Prunus domestica, avium	Visual	April - August
Insect (moth)	Acleris nivisellana	Malus	Visual	April - September
	Oemona hirta			
Insect (borer)		Malus, Pyrus, Prunus domestica/avium	Visual	Year Round
	Saperda candida			
Insect (borer)		Malus. Pyrus, Prunus domestica/avium	Visual	Year Round
Insect (moth)	Acrobasis pyrivorella	Pyrus	Visual	June-September
Insect (weevil)	Anthonomus quadrigibbus	Malus, prunus avium	Visual	April-October
	Apiosporina morbosa			
Fungus		Prunus domestica, avium	Visual	Year Round
Fungus	Botryosphaeria kuwatsukai	Malus, Pyrus	Visual	April-September
Insect (moth)	Carposina sasakii	Malus	Visual	June-September
Virus	Cherry rasp leaf virus	Malus, prunus avium	Visual	April-September
Insect (moth)	Grapholita inopinata	Malus, Pyrus	Visual	June-October
Insect (moth)	Grapholita packardi	Malus, prunus domestica/avium	Visual	June-October
Insect (moth)	Grapholita prunivora	Malus, prunus domestica/avium	Visual	June-October
Fungus	Phyllosticta solitaria	Malus	Visual	April-October
Insect (fruit fly)	Rhacochlaena japonica	Prunus domestica, avium	Visual	June-September
Insect (fruit fly)	Rhagoletis fausta	Prunus avium	Visual	June-September
Insect (fruit fly)	Rhagoletis indifferens	Prunus avium	Visual	June-September
Insect (scale)	Lopholeucaspis japonica	Malus, Pyrus, Prunus avium	Visual	April-September
Insect (Fruit Fly)	Rhagoletis pomonella	Malus	?	June-September
Fungus	Alternaria mali Roberts	Malus	?	April-September
Virus	Apple dimple fruit viroid	Malus	?	June-October
A17360 - 250-	Candidatus Phytoplasma	COLUMN TO THE PARTY OF THE PART		
Bacteria	'mali'	Malus	?	June-October
Bacteia	Candidatus Phytoplasma 'pruni'	Prunus domestica, avium	2	April-October
Dactera	Xiphinema rivesi (non-EU	Frontos domestica, avidin		April-October
Nematode	populations)	Prunus domestica, avium, Malus, Pyrus		

Risk activity, location and areas



Risk activity/factor	Risk location	Risk area
Import, trade or production of propagated material, rootstock and scions of host species	Garden Centres and Nurseries	Areas surrounding risk locations where host species are grown such as community orchards, residential gardens and allotments

Target Population



Survey Area

England & Wales



Epidemiological Unit

Agricultural & Residential areas





Risk Area

Host trees around risk locations



Inspection Units

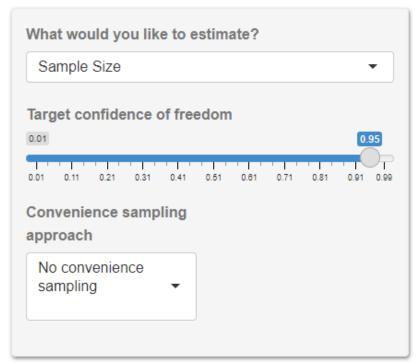
Malus,
Pyrus &
Prunus
trees

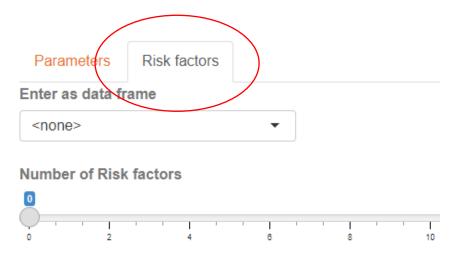






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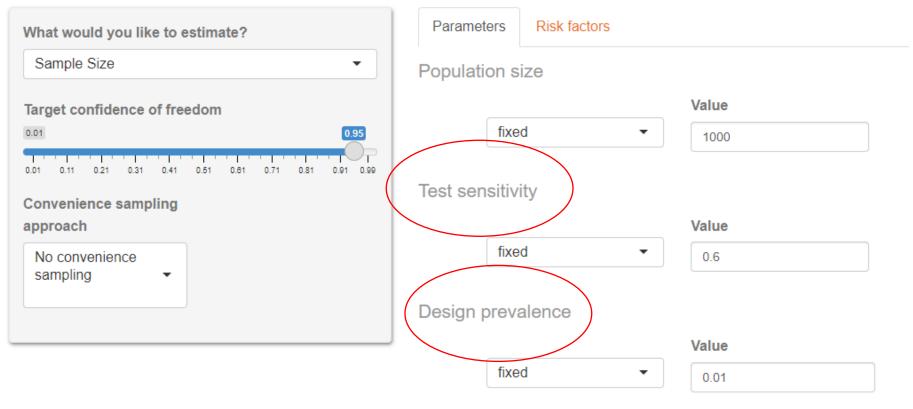


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