

Pest Risk Analysis (PRA) Stage 2: Pest Risk Assessment







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- Stage 1: Initiation
- Stage 2: Pest Risk Assessment
 - Step 1: Pest Categorization
 - Step 2: Assessment of the Probability of Introduction and Spread
 - Step 3: Impacts
 - Step 4: Overall Assessment of Risk
 - Step 5: Uncertainty
- Stage 3: Pest Risk Management





• Risk =Likelihood X Consequence

• Thus the overall assessment of risk combines the <u>likelihood of pest introduction</u> with the <u>consequences of that introduction</u>







- Qualitative descriptions Can be done
- 1. Based on free text describing how the probabilities and impacts have been considered or
- 2. Using qualitative word scales







• Combines the likelihood of pest introduction with the consequences of that introduction

 "Without any mitigation measures, the pest is likely to be present on (host) from (origin) and to be able to survive transport and reach suitable hosts such as which are widely distributed in the PRA area"







- Combines the likelihood of pest introduction with the consequences of that introduction
- "Without any mitigation measures, the pest is likely to be present on (host) from (origin) and to be able to survive transport and reach suitable hosts such as which are widely distributed in the PRA area and could cause yield losses of up to 15% during a severe outbreak"







- "Although the pest can spread (be introduced – enter and establish) from neighbouring country impacts are likely to be very low"
- Improvement







- "Although the pest <u>can</u> spread (be introduced – enter and establish) from neighbouring country impacts are likely to be very low"
- Improvement
- "Although the pest is very likely to spread (be introduced – enter and establish) from neighbouring country impacts are likely be very low"







Summarising aspects of PRA

- Word scale
- Likelihood (Probability)
 - Very unlikely (Negligible)
 - Unlikely (Low)
 - Likely (Medium)
 - Very likely (High)







Summarising aspects of PRA

- Word scale
- Impact
 - Negligible
 - Low
 - Medium
 - High







Word Scale : Descriptors

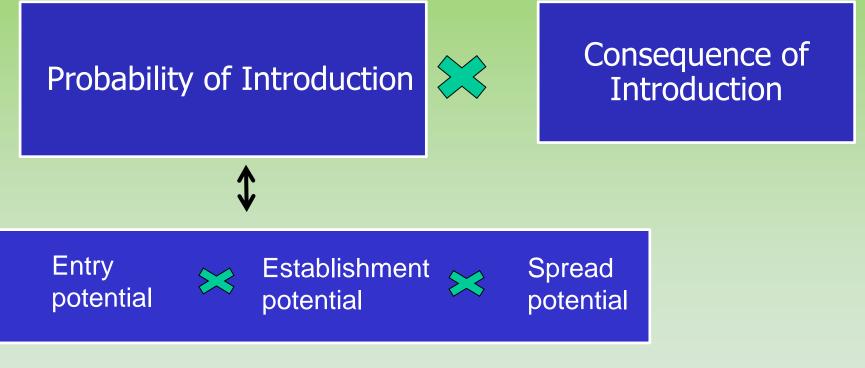
Probability	Descriptive definition
Negligible	The event will almost certainly not occur
Low	The event is unlikely to occur
Medium	There is some likelihood of the event occurring
High	The event is highly likely to occur







Combining Probabilities

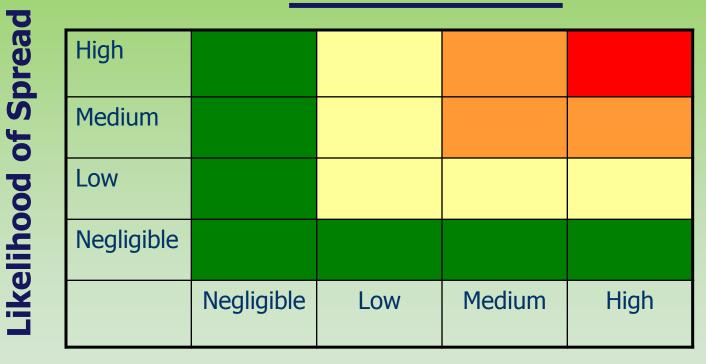








Combining Probabilities Risk matrix



Likelihood of introduction









- Part of the pest risk assessment process
- Qualitative descriptions free text
- Qualitative descriptions word scales
- Summarising aspects of risk assessment
- Combining likelihood and impact
 - Summarising the summary!



