Research and practice of risk assessment methods in China

Standards and Regulations Research Center of GACC Jing HUANG

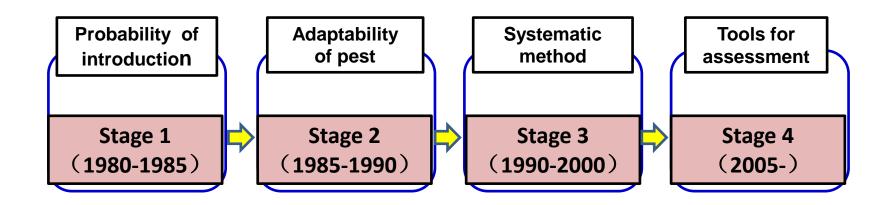
Science and Technology Research Center of China Customs Ruosi LIU

8 November 2022

Contents

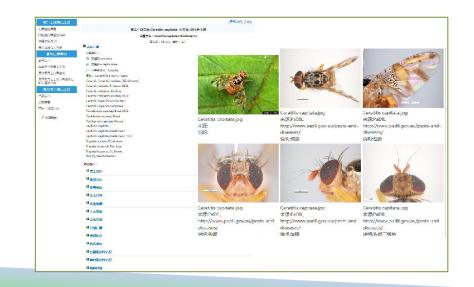
- Research developmental stages of pest risk assessment methods
- Research of Human-computer collaboration risk
 assessment Model
- Application of pest risk assessment methods
- Research prospects of pest risk analysis

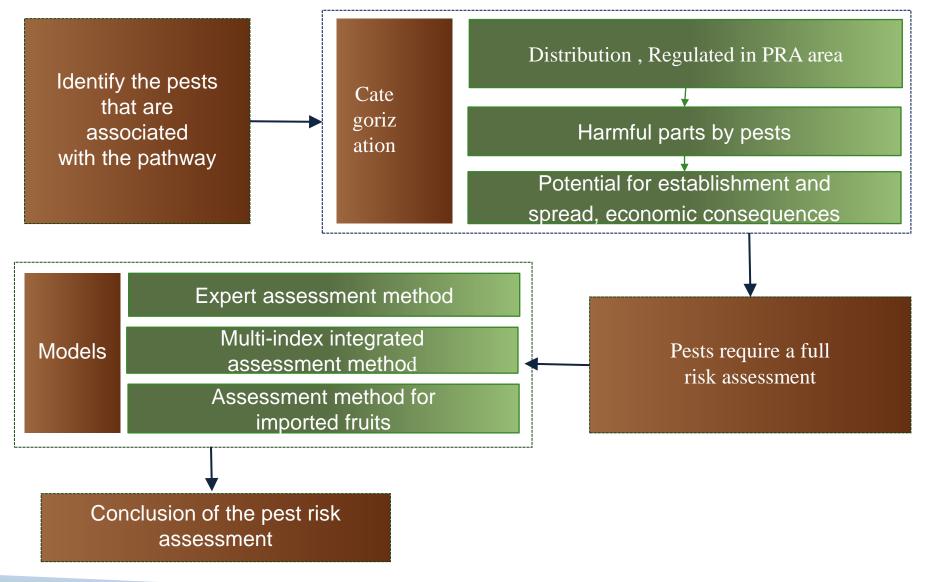
Research developmental stages of pest risk <u>assessment methods</u>



Research of Human-Computer collaboration risk <u>assessment Model</u>

- Human-centered, computer-assisted PRA.
- The assessment process was developed based on ISPMs.
- Provide critical scientific information to support expert decisionmaking during the assessment.





Categorization

Expert assessment method

马来西亚荔枝							专家评估法		
→ → → → → → → → → → → → → → → → → → →						当前评估的有害生物为:Leptinotarsa decemlineata 马铃薯甲虫 项目名称为:玉米			
	物在PRA地区是否存在) 翻表明有分布; 有分布:包括广泛分布; 局i	▲ ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	2制下或局部存在; 不确定: 暂不确定		分析 阶段	分析 步骤	评判 指标	评估 结论	评判 理由
		进入为害部位分析 保存结果	Į		_		有害生物与来源地途径联系的可能性	请选择 🗸	1.
穿号 类别	学名 文 ⁴ 2入国 文 名 檀	份	参考文献	进一步评估		有害生物 进入可能性评估	在运输或储存期间,以及经现4 害生物 管理程序之后有害生物仍然生4 的可能性	请选择 」 高 一 中 」 低 很低	li
Step1 : Distribution , Regulated in PRA area					传入	四八马能任叶山	Assessment Criteria	可忽略	
Step2: Harmful parts by pests							Eg:Probability of the		
Step3: Potential for establishment and							pest being associated	请选择 🖌	le
spread, economic consequences					和扩 散的 可能	有害牛物	with the pathway at	请选择 🖌	1.
					性评估	定殖可能性评估	origin	请选择 🖌	11
4 昆虫	広福建;广东;广 Aonidiella orientalis 肾西;海南;四川; 有分布 ✔ CAB, 2 圆浙行:中国香港	;四川; 有分布 🖌 CAB, 2006;Sca	2006;Scalenet, 2006;中国农科院植保所, 1996				prevalence of the pest		
	<u></u>	东广					in the source area		
5 昆虫	西海南 河南黒 北湖石 Aphis gossypii 朝 好 五山西	,龙江;湖 ;江苏;	3, 2006;师仰胜,等.2005			定殖后扩散 的可能性评估	评估结论		
	南;浙江	か、0日から、 四川(新福云 南)浙江中国台 湾中国香港 (音				传入和扩散 可能性评估	评估结论 〇三项指标综合评判 〇三者合并规则矩阵(渡)		
6 昆虫	Archips machlopis 卷 蛾 属)	无分布 🖌					潜在寄主植物的种类、数量、种植面积和产量损失	请选择 🖌	11
7 昆虫	拟 后 Archips micaceana 黄	无分布 🖌				有害生物的	防治措施(包括现行措施)的效率和成本	请选择 🖌	1.
	· 卷 報			_		直接影响评估	环境影响	请选择 🖌	

Application of pest risk assessment methods

Essential tool of pest risk assessment for NPPO

- Data reliability(CABI,EPPO GD,GBIF,CNKI, Etc.)
- Process Intelligence Tool
- Make relatively objective decisions

Application of pest risk assessment methods

Over 1800 PRA tasks have been completed

- Market Access for Agricultural Products
- Develop and revise the list of regulated pests
- Develop emergency phytosanitary measures
- Retrospective review of phytosanitary policies

•

Research prospects of pest risk analysis

- To strengthen the construction of basic information databases
- To research rapid pest risk assessment methods
- To research intelligent pest risk assessment

Thank you