



## IC PROJECT REPORTING TEMPLATE AS PART OF THE STRATEGY AND PROCESS ON HOW THE IC REVIEWS AND ANALYSES ICD PROJECTS

**Project Title:** Risk-Based Sampling Manuals Project

**Reporter:** Stephanie BLOEM, NAPPO Executive Director


**IPPC Secretariat/IC Member in charge:** Barbara PETERSON/Thorwald GEUZE

**Project Code (if applicable):** /

**Submitted Date:** April 2021

### IC PROJECT REPORTING TEMPLATE

1. Project Profile	
Recipient Region(s)/ Countries	All Regions and Countries
Donor/ Resource Partner	/
IC Representative (if applicable)	/
IPPC Secretariat Representation (if applicable)	.
RPPO Representation (if applicable)	NAPPO
Collaboration / Participating Organizations	RBS Proceedings, Manuals and step-by-steps are multi-authored documents
Project Budget (detailed funds and/or in-kind)	In-kind from NAPPO
Project Timing	Ongoing
2. Project Scope and Relevance to the IPPC and main outputs (max 200 words)	
<p>The Risk-Based Sampling (RBS) Manuals project has the overall objective of assisting NPPOs with implementation of technically justified and defensible inspection procedures and supporting the implementation of ISPM 23 (<i>Guidelines for a phytosanitary import regulatory system</i>) and ISPM 31 (<i>Methodologies for Sampling of Consignments</i>).</p> <p>The RBS Manuals and associated tools will assist the NPPOs of all Contracting Parties in reframing their inspection designs in order to generate statistically valid and technically justified data that supports a risk-based approach to inspection.</p>	
3. Project Supporting Materials [e.g. hyperlinks]	
<p>The main outputs of the project are located at <a href="https://nappo.org/english/learning-tools/Resources-and-Learning-Tools-for-Risk-Based-Sampling">https://nappo.org/english/learning-tools/Resources-and-Learning-Tools-for-Risk-Based-Sampling</a>. This page brings together resources, tools, training materials and exercises to assist in the development and implementation of a risk-based sampling program.</p>	

 <p><b>Navigation Instructions</b></p> <p>Use your mouse to place the pointer on the link of interest and click to access the information.</p> <ul style="list-style-type: none"> <li>• <a href="#">RBS Manual Part I</a> (English/ Spanish)</li> <li>• Symposium <a href="#">Proceedings</a> (English/ Spanish)</li> <li>• How to use <a href="#">Hypergeometric (HG) Tables</a></li> <li>• <a href="#">Sample Size Calculator</a> and excel workbook to collect inspection data</li> <li>• List of RBS academic publications under <a href="#">References</a></li> </ul> <p><b>Outputs under development:</b></p> <ul style="list-style-type: none"> <li>• RBS Manual Part II; expected completion sometime in 2021</li> <li>• RBS Training Module update; expected completion sometime in 2021.</li> </ul>	
<b>4. List project technical resources (i.e. guides, training materials, tools) that could be useful and used by other stakeholders</b>	
<p>The Proceedings and the RBS Manual Part I are deliverables from the first ever International Symposium for Risk-Based Sampling held in Baltimore, MD, USA in mid-2017.</p> <p>The RBS Manual Part I is focussed on developing familiarity with RBS, its benefits, and the practical aspects of its implementation. Part II of the RBS Manual will provide more in-depth guidance on implementation of RBS.</p> <p>The Hypergeometric Tables can be used to determine the appropriate sample size for inspection based on the lot size, the maximum acceptable infestation level and the desired confidence level. The Hypergeometric Tables can also help determine the percentage of infestation that would be detected at various confidence levels with various sample sizes.</p> <p>The Sample Size Calculator can be used to organize data derived from inspections conducted at ports, airports, and border points. In addition, the formulae embedded in the calculator can be used to estimate sample sizes based on Risk-Based Sampling concepts.</p> <p>In addition to these sampling tools, the RBS Manual Part I includes a practical exercise that can be used to compare the results from inspections conducted using percentage-based sampling versus Risk-Based Sampling. A training module, RBS video and addition references are also provided.</p>	
<b>5. Provide a list of project experts that could be recommended to other stakeholders and describe why</b>	
<p>Mr. Robert L. Griffin – subject matter expert in all aspects of NPPO design and operation; expert in risk-based inspection</p> <p>Ms. Maribel Hurtado Sepulveda – contributing author to the RBS Manuals and other capacity building tools; excellent training specialist in RBS tools and resources</p>	
<b>6. Describe successes and challenges that could be promoted for the benefit of other stakeholders</b>	
<p>The primary objective of the RBS Manuals project is to promote harmonization in the implementation of ISPM 23 and ISPM 31.</p> <p>The RBS Manual Part I can assist/guide NPPOs in reframing their inspection designs in order to generate statistically valid data that supports a risk-based approach to inspection. Sampling methodologies that are not statistically based (such as convenience, haphazard, percentage-based or selective sampling) may provide valid</p>	

data on the presence or absence of a regulated pest, but limited statistical inferences can be made from the data.

Developing a risk-based inspection process takes time and is iterative, but ultimately results in inspection programs that are better equipped to identify and rank non-compliant imports. Ranking based on pest interceptions and their associated action rates will help inspectors and policy makers identify riskier imports and then be able to adjust policies and resources (both human and monetary) to maximize the effectiveness of inspection. Risk-based inspection designs provide a consistent and reliable measure of action rates for commodities, approach rates for pests, and infestation rates for shipments.

**7. List targeted beneficiaries [i.e. regions, countries, RPPOs, NPPOs and other institutions]**

- Contracting parties
- Importers