BEYOND BOUNDARIES: THE PROCINORTES APROACH TO PEST MANAGEMENT IN NORTH AMERICA

J. Isabel López-Arroyo¹, Della Johnston², Rose Hammond³, Audia Barnett⁴

1. Instituto Nacional de Investigaciones Forestales, Agrícolas y Pecuarias. 2. Agriculture and Agri-Food Canada. 3. USDA-Agricultural Research Service. 4. IICA-Procinorte

lopez.jose@inifap.gob.mx







Pests don't recognize frontiers!



Summary. "Pests do not recognize frontiers" and as a result, every year there are movements of new or already established pests that threaten the agriculture of North America, with potential risks of invasion for the rest of the Americas. In order to assist in confronting such challenges in the region, the Cooperative Program in Agriculture, Research and Technology for the Northern Region-PROCINORTE created the Plant Health Task Force (PHTF). The group is composed of lead scientists from the Instituto Nacional de Investigaciones Forestales, Agrícolas y Pecuarias-INIFAP (Mexico), the United States Department of Agriculture Agricultural Research Service-USDA-ARS, and the Agriculture and AgriFood Canada-AAFC, that on a common platform, share knowledge and work on projects to develop sustainable alternatives for the management of invasive pests as well as primary pests that represent high risk for crop productivity. During the last seven years, the team has focused in hemipteran invasive pests, as well as other arthropods and pathogens affecting diverse crops of the region.

PROCINORTE — A MECHANISM FOR SHARING KNOWLEDGE AMONG 3 **CENTRES OF SCIENTIFIC EXCELLENCE IN AGRICULTURE IN THE NORTHERN REGION**



MISSION

To mutually strengthen agriculturally related governmental and stakeholder collaboration in research, development, and science-based policies to:

The Puccinia Pathway, Stem Wheat Rust, Puccinia graminis f.sp. tritici

- **Enhance** sector productivity and competitiveness;
- 2) Improve food safety and plant and animal health, and
- 3) Contribute to capacity building through collaborative science and technology activities



PLANT HEALTH TASK FORCE

Mechanism for tri-lateral collaboration

FOCUS

Promote joint research projects

Biological Control

- Capacity building and linking specialists and projects for proactive research on invasive pests and diseases
- Promote knowledge sharing on pests/diseases of tri-lateral interest through several means
- Carry out outreach activities with other countries and regions in LAC

PLANT HEALTH TASK FORCE

Initial Focus

- > Invasive species. Current pests and potential threats. > Area-wide integrated management of invasive hemipteran species
 - **Brown Marmorated Stink Bug (BMSB) UKudzu Bug Bagrada Bug** □ *Ca.* Liberibacter solanacearum



Pest Biological Control is prioritized

Bagrada bug infected by the fungus Beauveria bassiana in Mexicov









nposium: Potato Zebra Chip

luxtla Gutierrez, Chis., Mex.

Supporting Agriculture in North America Guided by Science, Improved Technologies and Science-based Policies





