



# NAPPO

North American Plant Protection Organization  
Organización Norteamericana de Protección a las Plantas

## NAPPO Conference Call Report

Expert Group:	Lymantriids	
Location:	Conference call	
Date:	November 30, 2016	
Chairperson:	Gericke Cook, APHIS	
Participants:		
Gericke Cook (APHIS PPQ)	Nedelka Marin-Martinez (NAPPO secretariat)	Dave Holden (CFIA)
Stephanie Bloem (NAPPO secretariat)	Patricia Abad (APHIS PPQ)	Alonso Suazo (NAPPO secretariat)
Daniel Bravo (SENASICA)		

### Summary

Project 1:	Develop a NAPPO Science and Technology paper on the risks associated with Lymantriids of potential concern to the NAPPO region, identifying potential species and pathways of concern.
Consensus:	<p>Alonso and Stephanie gave us brief updates from the November NAPPO meeting. Meeting notes and presentations will be available on the NAPPO website soon.</p> <p>The team discussed the results of the web crawler and how we can leverage the distribution data to feed into climate matching analyses, which informs the pest risk analysis. Based on the coarse spatial resolution of the available data, we decided to use country-level polygons to delimit potential pest distributions, and where available, use host distribution to refine the potential distribution within those countries. The first pass of Gericke's web crawl returned over 2700 records of lymantriid moths and their rough global distribution. Dave suggested refining that list by cross-referencing with pests that feed on economic hosts of concern. Given this suggestion, the team decided upon an overall workflow to better target our work.</p> <p>Each team member will develop a list of host genera that have economic significance to their respective countries (i.e. there is a supported industry that uses the host of interest). An example would be <i>Quercus</i>, the genus representing oak trees. Each team member has the next two weeks to develop their list and post it to Google Drive for Dave. Please mark your file name with "final" when it is complete so Dave knows that it is ready.</p>

	<p>Dave will take that list of economic hosts and run it through the Lepidopteran host plants database, which will return all Lepidoptera species that feed on those hosts. The output list will represent all lymantriid species that feed on hosts of economic interest to the NAPPO region. Gericke will take that list and cross-reference it against the distribution data from her web crawl as well as any available global host data to create the climate matching analysis. The combination of matching climate and targeting hosts of economic importance will tell us if the species is of potential concern to the NAPPO region. Subsequent analysis using our developed pest risk template will rank its overall significance.</p>	
Current Pest List Assignments	<p>Canada: Euproctis kargalika, Calliteara abietis, Laelia coenosa, Orgyia australis, Orgyia osseata, Calliteara queenslandica, Dasychira mendosa</p> <p>United States: Dasychira(Cifuna) locuples, Carriola economoda, Caviria comes</p> <p>Mexico: Sarsina violascens, Calliteara pura, Pantana delineata, Lymantria ninayi, Lymantria rosa, Lymantria novaguinensis, Lymantria flavoneura</p>	
<b>Next Steps</b>		
<b>Responsible Person</b>	<b>Action</b>	<b>Date</b>
Gericke Cook	<ul style="list-style-type: none"> <li>Update the code for the web scraper for the online Lepidopteran database, based on our discussions.</li> <li>Start testing code to match distribution data to political boundaries and automate the climate matching process.</li> <li>Complete the U.S. economic host plant list</li> </ul>	<p>Jan 9<sup>th</sup></p> <p>Dec 14<sup>th</sup></p>
ALL	<ul style="list-style-type: none"> <li>Develop your country's economic host plant list – mark "final" in file name so Dave knows it is ready</li> <li>Continue working on pest lists and uploading to Google Drive.</li> <li>Please adhere to agreed standard naming convention for the uploaded files.</li> <li>Begin outreach to experts to review datasheets for uncertain pests.</li> </ul>	<p>Dec 14<sup>th</sup> (ongoing)</p>
<b>Next Meeting</b>		
Location:	Conference call	
Date:	Wednesday, January 11 <sup>th</sup> 1pm ET/11am MT	

<b>Proposed Agenda Items</b>
1. Discuss outcomes/issues/questions regarding the development of host lists, pest distribution, and matching climate.
2. Report on any success conducting outreach to university/entomology experts to score pests with uncertain data.