

Fall 2011 Aspen Defoliators Statistics: Contacts, Citation, Constraints & Keywords

Contact

Contact Organization Primary:

Organization:	Alberta Environment and Sustainable Resource Development
Person/Position:	Dan Lux, Senior Manager Forest Health Section

Contact Information:

Phone:	780 427-8474
Fax:	780 427-0084
Email:	Daniel.Lux@gov.ab.ca
Address:	8 th Floor 9920 108 St Edmonton Alberta T5K 2M4

Citation

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Online Linkage:	srd.alberta.ca/LandsForests/ForestManagement/ForestManagementStatistics/managingforestpestsstatistics.aspx

General Constraints and Security

Access Constraints:	General public access via the external ESRD web site.
Use Constraints:	General public use. See Disclaimer at: srd.alberta.ca/LandsForests/ForestManagement/ForestManagementStatistics .

Security Information:

Security Classification:	Unrestricted
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Keywords

Keywords:	aspen defoliators; forest pests; aspen defoliator survey results; tree pests; aerial survey; forest health; managing forest pests; Aspen; Forest Tent Caterpillar; Large Aspen Tortrix; Bruce Spanworm; Malacosoma disstria; Choristoneura conflictana; Operophtera bruceata
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Fall 2011 Aspen Defoliators Statistics: Tables 1 and 2, and Figure 3

General	
Title:	2007-2011 Aspen Defoliator Aerial Survey Tabular Data
Abstract:	These datasets summarize the 2007-2011 Aspen Defoliator Aerial Survey data. These surveys were conducted by Alberta Environment and Sustainable Resource Development.
Purpose:	To obtain a general overview of the extent of defoliation caused by Aspen Defoliators for the regions in the province.
Supplemental Information:	<p>The survey data were collected using the procedures from "Forest Health Aerial Survey Manual", Alberta Environment, May 1999. A summarized version of this procedure is available at:</p> <p>http://www.srd.alberta.ca/LandsForests/ForestHealth/ForestHealthDataStandards/Default.aspx</p> <p>These surveys were conducted over forested public land where infestations are known to occur, for operational purposes. There may be additional defoliated areas that are yet to be detected. The area excludes Wood Buffalo National Park.</p>
Time Period and Status	
Time Period of Content:	Survey Year (June to July) From: 2007 To: 2011
Maintenance Progress:	Preliminary
Update Frequency:	Annual
Date of Last Update	2012-01-30
Data Quality and Process Information	
Source Information:	The survey data for each year were digitized double precision using TTM coordinates in ArcInfo from 1:250,000 base maps. These surveys were conducted by Forest Health Officers and/or Technicians from June to July of each survey year.
Assumptions:	<ol style="list-style-type: none"> 1. Large areas of defoliation may have a combination of Light, Moderate, and Severe defoliation, but are classed by the most common severity rating for that area. 2. The defoliation is assumed to be due to an aspen defoliator in areas where it has not been ground-truthed, but the visible symptoms are similar to those on pest-defoliated trees.
Process Description:	<p>The polygons were captured using a digital sketch mapping program on a tablet PC and were also hand sketched on 1:250,000 maps while flying in a fixed wing aircraft, visibility approximately 10 km. The polygons were digitized from the aerial survey.</p> <p>The statistics were calculated by overlaying 2007-2011 aerial survey data with Land-use Framework Planning Regions.</p>

Process Date	2012-01-30
Attribute Information	
Attribute Description:	<p>Land-use Framework Planning Region - seven regions established by the Government of Alberta for regional planning.</p> <p>Total area of scattered defoliation (ha) - the gross number of hectares (i.e., not excluding non-host tree species) of defoliated aspen recorded during the aerial survey. The severity categories are as follows: Light= <35 % defoliation; Moderate = 35-70% defoliation; Severe = >70% defoliation</p> <p>Region Total- the total amount of scattered aspen defoliation in hectares observed during aerial surveys by each Land-use Framework Planning Region.</p> <p>Provincial Total- the total amount of scattered aspen defoliation in hectares observed during aerial surveys in Alberta.</p> <p>Year- The Survey Year (2007-2011) from June to July.</p> <p>See also Glossary of Terms</p>