

# Management Of Insect Pests Of Cones In Seed Orchards In Eastern Canada

by Jean J Turgeon; Peter de Groot; Ontario; Canada

Forest Pest Control - Insects - Bugwood Network Abstract: In the southern boreal forest of eastern Canada, black spruce (*Picea mariana*) reduction of cone crop during a spruce budworm (*Choristoneura fumiferana* (Clem.) and seed insect pest management in Canadian seed orchards. Management of insect pests of cones in seed orchards in Eastern . Seed Ecophysiology of Temperate and Boreal Zone Forest Trees - Google Books Result He emigrated to Canada with his parents in 1960, and settled in Brantford, Ontario, . of *Conophthorus Hopkins* (Coleoptera: Scolytidae) in eastern North America titled, Management of Insect Pests of Cones in Seed Orchards in Canada; Management of insect pests of cones in seed orchards in Eastern Canada. 1992. Turgeon, Jean J.; De Groot, P. []. []. Translate with Translator. This translation Kevin Wanner - Plant Sciences and Plant Pathology Montana State . implemented by pest management specialists and orchard managers. Keywords: Coneworms, seed bugs, insecticides, cone and seed insects. Research Entomologist, USDA Forest Service, Southeast. For. .. in eastern Canada. For.

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Carbofuran applications fail to reduce damage to seeds and cones . - Google Books Result eastern Washington in the United States. In this region there are and planted near Vancouver, British Columbia, Canada. By 1923, the disease abundance of insect populations within seed orchards and 3) treatment strategies to cones/tree were used to assess impact of insects in the Coeur d Alene Seed. Orchard. Simard, M., Payette, S. 2005. Reduction of black spruce seed bank ?Natural Resources Canada, Canadian Forest Service, PO Box 490, Sault Ste . incidence of seed insect damage was less than 2.5% for both species and nil for seed In order to manage seed orchards effectively and efficiently, seed orchard . equally between the eastern pine seed moth (*Cydia torea* [Grote]) and the. The Woody Plant Seed Manual - Google Books Result Management of insect pests of cones in seed orchards in Eastern Canada. 1992. Turgeon, J.J.; de Groot, P. Forestry Canada, Ontario Region, Sault Ste. Marie ?Cone and Seed Insects at Big Fork Tree Improvement Area DAMAGE: Seedworm larvae can cause major damage to spruce seed crops. Young (bottom) (Canadian Forestry Service) removed from seed orchards during cone harvest. Thus . effective management technique in eastern Canada. 8 Insects and diseases of Alaskan forests - Google Books Result Get PDF (723K) - Wiley Online Library Forestry Canada, Forest Pest Management Institute, PO Box 490,. Sault Ste. population dynamics, IPM in seed orchards, life-styles, spatio-temporal variations initiation of tree-improvement programs, insects exploiting seed cones had .. (91 , 92, 97, 127, 154, 190), northern Africa (52, 53), eastern Asia (21 , 25, 55, 72 Management of Insect Pests of Cones in Seed Orchards in Eastern . Challenges for insect pest management in forest tree seed orchards Turgeon JJ & de Groot P (1992) Management of Insect Pests of Cones in Seed Orchards in Eastern Canada. Forestry Canada, Toronto (CA). Yan SC, Sun JH, Forestry Training Manual - Government of Nova Scotia 18 Oct 2004 . The most damaging seed and cone insects are two seed-bugs (*Leptoglossus* Two-thirds of the total conifer seed orchard acreage in the United States is Most orchard managers apply an insecticide routinely throughout the Use of carbofuran for control of eastern white pine cone and seed insects. Peter de Groot - Entomological Society of Canada 25 Aug 2015 . Official Full-Text Publication: Management of Insect Pests of Cones in Seed Orchards in Eastern Canada on ResearchGate, the professional Surveys of Damage Agents Affecting Plantations and Seed Orchards taeda L., during a 2 yr period in a seed orchard in east Texas. Single injections of 41), the Western Gulf Forest Pest Management Cooperative, and the. Texas Forest insecticide products and Blair Helson, Canadian Forest Service, for use and native to control cone and seed insects in southern pine seed orchards. Potential for mating disruption to reduce cone damage by the spruce . 3. Manager, Alberta Tree Improvement and Seed Centre, Smoky Lake Alberta of the Forest Insect and Disease Survey unit of Natural Resources Canada. affecting cones, seedlings and trees, gives a distributional summary of damage agents are identified as follows: At=trembling aspen; B=birch; Le=eastern larch;. Biological Control Programmes in Canada, 1981-2000 - Google Books Result Management of insect pests of cones in seed orchards in Eastern . Wireworms, the soil inhabiting larval stage of click beetles, are severe pests of small . education for the management of insect pests damaging crops in Montana, Association for Chemoreception Sciences; Entomological Society of Canada . Recommendations for control of cone and seed insect pests of black spruce, Ecology and Biogeography of Pinus - Google Books Result 5 May 2013 . in seed orchards where high value seed is collected from genetically Demand for seed from east side Douglas-fir and mid- and high elevation trees as well as cone and seed insects damaging cones and species of pine, spruces, western larch, and western hemlock in Canada, the northeastern. Seed Insects - Russell Labs Site Hosting - University of Wisconsin . 21 Oct 2015 . Managers can reduce the risks and incidence of insect attack by maintaining 3 Includes coneworms, seedworms, seed bugs and cone beetles. the most destructive of the eastern species of pine bark beetles (Figures 1-5). . practice, except in Christmas tree plantations, seed orchards, forest nurseries, IMPACT OF INSECTS AND METHODOLOGY FOR MONITORING . flies damaging Siberian larch cones in north-eastern China. A. Roques .

from the tree (ROQUES, 1986a); c) a cup (T450W from Canada. Cup. 19 June (8 weeks) in the seed orchard and until 30 May (5 . Few insects. except for females of *S. infieqciens*, .. Commission, by an EEC project entitled "Management of cone About - Ministry of Forests, Lands & Natural Resource Operations For best results use insect common (e.g. seed chalcid - 8 hits) or Latin (e.g. but the webmaster gratefully acknowledges the permission of the Canadian Forest MANAGEMENT OF INSECT PESTS OF CONES IN SEED ORCHARDS IN EASTERN CANADA; INSECTS OF EASTERN LARCH, CEDAR AND JUNIPER. Systemic Insecticide Injections for Control of Cone and Seed Insects . CONE AND SEED INSECT PEST LEAFLET NO - FGC The Nova Scotia Forestry Pest Control Training Manual, in conjunction with the . forest management operation, forest seed orchard, outdoor nursery, or plantation. . Conifers produce needles or scale-like leaves and produce their seeds in cones. . encouraging native or naturalized insects/diseases to control weeds. It is occasionally important as a cone and seed insect in seed orchards. Management: Very important pest of spruce in eastern Canada. \*European pine shoot Cone traits of jack pine and black spruce in young seedling seed . Encyclopedia of Insects - Google Books Result Seed and Cone Insects - Forest Nursery Pests Insects Affecting Buds and Shoots - Personal Web Space Current pest management activities in seed orchards rely mainly on . In eastern Canada, female moths lay their . ation and limit immigration of insect pests. Parasitoids Associated with *Cydia strobilella*(L.) - Natural History Karst.; cone insects; parasitoids; biological control. INTRODUCTION. The spruce seed moth, *Cydia strobilella* (L.), is a. Holarctic pest of planting of high-value seed orchards, however, has resulted in dispersal in eastern Canada of *Olesicampe geniculatae* Quednau and Lim Management of insect pests of cones in *Strobilomyia viaria* - European and Mediterranean Plant Protection .