

CONTENT

	Page
Preface	ix
1. Chemical and Biological Agents in Forest Pest Management : Historical Overview	1
Control Agents	
2. Use of Herbicides for Industrial Forest Vegetation Management	11
3. Management of Bark Beetle Populations : Impact of Manipulating Predator Cues and Other Control Tactics	25
4. Sex Pheromones and Their Potential as Control Agents for Forest Lepidoptera in Eastern Canada	35
5. Mass Trapping of <i>Ips typographus</i> with Pheromone-Baited Traps	49
6. Baculovirus : An Attractive Biological Alternative	55
7. Integrated Pest Management (IPM) in Forestry	69
Spray Deposition	
8. Technological Progress in Aerial Application of Pesticides	79
9. Physical Parameters Affecting Aircraft Spray Application	95
10. Deposition of Chemical and Biological Agents in Conifers	117
11. Droplet Deposition and Drift in Forest Spraying	139
12. Modeling of Aerial Spray Drift and Canopy Penetration	153
13. Air Circulation in forested Areas : Effect on Aerial Application of Materials	175
Target and Nontarget Residue Distribution	
14. Importance of Volatilization as a Pathway for Pesticide Loss from Forest Soils	193
15. Vapor Phase ReDistribution of Aminocarb and Transformation Products from Leaf Surfaces	211
16. Implications of Pesticide Photochemistry in Forestry Applications	227
17. Fate of Chemical Insecticides in Foliage and Forest Litter	241
18. Fate of Chemical Insecticides in Aquatic Environments : Forest Spraying in Canada	253
19. Fate of Fenitrothion in Shaded and unshaded Ponds	277
20. Bioaccumulation of Some Forestry Pesticides in Fish and Aquatic Plants	297
Ecotoxicology and Hazard Assessment	
21. Monitoring Human Exposure During Pesticide Application in the Forest	319
22. Pesticide Drift : Toxicological and Social Consequences	331
23. Ecotoxicity of Adjuvants Used in Aerial Spraying	351
24. Environmental Impact Assessment of Insecticides Used in canadian Forests	365
25. Mount St. Helens : The May 1980 Eruptions and Forest Rehabilitation	377
26. Use, Ecotoxicology, and risk Assessment of Herbicides in the Forest	381
Author Index	397
Subject Index	397