STRATEGIC PLAN FOR INVASIVE WEED & AGRICULTURAL PEST MANAGEMENT AND PREVENTION IN ALASKA



2011-2016

Department of Natural Resources



Division of Agriculture Plant Materials Center

April 2011

Table of Contents

Introduction
Table 1. Selected invasive plants known to invade natural areas or currently confined
to the human footprint in Alaska
Figure 1. Typical species invasion curve
Figure 2. Spotted knapweed
Figure 3. Examples of invasive species with apparent impacts
Scope, Mission and Vision
Prevention
Table 2. Contaminant species found in nursery stock
Table 3. The level of concern for nursery stock contamination based on nursery plant
type and planting medium
Objective 1: Facilitate production and distribution of certified weed free products
Objective 2: Promote cooperation with established regulations, and increase
enforcement where necessary
Regulations and Policy
Table 4. Possible categories for invasive weed and agricultural pest lists
Objective 1: Ensure appropriate invasive weeds and agricultural pest regulations are
established
Objective 2: Promote cooperation with established regulations, and increase
enforcement where necessary
Coordination
Figure 4. Cooperative weed management area locations in Alaska 1
Objective 1: Formalize coordination efforts amongst land managers and interest
groups associated with invasive weeds and agricultural pest management 1
Objective 2: Facilitate invasive weeds and agricultural pests managers in contacting ap
propriate land managers and permitting groups when implementing projects 1
Early Detection and Rapid Response 1
Figure 5. Examples of EDRR in Alaska
Objective 1: Increase efforts for early detection of invasive weeds and agricultural
pests 1
Objective 2: Speed the rapid response to invasive weeds and agricultural pests 1
Objective 3: Coordinate state and local groups to recognize local EDRR priorities 1
Control and Management 1
Table 5. Invasive weeds and their potential for eradication
Figure 6. Example of Integrated Pest Management applied in Alaska 1
Objective 1: Facilitate utilization of IPM strategies for strategic management of
invasive weeds and agricultural pests 1
Objective 2: Address identified barriers to management of invasive weeds and agricul-
tural pests

Figure 7. Purple loosestrife infestation in Westchester Lagoon, Anchorage	. 18 . 18 . 19 . 19 ed,
Education	20
Figure 9. Educating youth has lasting impacts	
Objective 1: Target education work to priority subjects with key groups of people	
Objective 1: Target education work to priority subjects with key groups of people Objective 2: Broaden educational awareness of all invasive weeds and agricultural	. 41
pest management issues	21
Objective 3: Form lasting awareness of invasive weeds and agricultural pest issues	. 21
through education of youth	22
Research	. 23
Table 6. A selection of plants that are considered invasive in Alaska and their status	;
in other parts of North America	. 23
Figure 10. Ecogeographic regions of Alaska used in the ranking project	. 23
Figure 11. Orange hawkweed at Karluk Lake before and after treatment	
Figure 12. Plot treatments for reed canarygrass comparing a chemical and	
non-chemical control	
Objective 1: Research impacts of invasive weeds and agricultural pests to natural re	
sources and the economy	. 25
Objective 2: Develop an understanding of effective control techniques, and how	2.5
those control techniques affect the surrounding environment	. 25
Appendix A: Key to Acronyms	26
Appendix B: Works Cited	
Appendix C: Authorizing Legislation	
Appendix D: Alaska checklist of 33 stat tools for management of invasive species	. 29
Appendix E: 2010 forest insect and disease activity as detected during aerial surveys in	24
Alaska by land ownership and agent	
Appendix F: Timeline for completing action strategies	. 32

