British Columbia Ministry of Forests
Invasive Alien Plants Program

Control Measures Standards – Interim for 2004

1. Planning Phase:

1.1. An inventory consistent with the British Columbia Ministry of Forests Invasive Alien Plants Program **Inventory Standards - Interim for 2004** will have been conducted prior to developing a control plan.
1.2. Invasive plants control plans must be developed in consideration of current strategic plans such as those held by provincial and regional government agencies (e.g. MoF).
1.3. Invasive plants control plans must state objectives and goals.
1.4. An invasive plants control plan will contain a rationale for determining target species consistent with the *Forest and Range Practices Act* Invasive Plants Regulation and *Weed Control Act* Weed Control Regulation.
1.5. All planned herbicide applications must be consistent with all relevant *Acts*, regulations and associated permits and plans.
1.6. Control plans using a containment strategy will design containment fronts consistent with the "Potential spread distance per year" indicated in the Vector Matrix Table - Column F.
1.7. Control plans will be co-ordinated with the activities of other agencies. Consultation will take place with adjoining planning groups to ensure compatibility of objectives.
1.8. The MoF's Regional Invasive Plants staff will be consulted during the planning phase to ensure that plan objectives are consistent with biological control agent development or research activities.

2. Implementation Phase

2.1 Objective: – Extirpation / Initial Attack

2.1.1. One hundred percent (100 %) of all known sites of the target invasive plant species within the plan area will be treated prior to seed set if seed drop is indicated as the main vector of spread in the Vector Matrix Table - Column B; or they will be prevented from developing seed. All treatment information will be entered onto a Chemical and Mechanical Treatment Record.
2.1.2. All treated sites will be checked in a two-pass system allowing a minimum of two weeks between passes. Additional treatment information will be entered onto a Chemical and Mechanical Treatment Record.
2.1.3. Invasive plant site treatments will include checking the area beyond the last treated plant for immature plants according to the "Weed treatment search radius beyond last plant" distance prescribed in the Vector Matrix Table - Column G.
2.1.4. Acceptable level of missed plants within the treatment area is zero percent (0%) for the treatment year.
2.1.5. Acceptable level of treated plants surviving at the end of the growing season is zero percent (0%).
2.1.6. Annual monitoring completed as per the "Inventory search distance around known sites" as prescribed in the Vector Matrix Table - Column E.
2.1.7. Treatment monitoring will consist of inspecting all target invasive plant species within the site to determine mortality.
2.1.8. One hundred percent (100 %) of plants not killed in the year of treatment will be prevented from setting seed.
2.1.9. Percent of sites that will be monitored for efficacy of treatment will be according to requirements of the relevant Pesticide Use Permit or Pest Management Plan, and if not so specified**,** for at least 20% of the treated sites for that treatment year. All monitoring information will be entered onto a Chemical and Mechanical Monitoring Record .
2.1.10. If during monitoring, treated plant or missed plant survival is found to be in excess of one percent (1%), all treated sites of that contract will be monitored.
2.1.11. Monitoring records will be kept on file for future evaluation.

2.1.12. At the end of the field season a program effectiveness evaluation will take place to determine if the objective was achieved. Extirpation is a multiyear objective for a specific invasive plant site requiring annual application of extirpation control standards 2.1.1 to 2.1.12 until the invasive plant seed bank resources have been extinguished and extirpation has been demonstrated to be in effect for several years.

2.2. Objective: Containment

2.2.1. One hundred percent (100 %) of the targeted invasive plant species sites beyond the containment boundary will be treated. All treatment information will be entered onto a Chemical and Mechanical Treatment Record.
2.2.2. All treated sites will be checked in a two-pass system allowing a minimum of two weeks between passes. Additional treatment information will be entered onto a Chemical and Mechanical Treatment Record.
2.2.3. Invasive plant site treatments will include checking the "Weed treatment search radius beyond last plant" for the distance prescribed in the Vector Matrix Table – Column G.
2.2.4. Acceptable level of missed plants within the treatment area is zero percent (0%) for the treatment year.
2.2.5. Acceptable percentage level of plants surviving on a site at the end of the growing season is zero percent, unless otherwise specified by a specific project.
2.2.6. Percent of sites that will be monitored for efficacy of treatment will be according to requirements of the relevant Pesticide Use Permit or Pest Management Plan, and if not so specified, for at least 20% of the treated sites for that treatment year. All monitoring information will be entered onto a Chemical and Mechanical Monitoring Record .
2.2.7. Annual monitoring completed as per the "Inventory search distance around known sites" as prescribed in the Vector Matrix Table – Column (E).
2.2.8. Monitoring will include of inspecting all target plants within the site to determine mortality.
2.2.9. Monitoring records will be kept on file for future evaluation.
2.2.10. At the end of the field season a program effectiveness evaluation will take place to determine if the containment objective was achieved.
2.2.11. Biocontrol agents will be used in a containment program when available, to reduce the seed bank in areas that cannot be effectively treated by other means.

2.3 Objective: Rehabilitation

2.3.1. The standard for rehabilitation of infested sites will be the use of good resource management practices and the encouragement of healthy biological control agent populations where available unless the use of other treatment techniques can be justified with a long-term cost/benefit analysis. Biological release treatment information must be recorded on a Biological Control Release Record.
2.3.2. Disturbed soils will be re-vegetated with ecologically suitable species as soon as possible, but no later than 2 years, after a soil disturbance (Forest Planning and Practices Regulation).