

Appendix 6

Integrated Pest Management Plan

Integrated Pest Management Plan (IPM)

Field observations have confirmed the presence of a major infestation of common buckthorn (*Rhamnus cathartica*) or glossy buckthorn (*Frangula alnus*). In some cases this invasive species has completely taken over large portions of the understory, choking out all other species. The outbreaks seem to be associated both with soil condition (wet areas) and light treatment. Given the widespread nature of this infestation a significant, multi-measure control plan should be considered at this time. Currently, there are no known biological control measures available for buckthorn control as is the case for Purple Loosestrife.

The control plan should include a means of mechanically cutting the well established stems, some of which are 20' tall. Plants this tall can not be adequately controlled, and increases the risk of applying chemicals off target, if a chemical approach is selected.

Further I have identified smaller populations of the significantly less insidious Japanese barberry (*Berberis vulgaris*). These populations should be addressed during the entries where Buckthorn will be the primary target.

IPM Action Plan

- Mechanically remove as much buckthorn as possible as part of harvest plan (winter 1009)
- Treat by hand those stems that were missed during harvest. (early spring 2010)
- Chemically treat sprouts with a quality sub-contractor (fall 2010)
- Hand pull remaining individual (summer 2011)
- Monitor and hand pull (ongoing)

Please note that the IPM is a living document and will be completed in conjunction with an independent vegetation control expert. Please see the following pages for more information on buckthorn.