Final Project Abstract:

A landscape level hazard rating system for the western blackheaded budworm has been developed. This system will help forest managers minimize the impact of this pest. A hazard rating system for the western hemlock looper for the interior of British Columbia has also been developed as part of a M.Sc. thesis at the University of Victoria. Within stands at high risk of looper outbreaks, pheromone traps have been operating annually and adult western hemlock looper populations have been monitored and summarized with the hope of predicting impending looper outbreaks. A stand level hazard rating system for the forest tent caterpillar has also been developed for the Prince George area. A probability surface of Outbreak 4 was calculated and superimposed on the area that was defoliated. There was a 90-95% correspondence, i.e. 90-95% of the predicted locations for outbreaks were in stands where Outbreak 5 occurred. This needs to be verified and calculated for other Forest Districts.