

Mountain Pine Beetle Ecology Program January 18, 2012

"Debugging Your Choices"

















Natural Resources Canada Ressources naturelles Canada





MPBEP Program

High lights of on- going projects

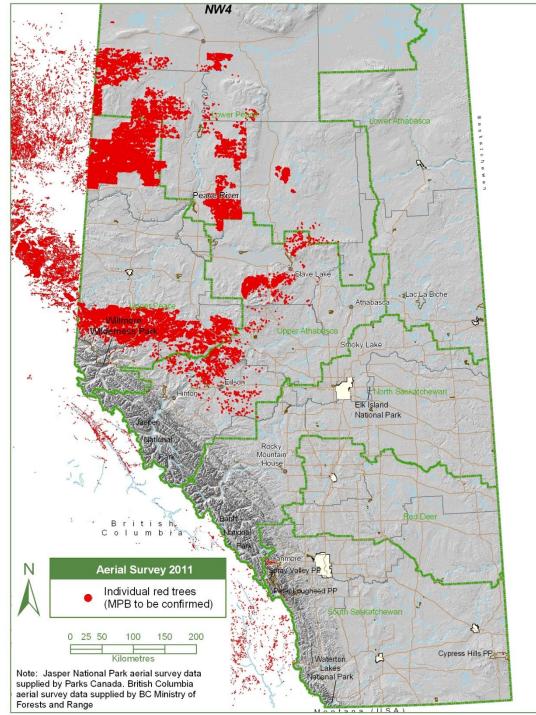
"Meeting the Challenge" areas

Where to next

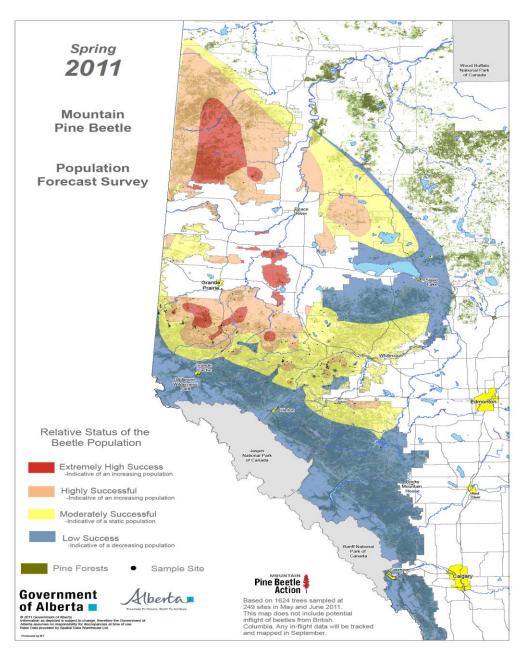














MPBEP Current Projects

- 1. Effects of Mountain Pine Beetle attack on hydrology and post-attack vegetation and hydrologic recovery in lodgepole pine forests in Alberta
- 2. Monitoring and Decision Support for Forest Management in a Mountain Pine Beetle Environment
- 3. Does prescribed fire affect population dynamics of mountain pine beetle? Evaluating population success and fitness on fire-injured trees





MPBEP Current Projects

- 4. Mountain Pine Beetle Phenology and Success in Whitebark Pine in Alberta
- 5. MPB population dynamics in new habitats and climates following range expansion: The potential for eastern and northern spread in Canada
- 6. Comparison of Understory Burning and Mechanical Site preparation to regenerate Lodgepole Pine Stands Killed by MPB





MPBEP Current Projects

- 7. Post mortality rate of wood degradation and tree fall in lodgepole pine trees killed by mountain pine beetle in the Foothills and Rocky Mountain regions of Alberta
- 8. The mountain pine beetle in novel pine forests: predicting impacts in a warming environment





MPBEP What works

Decision Support Tool

- 1. Involvement of Industry and government at the start
- 2. Use of existing sampling points and inclusion of new protocols
- 3. Preliminary development of tool
- 4. Beta test of tool with industry and government
- 5. Discussion of test comments and plan for enhancement of the tool





MPBEP What works

1. Relevant information

- Silvicultural treatments under standing dead pine
- Shelf life of standing dead pine after mpb
- Vegetation recovery under stand dead pine
- Hydrology recovery under standing dead pine





MPBEP Where to next

- 1. Fire Behavior changes
- 2. Influence of climate change
- 3. Impact on other insects and pathogens







MPB Affected Fuels Fire Behavior changes





Greer Creek June 19th 2010





A Partnership That Produces Results!

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