

Forest Health Update for the National Mountain Parks 2009

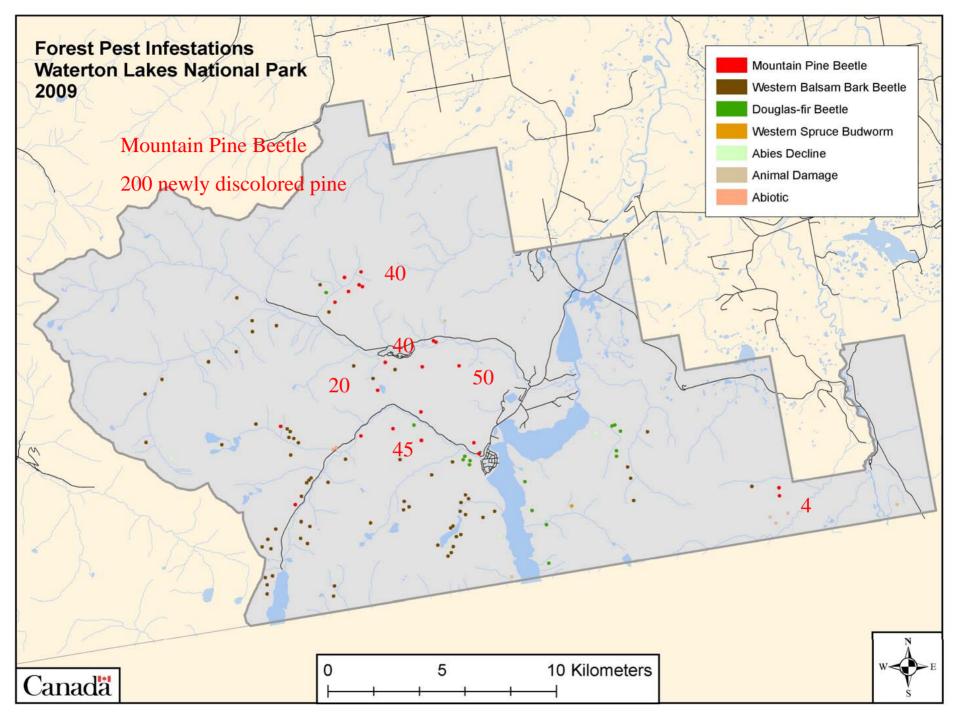




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Blakinston Creek (June 3, 2009)



ost Horse Creek Aug. 2009





urces Ressources naturelles Canada Discolored pine not affected by MPB only removed from aerial survey results if included in ground surveys

Armillaria at base of discolored pine

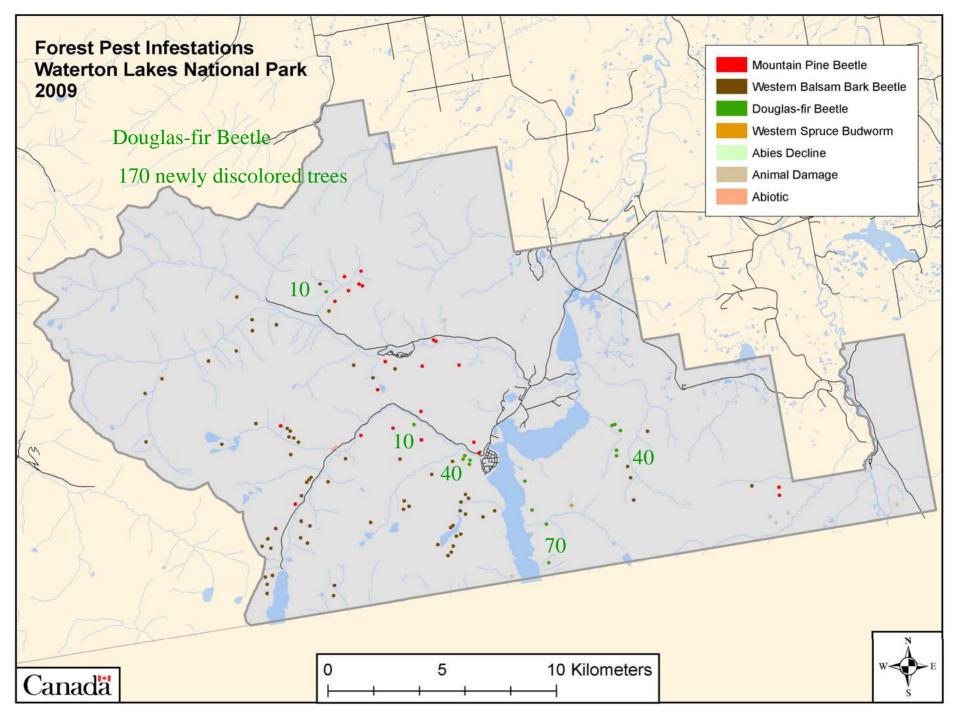


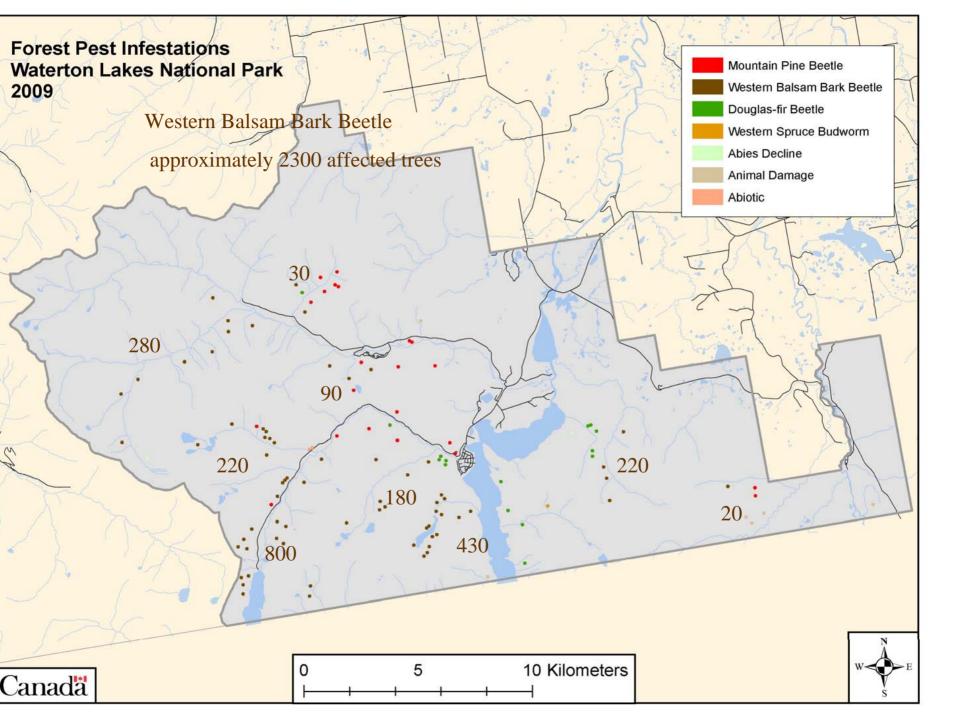






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Discolored Douglas-fir Upper Waterton La east shore

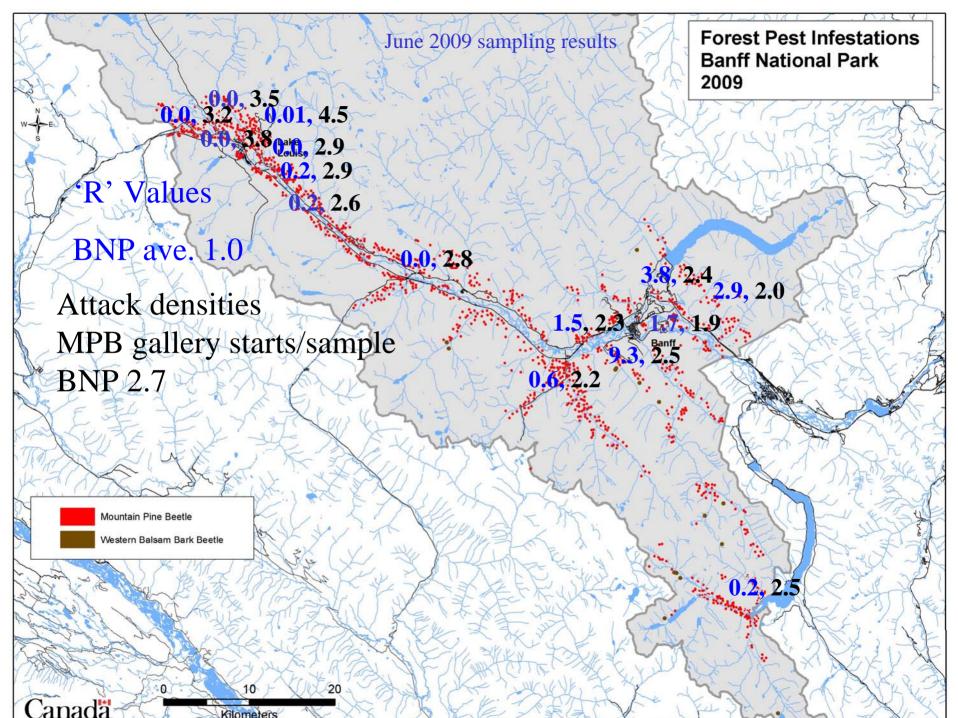




Discolored Abies Blankinston Falls trail









Lake Louise pipestone site with live 4 larvae (June, 2009)

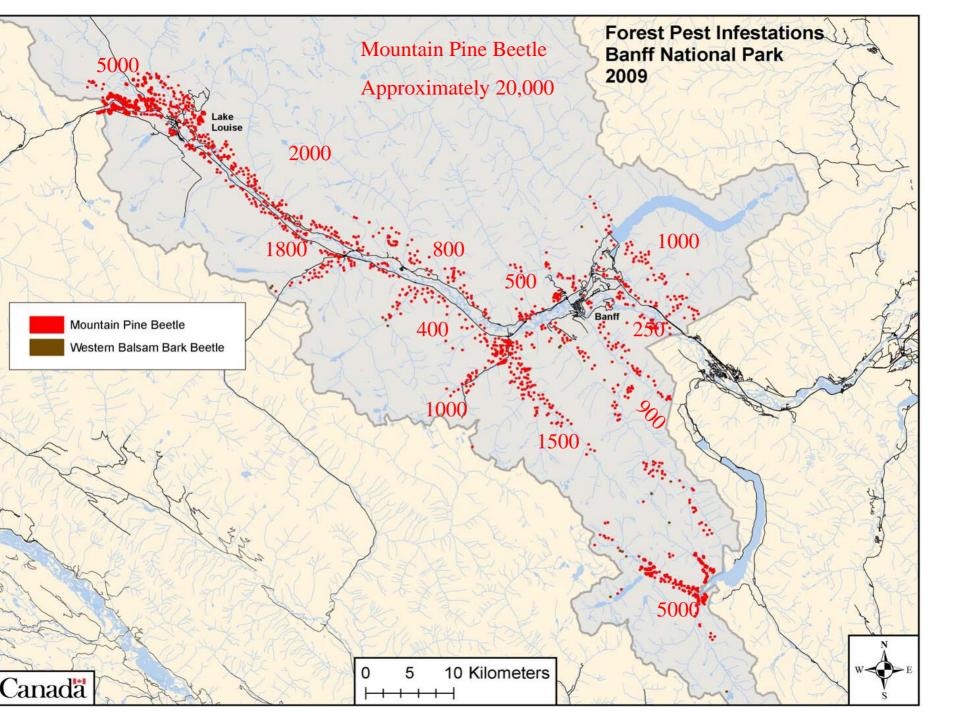




irholme, mortality of 1st-2nd instar larvae (16-10-09).









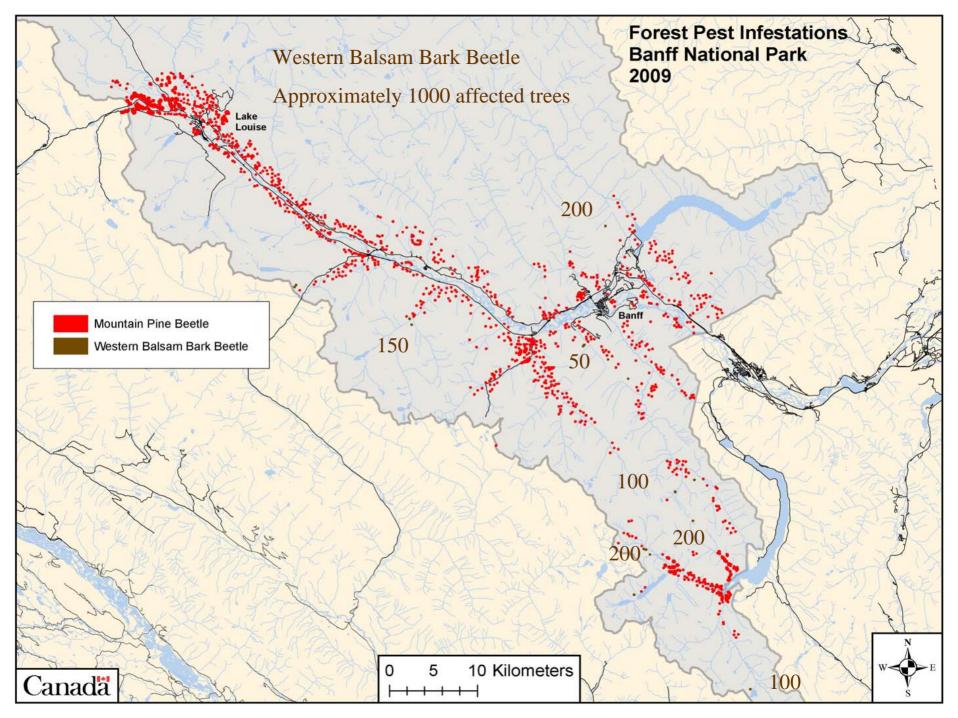
Bryant Creek drainage showing yellow color of pine recently affected by MPB (Aug. 200

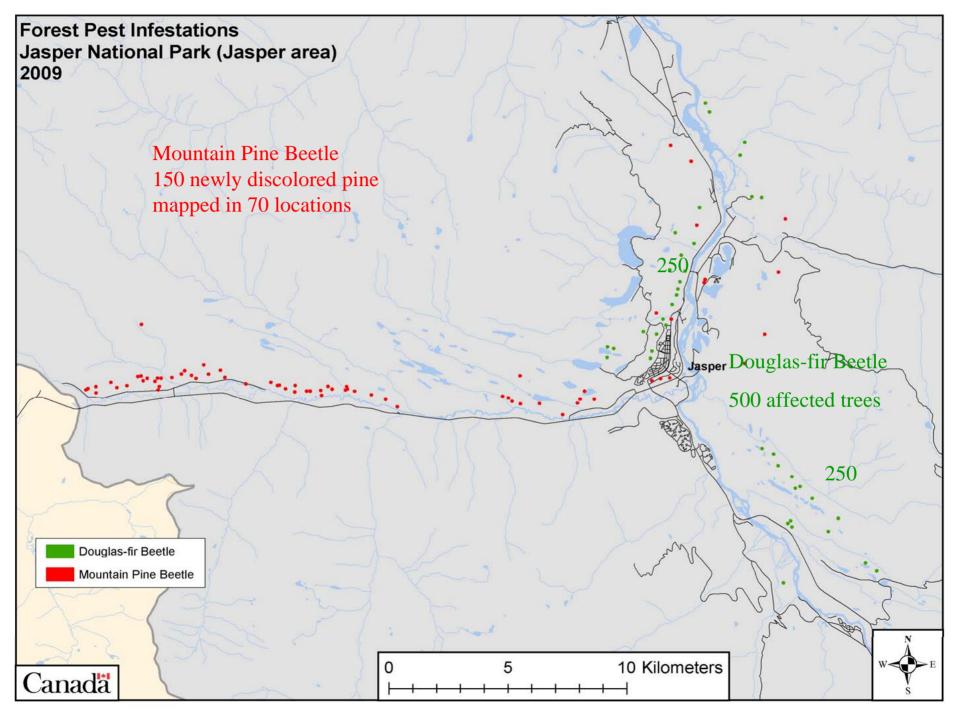


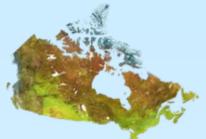




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Discolored Douglas-fir north of Jasper, (June, 2009)



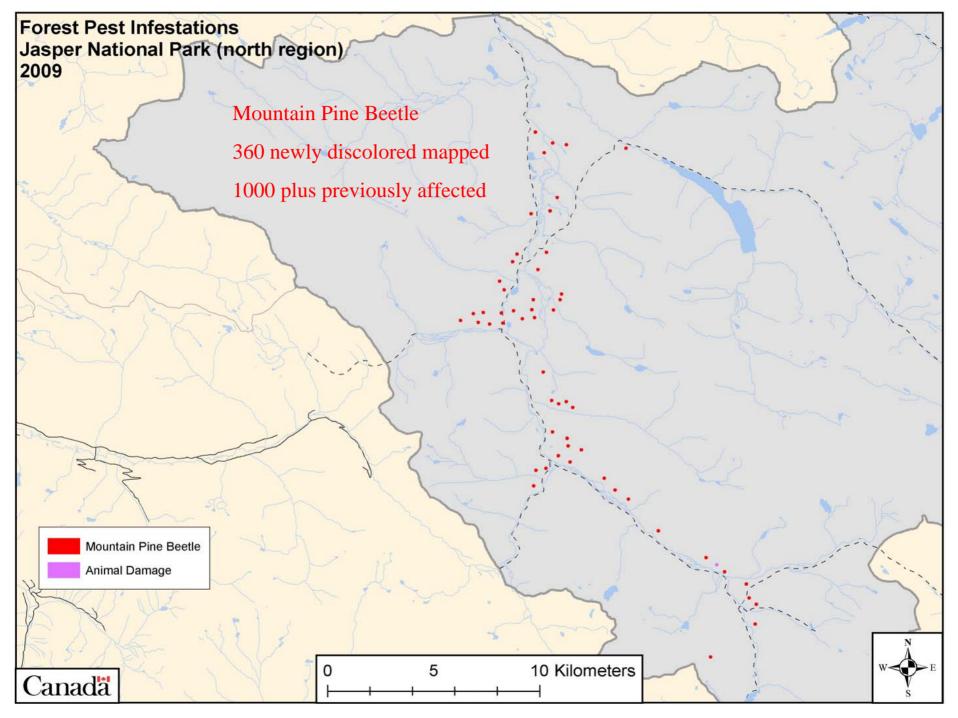


DFB in large diameter Douglas-fir (October, 2009)





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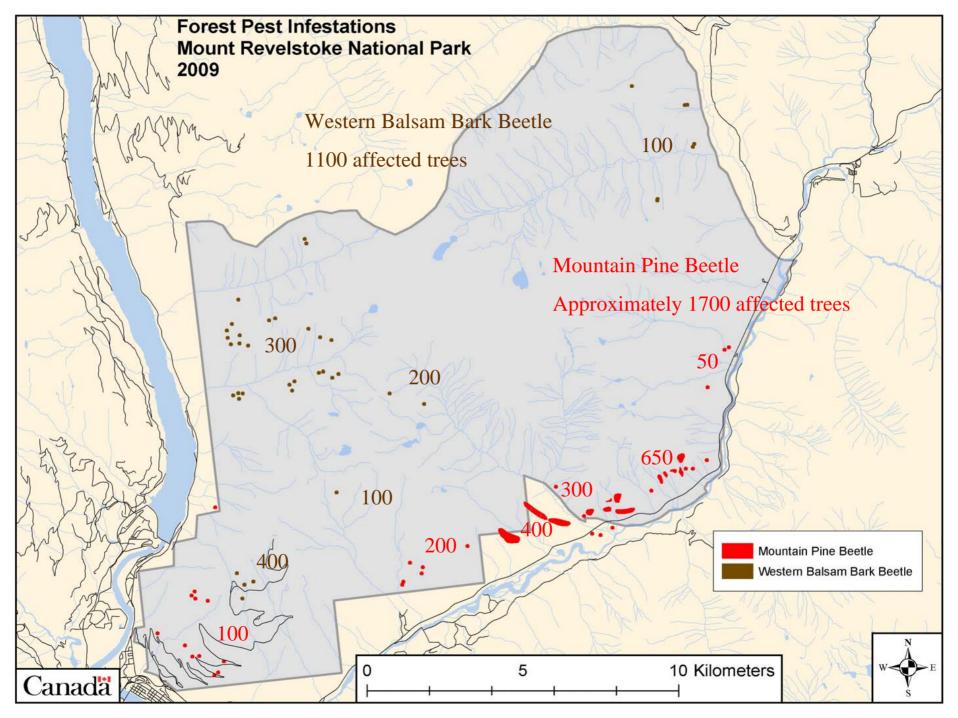
Discolored lodgepole pine along the Miette (June, 2009)

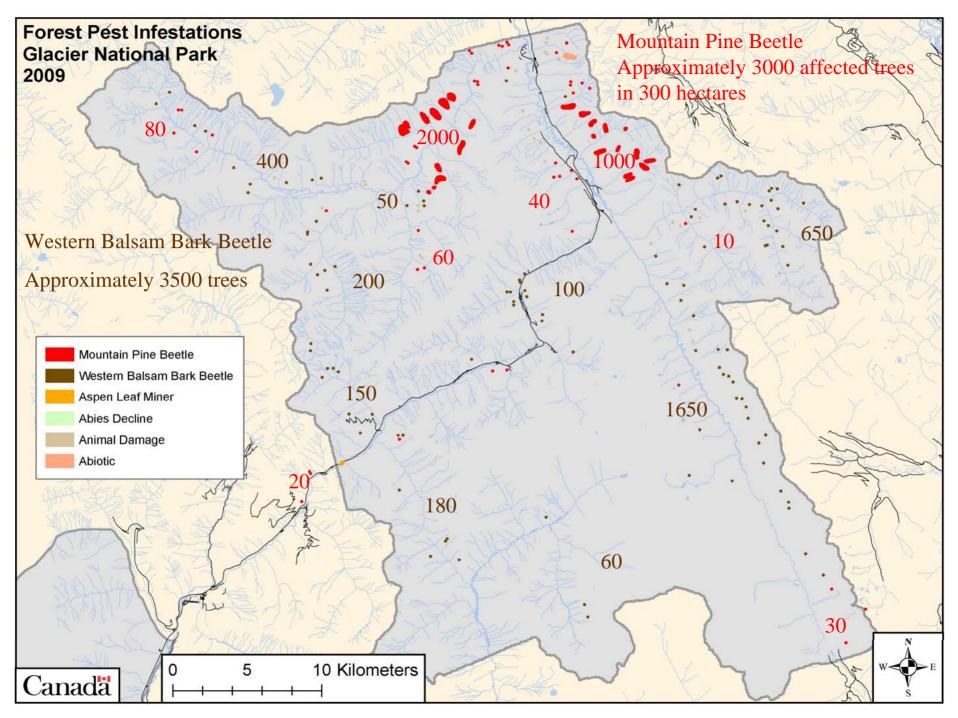


Discolored pine at the mouth of Chown Creek and Smoky River (Aug. 2009)



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MPB affected trees on a ridge west of Clachacuda Creek



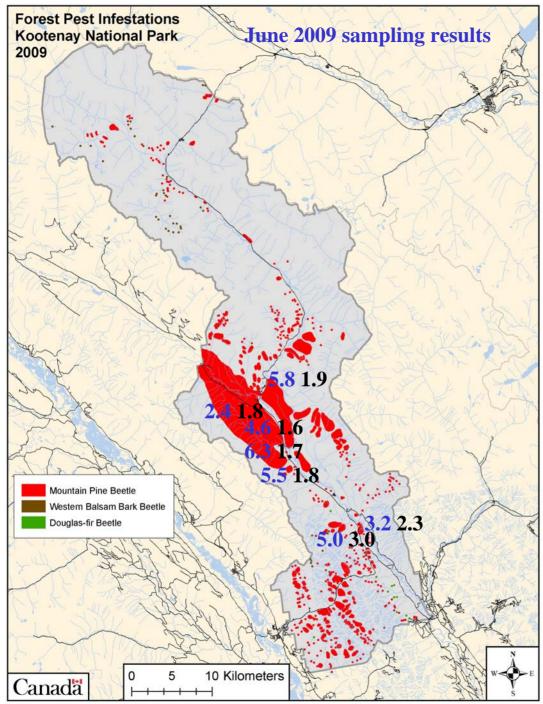


bred *P. albicaulis* mapped as a polygon by east





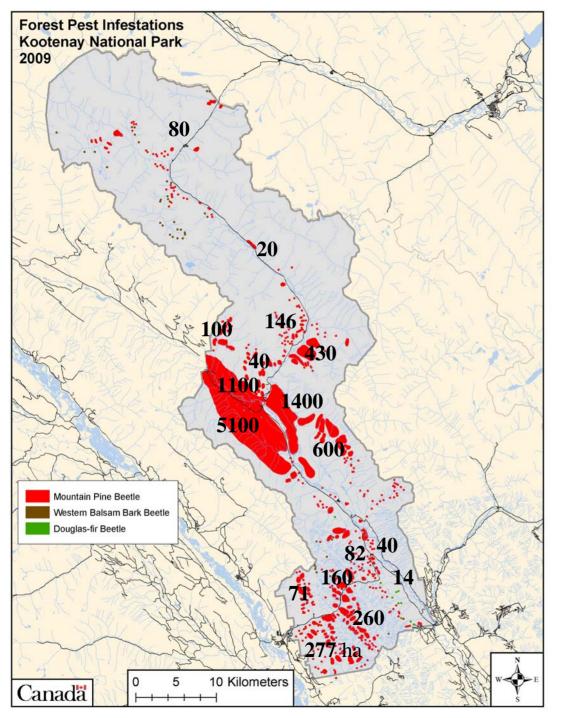
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Attack densities MPB gallery starts/sample Average 2.0

'R' Values

Average 4.7



Mountain Pine Beetle

affected approximately 10,000 hectares

areas shown in ha



Affected whitebark pine Sinclair Pass Aug. 2009

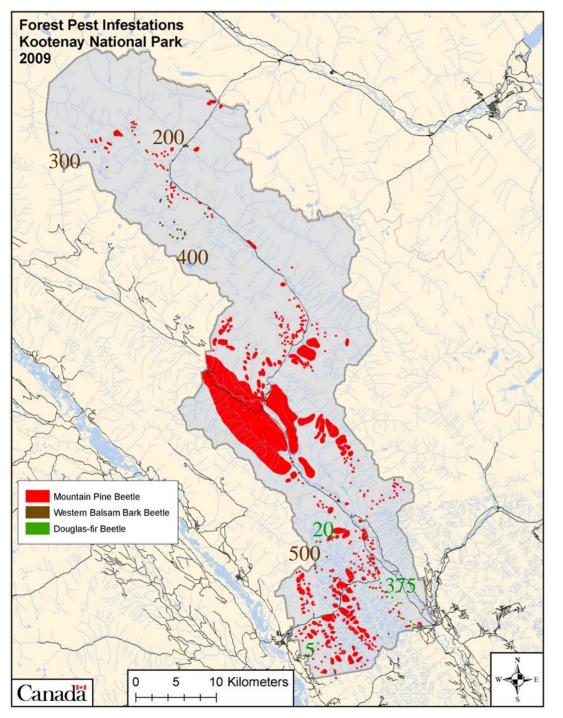




View from Kootenay Crossing with Dolly Varden in background







Western Balsam Bark Beetle

Affected an estimated 1400 trees

Douglas-fir Beetle Affected an estimated 400 trees



'R' values YNP (ave.) 3.6

Attack densities

MPB gallery starts/sample YNP 1.8

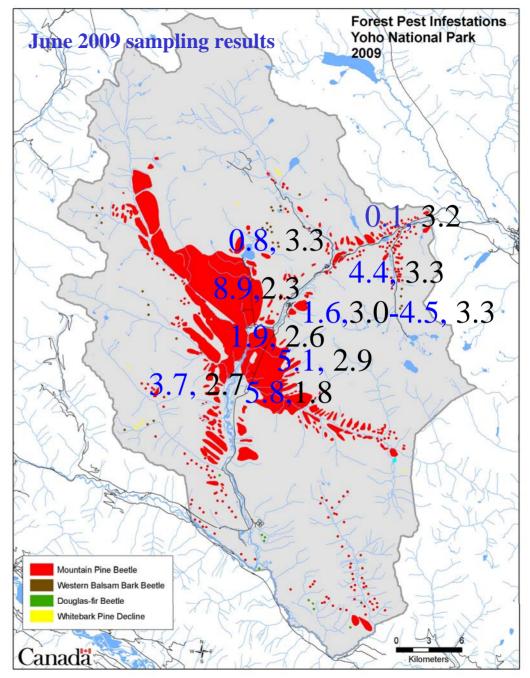
MPB/Sample (ave.)

3.9 x 1.8 = 7.0

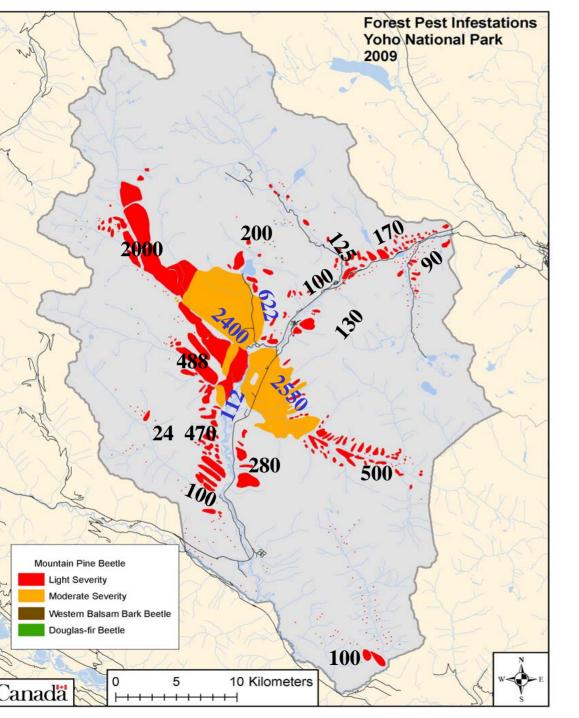
3.7 x 2.7 = 10.0

- 5.8 x 1.8 = 10.4
- 4.5 x 3.3 = 14.9

8.9 x 2.3 = 20.5







Mountain Pine Beetle

Areas shown in hectares

0-10% affected 6100 total (in hectares)

11-30% affected 5900 total (in hectares)



A view of the Kicking Horse River, Otte drainage top right.

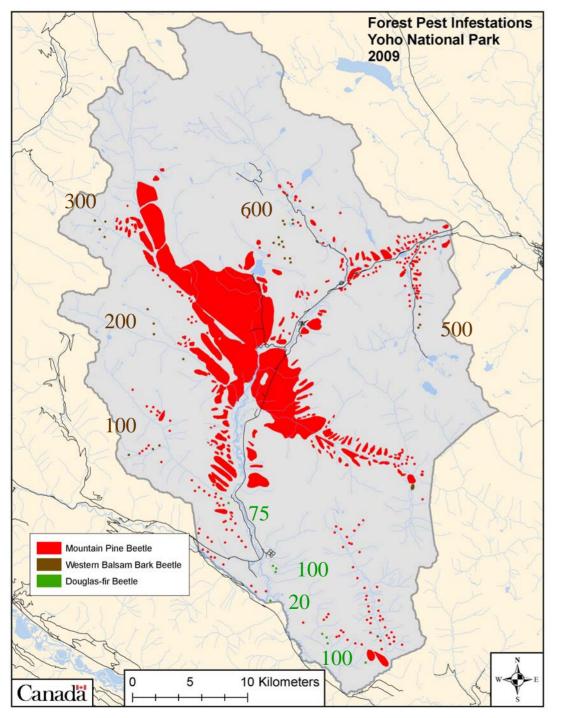




Upper Amiskwi River Drainage showing the pockets of MPB activity.







Western Balsam Bark Beetle Affected an estimated 1700 trees

Douglas-fir Beetle Affected approximately 300 trees



Discolored Douglas-fir mapped in Hoodoo burn





Discolored Douglas-fir near mouth of Porcupine Creek.





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Special Thanks

- Parks Canada: R. Kubian, J. Park, I. Pengally, D. Smith, B Sunbou, R. Schwanke, G. Walker, Fire and Trail crews
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- PFC: L. Humble, G. Thandi, L. Sanfranyik, B. Wilson et al.

Alpine Helicopters: pilots and technicians

