

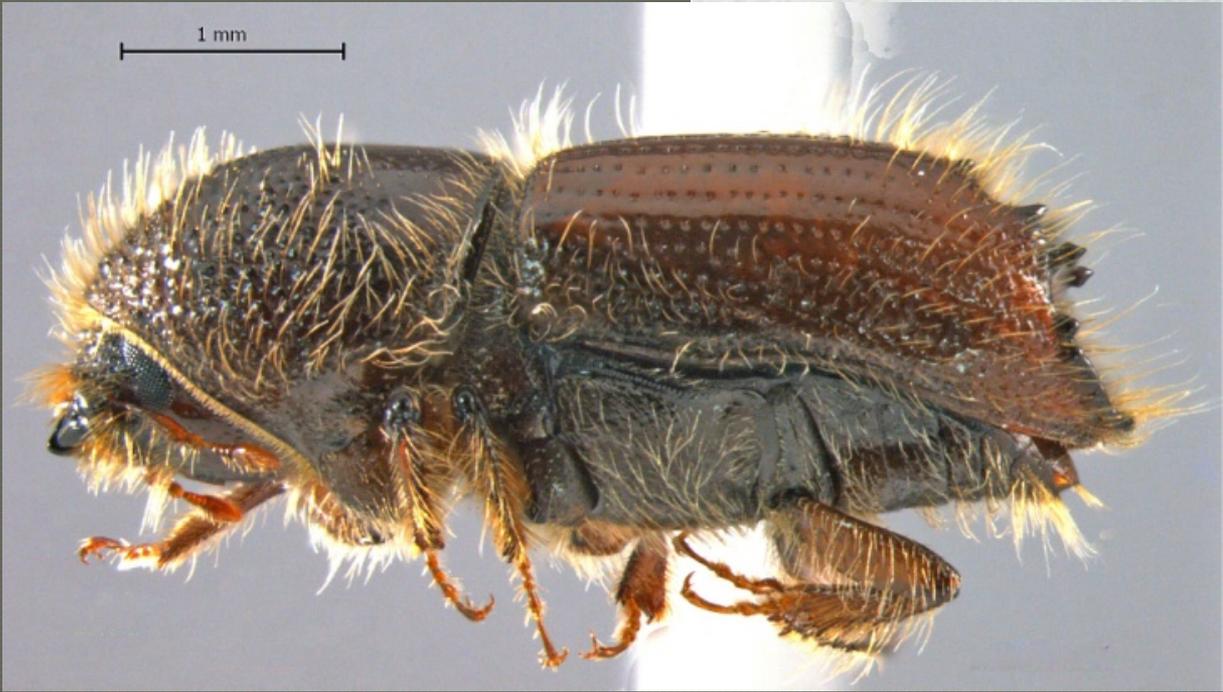
Northern Spruce Engraver Management: Beetle Responses To Slash and Fire

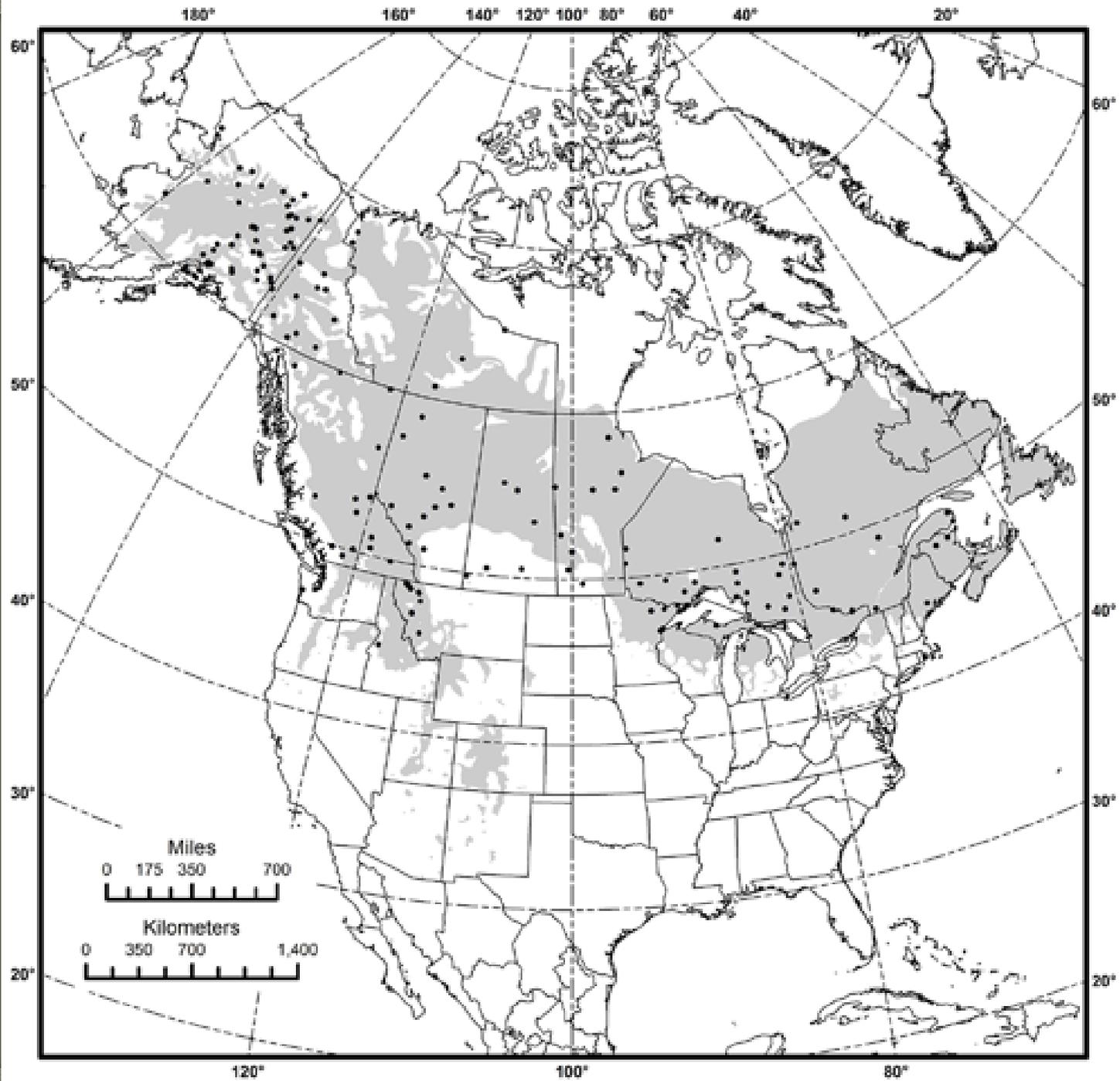


James Kruse, Ph.D.
USDA Forest Service
Forest Health Protection
Fairbanks Unit

Acknowledgements

- Nick Lisuzzo, Chris Hayes, Mark Schultz (ret.), Danny Cluck, Chris Dabney, and Chuck Frank (USDA Forest Service, Forest Health Protection)
- Roger Burnside, Jeff Hermanns, Jeremy Douse, Doug Hanson, and Steve Nickel (Alaska Department of Natural Resources)
- Chris Fettig and Steve McKelvey (Pacific Southwest Research Station)
- Dan Rees (Colorado State University)
- M. Sprau and E. Usborne (U.S. Army)
- W. Upton (Texas Forest Service)
- This work was supported, in part, by a USDA Forest Service Special Technology Development Program grant (R10-2009-01) and Forest Health Protection Region 10

















Slash management study – interior AK

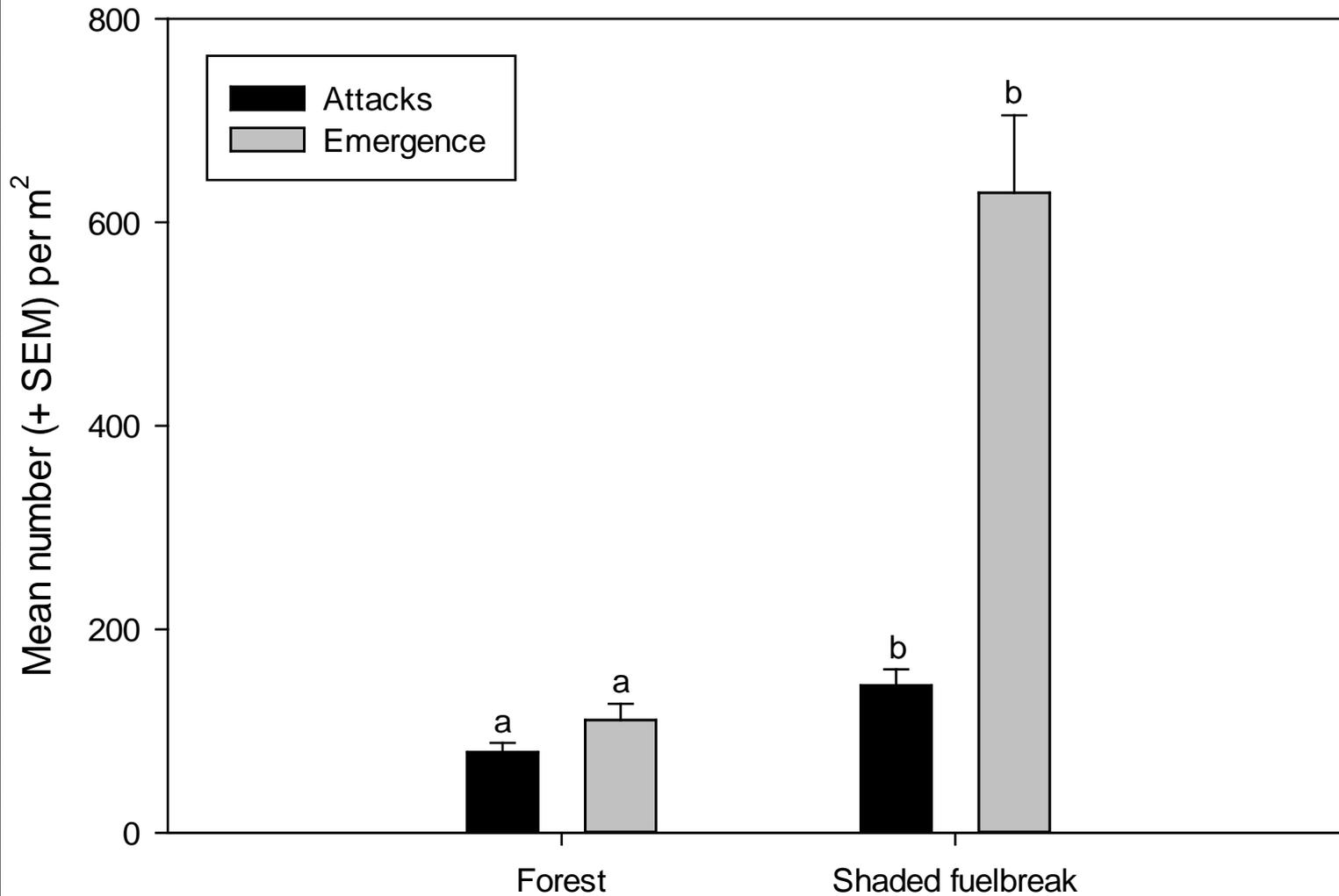


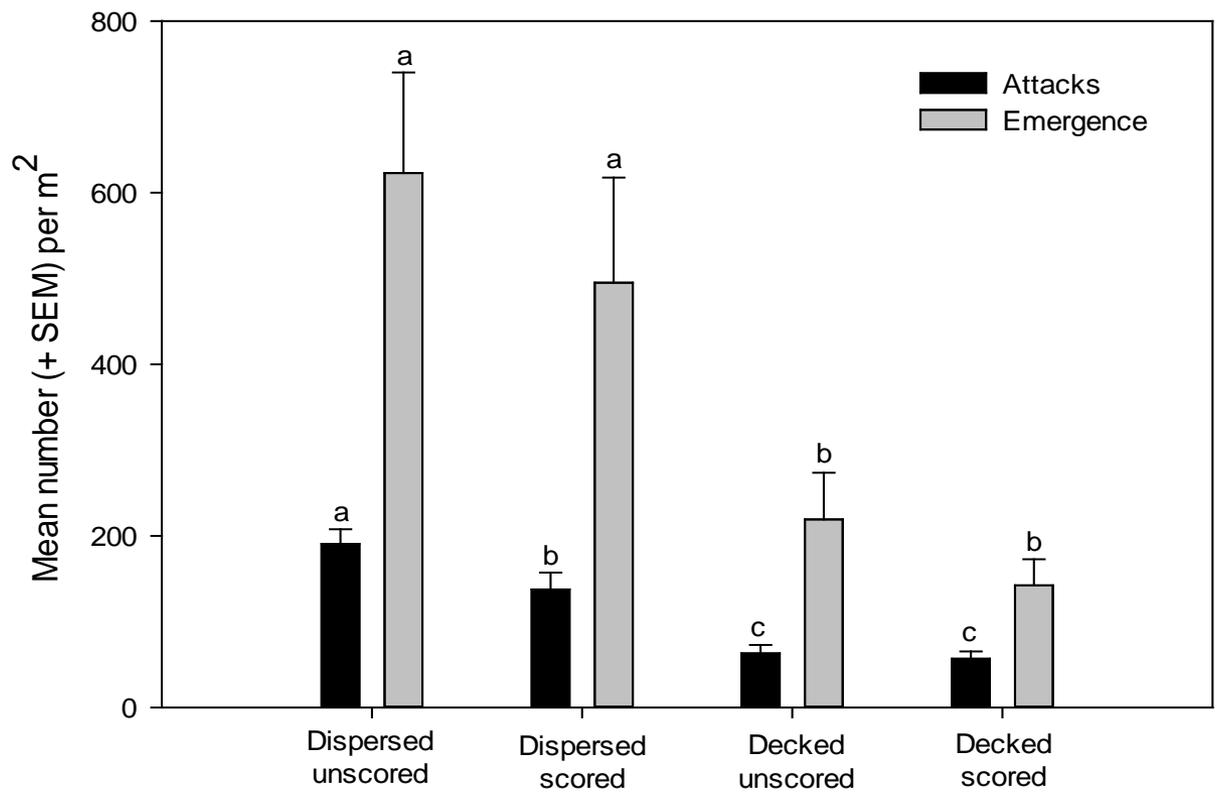


EXEMPT
REGARDING THE FOREST TREE
CUTTING

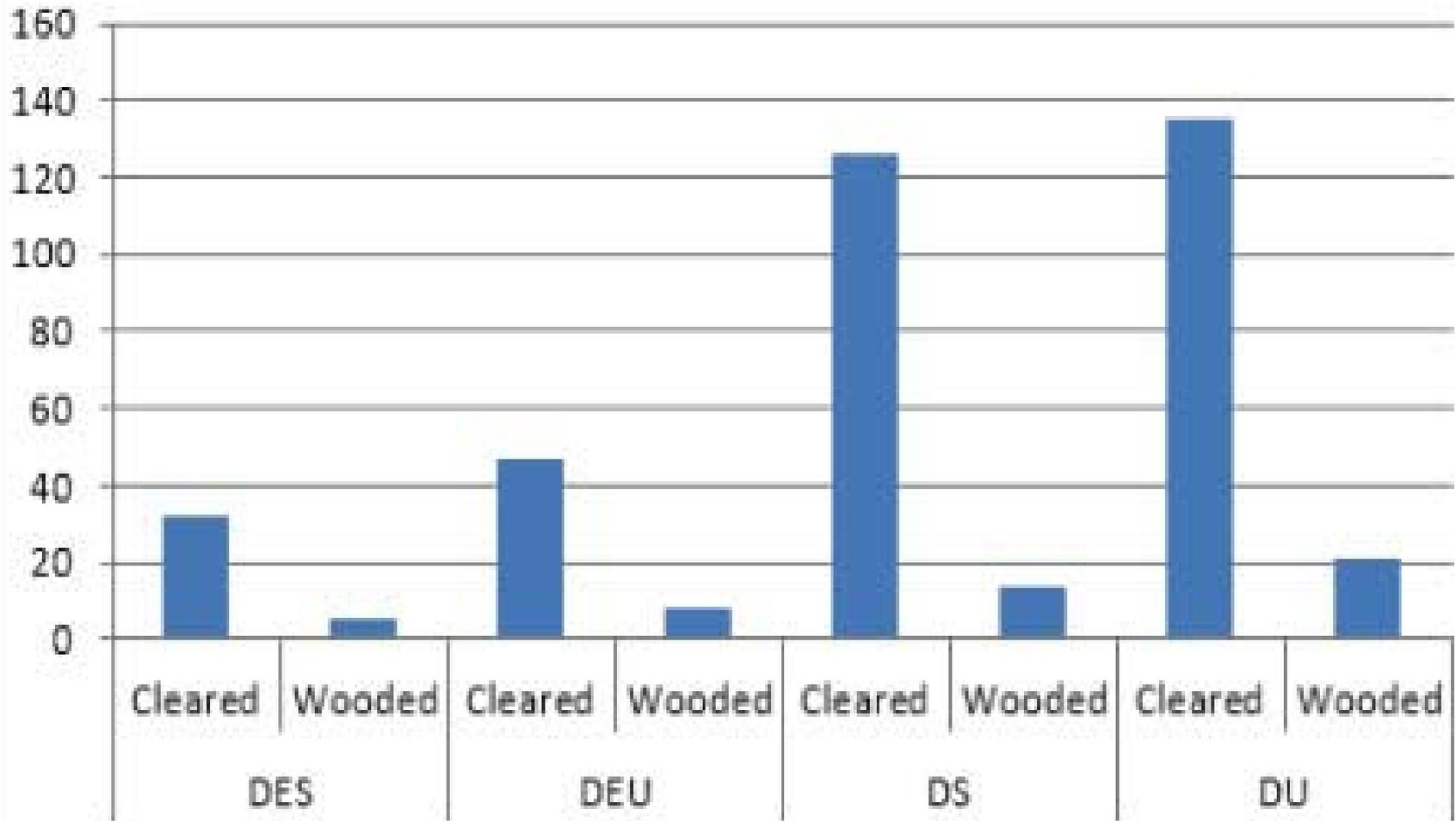


Forest vs Shaded Fuelbreak





Mean IPS Exit Holes

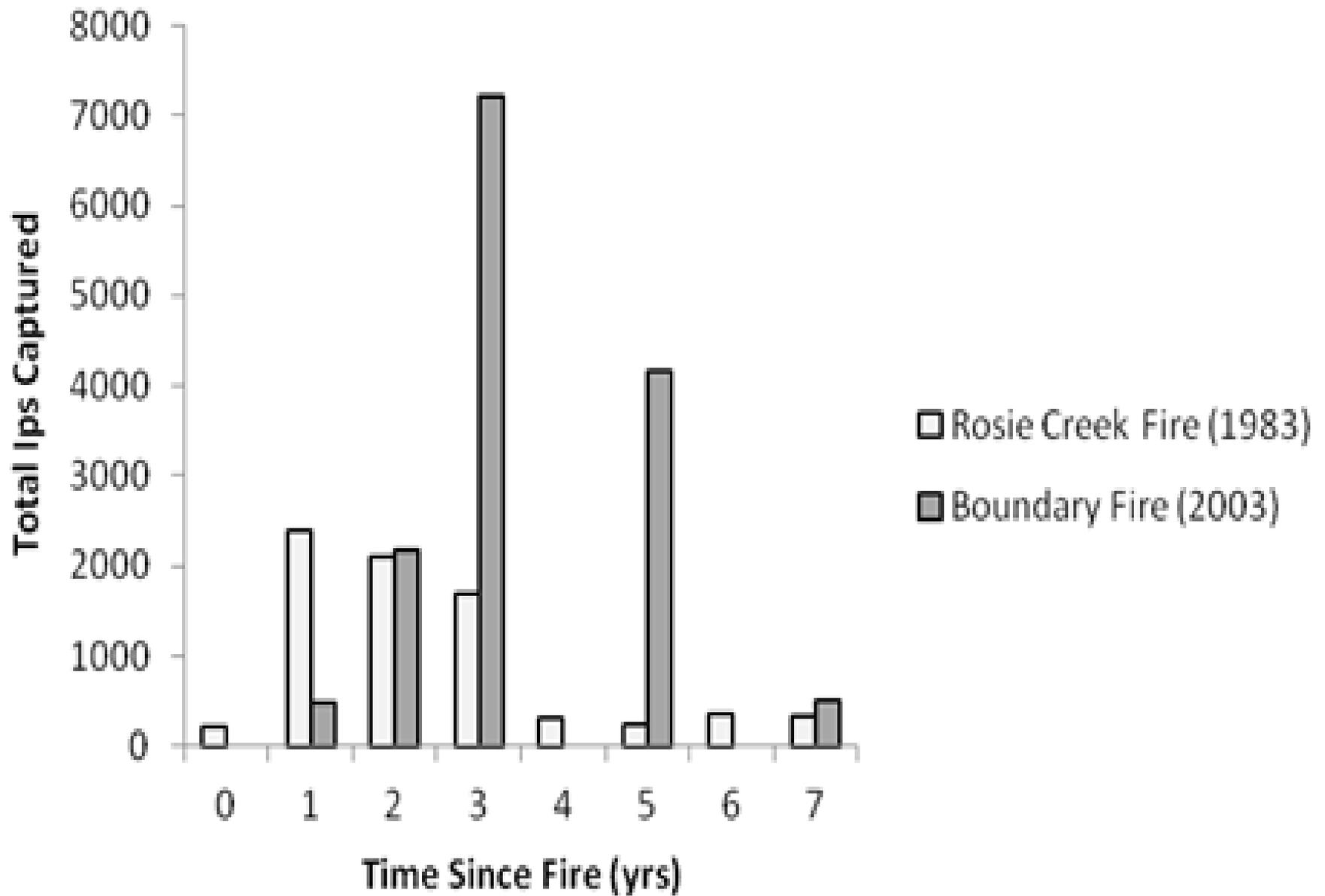


Slash Management

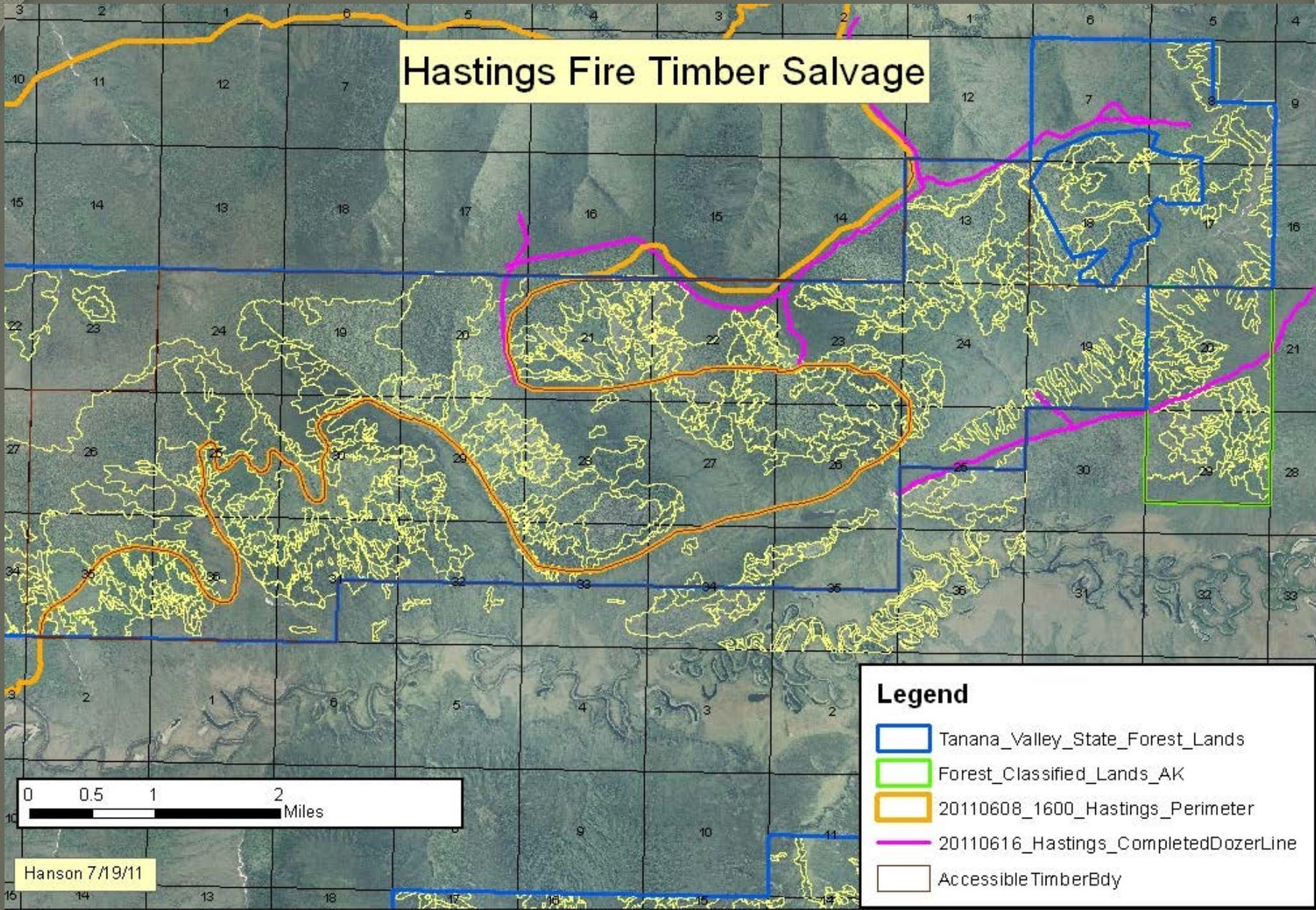
- Scoring logs reduces beetle attacks in dispersed logs, but not any more than decking
- Logs decked in the forest have fewer beetle attacks than logs left out in open areas







Hastings Fire Timber Salvage



0 0.5 1 2 Miles

Hanson 7/19/11

Legend

- Tanana_Valley_State_Forest_Lands
- Forest_Classified_Lands_AK
- 20110608_1600_Hastings_Perimeter
- 20110616_Hastings_CompletedDozerLine
- AccessibleTimberBdy

Questions?

