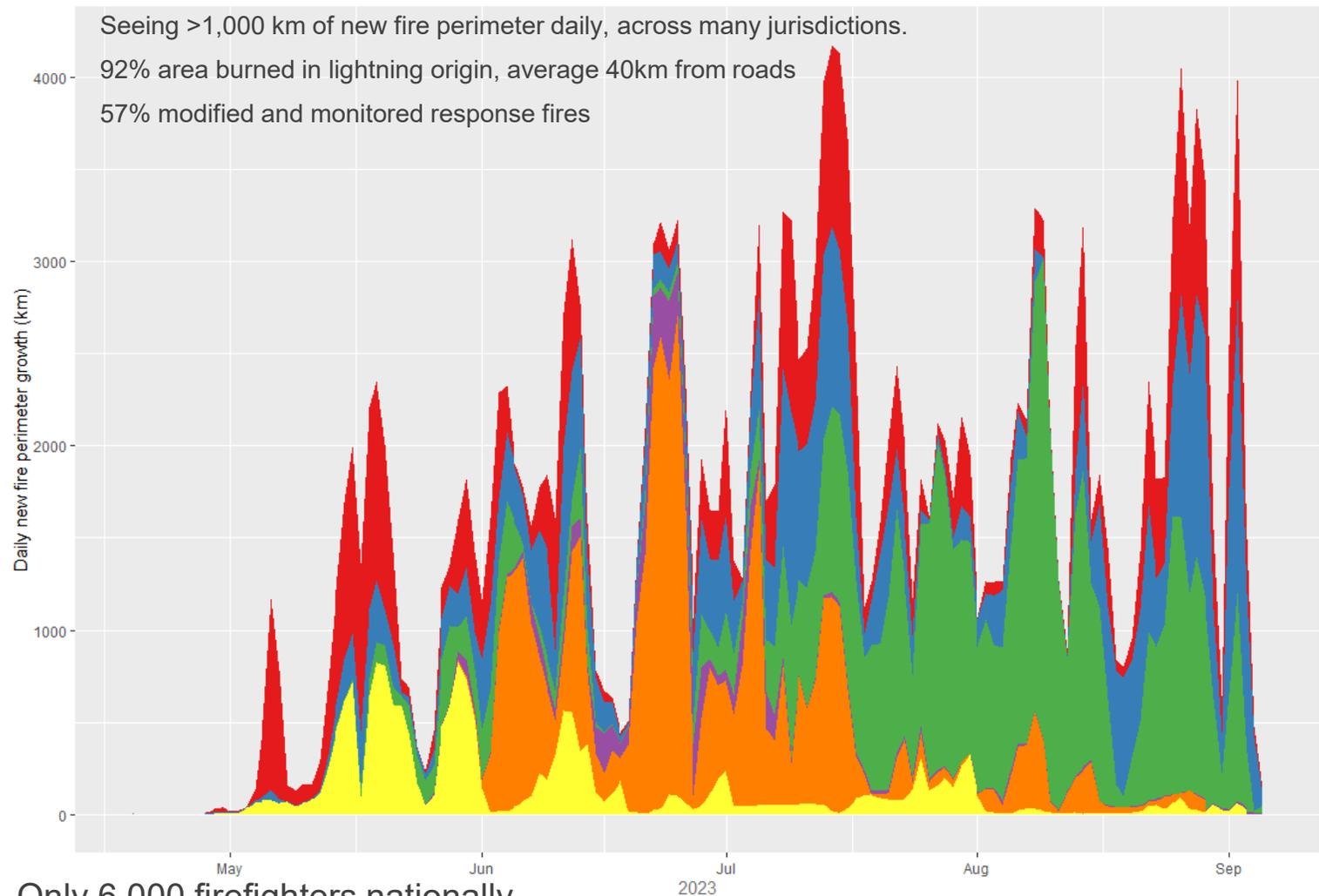


¹Great Lakes Forestry Centre, Canadian Forest Service, Sault Ste. Marie
²Northern Forestry Centre, Canadian Forest Service, Edmonton

Quantities of wildfire beyond direct suppression



- Only 6,000 firefighters nationally.
- With duff burning down 10–100 cm, constructing and maintaining containment lines takes many resource-days per km



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Note: Analysis presented here does not represent an official policy position of the Government of Canada

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Broad-based mitigation measure?



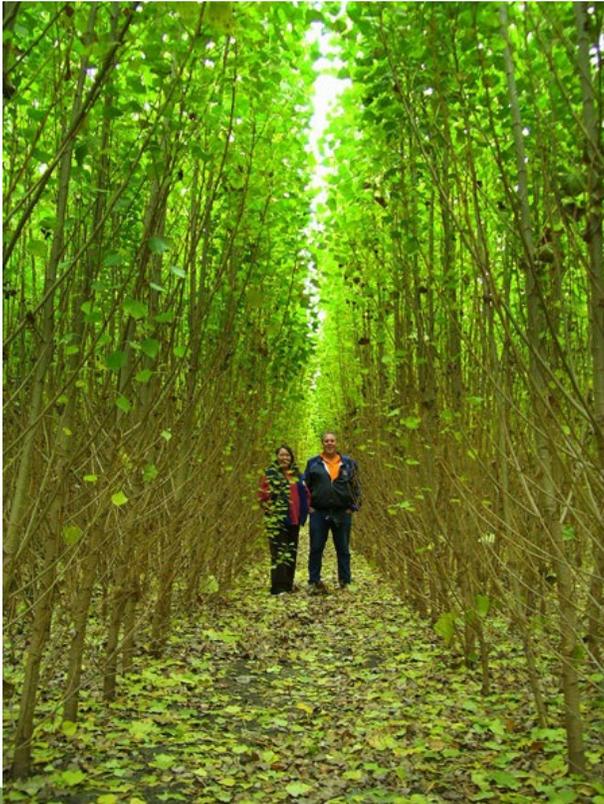
- Younger broadleaf stands only burn at 12-25% the frequency of the overall Canadian forest as a whole (Bernier et al, 2016¹).
- Young mixedwood and deciduous forest helps lower landscape-level flammability even in adjacent old forest (Erni et al., 2018²)
- Even in leafless state, deciduous forest burns at 1/3 the spread rate, and flames 1/4 the size, 1/3 the direct emissions³
- Broadleaf is commonplace after fire: resprouting and air-transported seeds are present in majority of widespread species (aspen, willow, birch, alder).
- Young forest (especially broadleaf) is one of our few natural negative (self-correcting) feedbacks to dampen an otherwise accelerating fire regime

¹Forests, 10.3390/f7080157 ²Ecosystems, v21, 1471-1486 ³Summary of Canadian experimental fire data in CFFDRS



Deciduous species are coming for an intervention

- Whether as part of an adaptation strategy



....or as a consequence of this year's record-setting wildfires

<https://cfs.nrcan.gc.ca/projects/134/2>



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