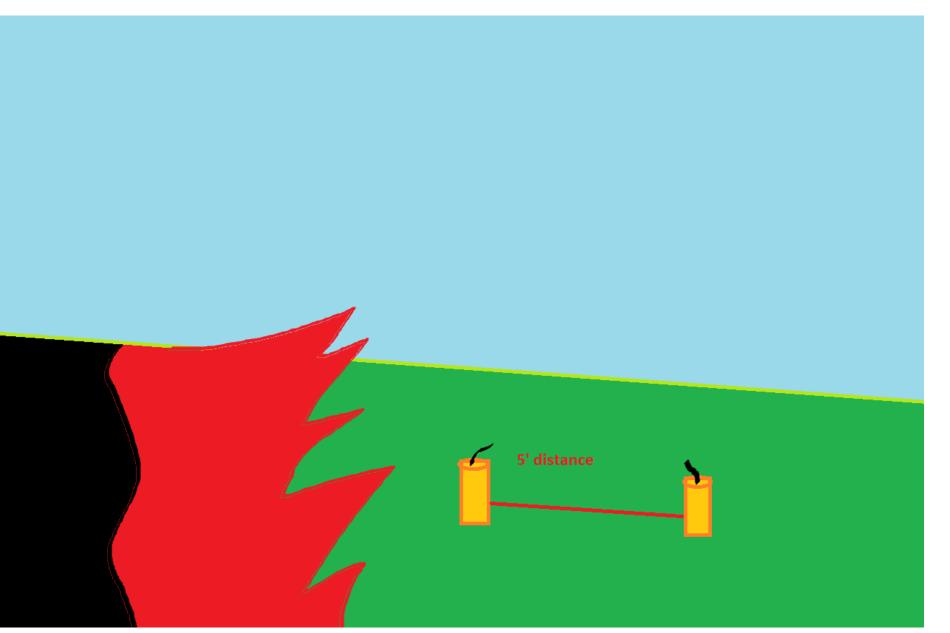
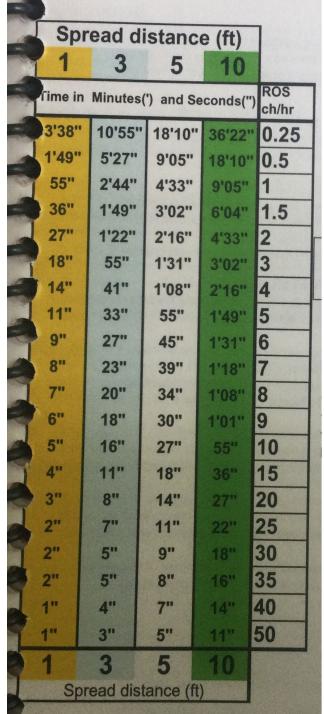


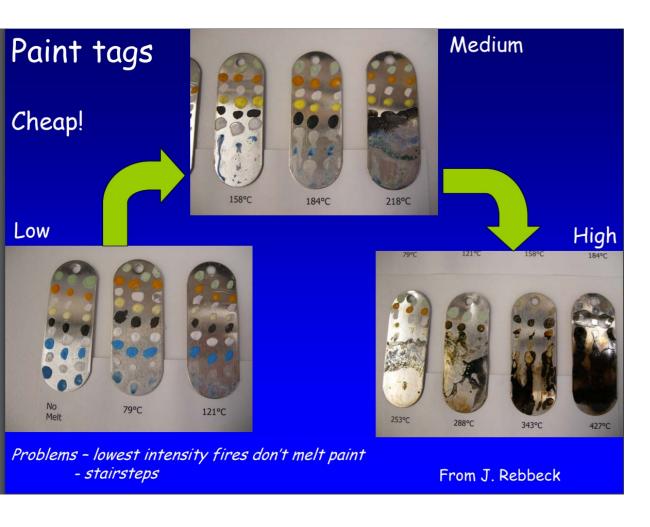


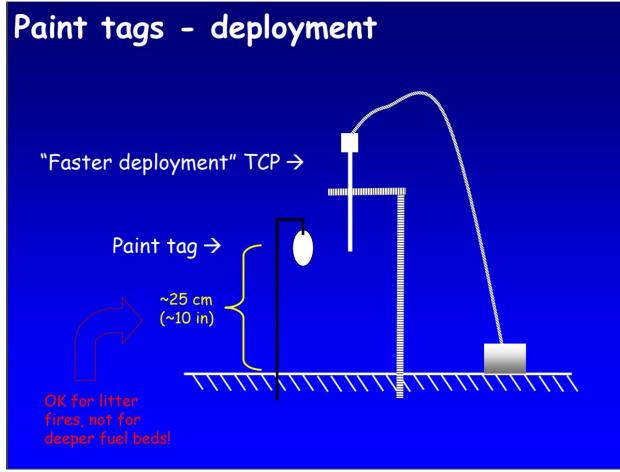
Measuring Rate of Spread





Maximum Heat Output



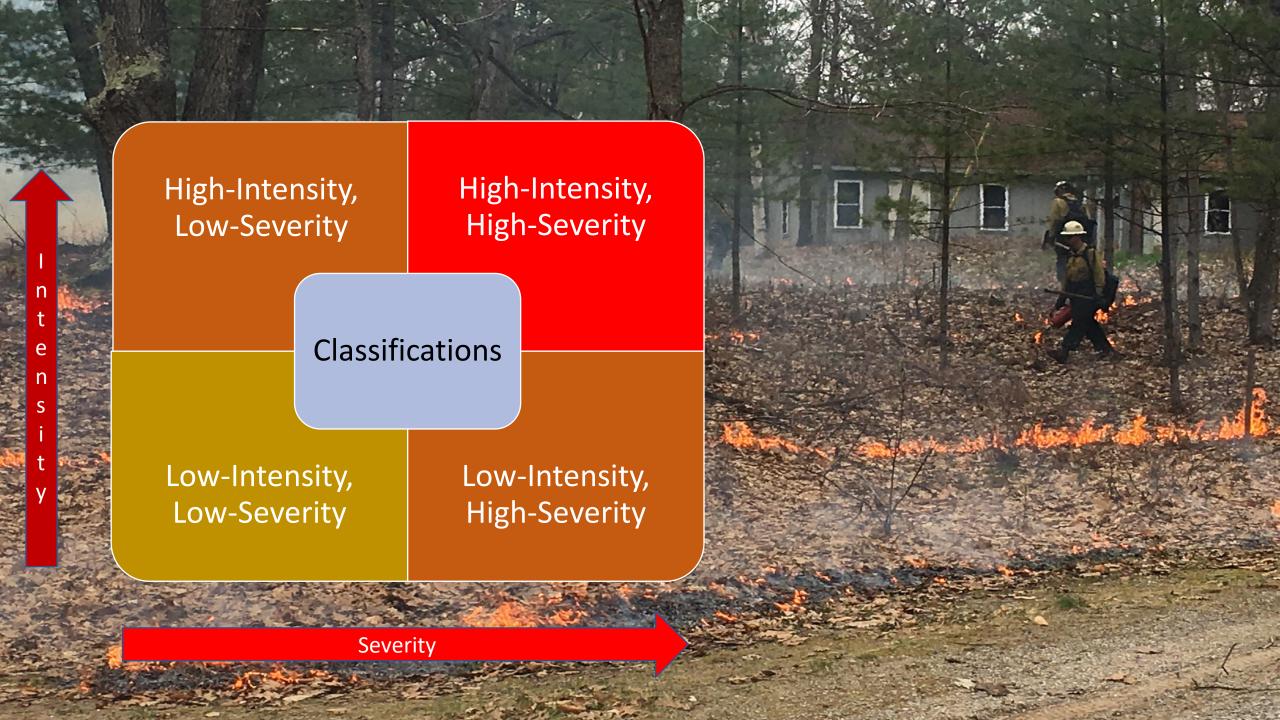






Fire intensity describes the physical combustion process of energy release from organic matter, or the energy per unit volume multiplied by the velocity at which the energy is moving.

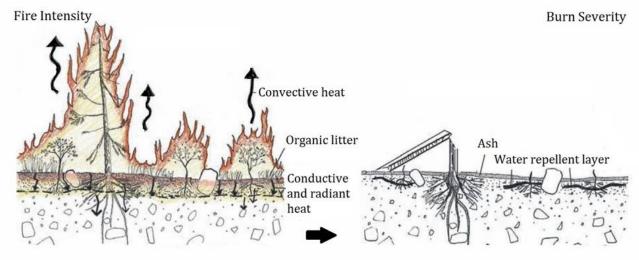
Fire severity refers to the ecosystem impacts of a **fire** such as mortality of trees or change in biodiversity.



Normalized Burn Ratio

Table 1: Burn severity classes and thresholds proposed by USGS. Color coding established by UN-SPIDER.

Severity Level	dNBR Range (scaled by 10 ³) dNBR Range (not scaled	
Enhanced Regrowth, high (post-fire)	-500 to -251	-0.500 to -0.251
Enhanced Regrowth, low (post-fire)	-250 to -101	-0.250 to -0.101
Unburned	-100 to +99	-0.100 to +0.99
Low Severity	+100 to +269	+0.100 to +0.269
Moderate-low Severity	+270 to +439	+0.270 to +0.439
Miderate-high Severity	+440 to +659	+0.440 to +0.659
High Severity	+660 to +1300	+0.660 to +1.300



During Fire After Fire

Severity

Unburned: Plant parts green and unaltered, no direct effect from heat.

Low: Canopy trees with green needles although stems scorched.

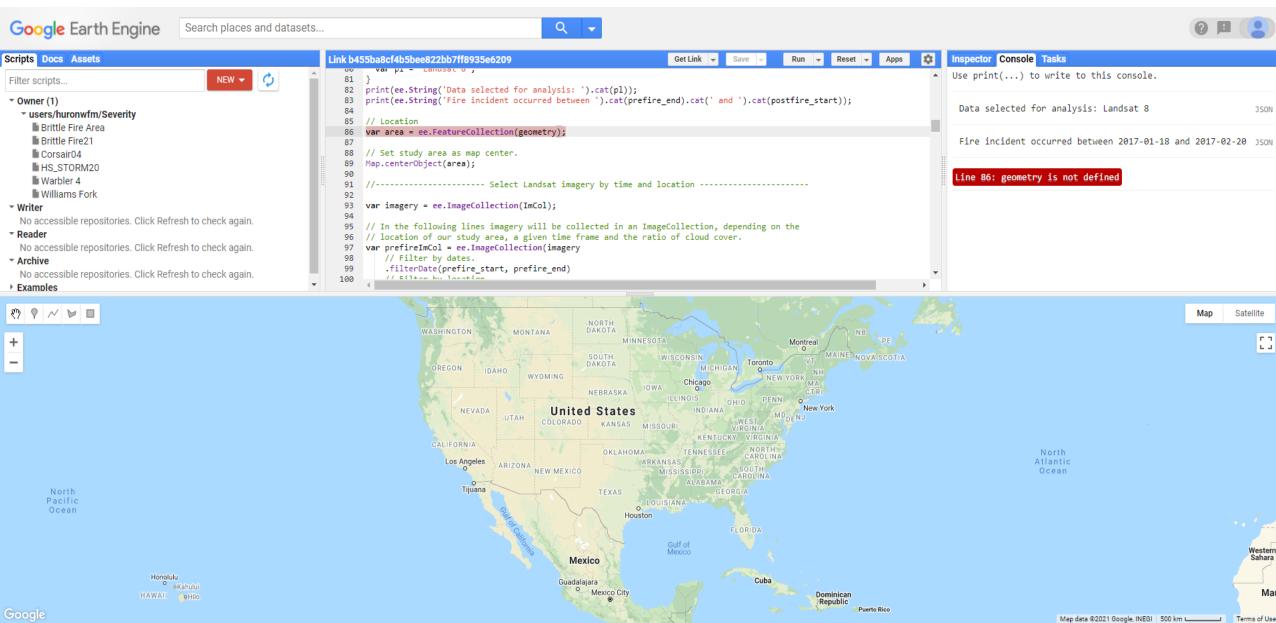
Moderate-Low or moderate surface burn: Surface litter, mosses, and herbs charred and soil with little or no impact.

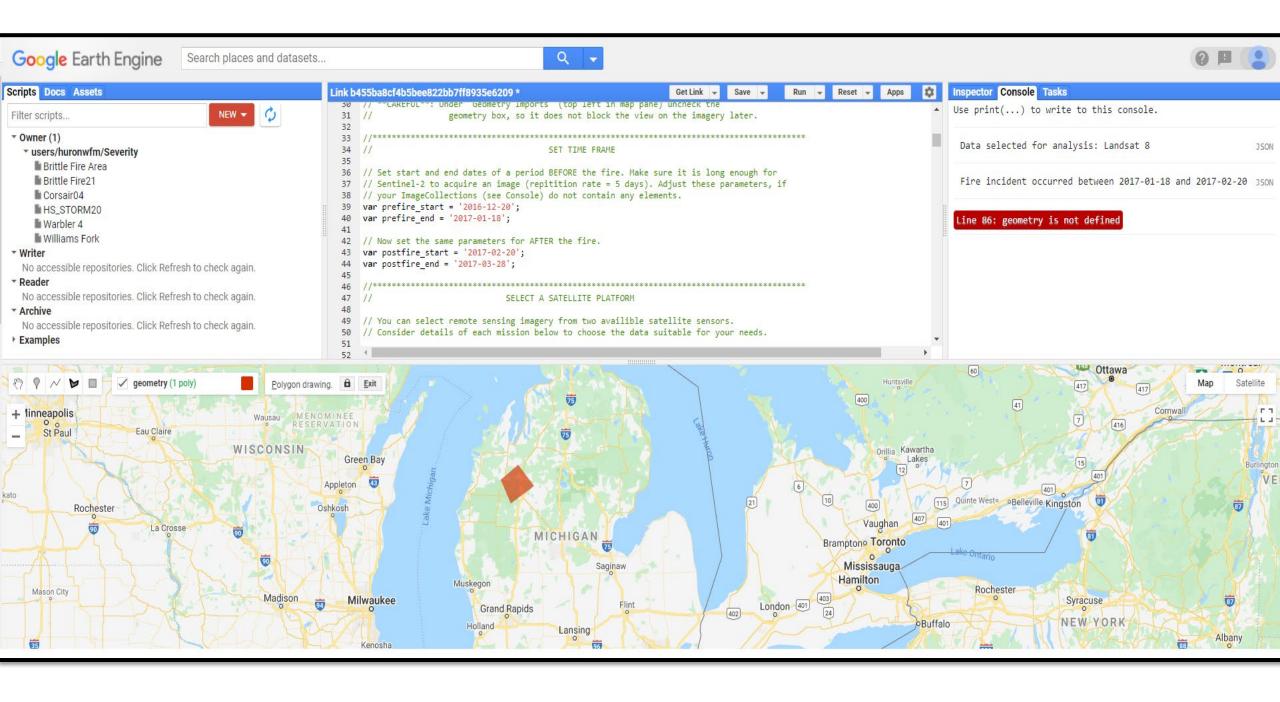
Moderate-High: Soil organic layer largely intact and charring limited to a few mm depth. Trees with some canopy cover killed, but needles not consumed. All understorey plants charred or consumed. Fine dead twigs on soil surface consumed and logs charred or consumed. Pre-fire soil organic layer largely consumed.

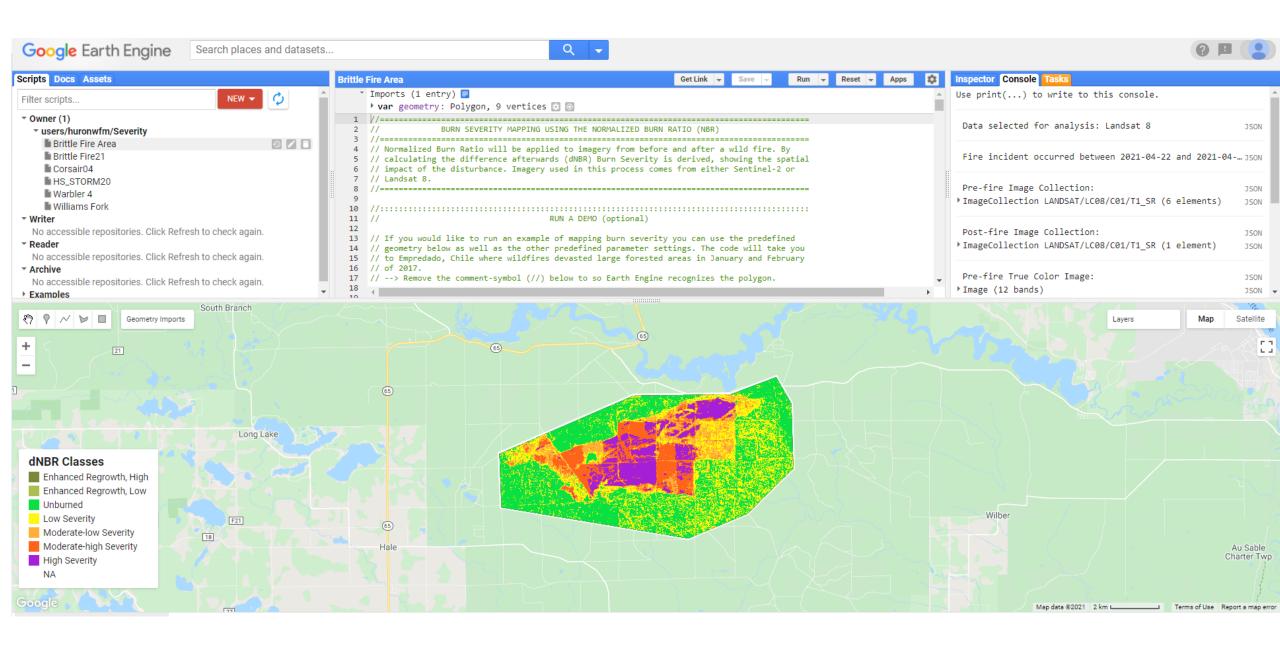
High or crown fire: Canopy trees killed and needles consumed

Surface litter of all sizes and soil organic layer largely consumed White ash deposition and charred organic matter to several cm depth.

Burn Severity Mapping







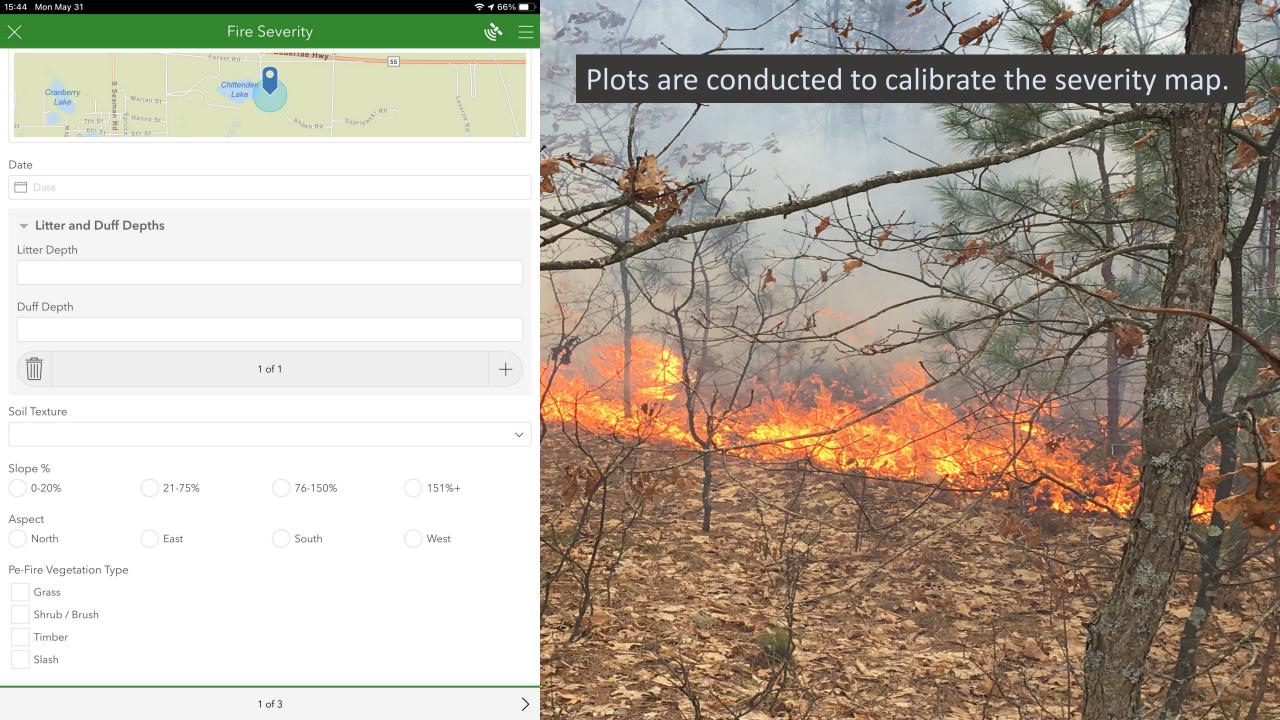


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15:45 Mon May 31		∻ 1 65% 🔲
×	Fire Severity	
Severity		
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High or crown fire: Canopy trees killed and needles	consumed	
Surface litter of all sizes and soil organic layer largely	consumed White ash deposition and charred organic matter to sev	veral cm depth.
Enhanced Regrowth High		
Enhanced Regrowth Low		
Unburned		
Low Severity		
Moderate Low Severity		
Moderate High Severity		
High Severity		
Fire Severity		
Hydrophobic soils?		
Yes		
No		

