

The Canadian Field-Naturalist

SUPPLEMENTARY MATERIALS:

Post-fire conifer regrowth in upper-subalpine Grouseberry (*Vaccinium scoparium*) habitat used by Grizzly Bear (*Ursus arctos*) in Banff National Park, Alberta

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TABLE S1. Universal Transverse Mercator (UTM) coordinates of Sites 1–10. The UTM zone and tile for Banff National Park is 11 U. All coordinates are rounded to the third place-value because sites are general, broad areas containing plots, not specific plot locations.

Site	Easting	Northing
1. Wigmore One	589600	5706100
2. Wigmore Two	590400	5705200
3. Wigmore Three	590700	5704200
4. Wigmore East	591500	5703400
5. Cuthead Ridges	588400	5700200
6. Scoparium	593500	5691200
7. Forty Mile	587400	5688200
8. Cascade	596600	5682500
9. Allenby	601700	5645100
10. Turbulent	606900	5643400

TABLE S2. Conifer densities (stems/100 m²) by site age (years post-fire), species, and conifer size class at 85 Grouseberry (*Vaccinium scoparium*) plots in Banff National Park, Alberta. Values are mean ± SD (range).

	Engelmann Spruce (<i>Picea engelmannii</i>)	Subalpine Fir (<i>Abies lasiocarpa</i>)	Lodgepole Pine (<i>Pinus contorta</i>)	Subalpine Larch (<i>Larix laricina</i>)	Total
A. At 11 plots in the mature forests adjacent to the 2001 prescribed burns at the four Wigmore sites					
Trees*	5.9 ± 7.1 (0–26)	0.3 ± 0.6 (0–2)	2.5 ± 1.6 (0–5)	0.1 ± 0.3 (0–1)	8.8 ± 7.1 (3–28)
Staddles	2.9 ± 4.7 (0–16)	1.8 ± 3.6 (0–12)	0.5 ± 0.9 (0–2)	0	5.2 ± 7.8 (0–28)
Saplings	4.8 ± 11.4 (0–35)	8.7 ± 15.4 (0–53)	1.3 ± 3.3 (0–11)	1.6 ± 5.3 (0–18)	16.4 ± 31.0 (0–106)
Seedlings	5.8 ± 6.4 (0–18)	28.0 ± 24.9 (0–78)	0	0	33.8 ± 26.8 (4–85)
B. At 11 plots in the 2001 prescribed burns at the four Wigmore sites, 6–7 years post-fire (2007–2008)					
Trees*	0	0	0	0	0
Staddles	0.9 ± 2.4 (0–8)	3.6 ± 8.5 (0–26)	0.2 ± 0.6 (0–2)	0	4.7 ± 8.3 (0–26)
Saplings	0	4.5 ± 10.7 (0–35)	5.8 ± 7.8 (0–21)	0	10.3 ± 11.3 (0–35)
Seedlings	14.5 ± 13.2 (0–39)	0.6 ± 1.4 (0–4)	10.3 ± 10.5 (0–28)	0	25.4 ± 21.2 (0–67)
C. At 45 plots in the 2001 prescribed burns at the four Wigmore sites, 22 years post-fire (2022)					
Trees*	0.04 ± 0.3 (0–2)	0	0.1 ± 0.6 (0–4)	0	0.1 ± 0.9 (0–6)
Staddles	0.5 ± 1.7 (0–10)	0.1 ± 0.6 (0–4)	15.2 ± 28.2 (0–153)	0	15.8 ± 28.0 (0–153)
Saplings	48.3 ± 54.6 (0–237)	3.9 ± 4.8 (0–18)	5.0 ± 7.0 (0–32)	0	57.3 ± 58.5 (0–248)
Seedlings	65.3 ± 72.1 (0–340)	8.9 ± 13.2 (0–57)	0.9 ± 2.2 (0–11)	0	75.1 ± 77.6 (0–343)
D. At 14 plots in the Scoparium site, 1889 wildfire, 133 years post-fire					
Trees*	2.7 ± 2.2 (0–7)	1.0 ± 1.8 (0–6)	3.3 ± 4.1 (0–13)	0	7.0 ± 3.9 (3–13)
Staddles	4.0 ± 8.4 (0–32)	5.4 ± 9.7 (0–32)	5.0 ± 5.8 (0–18)	0	14.4 ± 17.1 (0–66)
Saplings	9.3 ± 12.4 (0–42)	98.8 ± 258.9 (0–990)	3.5 ± 6.9 (0–25)	0	112 ± 267 (0–1033)
Seedlings	8.1 ± 18.7 (0–71)	30.3 ± 34.1 (0–103)	0.5 ± 1.9 (0–7)	0	38.9 ± 38.4 (0–110)
E. At 15 plots in the Allenby site, 1920 wildfire, 102 years post-fire					
Trees*	3.6 ± 2.2 (2–9)	2.2 ± 1.5 (0–6)	0.1 ± 0.4 (0–1)	0.2 ± 0.6 (0–2)	6.1 ± 3.0 (2–11)
Staddles	5.2 ± 4.4 (0–12)	6.5 ± 6.1 (0–18)	0	0.3 ± 0.7 (0–2)	11.9 ± 7.3 (2–22)
Saplings	11.8 ± 10.3 (0–32)	42.4 ± 29.6 (7–92)	0.2 ± 0.9 (0–4)	0.2 ± 0.9 (0–4)	54.7 ± 30.5 (7–103)
Seedlings	0.9 ± 1.6 (0–4)	2.1 ± 2.6 (0–7)	0	0	3.1 ± 2.9 (0–7)

*Trees: diameter (measured 1.4 m above the ground, i.e., diameter at breast height [dbh]) > 10 cm; Staddles: dbh ≤ 10 cm, height > 2 m; Saplings: 30 cm < height ≤ 2 m; Seedlings: height ≤ 30 cm.