

Table S6. Repeated Measures ANOVA Table for soil temperature at 10 cm depth on the Cerro Seco study site, Valles Caldera National Preserve, New Mexico. Treatment = Control/Thin-burned; Location = Log/N1/N2/S1/S2; Period = Pre-thinning/Post-thinning/Post-burning; Season = Fall/Winter/Spring/Summer. Subject = Replicate weekly means of variable tested.

Source	DF	SS	MS	F	P
Treatment (A)	1	1453	1453.0	334.36	0.0000
Location (B)	4	209	52.3	12.03	0.0000
A*B	4	47	11.7	2.69	0.0309
Subject (C)					
Error A*B*C	350	1521	4.3		
Period (D)	2	1029	514.6	149.44	0.0000
A*D	2	491	245.4	71.27	0.0000
B*D	8	29	3.6	1.06	0.3918
A*B*D	8	32	4.0	1.17	0.3131
Error A*B*C*D	700	2410	3.4		
Season (E)	3	82817	27605.6	3153.06	0.0000
A*E	3	427	142.4	16.26	0.0000
B*E	12	829	69.1	7.89	0.0000
A*B*E	12	41	3.4	0.39	0.9673
Error A*B*C*E	1050	9193	8.8		
D*E	6	808	134.7	49.61	0.0000
A*D*E	6	233	38.8	14.27	0.0000
B*D*E	24	39	1.6	0.60	0.9376
A*B*D*E	24	45	1.9	0.69	0.8637
Error A*B*C*D*E	2100	5703	2.7		
Total	4319	107357			

Table S7. Repeated Measures ANOVA Table for soil temperature at 20 cm depth on the Cerro Seco study site, Valles Caldera National Preserve, New Mexico. Treatment = Control/Thin-burned; Location = Log/N1/N2/S1/S2; Period = Pre-thinning/Post-thinning/Post-burning; Season = Fall/Winter/Spring/Summer. Subject = Replicate weekly means of variable tested.

Source	DF	SS	MS	F	P
TREATMENT (A)	1	1400.6	1400.6	323.10	0.0000
Location (B)	4	155.1	38.8	8.94	0.0000
A*B	4	55.3	13.8	3.19	0.0136
Subject (C)					
Error A*B*C	350	1517.2	4.3		
Period (D)	2	994.1	497.0	178.79	0.0000
A*D	2	467.4	233.7	84.07	0.0000
B*D	8	24.7	3.1	1.11	0.3529
A*B*D	8	27.4	3.4	1.23	0.2763
Error A*B*C*D	700	1946.0	2.8		
Season (E)	3	73013.1	24337.7	3082.68	0.0000
A*E	3	285.6	95.2	12.06	0.0000
B*E	12	763.0	63.6	8.05	0.0000
A*B*E	12	68.3	5.7	0.72	0.7323
Error A*B*C*E	1050	8289.7	7.9		
D*E	6	683.8	114.0	50.40	0.0000
A*D*E	6	191.2	31.9	14.09	0.0000
B*D*E	24	27.2	1.1	0.50	0.9791
A*B*D*E	24	30.0	1.2	0.55	0.9611
Error A*B*C*D*E	2100	4748.4	2.3		
Total	4319	94688.2			

Table S8. Repeated Measures ANOVA Table for soil temperature at 30 cm depth on the Cerro Seco study site, Valles Caldera National Preserve, New Mexico. Treatment = Control/Thin-burned; Location = Log/N1/N2/S1/S2; Period = Pre-thinning/Post-thinning/Post-burning; Season = Fall/Winter/Spring/Summer. Subject = Replicate weekly means of variable tested.

Source	DF	SS	MS	F	P
TREATMENT (A)	1	1185.7	1185.7	267.98	0.0000
Location (B)	4	72.2	18.0	4.08	0.0030
A*B	4	61.7	15.4	3.49	0.0083
Subject (C)					
Error A*B*C	350	1548.6	4.4		
Period (D)	2	919.2	459.6	206.32	0.0000
A*D	2	463.1	231.6	103.95	0.0000
B*D	8	17.3	2.2	0.97	0.4562
A*B*D	8	25.5	3.2	1.43	0.1794
Error A*B*C*D	700	1559.4	2.2		
Season (E)	3	64348.2	21449.4	2987.96	0.0000
A*E	3	194.9	65.0	9.05	0.0000
B*E	12	532.9	44.4	6.19	0.0000
A*B*E	12	106.0	8.8	1.23	0.2567
Error A*B*C*E	1050	7537.5	7.2		
D*E	6	585.2	97.5	53.13	0.0000
A*D*E	6	169.1	28.2	15.35	0.0000
B*D*E	24	18.6	0.8	0.42	0.9939
A*B*D*E	24	30.6	1.3	0.69	0.8623
Error A*B*C*D*E	2100	3854.8	1.8		
Total	4319	83230.4			

Table S9. Repeated Measures ANOVA Table for soil Volumetric Water Content (VWC) at 10 cm depth on the Cerro Seco study site, Valles Caldera National Preserve, New Mexico.

Treatment = Control/Thin-burned; Location = Log/N1/N2/S1/S2; Period = Pre-thinning/Post-thinning/Post-burning; Season = Fall/Winter/Spring/Summer.
Subject = Replicate weekly means of variable tested.

Source	DF	SS	MS	F	P
TREATMENT (A)	1	0.0315	0.03148	9.56	0.0021
Location (B)	4	0.9204	0.23009	69.90	0.0000
A*B	4	0.0487	0.01217	3.70	0.0058
Subject (C)					
Error A*B*C	350	1.1520	0.00329		
Period (D)	2	1.2354	0.61768	293.03	0.0000
A*D	2	0.0098	0.00491	2.33	0.0981
B*D	8	0.2916	0.03644	17.29	0.0000
A*B*D	8	0.2740	0.03425	16.25	0.0000
Error A*B*C*D	700	1.4755	0.00211		
Season (E)	3	2.3358	0.77859	288.58	0.0000
A*E	3	0.0058	0.00192	0.71	0.5452
B*E	12	0.1154	0.00962	3.57	0.0000
A*B*E	12	0.0580	0.00483	1.79	0.0450
Error A*B*C*E	1050	2.8329	0.00270		
D*E	6	0.0462	0.00770	3.68	0.0012
A*D*E	6	0.0155	0.00259	1.24	0.2843
B*D*E	24	0.1121	0.00467	2.23	0.0005
A*B*D*E	24	0.0803	0.00335	1.60	0.0326
Error A*B*C*D*E	2100	4.3903	0.00209		
Total	4319	15.4311			

Table S10. Repeated Measures ANOVA Table for soil Volumetric Water Content (VWC) at 20 cm depth on the Cerro Seco study site, Valles Caldera National Preserve, New Mexico.

Treatment = Control/Thin-burned; Location = Log/N1/N2/S1/S2; Period = Pre-thinning/Post-thinning/Post-burning; Season = Fall/Winter/Spring/Summer.
Subject = Replicate weekly means of variable tested.

Source	DF	SS	MS	F	P
TREATMENT (A)	1	0.0599	0.05993	18.56	0.0000
Location (B)	4	0.3929	0.09822	30.42	0.0000
A*B	4	0.2216	0.05540	17.15	0.0000
Subject (C)					
Error A*B*C	350	1.1303	0.00323		
Period (D)	2	0.3007	0.15034	67.69	0.0000
A*D	2	0.1865	0.09325	41.98	0.0000
B*D	8	0.2698	0.03373	15.19	0.0000
A*B*D	8	0.2358	0.02948	13.27	0.0000
Error A*B*C*D	700	1.5548	0.00222		
Season (E)	3	2.9012	0.96706	416.69	0.0000
A*E	3	0.0182	0.00606	2.61	0.0502
B*E	12	0.1647	0.01372	5.91	0.0000
A*B*E	12	0.0558	0.00465	2.00	0.0212
Error A*B*C*E	1050	2.4368	0.00232		
D*E	6	0.0327	0.00545	2.87	0.0086
A*D*E	6	0.0501	0.00836	4.40	0.0002
B*D*E	24	0.0822	0.00342	1.80	0.0097
A*B*D*E	24	0.0751	0.00313	1.65	0.0247
Error A*B*C*D*E	2100	3.9849	0.00190		
Total	4319	14.1540			

Table S11. Repeated Measures ANOVA Table for soil Volumetric Water Content (VWC) at 30 cm depth on the Cerro Seco study site, Valles Caldera National Preserve, New Mexico.

Treatment = Control/Thin-burned; Location = Log/N1/N2/S1/S2; Period = Pre-thinning/Post-thinning/Post-burning; Season = Fall/Winter/Spring/Summer.
Subject = Replicate weekly means of variable tested.

Source	DF	SS	MS	F	P
TREATMENT (A)	1	0.6713	0.67132	260.56	0.0000
Location (B)	4	0.0712	0.01780	6.91	0.0000
A*B	4	0.2071	0.05178	20.10	0.0000
Subject (C)					
Error A*B*C	350	0.9018	0.00258		
Period (D)	2	0.1617	0.08085	35.19	0.0000
A*D	2	0.2305	0.11526	50.17	0.0000
B*D	8	0.3092	0.03864	16.82	0.0000
A*B*D	8	0.2397	0.02996	13.04	0.0000
Error A*B*C*D	700	1.6082	0.00230		
Season (E)	3	2.9535	0.98451	450.71	0.0000
A*E	3	0.0440	0.01466	6.71	0.0002
B*E	12	0.1460	0.01216	5.57	0.0000
A*B*E	12	0.0777	0.00647	2.96	0.0004
Error A*B*C*E	1050	2.2936	0.00218		
D*E	6	0.0504	0.00840	4.61	0.0001
A*D*E	6	0.0424	0.00707	3.88	0.0007
B*D*E	24	0.0753	0.00314	1.72	0.0159
A*B*D*E	24	0.0718	0.00299	1.64	0.0256
Error A*B*C*D*E	2100	3.8227	0.00182		
Total	4319	13.9779			