Table 1. Mean topographic features for individuals at each site.

Site	1947 Fire	Type	Latitude (°)	Longitude (°)	Elevation (m)	Slope (°)	Aspect (°)	Compass
Gorham Cliffs	Yes	Cliff	44.328	-68.185	32.95	31.867	151.467	SE
South Cadillac	Yes	Ledge	44.333	-68.224	279.95	9.400	138.133	SE
St. Sauveur	No	Cliff/Ledge	44.311	-68.326	171.72	13.333	262.600	W
Wonderland	No	Flat/Hilly	44.237	-68.316	17.83	3.733	208.067	S

Table 2. Watson's Two Sample Test of Homogeneity results for aspect at each site.*

	Gorham Cliffs	St. Sauveur	South Cadillac
Wonderland	t = 0.259 *	t = 0.288 **	t = 0.194 *
Gorham cliffs		t = 0.385 **	t = 0.166 *ns*
St. Sauveur			t = 0.519 ***

*Key: t = test statistic, *ns* = not significant, * = P < 0.05, ** = P < 0.01, *** = P < 0.001, P = P-value.

Table 3. Analysis of variance results for the linear models with soil carbon (C), nitrogen (N), and C/N, and soil water retention (SWR).*

	Soil C			Soil N			Soil C/N			SWR		
	df	**F**	**P**	**df**	**F**	**P**	**df**	**F**	**P**	**df**	**F**	**P**
Elevation	1	4.675	**0.040**	1	0.190	0.667	1	3.853	*0.062*	1	2.503	0.122
Fire	1	2.718	0.111	1	0.260	0.615	1	1.493	0.235	1	12.400	**0.001**
Elevation x Fire	1	0.404	0.530	1	1.153	0.295	1	2.771	0.110	1	12.981	**0.001**
Residuals	*27*			*22*			*22*			*36*		

* P-values < 0.05 are bolded. Sample size is 26 for soil nutrients and 40 for SWR. Key: df = degrees of freedom, F = F-value, P = P-value.

Table 4. Analysis of variance results for the linear models with soil aluminum (Al^{+}), calcium (Ca^{2+}), potassium (K^{+}), magnesium (Mg^{2+}), phosphorus (P), and zinc (Zn).*

		Soil Al^{+}		Soil Ca^{2+}		Soil K^{+}		Soil Mg^{2+}		Soil P		Soil Zn	
	df	**F**	**P**	**F**	**P**	**F**	**P**	**F**	**P**	**F**	**P**	**F**	**P**
Elevation	1	1.342	0.257	6.729	**0.015**	2.284	0.142	2.525	0.124	2.829	0.104	2.079	0.161
Fire	1	0.032	0.860	0.041	0.840	6.664	**0.016**	0.254	0.618	1.015	0.323	0.082	0.776
Elevation x Fire	1	7.851	**0.009**	0.135	0.716	0.100	0.755	0.224	0.640	0.065	0.801	2.883	0.101
Residuals	*27*												

* P-values < 0.05 are bolded and < 0.1 are italicized. Sample size is 31. Key: df = degrees of freedom, F = F-value, P = P-value.

Table 5. Analysis of variance results for the linear models with foliar $\delta^{13}C$ and $\delta^{15}N$, carbon (C), nitrogen (N), and C/N.*

	$\delta^{13}C$			$\delta^{15}N$			Foliar C			Foliar N			Foliar C/N		
	df	F	**P**	**df**	**F**	**P**	**df**	**F**	**P**	**df**	**F**	**P**	**df**	**F**	**P**
Elevation	1	9.786	**0.003**	1	0.787	0.379	1	0.148	0.702	1	0.983	0.326	1	1.639	0.206
Fire	1	1.369	0.247	1	2.857	*0.097*	1	4.053	**0.049**	1	1.156	0.287	1	0.425	0.517
Elevation x Fire	1	0.227	0.636	1	1.831	0.182	1	0.001	0.981	1	1.020	0.317	1	1.707	0.197
Residuals	*51*			*51*			*56*			*52*			*52*		

* P-values < 0.05 are bolded and < 0.1 are italicized. Sample size is 55 for foliar isotopes and 56 for foliar nutrients. Key: df = degrees of freedom, F = F-value, P = P-value.

Table 6. Analysis of variance results for the linear models with foliar aluminum (Al^{+}), calcium (Ca^{2+}), potassium (K^{+}), magnesium (Mg^{2+}), phosphorus (P), and zinc (Zn).*

	Foliar Al^{+}			Foliar Ca^{2+}		Foliar K^{+}		Foliar Mg^{2+}		Foliar P		Foliar Zn	
	df	**F**	**P**	**F**	**P**	**F**	**P**	**F**	**P**	**F**	**P**	**F**	**P**
Elevation	1	0.341	0.563	13.302	**0.001**	3.158	*0.084*	2.557	0.119	0.012	0.914	8.007	**0.008**
Fire	1	0.021	0.887	0.843	0.365	4.071	*0.051*	0.507	0.481	8.309	**0.007**	0.050	0.824
Elevation x Fire	1	0.187	0.668	0.088	0.769	4.863	0.034	0.377	0.543	0.407	0.527	1.458	0.235
Residuals	*36*												

* P-values < 0.05 are bolded and < 0.1 are italicized. Sample size is 40. Key: df = degrees of freedom, F = F-value, P = P-value.

Table 7. Analysis of variance results for the linear models with slope, tree height, canopy spread, diameter at breast height (DBH), and distance between neighbors.*

	Canopy Spread			DBH			Distance Between Neighbors			Tree Height		
	df	**F**	**P**	**df**	**F**	**P**	**df**	**F**	**P**	**df**	**F**	**P**
Elevation	1	7.948	**0.008**	1	13.724	**0.001**	1	21.148	**<0.001**	1	3.451	*0.071*
Fire	1	0.012	0.914	1	1.100	0.301	1	1.418	0.248	1	0.097	0.757
Elevation x Fire	1	0.068	0.795	1	3.022	*0.091*	1	0.468	0.502	1	6.593	**0.015**
Residuals	*36*			*36*			*20*			*36*		

* P-values < 0.05 are bolded and < 0.1 are italicized. Sample size is 40 for tree height, canopy spread, and DBH and 60 for slope and distance between neighbors. Key: df = degrees of freedom, F = F-value, P = P-value, DBH = diameter at breast height.