

Shaw Mountain Ice Storm Study

Abiotic Conditions Summary Statistics, 1998

variable	p1	p2	p3	p4	ice mean n=2	ice se n=2	control mean n=2	control se n=2	ttest p
Location	VT	VT	VT	VT					
Sample Year	1998	1998	1998	1998					
Sample Month	7	7	7	7					
Sample Day	14	14	15	15					
Long	73.362	73.361	73.360	73.361	73.362	0.000	73.360	0.000	0.135
Lat	43.682	43.681	43.684	43.679	43.682	0.001	43.681	0.002	0.887
Long NAD83, GPS	73.362	73.361	73.359	73.360	73.361	0.001	73.360	0.001	0.372
Lat NAD83, GPS	43.682	43.681	43.684	43.679	43.681	0.001	43.681	0.001	0.961
Long NAD27, GPS	73.363	73.361	73.359	73.361	73.362	0.001	73.361	0.001	0.327
Lat NAD27, GPS	43.682	43.680	43.684	43.679	43.681	0.001	43.681	0.001	0.858
Elevation (m)	215	205	190	205	210	5	198	8	0.316
Slope (o)	5	11	9	7	8.00	3.00	8.00	1.00	1.000
Mag Azm									
Decl W	14	14	14	14	14.00	0.00	14.00	0.00	1.000
Azm True	345	74	110	300	210	136	205	95	0.981
SlopePos (1 - 9)	3	3	3	3	3.00	0.00	3.00	0.00	1.000
Solar 27 Jul pot Iq	949	947	968	950	948	1	959	9	0.422
Canopy cover (%)	50.2	48.1	77.6	79.5	49.15	1.05	78.55	0.95	0.002
Light penet. (%)	44.7	42.3	22.5	19.2	43.50	1.20	20.85	1.65	0.011
MacClim									
MicClim	15.5	18	18	16	16.75	1.25	17.00	1.00	0.891
temp dph	30	30	30	30	30.00	0.00	30.00	0.00	1.000
soil day of year	14-Jul	14-Jul	15-Jul	15-Jul	35990	0	35991	0	
A-30 Climate	16	18.5	18.5	16.5	17.25	1.25	17.50	1.00	0.891
ADph									
ObsDph	26	11.1	10.4	13.1	18.55	7.45	11.75	1.35	0.527
pH	5.2	5.8	5.5	5.4	5.51	0.34	5.41	0.04	0.824
Organic matter (%) LOI (organic matter)	6.1	11.5	8.7	7.3	8.83	2.70	8.00	0.68	0.812
ExchAcid	18.37	19.71	17.22	15.24	19.04	0.67	16.23	0.99	0.160
Base Sat (%)	61%	79%	74%	67%	0.70	0.09	0.70	0.03	0.971
Moisture content %	5.9%	8.7%	4.1%	5.3%	0.07	0.01	0.05	0.01	0.282
P, available mg/Kg	4.1	4.9	1.5	3.1	4.50	0.40	2.30	0.80	0.177
Ca	881	2165	1445	937	1523	642	1191	254	0.699
K	83	80	82	65	81.50	1.50	73.50	8.50	0.517
Mg	124.2	391.1	237.5	149.2	258	133	193	44	0.716
Mn	7.7	4.2	16.7	14	5.95	1.75	15.35	1.35	0.057
Zn, mg/Kg	1.71	2.91	2.08	2.6	2.31	0.60	2.34	0.26	0.969
Fe	12.7	4.1	7.4	10.1	8.40	4.30	8.75	1.35	0.949
Al	136	35	65	80	85.50	50.50	72.50	7.50	0.840
Bedrock									

SlopePos 1=crest; 3=upper; 4=flat plateau; 5=mid; 6=flat valley; 7=lower; 9=base (toe)

Base Sat = % positive cations of the sum of H,K,Ca,Mg

Organic matter = % loss on ignition (LOI)