

Physico-chemical properties of soil samples

Items	Unit	Soil Samples					
		Kami-Furano	Takikawa	Nakafushiko	Motoimatsu	Aikawa	Eniwa
Soil layer		AB	A ₁₁	4AB	3Ag	A ₁	3C
depth	cm	14-29	0-10	35-53	32-55	0-6	50-70
pH(H ₂ O)		4.89	4.00	6.30	5.47	6.53	6.92
pH(KCl)		3.89	3.59	5.84	4.31	5.30	5.37
EC	μ S/cm	32	310	43	19	48	54.9
Y ₁		13.4	33.0	0.27	11.3	0.21	0.18
CEC	cmol(+) /kg	5.50	27.3	18.7	85.1	18.7	5.25
Exc-Ca	cmol(+) /kg	0.30	2.61	6.35	4.94	11.4	2.24
Exc-Mg	cmol(+) /kg	0.34	1.80	0.33	0.41	2.18	0.218
Exc-K	cmol(+) /kg	0.10	0.44	0.02	0.08	1.77	0.228
Exc-Na	cmol(+) /kg	0.08	0.15	0.08	0.19	0.11	0.189
Base saturation	%	14.9	18.3	36.2	6.6	82.7	54.8
Loss on ignition	g/kg	37.8	168	108	425	68	37.5
Carbon	g/kg	4.83	73.5	24.4	216	23.3	0.42
Nitrogen	g/kg	0.30	6.81	1.99	10.3	2.28	0.044
C/N	ratio	16.3	10.8	12.2	20.9	10.3	9.7

Items	Unit	Kami-Furano	Takikawa	Nakafushiko	Motoimatsu	Aikawa	Eniwa
Available P	mgP ₂ O ₅ /kg Bray No.2	6.1	70.3	9.0	9.2	227	11.8
Phosphate absorption	mgP ₂ O ₅ /100g	405	838	2404	2690	685	1228
Humus	%	0.83	12.7	4.2	37.2	4.02	0.0725
Coarse sand	%	37.2	2.3	33.9	30.2	5.4	43.7
Fine sand	%	19.7	11.1	50.3	37.4	22.9	33.1
Silt	%	22.2	38.3	9.2	23.4	47.0	14.6
Clay	%	20.9	48.3	6.6	9.0	24.7	8.64
Soil texture	International	CL	HC	LS	SL	SiCL	SL
Appendix		Pyroclastic flow	Clayey sediments	Ta-d tephra	Ta-d tephra	Alluvial deposit	En-a
Land use		Forest	Forest	Wind-break forest	Wind-break forest	House forest	Upland fallow field