

Table 2a: Soil Analysis (with details of values indicated)

No	Soil Code		Element									
			PH	C (%)	OM (%)	N (%)	P (ppm)	K (me/100gr)	Ca (me/100gr)	Mg (me/100gr)	Fe (ppm)	Mn (ppm)
1	A-J (Tegalan-Merbabu)	A (Lencoh)	6.33	1.85	3.19	0.22	69.67	0.21	1.77	0.08	45.31	6.99
			Low Acidic	Medium	Medium	Medium	very high	low	Medium	Very Low	high	very low
		J (Samiran)	5.90	2.32	4.00	0.22	3.74	0.13	1.25	0.06	35.44	5.63
			Low Acidic	medium	medium	Medium	very low	low	medium	Very Low	high	very low
2	B-H (Oro-oro - Merapi)	B (Lencoh)	6.60	1.70	2.94	0.16	9.53	0.26	1.89	0.08	21.48	2.60
			Netral	Medium	medium	low	very low	medium	medium	Very Low	medium	very low
		H (Samiran)	5.45	0.96	1.65	0.25	7.65	0.04	1.84	0.03	53.96	3.65
			acidic	low	low	Medium	very low	very low	Medium	Very Low	very high	very low
3	C-L (Pekarangan-Merbabu)	C (Lencoh)	5.85	2.78	4.79	0.26	9.02	0.98	1.58	0.12	11.72	9.29
			Low Acidic	high	high	medium	very low	high	medium	Very Low	low	very low
		L (Samiran)	6.50	4.68	8.07	0.43	198.31	0.01	0.91	0.08	39.16	8.56
			Low Acidic	very high	very high	medium	very high	very low	low	Very Low	high	very low
4	D-I (Pekarangan-Merapi)	D (Lencoh)	6.40	2.56	4.41	0.25	176.07	0.26	2.05	0.06	22.90	7.17
			Low Acidic	high	high	medium	very high	medium	Medium	Very Low	medium	very low
		I (Samiran)	6.63	2.17	3.73	0.09	111.02	0.14	1.18	0.18	42.56	1.76
			netral	medium	medium	very low	very high	low	medium	Very Low	high	very low
5	E-G (Tegalan-Merapi)	E (Lencoh)	6.42	0.32	0.55	0.26	110.56	0.06	1.63	0.23	29.40	6.94
			Low Acidic	very low	very low	medium	very high	very low	medium	Very Low	medium	very low
		G (Samiran)	6.34	1.77	3.05	0.17	8.28	0.04	0.88	0.03	56.94	11.03
			Low Acidic	medium	medium	low	very low	very low	low	Very Low	very high	low
6	F-K (Oro-oro - Merbabu)	F (Lencoh)	5.56	2.63	4.54	0.23	10.38	1.09	1.97	0.06	52.52	19.72
			Low Acidic	high	high	medium	low	low	Medium	Very Low	very high	medium
		K (Samiran)	6.10	1.00	1.72	0.11	2.06	0.07	1.06	0.06	28.59	8.19
			Low Acidic	low	low	low	very low	very low	medium	Very Low	medium	very low

Table 2b: Criteria for soil chemical assessment

Parameter	very low	low	medium	high	very high	
C (%)	< 0.60	0.60 - 1.25	1.26 - 2.50	2.51 - 3.50	> 3.50	
Organic Matter (%)	< 1.00	1.00 - 2.00	2.10 - 4.20	4.30 - 6.00	> 6.00	
N Total (%)	< 0.10	0.10 - 0.20	0.21 - 0.50	0.51 - 1.00	> 1.00	
P Available	<10	10.0-15.0	16.0-25.0	26--35	>35	
K Available	<0.1	0.1-0.2	0.3-0.5	0.6-1.0	>1.0	
Ca Available	<0.1	0.4-1.0	1.1-2.0	2.1-8.0	>8.0	
Mg Available	<2.0	2.0-5.0	6.0-10	11.0-20.0	>20.0	
Fe Available	<10	10.0-20.0	20.0-30.0	30.0-50.0	>50	
Mn Available	<10	10.0-15.0	15.0-20.0	20.0-35.0	>35	
pH indicator	very acidic < 4.5	acidic 4.5 - 5.5	low acidic 5.6 - 6.5	neutral 6.6 - 7.5	low alkaline 7.6 - 8.5	alkaline > 8.5