

Inventory of Soil Resource of Lunglei District, Mizoram Using Remote Sensing Techniques

ABSTRACT		
1.	Survey Area	: Lunglei district, Mizoram
2.	Geographical Extent	: 22 ^o 30' to 23 ^o 25' N Latitude and 92 ^o 21' to 93 ^o 10' E Longitude
3.	Agro Climatic Region	: Eastern Himalayan Region (II) as per Planning Commission. (Khosla, 1989)
4.	Total area of the district	: 4,53,830 ha
5.	Kind of Survey	: Soil resources mapping using remote sensing techniques.
6.	Base map	: a) IRS – ID Geocoded Satellite Imagery of January, 2002 and IRS P6, LISS III, January 2005 (1: 50000) b) SOI - Toposheet (1:50000)
7.	Scale of Mapping	: 1 : 50,000
8.	Period of Survey	: February & March, 2003 and November & December, 2005

9. Soil Series association mapped and their extent

SI No	Mapping Unit	Soil Association	Area (ha)	Area (%)
1	ALg4a1	Mausin-Chawnpui	663.00	0.15
2	ALg4a2	Chawnpui-Mausin	585.00	0.13
3	ALg4c1	Basti	939.00	0.21
4	SHc5c(a)1	Chekwn-Zaubawk	658.00	0.14
5	SHc5c(a)2	Saza-Chekwn	707.00	0.16
6	SHc5c1	Zaubawk-Chekwn	5308.00	1.17
7	SHf6c(a)1	Moupui-Pukpui	3409.00	0.75
8	SHf6c1	Panpeth-Tiltang	12847.00	2.83
9	SHf7c(a)1	Tiltang-Pachang	4081.00	0.90
10	SHf7c(a)2	Pachang-Mat-Tiltang	1886.00	0.42
11	SHf7c1	Lungsen-Theriat-Tawite	9336.00	2.06
12	SHf7c2	Tlukung-Dawn-Tawite	22870.00	5.04
13	SHf7c3	Darzama-Kawmzawl-Dawn	35217.00	7.76
14	SHf7d1	Kawmzawl-Hnathial-Theriat	2169.00	0.48
15	SHf8c(a)1	Mat-Newdawn	9985.00	2.20
16	SHf8c1	Theriat-Lunglei	8801.00	1.94
17	SHf8c2	Thaizawl-Pathar-Tawite	10081.00	2.22
18	SHf8c3	Dawn-Hurang	16461.00	3.63
19	SHf8c4	Tawite-Thaizawl-Dawn	15788.00	3.48
20	SHf8c5	Kamjawal-Phairang	54661.00	12.04
21	SHf8d1	Hnathial-Bualte-Theriat	4507.00	0.99
22	SHf9c(a)1	Newdawn-Dawn	15456.00	3.41
23	SHf9c1	Lunglei-Hurang-Theiat	14698.00	3.24
24	SHf9c2	Hurang-Dawn	26143.00	5.76
25	SHf9c3	Pathar-Hurang-Dawn	31356.00	6.91
26	SHf9c4	Phairang-Kamjawal	126002.00	27.76
27	SHf9d1	Bualte-Hnathial-Theriat	5202.00	1.15
28	SHr5a1	Pukpui-Moupui-Mausin	9056.00	2.00
29	HS	Habitation & settlement	1718.00	0.38
30	River	River	3240.00	0.71
		Grand Total	453830.00	100.00