

Report on detailed soil survey and land use of Bs1a and Bs1b subwatersheds of Upper Bhavani catchment in Mannarghat taluk, Palghat district, Kerala State.

ABSTRACT

1. Survey area : Bs1a and Bs1b subwatersheds, Upper Bhavani catchment, Mannarghat taluk, Palghat district, Kerala State.

2. Total area mapped and reported: 3275 hectares

3. Period of work : December 1983 to March 1984

4. Soil series mapped and area (hectares) covered under each

Sl.No.	Soil Series name	Area in hectares					
		Bs1a	%	Bs1b	%	Total	%
1.	Agali	713	47.9	706	39.5	1419	43.3
2.	Bhavani	33	2.2	-	-	33	1.0
3.	Kavandikal	47	3.1	259	14.5	306	9.3
4.	Mattattukadu	318	21.4	161	9.0	479	14.6
5.	Narasimukku	68	4.6	459	25.7	527	16.1
6.	Pattimelam	7	0.5	58	3.3	65	2.0
7.	Vallamry	270	18.1	112	6.3	382	11.7
8.	Miscellaneous	33	2.2	31	1.7	64	2.0
		<u>1489</u>		<u>1786</u>		<u>3275</u>	

5. Land capability class and area (hectares) covered under each

Sl.No.	Class	Area in hectares				Total	%	Soil series
		Bs1a	%	Bs1b	%			
1.	II	378	25.4	384	21.5	762	23.3	Bhavani, Kavandikal Mattattukadu
2.	III	126	8.5	75	4.2	201	6.2	Mattattukadu, Vallamary
3.	IV	181	12.2	227	12.7	408	12.4	Agali, Kavandikal, Narasimukku, Pattimelam, Vallamary
4.	VI	358	24.0	66	3.7	424	12.9	Agali, Kavandikal Narasimukku, Pattimelam, Vallamary
5.	VII	413	27.7	1003	56.2	1416	43.2	Agali, Kavandikal Narasimukku, Pattimelam, Vallamary
	Miscl.	33	2.2	31	1.7	64	2.0	
Total		1489	100.0	1786	100.0	3275	100.0	

6. Specific problematic areas:

	Bs1a	Bs1b	Total
1. Moderate erosion on slope above 3% on moderately deep and deeper soils	689	950	1639
2. Moderate rockiness and severe rockiness	144*	516*	660*
Total problematic area	<u>720</u>	<u>1239</u>	<u>1959</u>

* Indicates more than one problem and accounted only once in the total problematic area.