

Report on detailed soil survey and land use of Kulukkur watershed (Bp2a and Bp2b subwatersheds) under Upper Bhawani catchment in Mannarghat taluk of Palghat district, Kerala State.

Abstract

1. Survey area : Kulukkur watershed (Bp2a and Bp2b subwatersheds) under Upper Bhawani catchment in Mannarghat taluk of Palghat district, Kerala State.
2. Total area mapped and reported: 4146 hectares
3. Period of work : February to June 1982

4. Soil series mapped and area in hectares covered under each

Soil series name	Area in hectares			Percentage
	Bp2a	Bp2b	Total	
1. Anaikatte	29	39	68	1.6
2. Budvalli	322	109	431	10.6
3. Chavadiyur	122	-	122	2.9
4. Kotathora	168	55	223	5.4
5. Mattattukad	98	83	181	4.4
6. Pudur	37	-	37	0.9
7. Sholayur	-	1669	1669	40.3
8. Tekkamokkaiyur	78	-	78	1.6
9. Vatlakki	745	549	1294	31.2
10. Miscellaneous	42	1	43	1.0
Total	1641	2505	4146	100.0

5. Land capability classes:

Class	Area in hectares			Gross percentage	Soil series
	Bp2a	Bp2b	Total		
II	302	126	428	10.3	i) Anaikatte iii) Kotathora v) Pudur ii) Budvalli iv) Mattattukad
III	142	27	169	4.2	i) Chavadiyur iii) Mattattukad v) Tekkamokkaiyur ii) Kotathora iv) Pudur
IV	159	121	280	6.7	i) Budvalli iii) Kotathora v) Pudur ii) Chavadiyur iv) Tekkamokkaiyur vi) Vatlakki
VI	289	643	932	22.4	i) Budvalli iii) Vatlakki ii) Sholayur
VII	707	1587	2294	55.4	i) Budvalli ii) Sholayur
Misc.	42	1	43	1.0	iii) Vatlakki
Total	1641	2505	4146	100.0	

6. Specific problematic areas

	Bp2a	Bp2b	Total
1. Moderate erosion on slope above 3% on moderately deep and deeper soils	1410	2465	3875
2. Severe erosion	3*	-	3*
3. Moderate rockiness	834*	1624*	2458*
Total problematic area	1410	2465	3875

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