

REPORT ON DETAILED SOIL SURVEY AND LAND USE OF Bc3c, Bc3e, Bg3e, Bg3f, Bg3g, Bh3c, Bj3c and Bj3d SUBWATERSHEDS OF MOYAR AND LOWER BHAVANI SUBCATCHMENTS, BHAVANI CATCHMENT, COONOOR, KOTAGIRI AND OOTY TALUKS, OOTACAMUND DISTRICT, TAMILNADU.

ABSTRACT

1. Surveyed area : Bc3c, Bc3e, Bg3e, Bg3f, Bg3g, Bh3c, Bj3c and Bj3d subwatershed of Moyar and Lower Bhavani sub-catchment, Bhavani catchment under Coonoor, Kotagiri and Ooty taluks of Ootacamund districts, Tamilnadu.
2. Total area mapped and reported : 23,193 hectares
3. Kind of survey : Detailed soil survey
4. Period of survey : May 1987 to April 1992
5. Agroclimatic region : West coast plains and ghat region (code 12)
6. Agroclimatic zone : High attitude and Hilly zone (TN-7)
7. Soil series mapped and total subwatershedwise area under each series.

Sl. No.	Name of the soil series	Subwatersheds							Total area in hect.	%	
		Bc3c	Bc3e	Bg3e	Bg3f	Bg3g	Bh3c	Bj3c			Bj3d
1.	Adigaratti	918	-	80	79	324	89	-	-	1490	6.4
2.	Eleda	275	416	36	-	35	989	356	63	2170	9.4
3.	Fernhill	128	-	81	1082	1315	605	2759	609	6579	28.4
4.	Guheda	1986	1741	794	-	-	707	562	264	6054	26.1
5.	Hullatti	31	86	72	-	130	131	176	-	626	2.7
6.	Odenu	105	161	100	31	114	124	-	-	635	2.8
7.	Ooty	-	-	-	-	-	-	80	-	80	0.3
8.	Sholur	-	354	-	223	119	-	276	129	1101	4.7
9.	Talakunda	102	-	623	10	36	141	1038	394	2344	10.1
Total		4138	2896	1826	1475	2158	2845	6319	1536	23193	100.0

8. Area under different land capability classes.

Sl. No.	Land capability unit	Area in hect.	Percentage	Name of the soil series.
1.	II	2689	11.6	Adigaratti, Eleda, Fernhill, Hullatti, Odenu, Ooty and Sholur.
2.	III	1962	8.5	Eleda, Fernhill, Guheda, Hullatti & Sholur.
3.	IV	3882	16.7	Adigaratti, Eleda, Fernhill & Guheda
4.	VI	4882	21.1	Adigaratti, Eleda, Fernhill, Guheda and Talakunda.
5.	VII	904	3.9	Fernhill, Guheda and Talakunda.
6.	VIII	123	0.5	Talakunda.
7.	Forest land	6627	28.6	
8.	Misc. lands	2114	9.1	
Total		23193	100.0%	

Miscellaneous lands included the area of village sites, roads, R.O.C, Streams, tanks etc.

9. Specific problematic area:

- a) The surveyed area covers an area of 23,193 hectares comprises 18 villages under Coonoor, Katagiri and Ooty of Ootacamund district (Nilgiri).
- b) Total Nine soil series are met in the surveyed area but only Fernhill, Guheda and Talakunda series relatively extensive.
- c) Area having deep to very deep soil and above 33% slope affected by moderate erosion in 142 hectares 0.6%.
- d) Area having moderately deep soils and above 25% slope affected by moderate erosion is 8004 hectares 34.5%.
- e) Area having moderately deep soils and above 10% slope affected by severe erosion in 444 hectares 1.9%.
- f) Area having drainage problem 712 hectares 3.0%.
- g) Area having shallow soils 2344 hectares 10.1%.
- h) Soil having severe rockiness 109 hectares 0.4%.