

Report on Detailed Soil Survey and Land Use of Tg1a, Tg1c, Tg1d, Tg1g and Tg3b Subwatersheds of Tungabhadra catchment, Haveri taluk, Dharwar district, Karnataka.

i. ABSTRACT

1. Surveyed area : Tg1a, Tg1c, Tg1d, Tg1g and Tg3b subwatersheds of Tungabhadra catchment, Haveri taluk, Dharwar dist. Karnataka State.
2. Total area mapped and reported : 19,598 hectares
3. Type of survey : Detailed soil survey
4. Period of survey : December 1989 to June 1990
5. Climatic zone : Semiarid tropical
6. No. of villages : 36
7. Subwatershedwise area under different soil series

Sl. No.	Name of the soil series	Subwatershedwise area in ha. (%)					Total area in ha (%)
		Tg1a	Tg1c	Tg1d	Tg1g	Tg3b	
1.	Devagiri	27	161	190	-	-	378
2.	Devihosur	12	16	262	42	-	332
3.	Haleritti	-	98	-	-	-	98
4.	Hosahalli	138	-	44	-	-	182
5.	Hugulur	1137	1617	2163	1327	4463	10707
6.	Kotihalu	490	49	3	364	73	979
7.	Machapura	47	13	175	2	15	252
8.	Mannur	-	-	40	64	-	104
9.	Varada	517	415	389	365	168	1854
10.	Varadahalli	-	772	429	17	-	1218
11.	Yellapura	149	1206	428	67	272	2122
	Misc. lands	197	379	381	152	263	1372
Total		2714	4726	4504	2400	5254	19598
Percentage		13.8	24.1	23.0	12.2	26.8	100%

8. Area under different land capability classes

Sl. No.	Land capability class	Area in ha.	Percentage	Soil series
1.	II	8891	45.4	Devagiri, Devihosur, Hosahalli Hugulur, Mannur, Varada
2.	III	6383	32.6	Devihosur, Hugulur, Kotihalu, Machapura, Varada, Yellapura
3.	IV	2132	10.9	Devihosur, Hugulur, Kotihalu, Machapura, Varadahalli, Yellapura
4.	VI	127	0.6	Haleritti, Varadahalli, Yellapura
5.	Forest	693	3.5	
	Misc. lands	1372	7.0	
Total		19598	100.0	

Note: Miscellaneous lands include the area under village sites, river, streams, roads, tanks, reservoirs, gullied lands, rock out crops etc.

9. Salient features and specific problematic area

- a) The surveyed area covers an area of 19,598 hectares comprising 36 villages under Haveri taluk of Dharwad district, Karnataka.
- b) Eleven soil series met within the surveyed area but only Huglur Varada and Yellapura series are relatively extensive
- c) Area under very deep soils having above 1% slope affected by severe erosion is 988 hectares ( 5.0%).
- d) Area under very deep soils having above 3% slope affected by moderate erosion is 4219 hectares (21.5%).
- e) Area under moderately deep to deep soils having above 1% slope affected by severe erosion is 427 hectares (2.2%).
- f) Area under moderately deep to deep soils having above 3% slope affected by moderate erosion is 2091 hectares (10.7%).
- g) Area under very shallow to shallow soils is 1316 hectares(6.7%).