

Report on Detailed Soil Survey and Land Use of Tf1r, Tf2a, Tf2b, Tf2q and Tf3s subwatersheds, Tungabhadra catchment, Hanagel, Savanur and Shiggoan taluks, Dharwad district, Karnataka State.

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ABSTRACT

1. Surveyed area Tf1r, Tf2a, Tf2b, Tf2q and Tf3s subwatersheds of Tungabhadra catchment in Hanagel, Savanur and Shiggoan taluks of Dharwad district, Karnataka State.
2. Total area mapped 15039 hectares in 37 villages
3. Type of Survey Detailed soil survey
4. Period of survey April 1990 to June 1990
5. Soil series mapped and total subwatershedwise area under each series

Sl. No.	Soil series Name	Subwatershedwise area in ha.					Total area	Percentage
		Tf1r	Tf2a	Tf2b	Tf2q	Tf3s		
1.	Adur	150	91	-	-	-	241	1.6
2.	Devihosur	73	175	184	231	-	663	4.4
3.	Huglur	822	2001	1547	2199	1247	7816	52.0
4.	Kallur	321	526	91	75	1068	2081	13.8
5.	Machapur	168	102	97	339	88	794	5.3
6.	Varadapur	149	52	-	16	6	223	1.5
7.	Varda	209	457	209	105	453	1433	9.5
8.	Wadagenahalli	779	161	-	105	36	1081	7.2
	Total	2671	3565	2128	3070	2858	14332	95.3
	Misc.	142	98	73	121	273	707	4.7
	Grand Total	2813	3663	2201	3191	3171	15039	100

6. Agro climatic region : Southern Plateau and Hill region (No.10)
7. Agro-climatic zone : Northern Transition zone (No.8) and Hilly Zone (No.9)

### 8. Area under different land capability classes

Sl. No.	Land capability class	Area in hectare	Percentage	Soil series
1.	II	6520	43.3	Adur, Devihosur, Huglur., Kallur, Varda
2.	III	5342	35.5	Adur, Devihosur, Huglur, Kallur, Machapur, Varda and Wadagenahalli.
3.	IV	2304	15.4	Devihosur, Huglur, Kallur, Machapur, Vardapur and Wadagenahalli
4.	VI	166	1.1	Vardapur
5.	Misc.*	707	4.7	
	Total	15039	100	

\*Miscellaneous lands included in the area under village sites Nallas, Roads, Tanks etc.

### 9. Salient features and specific problematic areas:

- a) The surveyed area covers an area of 15039 hectares comprising 37 villages under Hanagel, Savanur and Shiggaon taluks of Dharwad district (Karnataka State).
- b) Eight soil series are met within the surveyed area but only Huglur, Kallur and Varda series are relatively extensive.
- c) Area having very deep soils and above 1 % slopes affected by severe erosion is 2080 hectares.
- d) Area under very deep soils and above 3 % slopes affected by moderate erosion is 3640 hectares.
- e) Area having moderately deep to deep soil above 1 percent slopes affected by severe erosion is 606 ha.
- f) Area having moderately deep to deep soil above 3 percent slopes affected by moderate erosion 1715 hectares.
- g) Area having shallow rooting depth is 223 ha.
- h) Area under gullied land is 41 hectares