

Report on Detailed Soil Survey & Land Use of Tf1j, Tf1k and Tf1n subwatersheds of Tungabhadra catchment, Savanur taluk, Dharwad district, Karnataka State.

ABSTRACT

1. Surveyed area : Tf1j, Tf1k and Tf1n subwatersheds of Tungabhadra catchment, Savanur taluk, Dharwad dist : Karnataka State.
2. Total area surveyed : 11122 hectares in 21 villages
3. Type of survey : Detailed soil survey
4. Period of survey : December 1989 to May 1990
5. Location : 14°51' 40 " to 14°58'50" N Latitude and 75°21'48" to 75°29'10" E longitude
6. Soil series mapped and respective area in each subwatershed

Sl. No.	Soil series	Tf1j	Tf1k	Tf1n	Total area in ha.	Percentage
1.	Devihosur	230	40	-	270	2.4
2.	Hugulur	2243	2219	969	5431	48.8
3.	Krishnapura	1250	-	-	1250	11.2
4.	Machapura	328	220	59	607	5.5
5.	Vardahalli	223	-	293	516	4.6
6.	Varda	526	154	472	1152	10.4
7.	Yellapura	145	128	735	1008	9.1
	Misc. lands	329	178	381	888	8.0
	Total	5274	2939	2909	11122	100%

7. Land capability classes, extent and soil series mapped

Land capability classes	Area (ha)	Percentage	Soil series mapped
II	4454	40.0	Devihosur, Hugulur, Varda
III	3996	35.9	Devihosur, Hugulur, Varda
IV	1551	14.0	Yellapura, Machapura
VI	222	2.0	Machapura, Krishnapura, Vardahalli
VII	11	0.1	Krishnapura, Vardahalli
Misce.	88	8.0	Krishnapura
Total	11122	100.0	

8. Specific problematic area (In hectares)

Subwater- shed code	Problematic categories				
	Moderate ero- sion on slope above 3% on moderately deep to very deep soils	Severe erosion	Gravelli- ness	Shallow rooting depth	Actual proble- matic area
Tf1j	556*	18	1393*	1473	2125
Tf1k	1638	166	75*	-	1850
Tf1n	1713*	167	787*	152	2145
Total	3907	351	2255	1625	6120

* Areas having more than one problematic area either wholly or partly. Those area which are having more than one problem have been accounted only once in actual problematic area.

9. Salient features

- 1) Out of 11,122 hectares area surveyed, 6853 (61.6%) ha. is under deep to very deep black soils.
- 2) 6120 hectares (55%) is having one type or other problem which needs immediate suitable soil conservation measures.