

Report on demarcation of priority subwatersheds in Td, Tf and Tg sub-catchments, Tungabhadra river valley project in Dharwad, Raichur, Shimoga and North Kanara districts of Karnataka State.

Abstract

1. Survey area : Td, Tf and Tg subcatchments of TRVP in Dharwad, Raichur, Shimoga and North Kanara districts in Karnataka.
2. Total area surveyed and mapped: 6,90,592 hectares
3. Period of survey : November 1982 to January 1985
4. Total number of subwatersheds : 186

5. Distribution of areas under different priority categories

Priority category	Distribution of no. of sub-watersheds in Td, Tf, Tg along with area				Area under			
	Td	Tf	Tg	Total	Cultiva- tion	Forest	Pasture	Misc. lands
Very high	1 (1728)	6 (20154)	1 (2773)	8 (24655)	23952	246	27	430
High	11 (37664)	2 (5271)	4 (16351)	17 (59286)	56328	1498	123	1337
Medium	16 (63285)	7 (25734)	1 (5506)	24 (94525)	82367	10199	288	1671
Low	18 (64759)	8 (29224)	7 (21439)	33 (115422)	88123	24387	945	1967
Very low	4 (14053)	49 (183033)	51 (199618)	104 (396704)	253797	120674	5244	16989
Total	50 (181489)	72 (263416)	64 (245687)	186 (690592)	504567	157004	6627	22394

Extent of different soil mapping units with their slope gradients, land use and intensity of soil erosion in Td, Tf and Tg subcatchments in Tungabhadra catchment.

Soil Unit	Brief description	Total extent of area				Slope percentage	Soil conservation measures	Land use	Erosion intensity
		Td	Tf	Tg	Total				
A1	Moderately deep to very deep medium textured gravelly red soils	1728	4327	3964	10019	1-5%	Well protected	Gross cover & thin forest plantation	Slight erosion
A2	Deep to very deep, medium textured brown soils	5989	47767	51276	105032	1-5%	-do-	Moderately dense forest	-do-
A3	Shallow to moderately deep medium textured red soils	20259	14306	4643	39208	25-50%		Sparse to moderately dense forest vegetation	Slight to moderate erosion
A4	Shallow to moderately deep, medium textured gravelly red soils	2745	-	-	2745	1-10%	Moderately protected with trenches	Sparse vegetation	Slight erosion
C	Shallow to moderately deep medium textured gravelly red soils	6773	2474	9738	18985	1-5%	Unbunded	Cultivated	Moderate erosion
D1	Deep to very deep fine textured red soils	-	3816	1209	5025	0-1%	Moderately banded	-do-	Slight erosion
E2	Shallow to moderately deep, fine textured black soils	21664	-	140	21804	1-5%	Well banded	-do-	Slight erosion
E4	Shallow to moderately deep, fine textured black soils	1863	-	680	2543	1-3%	Poorly banded	-do-	Moderate erosion
F	Deep to very deep fine textured black soils	13734	7773	7387	28894	0-1%	Poorly banded	-do-	-do-
F1	Deep to very deep fine textured black soils	16756	1732	16217	34705	1-3%	Well Banded	-do-	Slight erosion
F2	Deep to very deep fine textured black soils	22254	10026	2569	34849	0-1%	-do-	-do-	-do-
F4	Deep to very deep fine textured black soils	583	19766	3717	24066	1-3%	Unbanded	Cultivated	Moderate erosion
H	Deep to very deep, medium to coarse textured brown soils	721	5164	9598	15483	0-3%	Well banded	-do-	Slight erosion