

Report on the prioritization of subwatersheds of Tj, Tm and Tq subcatchments of Tungabhadra RVP in Chikmagalur, Chitradurga and Shimoga districts of Karnataka.

1. ABSTRACT

1. Survey area : Tj, Tm and Tq subcatchments of Tungabhadra River Valley Project.
2. Location : 13°31' to 14°31' north latitude and 75°36' to 76°15' E longitude
3. Total area : 461052 hectares
4. Type of survey : Rapid reconnaissance soil survey
5. Period of survey : May 1984 to January 1985
6. Base map : Survey of India, topographical map (1:50,000)
7. Distribution of areas under different priority categories

Priority category	Distribution of area and number of subwatersheds in						Total	%
	Tj	%	Tm	%	Tq	%		
Very high	24605 (8)	9.5	12759 (4)	19.0	-	-	37364 (12)	8.1
High	22402 (6)	8.7	17201 (4)	25.7	14915 (4)	10.9	54518 (14)	11.8
Medium	58924 (15)	22.9	16382 (4)	24.5	28727 (9)	21.1	104033 (28)	22.6
Low	66038 (19)	25.6	20606 (5)	30.8	64593 (19)	47.4	151237 (43)	32.8
Very low	85828 (21)	33.3	-	-	28072 (7)	20.6	113900 (28)	24.7
Total	257797 (69)	100.0	66948 (17)	100	136307 (39)	100%	461052 (125)	100.0%

8. Hydrological division:

- a. Catchment - Tungabhadra catchment 'T'
- b. Subcatchment - 3(Tj, Tm and Tq)

c. Watersheds -

- a) Tj - 6
- b) Tm - 3
- c) Tq - 4

Total-13

d. Subwatersheds -

- a) Tj - 69
- b) Tm - 17
- c) Tq - 39

Total-125

9. Soil erosion hazard:

Sl. No.	Erosion	Area (in ha.)	Percentage
1.	Slight	220577	47.8
2.	Slight to moderate	30824	6.7
3.	Moderate	193728	42.0
4.	Severe	2286	0.5
5.	Misc.	13637	3.0
	Total	461052	100.0

10. Aerial extent of different erosion intensity mapping units.

Sl. No.	EIMU	Subcatchment			Total	Sl. No.	EIMU	Subcatchment			Total
		Tj	Tm	Tq				Tj	Tm	Tq	
1.	A	25164	80	2915	28159	21.	F4	29313	1465	6255	37033
2.	A1	-	300	2406	2706	22.	G2	-	-	1880	1880
3.	A3	-	11654	18908	30562	23.	G3	-	-	3230	3230
4.	A4	-	564	5474	6038	24.	I	8683	-	-	8683
5.	A6	-	15	5278	5293	25.	J	4179	-	-	4179
6.	A8	-	-	455	455	26.	M	4141	20	-	4161
7.	A9	-	-	6187	6187	27.	M1	-	99	283	382
8.	A10	-	2425	7700	10125	28.	M2	-	202	1304	1506
9.	A12	-	1310	11798	13108	29.	P	69273	-	13587	82860
10.	D	-	6667	9227	15894	30.	P1	-	325	12964	13289
11.	D1	-	-	400	400	31.	P2	-	20295	6399	26691
12.	D2	-	-	1001	1001	32.	R	60942	2980	-	63922
13.	D3	-	-	205	205	33.	R4	-	5054	3689	8743
14.	D4	-	-	40	40	34.	R6	-	120	2925	3045
15.	D5	-	-	3356	3356	35.	T1	27319	1218	1095	29632
16.	E	674	625	520	1819	36.	T2	16153	6964	1606	24723
17.	E1	101	-	-	101	37.	T3	2041	2157	380	4578
18.	F1	-	32	667	699	38.	Y	2256	-	-	2256
19.	F2	222	20	20	262	39.	Y1	30	-	-	30
20.	F3	182	-	-	182		Misc.	7124	2360	4153	13637
Grand Total								257797	66948	136307	461052

11. Salient features:

1. An area of 37,364 hectares (8.1%) spreading over 12 subwatersheds and 54,518 hectares (11.8%) spreading over 14 subwatersheds have been categorised as very high and high priorities respectively.