

REPORT ON PRIORITISATION OF SUBWATERSHEDS IN 'Ak' SUBCATCHMENT OF NAGARJUNASAGAR RIVER VALLEY PROJECT IN PARTS OF BELLARY, CHICKMAGALUR, CHITRADURGA, HASSAN, SHIMOGA AND TUMKUR DISTRICTS OF KARNATAKA STATE AND ANANTPUR AND KURNOOL DISTRICTS OF ANDHRA PRADESH STATE.

i ABSTRACT

- 1) Surveyed area : ''Ak'' subcatchment of Nagarjunsagar river valley project in parts of Bellary, Chickmagalur, Chitradurga, Hassan, Shimoga and Tumkur districts of Karnataka state and Anantpur and Kurnool districts of Andhra pradesh state.
- 2) Location : 75° 43' to 77° 25' E longitude and 13° 6' to 15° 45' N lattitude.
- 3) Total area : 23,47,545 hectares
- 4) Period of survey : 1985 to 1986
- 5) Type of survey : Rapid Reconnaissance Survey.
- 6) Base material : Survey of India toposheets of 1:50000 scale.
- 7) Climate zone : 10
- 8) Areal extent of different erosion intensity mapping units.

Sl. No.	Erosion Intensity Mapping Unit.	Area in hect	Percentage %	Sl. No.	Erosion Intensity Mapping Unit.	Area in hectares.	Percentage %
1.	A1	41504	1.8	18.	R1	162220	6.9
2.	A2	123401	5.3	19.	R2	327	0.1
3.	A3	19225	0.8	20.	R3	10516	0.5
4.	A4	45187	1.9	21.	T1	442520	18.9
5.	A5	111128	4.7	22.	T2	66581	2.8
6.	B1	1118	0.1	23.	T3	405846	17.3
7.	B2	192849	8.2	24.	T4	19350	0.8
8.	B3	6455	0.1	25.	T5	39127	1.7
9.	C1	622	0.1	26.	T6	20809	0.9
10.	C2	4651	0.2	27.	Y1	37939	1.6
11.	D1	4707	0.2	28.	Y2	196	0.1
12.	E1	130091	5.5	29.	X1	11112	0.5
13.	E2	6971	0.3	30.	River	19067	0.8
14.	J	47228	2.0	31.	Tank	62607	2.7
15.	P1	191220	8.1	32.	Habita- tion	7461	0.3
16.	P2	37003	1.5				
17.	P3	78507	3.3				
Total						2347545	100.0%

9) Hydrological division:

- a) Catchment : Nagarjunsagar 'A' Hagari 'H'
- b) Subcatchment : Ha, Hb, Hc etc.
- c) Watershed : Hal, Hbl etc.
- d) Subwatershed : Hala, Hbla etc.

10) Soil erosion hazard:

Sl.No.	Erosion	Area in hectares	Percentage
1.	Slight	717310	30.6
2.	Moderate	805147	34.3
3.	Moderate to severe	735953	31.3
	Miscellaneous	89135	3.8
Total		2347545	100.0%

11) Priority classification:

Sl. No.	Priority Categories	Silt Yield Index Range	No. of subwatersheds	Area in hectares	Percentage %
1.	Very high	1300 and above	22	76059	3.3
2.	High	1200 - 1299	42	148526	6.3
3.	Medium	1100 - 1199	51	174141	7.4
4.	Low	1000 - 1099	80	267792	11.4
5.	Very low	Less than 1000	486	1681027	71.6
Total			681	2347545	100.0%

12) Salient features:

An area of 76059 (3.3%) spreading over 22 subwatersheds has been categorised as under very high priority categories and an area of 148526 hectare (6.3%) spreading over 42 subwatersheds has been categorised as under high priority categories.