

Report on prioritization of subwatersheds in Aj subcatchment of Nagarjunsagar catchment in the parts of Belgaum, Bijapur, Dharwad, Gulbarga & Raichur districts, Karnataka State.

i. ABSTRACT

1. Survey area : 'Aj' Subcatchment of Nagarjunsagar catchment in the parts of Belgaum, Bijapur, Dharwad, Gulbarga & Raichur districts, Karnataka State.
2. Location : 74°45' to 76°21'E longitude and 15° to 16°37'30" N latitude .
3. Total area : 11,68,290 hectares
4. Period of survey : November 1981 to July 1982 & February 1985 to March 1985
5. Type of survey : Rapid reconnaissance survey
6. Base material : Survey of India toposheets of 1:50,000 and 1:63,360 scale.
7. Aerial extent of different erosion intensity mapping units.

Sl. No.	Erosion intensity units	Area in ha.	%	Sl. No.	Erosion intensity units	Area in ha.	%
1.	A1	35,924	3.1	15.	H1	4,687	0.4
2.	A2	40,161	3.4	16.	I	18,730	1.6
3.	A3	2,624	0.2	17.	P1	81,079	6.9
4.	B1	2,062	0.2	18.	P2	93,710	8.0
5.	C	56,833	4.9	19.	T1	1,19,027	10.2
6.	C1	7,090	0.6	20.	T2	5,999	0.5
7.	D	12,787	1.1	21.	T3	5,700	0.5
8.	E	15,934	1.4	22.	Y	5,130	0.4
9.	E1	51,060	4.4	23.	River	11,957	1.0
10.	E2	11,220	1.0	24.	Tank	2,136	0.2
11.	F	2,66,530	22.8	25.	Habitation	2,765	0.2
12.	F1	27,203	2.3	26.	Reservoir	220	0.1
13.	F2	69,364	5.9				
14.	F3	2,18,358	18.7				
				Total		11,68,290	100.0

8. Hydrological division

a. Catchment	-	Nagarjunsagar	catchment
		'A'	
b. Subcatchment	-	Aj	
c. Watersheds	-	13	
d. Subwatersheds	-	255	

9. Soil erosion hazard

Sl.No.	Erosion	Area (in ha.)	Percentage
1.	Slight	2,05,721	17.6
2.	Moderate	9,40,361	80.5
3.	Moderate to severe	5,130	0.4
4.	Miscellaneous lands	17,078	1.5
	Total	11,68,290	100.0

10. Priority classification.

Sl.No.	Priority category	Silt yield index range	No. of sub watersheds	Area in hectares	Percentage
1.	Very high	1300 & above	93	4,14,764	35.5
2.	High	1200-1299	40	1,84,012	15.8
3.	Medium	1100-1199	39	1,85,930	15.9
4.	Low	1000-1099	51	2,24,486	19.2
5.	Very low	Less than 1000	32	1,59,098	13.6
	Total		255	11,68,290	100.0

11. Salient features:

1. An area of 4,14,764 hectares (35.5%) spreading over 93 subwatersheds and 1,84,012 hectares (15.8%) spreading over 40 subwatersheds have been categorised as very high and high priorities respectively.

2. The extent of different kinds of soils

a. Black soils	-	8,34,458 hectares	71.4%
b. Red soils	-	3,16,754 hectares	27.1%
c. Miscellaneous lands	-	17,078 hectares	1.5%
	Total	11,68,290 hectares	100.0%

3. Area under different land use

a. Under cultivation	10,48,643 hectares	89.8%
b. Under forest	78,709 hectares	6.7%
c. Under grass cover/ fallow land	23,860 hectares	2.0%
d. Under miscellaneous land use	17,078 hectares	1.5%
	Total	11,68,290 hectares 100.0%