

Report on priority delineation of subwatersheds in parts of 'Au' subcatchment of Nagarjunsagar River Valley Project in Belgaum and Bijapur districts of Karnataka state and Kolhapur and Ratnagiri districts of Maharashtra state.

i. ABSTRACT

1. Surveyed area : Parts of 'Au' subcatchment of Nagarjunsagar River Valley Project in Belgaum and Bijapur districts of Karnataka state and Kolhapur and Ratnagiri districts of Maharashtra state.
2. Location : 73° 59' to 75° 54'-45'' E longitudes and 15° 44' to 16° 27' N latitudes.
3. Total area : 7,80,921 hectares.
4. Period of survey : November 1985 to March 1987.
5. Type of survey : Rapid reconnaissance survey.
6. Base material : Survey of India toposheets of 1 : 50,000 scale.
7. Areal extent of different erosion intensity mapping units.

Sl. No.	Erosion intensity mapping units	Area in hectares	Percentage	Sl. No.	Erosion intensity mapping units	Area in hectares	Percentage
1.	A1	44,450	5.69	19	P1	97,205	12.44
2.	A2	25,201	3.23	20	P2	52,695	6.75
3.	A3	43,102	5.52	21	P3	4,715	0.60
4.	B1	23,001	2.95	22	P4	68,563	8.80
5.	B2	51,261	6.56	23	R	10,822	1.39
6.	D	9,368	1.20	24	R1	11,272	1.44
7.	D1	6,213	0.80	25	R2	8,516	1.09
8.	D2	339	0.04	26	R3	780	0.10
9.	E	16,850	2.16	27	T1	33,017	4.22
10.	E1	5,036	0.64	28	T2	17,198	2.20
11.	E2	3,164	0.41	29	T3	7,802	0.99
12.	E3	38,400	4.92	30	T4	8,109	1.03
13.	F	77,111	9.87	31	Z	3,033	0.39
14.	F1	38,182	4.90		R.O.C.	45	0.01
15.	I	68	0.01		Habitation	4,737	0.61
16.	M	26,117	3.34		River	7,132	0.91
17.	M1	11,164	1.43		Tank	1,351	0.17
18.	M2	24,902	3.19				
TOTAL						7,80,921	100%

8. Hydrological divisions

- a. Catchment - Nagarjunsagar 'A'
- b. Subcatchment - 'Au'
- c. Watershed - 'Au1' to 'Au9'
- d. Subwatershed - 'Au1a' 180

9. Soil erosion hazard

Sl.No.	Erosion	Area in hectare	Percentage
1.	Slight	5,03,422	64.50
2.	Moderate	2,23,019	28.50
3.	Moderate to severe	41,215	5.30
4.	Miscellaneous	13,265	1.70
Total		7,80,921	100.00

10. Priority classification

Sl. No.	Priority category	Silt yield index range	No. of subwater sheds	Area in hectare	Percentage
1.	Very high	1200 and above	1	2,381	0.30
2.	High	1100 to 1199	29	1,33,350	17.10
3.	Medium	1000 to 1099	79	3,63,679	46.60
4.	Low	900 to 999	20	93,383	11.90
5.	Very low	Less than 900	51	1,88,128	24.10
Total			180	7,80,921	100.00

11. Salient features

1. Out of 7,80,921 hectares surveyed and reported, 2,381 hectares (0.3%) spread over 1 subwatershed and 1,33,350 hectares (17.1%) spread over 79 subwatersheds have been categorised as very high and high priority subwatersheds respectively.

2. The extent of different kinds of soils is as follows :

a. Red Soils	: 4,39,013 hectares
b. Black soils	: 3,28,643 hectares
Miscellaneous lands	: 13,265 hectares

TOTAL	7,80,921 hectares