

Report on prioritization of subwatersheds in 'As' subcatchment of Nagarjunasagar catchment in parts of Sangli, Kolhapur and Sholapur districts of Maharashtra State and in parts of Belgaum and Bijapur districts of Karnataka State.

i. ABSTRACT

1. Surveyed area : 'As' subcatchment of Nagarjunasagar catchment in parts Sangli, Kolhapur & Sholapur districts of Maharashtra State and in parts of Belgaum and Bijapur districts of Karnataka State.
2. Location : 73°44' to 75° 59' E longitudes and 16°04' to 17°17' N latitudes.
3. Total area : 1294406 hectares
KARNATAKA STATE
6,88,538 hectares
Belgaum - 308574 ha.
Bijapur - 379964 ha.
MAHARASHTRA STATE
6,06,453 hectares
Sangli dist. - 1,10,513 ha.
Kolhapur dist. - 4,95,775 ha.
Sholapur 165 ha.
4. Period of Survey : December 1986 to Oct. 1987
5. Type of survey : Rapid reconnaissance survey
6. Base material : Survey of India toposheets 1:50,000 scale

7. Areal extent of different erosion intensity mapping units

Sl. No.	Erosion intensity mapping units	Area in hectare	Percentage	Sl. No.	Erosion Intensity mapping units	Area in hectare	Percentage
1.	A1	6080	0.4	18.	J	66371	5.1
2.	A2	132341	10.2	19.	M1	5535	0.4
3.	A3	13337	1.0	20.	M2	5593	0.4
4.	A4	235	0.1	21.	P	344177	26.6
5.	A5	93281	7.2	22.	R	724	0.1
6.	B1	125787	9.7	23.	R1	348	0.1
7.	B2	49986	3.8	24.	T1	26626	2.1
8.	D	2760	0.2	25.	T2	97924	7.5
9.	E	90888	7.0	26.	T3	373	0.1
10.	E1	24557	1.9	27.	T4	2307	0.2
11.	E2	9375	0.7	28.	Y	1088	0.1
12.	E3	7619	0.6	29.	Z	1708	0.1
13.	E4	2123	0.2	30.	Habitation	5706	0.4
14.	F	41742	3.2	31.	River	16314	1.3
15.	F1	108205	8.3	32.	Tank	4396	0.3
16.	F2	6898	0.5				
17.	L	319	0.1				
Total						1294406	100%

8. Hydrological divisions

- a. Catchment - Nagarjunasagar catchment
 b. Subcatchment. - 'As'
 c. Watersheds - 16
 d. Subwatersheds - 299

9. Soil erosion hazards

Sl.No	Erosion	Area (ha)	Percentage
1.	Slight erosion	565573	43.7
2.	Moderate erosion	575242	44.5
3.	Moderate to severe	127495	9.8
4.	Miscellaneous lands	26096	2.0
Total		1294406	100%

10 Priority categorization

Sl. No.	Priority category	Silt yield index range	No. of sub-watersheds	Area in hectare	Percentage
1.	Very high	1300 and above	-	-	-
2.	High	1200-1299	8	41183	3.2
3.	Medium	1100-1199	73	329638	25.5
4.	Low	1000-1099	76	318885	24.6
5.	Very low	Less than 1000	142	604700	46.7
Total				1294406	100%

11. Salient features

1. An area of 45639 hectares (3.5%) spreading over 8 subwatersheds has been categorised as high priority categories.

12. The extent of different kinds of soils

a. Red soils	455865 hectares	35.2%
b. Black soils	291407 hectares	22.5%
c. Brown soils	175773 hectares	13.6%
d. Mixed red and black (irrigated) soils	344177 hectares	26.6%
e. Mixed red and black (saline/alkaline) soils	1088 "	0.0%
f. Miscellaneous lands	26096 "	2.0%
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Total	1294406 hectares	100%

13. Area under different land uses

a. Under rainfed cultivation	598245 hectares	46.2%
b. Under irrigation cultivation	344177 "	26.6%
c. Under forest cover/fallow land	324800 ha.	25.1%
d. Under waste lands	1088 hectares	0.1%
e. Under miscellaneous non agricultural land uses	26096 hectares	2.0%
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Total	1294406 hectares	100%