

REPORT ON PRIORITY DELINEATION IN 'Ap' SUBCATCHMENT OF NAGARJUNASAGAR CATCHMENT IN PARTS OF SANGLI AND SATARA DISTRICTS OF MAHARASTRA STATE.

I. ABSTRACT

1. Surveyed area : 'Ap' subcatchment of Nagarjuna-sagar catchment in parts of Sangli and Satara districts of Maharashtra state.
2. Location : 73°-35' to 74°-45'E longitudes & 16°-5' to 18°-5' N Latitudes.
3. Total area : 12,36,568 hectare .
4. Period of survey : November 1987 to January, 1989.
5. Type of survey : Rapid reconnaissance survey.
6. Base material : Survey of India toposheets of 1:50,000.
7. Areal extent of different erosion intensity mapping units.

Sl. No.	Erosion intensity mapping units	Area in ha.	%	Sl. No.	Erosion intensity mapping units.	Area in ha.	%
1.	A1	9934	0.8	21.	J	37086	3.0
2.	A2	51165	4.1	22.	M	112740	9.1
3.	A4	102179	8.2	23.	P	261640	21.1
4.	A5	44247	3.6	24.	R	4322	0.3
5.	B1	142976	11.5	25.	R1	17306	1.4
6.	B2	79287	6.4	26.	R2	689	0.1
7.	B4	1764	0.1	27.	T1	41911	3.4
8.	D	387	0.1	28.	T2	66614	5.4
9.	D1	156	0.1	29.	T3	38664	3.1
10.	D3	6200	0.5	30.	T4	10465	0.8
11.	E	49143	4.0	31.	T5	625	0.1
12.	E1	7418	0.6	32.	T6	9473	0.7
13.	E2	12648	1.0	33.	T7	268	0.1
14.	E3	2382	0.2	34.	Y	408	0.1
15.	F	8486	0.7	35.	Z	75	0.1
16.	F1	16560	1.3	36.	Habitation	4382	0.4
17.	F2	43104	3.5	37.	River	13234	1.1
18.	F3	11908	1.0	38.	Tank	17293	1.3
19.	F4	1028	0.1				
20.	I	8401	0.6		Total	1236568	100.0

8. Hydrological divisions:

- a. Catchment - Nagarjunasagar catchment 'A'
- b. Subcatchment - 'Ap'
- c. Watersheds - 11
- d. Subwatersheds - 236

9. Soil erosion hazard:

<u>Sl.No.</u>	<u>Erosion</u>	<u>Area in ha.</u>	<u>Percentage.</u>
1.	Slight erosion	547787	44.3
2.	Slight to moderate erosion	1764	0.1
3.	Moderate erosion	509057	41.2
4.	Moderate to severe	143051	11.6
	Miscellaneous lands	34909	2.8
Total		1236568 hect.	100.0

10. Priority categories:

<u>Sl. No.</u>	<u>Priority Category</u>	<u>Silt yield Index range</u>	<u>No. of sub-watersheds</u>	<u>Area in hect.</u>	<u>%</u>
1.	Very high	1200 & above	1	4472	0.4
2.	High	1100-1199	41	204201	16.5
3.	Medium	1000-1099	129	688937	55.7
4.	Low	900-999	29	139169	11.2
5.	Very low	Less than 900	36	199789	16.2
Total			236	1236568	100.0

11. Salient features:

An area of 4472 hectare (0.4%) spreading over 1 subwatersheds has been categorised as under very high priority categories and an area of 204201 hectare (16.5%) spreading over 41 subwatersheds has been categorised as under high priority categories.

12. The extent of different kinds of soils:

a. Black soils	-	152677 hectare	12.4
b. Brown soils	-	224027 hectare	18.1%
c. Red soils	-	562907 hectare	45.5%
d. Mixed red & black (saline & alkaline)	-	408 hectare	0.1%
e. Mixed red & black(irrigated)	-	261640 hectare	21.1%
f. Miscellaneous non-agricultural lands (Habitation, river, tank etc.)	-	34909 hectare	2.8%
Total		1236568 hectare	100.0%