

Report on Prioritisation of Sub-watersheds in Ar Subcatchment
of Nagarjunsagar Catchment, Poona, Satara and Sholapur
Districts, Maharashtra.

I A B S T R A C T

1. Survey Area : Ar subcatchment of Nagarjunsagar Catchment, Poona, Satara and Sholapur Districts, Maharashtra.
2. Location : 73°32' to 75°35' E Longitude
17°32' to 18°26' N Latitude.
3. Total area : 9,82,382 Hectares.
4. Period of Survey: January 89 to May, 90
5. Type of survey : Rapid Reconnaissance survey.
6. Base materials : 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 (ha)	Percentage
1.	A2	46140	4.70
2.	A4	6600	0.67
3.	A5	3947	0.40
4.	B1	97549	9.93
5.	B2	3725	0.38
6.	E	151975	15.47
7.	E1	27654	2.82
8.	F	960	0.10
9.	F1	1544	0.16
10.	F2	10949	1.11
11.	F4	300	0.03
12.	J	150732	15.34
13.	M	73366	7.47
14.	P	29355	2.99

Sl. No.	Erosion Intensity mapping units	Area (ha)	Percentage
15.	P1	72161	7.35
16.	P2	148556	15.12
17.	P3	195	0.02
18.	T1	112213	11.42
19.	T7	13430	1.37
20.	Y	2105	0.21
21.	Y2	4214	0.43
22.	Rock-out-crop	5659	0.57
23.	Tank	3973	0.40
24.	Habitation	1475	0.15
25.	Rivers	7370	0.75
26.	Reservoirs	6235	0.64
TOTAL		9,82,382	100.00

8. Hydrological Divisions:

- (a) Catchment : Nagarjunsagar Catchment 'A'
- (b) Subcatchment : Ar
- (c) Watersheds : 10 (Ar1 to Ar10)
- (d) Subwatersheds : 194

9. Priority Classification :

Sl. No.	Priority Category	Silt yield index range	No. of sub-watersheds	Area (hectares)	Percentage
1.	Very high	1300 & above	1	3,986	0.4
2.	High	1200 - 1299	11	47,892	4.9
3.	Medium	1100 - 1199	67	3,74,344	38.1
4.	Low	1000 - 1099	62	2,99,368	30.5
5.	Very Low	below 1000	53	2,43,187	24.7
Rivers & Reservoirs				13,605	1.4
TOTAL			194	9,82,382	100.0

10. Salient Features :

	Area (ha)	Percentage
a. Area under very high and high priorities	51,878	5.3
b. Area having very shallow to shallow soils	2,24,098	22.8
c. Steep to very steep slopes	1,26,106	12.8
d. Deep to very deep black soils	1,15,269	11.8
e. Saline Soils	2,105	0.2
f. Cultivated lands	6,70,566	68.3
g. Grass lands	2,24,098	22.8
h. Forest lands	56,687	5.8
i. Culturable waste lands	6,319	0.6
j. Miscellaneous lands	24,712	2.5