

**REPORT ON THE PRIORITIZATION OF SUBWATERSHEDS
IN Ae SUBCATCHMENT, NAGARJUNASAGAR CATCHMENT,
KURNOOL & MAHBUBNAGAR DISTRICT OF ANDHRA PRADESH AND
BELLARY, BIJAPUR, CHITRADURGA & RAICHUR DISTRICTS OF
KARNATAKA STATE**

A B S T R A C T

1. Survey area Ae subcatchment, Nagarjunasagar Catchment, Kurnool & Mahbubnagar districts of Andhra Pradesh and Bellary, Bijapur, Chitradurga & Raichur districts of Karnataka
2. Location 76°01'40" to 78°09'27" E Long
14°53'52" to 16°17'00" N Lat
3. Total area 18,81,438 ha
4. Period of survey November, 1993 to June, 1994
5. Type of survey Rapid reconnaissance
6. Base material Toposheet (1:50,000 scale)
Survey of India
7. Hydrologic division Catchment : Nagarjunasagar
Subcatchment : 1
Watersheds : 21
Subwatersheds : 343
8. Priority categorisation

Erosion Priority	Total No. / Area	Andhra Pradesh		Karnataka	
		No. of subwater sheds	Area	No. of Subwater sheds	Area
Very high	9/45457 (2.5)	07	34,521 (1.9)	02	10,936 (0.6)
High	30/1,50,613 (8.3)	16	90,031 (5.0)	14	60,582 (3.3)
Medium	56/3,25,045 (17.9)	26	1,70,506 (9.4)	30	1,54,539 (8.5)
Low	128/6,90,903 (38.3)	48	3,04,091 (16.8)	80	3,86,812 (21.5)
Very low	120/5,97,171 (33.0)	32	2,05,367 (11.4)	88	3,91,804 (21.6)
Total	343/18,09,189 (100.0)	129	8,04,516 (44.5)	214	10,04,673 (55.5)
MISCL.	72249				
G.T.	18,81,438				

9. Mapping units and area under each

Erosion Intensity Mapping Units	Area (ha)	Percentage
G1	43,509	2.4
G2	88,782	4.9
G3	16,298	0.9
G4	2,64,758	14.6
G5	17,209	0.9
G6	1,98,640	11.0
G7	12,458	0.7
G8	71,781	4.0
G9	2,36,912	13.1
G10	1,23,335	6.8
G11	2,04,561	11.3
G12	4,20,862	23.3
G13	1,10,084	6.1
Total	18,09,189	100.0

How to use soil survey report

The report deals with the results of the rapid reconnaissance soil survey for categorisation of subwatersheds in the Ae subcatchment of Nagarjunasagar catchment in the descending order of priority on the basis of sediment yield index. Maps of the delineated priority subwatersheds in the scale of 1:50,000 area appended with the report.

The report aims fixing priorities amongst the subwatersheds of the area covered where large sediment is expected to be detached and transported. This will enable the user to identify the area where soil conservation measures have to be implemented. In order to make the user to get an idea of the soil conditions and climate environment of the catchment area a detailed characterisation of the area under survey have been described in chapter 2.

The methodology and legend adopted have been described in chapter 3 and chapter 4 respectively.

Erosion intensity mapping units connotes a set of attributes viz., physiography, slope, inherent characteristics of soil and landuse, conservation practices, surfacial condition and nature and extent of erosion etc.

The area of interest can be located on the priority subwatershed map with the help of village location, roads and other permanent features like cultural features, spot heights etc. and relevant high priority subwatersheds as shown in map by colours respectively.