

Report on the demarcation of priority subwatersheds
in Ab and Ac (Part) Subcatchments

ABSTRACT

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1. Survey Area : Ab & Ac (part) subcatchments
Nagarjunasagar Catchment,
Nalgonda and Mahaboobnagar
Districts, Andhra Pradesh
 2. Location (Ab & Ac part) : 16°-10' to 17°-0' N Lat &
78°-25' to 79°-15' E Long.
 3. Total Area : 2,95,711 ha (+19,414 ha under
rivers, tanks and reservoirs)
 - 4 a. Period of survey : November, 78 - April, 79
b. Type of survey : Rapid reconnaissance for
priority delineation
 5. Base material : Aerial photographs (1:20,000)
and toposheets (1:50,000)
 6. Mapping unit area details :

Mapping unit	Area (ha)	Percent
A	4,367	1.5
B	28,882	9.8
C	1,19,692	40.5
C1	4,600	1.6
E	1,060	0.3
F	8,229	2.8
H	28,626	9.7
J	2,654	0.9
K	4,863	1.6
M	1,288	0.4
Q	16,221	5.5
R	54,011	18.2
R1	21,218	7.2
	2,95,711	100.0

Computed for Ab and Ac (part) subcatchments together

7. Hydrologic division

- a) Catchment : Nagarjunasagar, Andhra Pradesh
- b) Sub-catchments : Ab and Ac(part)
- c) Watersheds : 9 (Ab-6; Ac-3)
- d) Subwatersheds : 83 (Ab-56; Ac-27)

(ii)

8. Priority classification

Priority category	Sediment yield index range	No. of sub-watersheds	Area (ha)	Percent of total
Very high	Over 1300	4	11,866	4.0
High	1200 - 1299	27	1,02,750	34.7
Medium	1100 - 1099	12	39,650	13.4
Low	1000 - 1099	6	20,923	7.1
Very low	Less than 1000	34	1,20,522	40.8
		83	2,95,711	100.0

9. Salient features

	Area (ha)	Percent
a. Paddy lands	33,249	11.2
b. Forest areas		
i) Gently to moderately sloping, moderately thick cover	21,218	7.2
ii) Moderately to steeply sloping thin to moderately thick cover	54,011	18.3
c. Eroded and salt affected lands	3,714	1.3
d. Hills, inselbergs etc.	16,221	5.5
e. Coarse, gravelly & cobbly areas	6,151	2.1
f. Fine textured soils	8,229	2.8
g. Coarse to medium textured soils	124,292	42.0
h. Medium textured soils	28,626	9.7
i. Very shallow to shallow soils	61,222	20.7
j. Moderately deep to deep soils	174,392	59.0
k. Deep to very deep soils	43,876	14.8
l. Nearly level lands (including terraced areas)	33,249	11.2
m. Very gently to gently sloping lands	163,801	55.4
n. Moderately to steeply sloping lands	82,440	27.9
o. Very steeply sloping lands	16,221	5.5