

Report on Demarcation of Priority Subwatersheds in Ac(part Subcatchment (Above Dindi Reservoir), Nagarjunasagar R.V. Catchment, Andhra Pradesh

ABSTRACT

1. Survey Area : Ac (part) subcatchment (above Dindi reservoir) of Nagarjunasagar Catchment, Mahaboebnagar district, Andhra Pradesh
2. Location : 16°20'-17°5' N Lat, 78°0'-78°40' E Long.
3. Total area : 3,65,246 ha (+5605 ha under rivers, tanks, and streams)
4. a) Period of survey : December, 1980 to June, 1981
b) Type of survey : Rapid reconnaissance for priority delineation.
5. Base material : Aerial photographs (1:20,000) and topesheets (1:50,000)
6. Mapping units and area under each :

Mapping Unit	Area (ha)	Per cent
A	7878	2.2
B	60291	16.5
C	163250	44.7
C1	408	0.1
D	29203	8.0
E	2567	0.7
F	15574	4.3
H	61494	16.8
J	10279	2.8
K	3285	0.9
M	953	0.3
N	481	0.1
Q	5681	1.6
R	3463	0.9
R1	429	0.1
	365246	100.0

7. Hydrologic divisions

- a) Catchment : A - Nagarjunasagar, Andhra Pradesh
- b) Subcatchment : Ac - (Dindi Catchment)
- c) Watersheds : 6 - Ac4 to Ac9 (Ac1-3 already reported in report No. Agri 520)
- a) Subwatersheds : 97

8. Priority classification (with respect to Nagarjunasagar reservoir)

Priority category	Sediment yield index ranges	No. of sub-watersheds	Area (ha)	Percent
Very high	Over 1300	-	-	-
High	1200 - 1299	-	-	-
Medium	1100 - 1199	-	-	-
Low	1000 - 1099	-	-	-
Very low	below 1000	97	365245	100
		97	365245	100

9. Priority classification (with respect to Dandi reservoir)

Priority category	Sediment yield index ranges	No. of sub-watersheds	Area (ha)	Percent
Very high	Over 1300	-	-	-
High	1200 - 1299	4	11705	3.2
Medium	1100 - 1199	6	21837	6.0
Low	1000 - 1099	19	68522	18.8
Very low	below 1000	68	263182	72.0
		97	365245	100.0

10 Salient features

Feature	Area (ha)	Percent
a) Paddy lands	68169	18.7
b) Forest areas	3902	1.0
c) Eroded and salt affected lands	12846	3.5
d) Hills, hillocks, inselbergs, etc.	6634	1.9
e) Coarse, gravelly and cobbly soils	3285	0.9
f) Coarse loamy soils	164139	44.9
g) Fine loamy to clayey soils	158866	43.5
h) Fine to very fine textured	15574	4.3
i) Very shallow to shallow soils	170463	46.7
j) Moderately deep to deep soils	29684	8.1
k) Deep to very deep soils	95225	26.1
l) Nearly level lands (including terraced lands)	68169	18.7
m) Very gently to gently sloping lands	189511	51.9
n) Moderately to steeply sloping lands	100932	27.6
o) Very steeply sloping lands	6634	1.9