

Report on detailed soil survey of Aa1d, Aa1e, Aa2a and Aa2e sub-watersheds of Nagarjunsagar catchment in Macherla subtaluka, Guntur District, Andhra Pradesh.

Abstract for all subwatersheds together

1. Survey area : Aa1d, Aa1e, Aa2a and Aa2e subwatersheds of Nagarjunsagar catchment in Guntur District, Andhra Pradesh.
2. Total area mapped and reported: 10768 hectares
3. Period of work : April to June 1977
4. Soil series mapped and extent of each in hectares:

<u>Soil series name</u>	<u>Area in hectares</u>	<u>Percentage</u>
1. Aklavaram	600	5.6
2. Davupalle	1017	9.4
3. Gottipalle	16	0.1
4. Gullapadu	689	6.4
5. Hanmapuram	247	2.3
6. Kandlagunta	30	0.2
7. K.P. Puram	186	1.7
8. Marsapenta	1175	10.9
9. Rangapulkunta	612	5.7
10. Vajarlapadu	5370	49.8
11. Miscellaneous	826	7.6
	<u>10768</u>	

5. Land capability classification

<u>Land capability class</u>	<u>Area in hect.</u>	<u>Percentage</u>	<u>Series mapped</u>
Class II	852	7.9	i) Aklavaram ii) Kandlagunta iii) K.P. Puram iv) Rangapulkunta
Class III	807	7.5	i) Aklavaram ii) Hanumapuram iii) Marsapenta
Class IV	256	2.3	i) Gullapadu ii) Marsapenta
Class VI	1144	10.6	i) Davupalle ii) Gullapadu iii) Vajarlapadu
Class VII	<u>70</u> 3129 *	0.6	i) Vajarlapadu

6. Specific problematic areas:

a) Moderate erosion on slopes above 3% from moderately deep and deeper soils	-	640	hectares
b) Severe erosion from moderately deep and deeper soils	-	872	"
c) Shallowness	-	272	"
d) Shallowness, with stoniness and rockiness	-	6962	"
e) Water logging	-	<u>8</u>	"
		8754	"

\* This figure excludes area under reserve forest.