

REPORT ON DETAILED SOIL SURVEY AND LAND USE OF
AG4A, AG4B, AG4C AND AG4D SUBWATERSHEDS OF
NAGARJUNASAGAR CATCHMENT,
TALUK DEODURG AND RAICHUR, DISTRICT RAICHUR,
KARNATAKA STATE

ABSTRACT

01. Survey area : Nagarjunasagar Catchment
Taluk Deodurg and Raichur, District Raichur
Karnataka State
Ag4a, Ag4b, Ag4c and Ag4d subwatersheds
02. Type of Survey : Detailed Soil Survey
03. Total Area : 22,513 ha

Total area	Net area (ha)	Misc. area (ha)	Total (ha)
Ag4a	4426	899	5325
Ag4b	6170	341	6511
Ag4c	5607	6	5613
Ag4d	4806	258	5064
Total	21009	1504	22513

04. Period of Survey : April, 1987 to March 1989

05. Soil series and their extent

Name of the Soil series	Area under different subwatersheds and their extent				
	Ag4a	Ag4b	Ag4c	Ag4d	Total
Akwaram	-	-	-	76 (1.6)	76 (0.3)
Apral	-	78 (1.3)	-	-	78 (1.3)
Denda	283 (6.4)	22 (0.4)	-	-	305 (1.5)

Devarkonda	453 (10.2)	23 (0.4)	-	740 (15.4)	1216 (5.8)
Gabbur	929 (21.0)	682 (11.1)	3171 (56.6)	355 (7.4)	5137 (24.5)
Hembaral	2400 (54.3)	5022 (81.3)	478 (8.5)	3069 (63.8)	10998 (52.2)
Patancheru	91 (2.1)	13 (0.2)	-	22 (0.5)	126 (0.6)
Perwel	-	-	-	87 (1.8)	87 (0.4)
Rangapur	210 (4.8)	-	-	-	210 (1.0)
Tatikol	51 (1.2)	-	-	110 (2.3)	161 (0.8)
Telugupalli	-	-	-	14 (0.3)	14 (0.1)
Timmapur	-	330 (5.3)	1958 (34.9)	333 (6.9)	2621 (12.5)
Total	4426 (100)	6170 (100)	5607 (100)	4806 (100)	21009 (100)
Misc.	899	341	6	258	1504
Grand Total	5325	6511	5613	5064	22513

06. Potential for agricultural development land capability classification

Description	Land cap.	Area (ha)	Land cap. unit	Area (ha)	Soil series covered
Good cultivated land	II	8750	II-1	102	Patancheru, Perwel
			IIe-1	140	Patancheru
			IIe-2	32	Akwaram
			IIs-1	466	Hembaral, Rangapur, Telugupalli
			IIes-1	7970	Gabbur, Hembaral, Rangapur
			IIes-2	34	Hembaral
Moderately good cultivable	III	9976	IIIes-1	2141	Devarkonda
			IIIes-2	7835	Timmapur
Fairly good	IV	2283	IVs-1	6	Rangapur
			IVes-1	1675	Apral, Timmapur, Devarkonda
			IVes-2	122	Apral, Devarkonda, Hembaral
					Rangapur, Patancheru
			IVes-3	14	Devarkonda
			IVse-1	443	Denda, Tatikol
		IVse-2	23	Denda	
		21009		21009	