

**Report on Detailed Soil Survey and Land Use of  
Ag2b, Ag2c, Ag2f and Ag2g subwatersheds of  
Nagarjunasagar Catchment, Gadwal Taluk,  
Mahbubnagar District, Andhra Pradesh and  
Raichur Taluk, Raichur District, Karnataka**

**ABSTRACT**

01. Survey area : Ag2b, Ag2c, Ag2f and Ag2g subwatersheds of Nagarjunasagar catchment, Gadwal taluk, Mahbubnagar district, Andhra Pradesh and Raichur taluk, Raichur district, Karnataka
02. Type of survey : Detailed soil survey
03. Type of base map : Cadastral map (1:7,920 scale)
04. No. of villages covered : 30
05. Total area surveyed (ha) : 16,345 ha

(Area in ha)

No.	Sub watershed code	Net area			Misc. area			Total area		
		A.P.	Kar	Total	A.P.	Kar	Total	A.P.	Kar	Total
01	Ag2b	4193	-	4193	213	-	213	4406	-	4406
02	Ag2c	2344	990	3334	115	52	167	2459	1042	3501
03	Ag2f	3393	-	3393	71	-	71	3464	-	3464
04	Ag2g	4123	719	4842	125	7	132	4248	726	4974
	Total	14053	1709	15762	524	59	583	14577	1768	16345

07. Period of survey : February 2003 to June, 2003

## 07. Soil series identified and their subwatershedwise distribution (ha)

Soil series	Ag2b	Ag2c	Ag2f	Ag2g	Total (%)
Appandoddi	-	-	376	276	652 (3.9)
Chiksugur	493	177	01	-	671 (4.1)
Devargudda	1703	654	1596	2115	6068 (37.1)
Kondapur	1132	1299	771	1240	4442 (27.2)
Kunchnerala	-	-	-	97	97 (0.6)
Marlavidu	400	626	179	318	1523 (9.3)
Timbalgatti	130	88	324	548	1090 (6.7)
Undraldoddi	73	246	136	141	596 (3.7)
Yeragunta	262	244	10	107	623 (3.8)
Total	4193	3334	3393	4842	15762 (96.4)
Misc.	213	167	71	132	538 (3.6)
Grand total	4406	3501	3464	4974	16345 (100)

## 08. Potential for agricultural development and land capability classification

Description	Land capability class	Area (ha)	Percent age	Land capability unit	Area (ha)	Soil series
Good cultivated land	II	3059	18.7	II-1	1432	Marlavidu
					1090	Timbalgatti
Moderately good cultivated lands	III	5612	34.3	IIe-1	213	Yeragunta
					324	Yeragunta
				IIIe-1	86	Yeragunta
				IIIIs-1	540	Devargudda
Fairly good lands suitable for limited cultivation	IV	5075	31.1	IIIes-1	372	Devargudda
				IIIes-2	2533	Devargudda
Very well suited for grazing. Not arable	V	1116	6.8	IVes-1	2081	Kondapur
				IVe-1	78	Marlavidu
				IVe-2	13	Marlavidu
				IVes-1	2623	Devargudda
Well suited for grazing or forestry	VI	76	0.5	IVes-2	1670	Kondapur
					691	Kondapur
				Ves-1	170	Appandoddi
				Ves-2	350	Appandoddi
				Ves-3	132	Undraldoddi
				Ves-4	177	Undraldoddi
Fairly suited for grazing or afforestation	VII	824	5.0	Ves-5	216	Undraldoddi
				Vs-1	71	Undraldoddi
Total		15762	96.4		15762	
Misc		583	3.6		583	
<b>Total</b>		<b>16345</b>	<b>100.0</b>		<b>16345</b>	

## 09. Salient Features

# 3822 ha (23.4%) area is under deep to very deep soils

# 5698 ha (34.8%) area suffers from moderate erosion and 6718 ha (41.1%) suffers from severe erosion