

# Report on Detailed soil survey and land use of Ag2d and Ag2t subwatersheds of Nagarjunasagar catchment, Gadwal taluk, Mahaboobnagar district, Andhra Pradesh and Raichur taluk, Raichur district, Karnataka

## ABSTRACT

01. Survey area : Ag2d and Ag2t subwatersheds of Nagarjunasagar catchment, Gadwal taluk, Mahaboobnagar 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 : 23
05. (a) Total area surveyed (ha) : 9034 ha

Sr. No.	Subwatershed Code	Net Area (ha)	Misc. Area (ha)	Total Area (ha)
01	Ag2d	4660	324	4984
02	Ag2t	3557	493	4050
	Total	8217	817	9034

05. (b) Distribution of area under different states.

Sr. No.	Subwatershed Code	Raichur District (Karnataka)	Mahaboobnagar district (A.P.)	Total Area
01	Ag2d	3926	1058	4984
02	Ag2t	4050	-	4050
	Total	7976	1058	9034

06. Period of survey

: November, 1997 to June, 2000

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

Sr. No.	Soil Series	Area under different subwatersheds		Total	Percentage
		Ag2d	Ag2t		
01	Chennampalli	11	-	11	0.1
02	Devargudda	3186	781	3967	43.9
03	Gonpad	18	257	275	3.1
04	Halvenkatapur	-	1969	1969	21.8
05	Raldoddi	42	-	42	0.5
06	Tatikol	39	-	39	0.4
07	Timbalgatti	156	25	181	2.0
08	Vaddepalli	1178	336	1514	16.8
09	Yeragunta	30	189	219	2.4
	Total	4660	3557	8217	91.0
	Misc. area	324	493	817	9.0
	Grand total	4984	4050	9034	100.0

## 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	4003	44.4	II-1	1076	Raldoddi Timbalgatti Vaddepalli
				II-2	370	Timbalgatti Vaddepalli
				Iies-1	2086	Gonpad Halvenkatapur
				Iie-1	471	Vaddepalli Yeragunta
Moderately good cultivated lands	III	4127	45.7	IIIes-1	769	Devargudda
				IIIe-1	30	Yeragunta
				IIIes-2	3170	Devargudda
				IIIes-3	158	Halvenkatapur
Fairly good lands suitable for limited cultivation	IV	76	0.8	IVe-1	39	Devargudda
				IVe-1	9	Vaddepalli
				IVes-1	39	Tatikol
				IVes-2	28	Devargudda
Well suited for grazing afforestation	VI	11	0.1	Vies-1	11	Chennampalli

## 09. Salient features

- Deep to very deep soils cover 46.5% of the total area of 9034 ha
- Moderately deep soils cover 3967 ha (46.6%)
- Near level lands cover 1446 ha (16.1%)
- Very gently to gently sloping lands cover 6760 ha (74.8%)
- 6723 ha (74.4%) area suffers from moderate erosion
- Good cultivable lands (land capability class II) cover 4003 ha (44.4% of total area of 9034 ha)
- Moderately good cultivable lands (land capability class III) cover 4127 ha (45.7% of total area)