

# Report on Detailed Soil Survey and Land Use of Ag3q, Ag3s and Ag3t subwatersheds of Nagarjunasagar Catchment, Shahpur and Shorapur Taluks, Gulbarga District, Karnataka

## ABSTRACT

01. Survey area : Ag3q, Ag3s and Ag3t subwatersheds of  
Nagarjunasagar catchment, Shahpur and Shorapur  
taluks, Gulbarga 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 : 21
05. Total area surveyed (ha) : 12,471 ha

(Area in ha)

No.	Subwatershed code	Net area	Misc. area	Total area
01	Ag3q	5972	183	6,155
02	Ag3s	3710	137	3,847
03	Ag3t	2301	168	2,469
	Total	11983	488	12,471

06. Period of survey : December 2004 to June, 2005
07. Agro-climatic Zone : Southern plateau and hill region (Zone X)

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

	Soil series	Area under different subwatersheds			Total	Percentage
		Ag3q	Ag3s	Ag3t		
01	<b>Birnur</b>	321	--	198	519	4.2
02	<b>Chennampalli</b>	146	376	09	531	4.3
03	<b>Fatepur</b>	67	461	--	528	4.3
04	<b>Gonpad</b>	217	143	54	414	3.3
05	<b>Hembral</b>	4295	730	1440	6465	51.8
06	<b>Kurvihal</b>	23	--	306	329	2.6
07	<b>Kambalapalli</b>	15	271	09	295	2.4
08	<b>Tumkur</b>	314	407	108	829	6.6
09	<b>Tatikol</b>	--	444	--	444	3.5
10	<b>Undroldoddi</b>	--	449	--	449	3.6
11	<b>Venkatapur</b>	417	28	126	571	4.6
12	<b>Wadagera</b>	157	401	51	609	4.9
	<b>Total</b>	5972	3710	2301	11983	96.1
	<b>Misc.</b>	183	137	168	488	3.9
	<b>Grand Total</b>	6155	3847	2469	12471	100.0

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

Description	Land capability class	Area (ha)	Percentage	Land capability unit	Area (ha)	Soil series
Good cultivable land	II	6138	49.2	IIs-1	2279	Gonpad, Hembral, Wadagera, Kurvihal
				IIses-1	3392	Gonpad, Hembral, Kurvihal
				IIses-2	467	Wadagera
Moderately good cultivable land	III	3403	27.3	IIIs-1	93	Fatepur, Tumkur, Birnur, Fatepur, Tumkur
				IIIes-1	1415	Birnur, Fatepur, Tumkur
				IIIes-2	346	Gonpad, Kurvihal, Hembral
				IIIes-3	1492	Wadagera
Fairly good land. Suitable for occasional or limited cultivation	IV	596	4.8	IVes-1	22	Fatepur
				IVes-2	130	Gonpad, Hembral, Kurvihal
				IVes-3	436	Tatikol
				IVs-1	08	Tatikol
Very well suited for grazing. Non arable land	V	1020	8.2	Vs-1	368	Venkatapur, Undroldoddi
				Ves-1	207	Venkatapur, Undroldoddi
				Ves-2	445	Venkatapur, Undroldoddi
Well suited for grazing or forestry. Non arable	VI	295	2.4	VIs-1	295	Kambalapalli
Fairly well suited for grazing or forestation. Non arable.	VII	531	4.2	VIIes-1	531	Chennampalli
<b>Total</b>		<b>11983</b>	<b>96.1</b>			
Misc.		<b>488</b>	<b>3.9</b>			

