

Report on Detailed soil survey and land use of Ag2j, Ag2q and Ag2u subwatersheds of Nagarjunasagar catchment, Raichur taluk, Raichur district, Karnataka

ABSTRACT

01. Survey area : Ag2j, Ag2q and Ag2u subwatersheds of Nagarjunasagar catchment, 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) : 13,709 ha

Sr. No.	Subwatershed Code	Net area (ha)	Misc. area (ha)	Total area (ha)
01	Ag2j	6436	751	7187
02	Ag2q	2842	295	3137
03	Ag2u	2936	449	3385
	Total	12214	1495	13709

06. Period of survey : December, 2001 to June, 2002

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

Sr. No.	Soil Series	Area under different subwatersheds			Total	Percentage
		Ag2j	Ag2q	Ag2u		
01	Appandoddi	1108	-	-	1108	8.1
02	Dongarampuram	560	32	5	597	4.4
03	Fatepur	-	157	14	171	1.3
04	Gonpad	-	645	380	1025	7.5
05	Halvenkatapur	-	1866	2471	4337	31.7
06	Kurvihal	849	19	-	868	6.3
07	Murharpur	-	123	66	189	1.4
08	Raldoddi	377	-	-	377	2.7
09	Vaddepalli	804	-	-	804	5.9
10	Yeragunta	2738	-	-	2738	20.0
	Total	6436	2842	2936	12214	89.1
	Misc. Area	751	295	449	1495	10.9
	Grand Total	7187	3137	3385	13709	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	8351	60.9	II-1	1052	Raldoddi, Vaddepalli and Yeragunta
				Iie-1	1863	Yeragunta
				IIs-1	695	Kurvihal
				Iies-1	4741	Gonpad, Halvenkatapur, Kurrihal
Moderately good cultivated lands	III	1949	14.3	IIIe-1	699	Yeragunta
				IIIes-1	646	Gonpad, Halvenkatapur
				IIIes-2	7	Fatepur
Fairly good lands suitable for limited cultivation	IV	1725	12.5	IVe-1	305	Raldoddi, Vaddepalli
				IVes-1	148	Gonpad, Halvenkatapur, Kurvihal
				IVes-2	199	Appandoddi
				IVes-3	909	Appandoddi
				IVes-4	164	Fatepur
				IVes-5	320	Dongarampuram
				IVes-6	277	Dongarampuram
Very well suited for grazing, Not arable	V	189	1.4	Ves-1	189	Murharpur
	Total	12214	89.1			
	Misc. Area	1495	10.9			
	Grand Total	13709	100.0			

09. Salient features

- Deep to very deep soils cover 84.6% of the total area of 10338 ha
- 9661 ha (79.1%) area suffers from moderate erosion and 806 ha (6.5%) from severe erosion
- 10467 ha (85.7%) area is under very gentle to gentle (1-5%) slope
- 1108 ha (%) area has shallow soils
- 8351 ha (60.9%) area is covered by good cultivable lands (Land capability class II)
- Moderately good cultivable lands (Land capability class III) cover 1949 ha (14.3%) area
- Sodic soils (Murharpur series) cover 189 ha (1.4%) area