

Report on Detailed Soil Survey and Land Use of Ag6h, Ag6j, Ag6k and Ag6t subwatersheds of Nagarjunasagar catchment, Lingsugur taluk, Raichur district, Karnataka

ABSTRACT

01. Survey area : Ag6h, Ag6j, Ag6k and Ag6t subwatersheds
02. Type of survey : Detailed soil survey
03. Type of base map : Cadastral map (1:7,920 scale)
04. No. of villages covered : 25
05. Total area surveyed (ha) : 16,657

Sr. No.	Subwatershed Code	Net area (ha)	Misc. area (ha)	Total area (ha)
01	Ag6h	3730	113	3843
02	Ag6j	5178	196	5374
03	Ag6k	3946	158	4104
04	Ag6t	3096	240	3336
	Total	15950	707	16657

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

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

Soil series	Ag6h	Ag6j	Ag6k	Ag6t	Total	Percentage
Devarkonda	296	-	-	61	357	2.1
Fatepur	338	614	366	469	1787	10.7
Gabbur	1593	2096	2281	1420	7390	44.4
Hembral	1422	1621	1127	749	4919	29.5
Medanapur	56	847	172	116	1191	7.2
Perwel	-	-	-	45	45	0.3
Tatikol	25	-	-	236	261	1.6
Total	3730	5178	3946	3096	15950	95.8
Misc.	113	196	158	240	707	4.2
Grand total	3843	5374	4104	3336	16657	100

08. Potential for agricultural development and land capability classification

Description	Land capability class	Area (ha)	Per Centage	Land Capability unit	Area (ha)	Soil series
Good cultivated land	II	11873	71.3	II-1	45	Perwel
				IIes-1	11828	Gabbur, Hembral
Moderately good cultivated lands	III	2000	12.0	IIIes-1	1038	Devarkonda, Fatepur
				IIIes-2	548	Devarkonda, Fatepur
				IIIes-3	414	Gabbur, Hembral
Fairly good lands suitable for limited cultivation	IV	2077	12.5	IVes-1	864	Medanapur
				IVes-2	206	-do-
				IVes-3	145	Tatikol
				IVes-4	67	Gabbur,
				IVes-5	237	Tatikol
				IVes-6	558	Fatepur
Total		15950			15950	
Misc.		707	4.2		707	
Grand total		16657	100		16657	

09. Salient features

- 4964 ha (29.8%) area is under very deep soils
- 7390 ha (44.4%) area is under deep soils
- 15,043 ha (90.3%) area suffer from moderate erosion and 862 ha (5.2%) from severe erosion
- 13290 ha (83.6%) area is under very gentle slope (1-3%)
- 2030 ha (12.2%) area is under gentle slope
- The area covered by good cultivable lands (capability class II) is 11,873 ha (71.3% of total area)
- The moderately good cultivable lands (land capability class III) cover 2000 ha (12.0%) area.