

Report on detailed soil survey and landuse
of Nf2f, Nf2g and Nh2c subwatersheds of
Nizamsagar Catchment,
Narayankhed, Sangareddy & Zahirabad taluks,
Medak District, Andhra Pradesh

A B S T R A C T

1. Survey Area : Nf2f, Nf2g and Nh2c subwatersheds, Nizam sagar catchment, Narayankhed, Sangareddy and Zahirabad taluks, Medak district Andhra Pradesh
2. Type of survey : Detailed soil survey
3. Base map : Cadastral map
4. Scale of base map : 8" - 1 mile
5. Total area : 13,998 ha
6. Period of survey : December 95 to April 96
7. Soil series and their extent

Name of soil series	Nf2f	Nf2g	Nh2c	Total
Adkolapalli (AP)	-	12 (0.2)	583 (15.0)	595 (4.5)
Antaram (A)	94 (2.5)	186 (3.4)		280 (2.10)
Ananthasagar (AS)	222 (5.9)	226 (4.1)		448 (3.5)
Budsatpalli(B)	1166 (31.2)	429 (7.8)		1595 (12.2) ✓
Chelmamdi (CM)		44 (0.8)		44 (0.3)
Chilkapalli (CP)	172 (4.6)	446 (8.1)	(4.7)	618 (4.7)
Chintalghat (C)	61 (1.6)	89 (1.6)		150 (1.1)
Digwal (D)	81 (2.2)	71 (1.3)		152 (1.2)
Dour (DR)			281 (7.3)	281 (2.1)
Islampur (I)	472 (12.6)	502 (9.2)	100 (2.6)	1074 (8.2) ✓
Jirlapalli (J)	8 (0.2)	888 (16.2)	2397 (61.8)	3293 (25.1) ✓
Kamkal (K)	865 (23.1)	876 (16.0)		1741 (13.3.) ✓

Kavelli (KV)	64 (1.7)	81 (1.5)		145 (1.1)
Kattur (KT)	62 (1.7)	489 (8.9)		551 (4.2)
Lingampalli (L)	271 (7.3)	868 (15.8)		1139 (8.7) ✓
Manur (MR)		128 (2.3)	296 (7.6)	424 (3.2)
Melasangam (M)	47 (1.3)	13 (0.2)		60 (0.5)
Venkatapuram (V)	155 (4.1)	101 (1.8)		256 (2.0)
Yelgni (Y)		42 (0.8)	221 (5.7)	263 (2.0)
Total	3740	5491	3878	13109
Misc.	207	215	467	889
Grand total	3947	5706	4345	13998

8. Potential for agricultural development and capability classification

Description	Land cap.	Area (ha)	Land cap. unit	Area (ha)	Soil Series covered
Good cultivated land	II	5709	IIsl	34	Ananthasagar, Jirlapalli, Kattur
			IIes1	5302	Antaram, Ananthasagar, Chilmamdi, Chilkapalli, Jirlapalli, Kattur
			IIes2	373	Digwal, Venkatapuram
Moderately good cultivated land	III	1841	IIIsl	7	Lingampalli
			IIIes1	93	Antaram, Jirlapalli, Yelgui
			IIIes2	35	Venkatapuram
			IIIes3	1237	Chintalghat, Lingampalli, Manur
			IIIes4	469	Chintalghat, Lingampalli, Manur

Fairly good lands suitable for limited cultivation	IV	5309	IVes1	68	Jirlapalli
			IVes2	2098	Adkolapalli Budsatpalli Islampur Kamkal
			IVes3	573	Adkolapalli Islampur Kamkal
			IVes4	1000	Adkolapalli Budsatpalli Islampur Kamkal
			IVes5	22	Budsatpalli Islampur
			IVes6	1188	Adk olapalli Dour Islampur Kamkal
			IVes7	360	Adkolapalli Dour Islampur Kamkal
Well suited for grazing	VI	45	VIes1	45	Dour Kavelli
Fairly well suited for grazing & forestry	VII	205	VIIes1	205	Kavelli Melasangam
		13109		13109	

Salient features and specific problems

*Out of the total area of 13998 ha an area of 7618 ha is suitable for agriculture.

*Nearly 12357 ha suffers from moderate erosion where an area of 711 ha is under severe erosion. Both require appropriate soil conservation measures.

*Very shallow to shallow soils cover an area of 5941 ha and are recommended for pasture and forest development programme

*Nineteen soil series have been identified out of these seven soil series namely **Adk**olapalli, Budsatpalli, Chilka-palli, Islampur, Jirlapalli, Kamkal and Kottur are relatively extensive.

*Forest area cover 205 ha and is mainly occupied by Kavelli and **Mel**asangam soil series.