

**Report on the detailed soil survey and landuse of
Aclc, Aclc, Aclf, Aclm and Aclq subwatersheds of
Nagarjunasagar Catchment, Devarkonda taluk,
Nalgonda district, Andhra Pradesh**

A B S T R A C T

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| 1. Survey area | Nagarjunasagar Catchment
Devarkonda taluk, Nalgonda district
Andhra Pradesh
Aclc, Aclc, Aclf, Aclm and Aclq
subwatersheds of Ac subcatchment |
| 2. Type of survey | Detailed soil survey |
| 3. Period of survey | January, 1992 to April, 1992 |
| 4. Total area | 15,634 ha |
| 5. Subwatershedwise area | |

Subwater- shed code	Net area (ha)	Misc. area (ha)	Total area (ha)
Aclc	1548	363	1911
Aclc	3287	616	3903
Aclf	4693	68	4761
Aclm	2167	147	2314
Aclq	2395	350	2745
Total	14090	1544	15634

6. Soil series and their extent

Soil Series & symbols	Area under different subwatersheds					Total
	Aclc	Aclc	Aclf	Aclm	Aclq	
Chennampalli (C)	611 (39.5)	2034 (61.9)	1353 (28.8)	608 (28.1)	794 (33.2)	5400 (38.2)
Devarkonda (DK)	-	-	167 (3.6)	30 (1.4)	-	197 (1.4)
Kambalapalli (KB)	124 (8.0)	207 (6.3)	993 (21.2)	75 (3.5)	440 (18.4)	1839 (13.1)
Lambapur (L)	-	387 (11.8)	603 (12.8)	573 (26.4)	-	1563 (11.1)
Patancheru (PT)	813 (52.5)	598 (18.2)	1382 (29.4)	672 (31.0)	-	3465 (24.6)
Perwel (PR)	-	13 (0.4)	192 (4.1)	46 (2.1)	252 (10.5)	503 (3.6)
Pratapnagar (PN)	-	46 (1.4)	3 (0.1)	16 (0.7)	36 (1.4)	101 (0.7)

Tatikol (T)	-	-	-	66 (3.0)	363 (15.2)	420 (3.)
Telugupalli (TP)	-	2 (0.1)	-	81 (3.7)	510 (21.3)	593 (4.2)
Net area	1548	3287	4693	2167	2395	14090
Misc. area	363	616	68	147	350	1544
Grand Total	1911	3903	4761	2314	2745	15634

7. Land capability classification

Description	Land capa bility	Area (ha)	Land cap. unit	Area (ha)	Soil series covered
Good cultivable land	II	4199 (29.8)	IIs1	83	Telugupalli
			IIs2	457	Perwel
				116	Telugupalli
			IIs3	15	Perwel
				452	Telugupalli
			IIs1	1182	Lambapur
	31	Perwel			
				1863	Patancheru
Moderately good cultivable land	III	1544 (11.0)	IIIes1	197	Devarkonda
			IIIes2	323	Lambapur
				1024	Patancheru
Fairly good suitable for occassional or limited cultivation	IV	1882 (13.4)	IVes1	875	Kambalapalli
				429	Tatikol
			IVes2	578	Patancheru
Well suited for grazing and/or forestry	VI	964 (6.8)	VIes1	964	Kambalapalli
Hills & steep slopes forest land	VII	5501 (39.0)	VIIes1	5400	Chennampalli
				101	Pratapnagar
		14090			

8. Salient features and specific problems

- Nine soil series have been identified and mapped
- Most of the soils are gravelly in nature except Patancheru, Perwel and Telugupalli soils
- Out of total area of 14090 ha an area 7769 ha (55.1%) is occupied by shallow soils, 4058 ha (28.8%) area is under deep and 2066 ha (14.7%) area is covered by very deep.
- About 7043 ha (50%) is suffered from severe erosion, 42% (5924 ha) is effected by moderate erosion and 1123 ha (8%) area belongs to non to slight erosion.
- 5501 ha (39%) is covered by forest area.