

**REPORT ON DETAILED SOIL SURVEY AND LANDUSE OF
Aa7k, Aa7m, Aa7n, Aa7p and Aa7q SUBWATERSHEDS OF
NAGARJUNASAGAR CATCHMENT, NANDIKOTKUR TALUK, KURNOOL DISTRICT
ANDHRA PRADESH**

ABSTRACT

1. Survey area : Nagarjunasagar catchment, Nandikotkur taluk, Kurnool district, Andhra Pradesh Aa7k, Aa7m, Aa7n, Aa7p and Aa7q subwatersheds
2. Type of survey : Detailed soil survey
3. Total area : 21,369 ha

Subwatersheds	Net area	Misc area	Total area
Aa7k	3427	3	3430
Aa7m	6330	194	6524
Aa7n	3274	848	4122
Aa7p	3139	69	3208
Aa7q	4085	-	4085
Total	20255	1114	21369

4. Period of survey : December, 1988 to July, 1989

5. Soil series and their extent

Name of soil series (Symbol)	Area under different subwatersheds					Total
	Aa7k	Aa7m	Aa7n	Aa7p	Aa7q	
Bhanumukkala (BM)	659 (19.21)	1187 (18.19)	-	877 (27.34)	1998 (48.91)	4721 (22.09)
Kadmuru (K)	996 (29.04)	3453 (1.13)	1894 (45.95)	1836 (57.23)	1086 (26.58)	9265 (43.36)
Kyatur (KY)	27 (0.79)	74 (1.13)	42 (1.02)	-	-	143 (0.67)
Mittakandala (MK)	1585 (46.21)	1146 (17.57)	-	165 (5.14)	794 (19.44)	3690 (17.27)
Nagaluti (N)	160 (4.66)	470 (7.20)	1338 (32.46)	261 (8.14)	207 (5.07)	2436 (11.40)
Total	3427 (99.9)	6330 (97.03)	3274 (79.43)	3139 (97.85)	4085 (100)	20255 (94.79)
Misc. lands	3 (0.09)	194 (2.97)	848 (20.57)	69 (2.15)	-	1114 (5.21)
Grand total	3430	6524	4122	3208	4085	21369

6. Potential for agricultural land capability classification

Description	Land cap class	Area (ha)	Land cap. unit	Area (ha)	Soil series covered
Good cultivated land	II	16877 (83.32)	IIs-1	1892	Kadmuru, Nagaluti
			IIs-2	2341	Kadmuru, Nagaluti
			IIs-3	1174	Bhanumukkala
			IIs-4	859	Bhanumukkala, Mittakandala
			IIes-1	5071	Kadmuru, Nagaluti
			IIes-2	62	Kadmuru
			IIes-3	5478	Bhanumukkala, Mittakandala
Moderately good cultivated land	III	3015 (14.89)	IIIes-1	2335	Kadmuru, Nagaluti
			IIIes-2	242	Bhanumukkala
			IIIes-3	438	Mittakandala
Fairly good land for occasional or limited cultivation	IV	363 (1.79)	IVes-1	115	Kyatur
			IVes-2	28	Kyatur
			IVes-3	220	Mittakandala
Total		20255			

7. Salient features and specific problems

- # Five soil series have been identified and mapped
- # The soil are unvariably gravelly except Kadmuru and Nagaluti
- # An area of 11164 ha (55.12%) suffer from moderate erosion and 2825 ha (13.95) suffers from severe erosion hazards.
- # Very deep, Bhanumukkala, Kadmuru and deep Nagaluti, Mittakandala covering an area of 20112 ha (99.29%) needs introduction of important farming system
- # Integrated soil conservation is must to the conserve moisture and to control the erosion
- # Rain water storage at suitable sites is required to give limited irrigation to rainfed crops of the area.