

REPORT ON DETAILED SOIL SURVEY AND LANDUSE OF
Ad5j, Ad5m, Ad8h, Ad9d AND Ad9u SUBWATERSHEDS OF
NAGARJUNASAGAR CATCHMENT
ACHAMPET, KOLHAPUR, NAGAR KARNOOL & WARNAPARTHY TALUKS,
MAHABUBNAGAR DISTRICT, ANDHRA PRADESH

A B S T R A C T

1. Survey area : Nagarjunasagar catchment,
Achampet, Kolhapur, Nagar Karnool and Warnaparthi taluks
Mahabubnagar district, Andhra Pradesh
Ad5j, Ad5m, Ad8h, Ad9d and Ad9u subwatersheds
2. Type of survey : Detailed soil survey
3. Total area : 13,433 ha

Subwatershed	Net area	Misc. area	Total area
Ad5j	2589	145	2734
Ad5m	2393	300	2693
Ad8h	1328	113	1441
Ad9d	1683	243	1926
Ad9u	3465	1174	4639
Total	11458	1975	13433

4. Period of survey : January 1993 to May, 1993

5. Soil series and their extent

Name of soil series	Ad5j	Ad5m	Ad8h	Ad8d	Ad9u	Total
Bekkam (BK)	-	32 (1.3)	30 (2.3)	251 (15.2)	-	313 (2.7)
Chikkepalli (CP)	-	-	73 (5.4)	-	-	73 (0.6)
Denda (D)	-	-	-	476 (28.7)	95 (2.7)	571 (5.0)
Dharur (DH)	-	8 (0.3)	14 (1.4)	-	-	22 (0.2)
Devarkonda (DK)	-	102 (4.3)	16 (1.2)	-	397 (11.5)	515 (4.5)
Gabbur (G)	-	-	-	-	989 (28.5)	989 (8.6)
Hembral (H)	-	-	-	-	368 (10.6)	368 (3.2)
Lambapur (L)	43 (1.7)	-	-	60 (3.6)	-	103 (0.9)
Mailaram (ML)	-	-	103 (7.6)	-	-	103 (0.9)
Pebberu (PB)	-	-	9 (0.6)	49 (3.0)	83 (2.4)	141 (1.2)
Perwel (PR)	-	-	28 (2.0)	8 (0.4)	922 (26.6)	958 (8.4)
Miyapur (MP)	228 (8.8)	168 (7.0)	69 (5.2)	553 (33.3)	-	1018 (8.9)

Patancheru (PT)	-	-	-	25 (1.6)	351 (10.1)	376 (3.3)
Satapur (SP)	43 (1.7)	-	-	-	-	43 (0.4)
Tatikol (T)	2251 (86.9)	1977 (82.6)	986 (72.9)	227 (13.6)	217 (6.3)	5658 (49.4)
Timmapur (TM)	-	-	-	10 (0.6)	43 (1.2)	53 (0.5)
Yellagonda (YG)	24 (0.9)	106 (4.5)	-	24 (1.4)	-	154 (1.3)
Total	2589	2393	1328	1683	3465	11458
Misc.	145	300	113	243	1174	1975
Grand total	2734	2693	1441	1926	4639	13433

6. Potential for agricultural development land capability classification

Description	Land cap.	Area (ha)	Land cap. unit	Area (ha)	Soil series covered
Good cultivated land	II	3008	IIs1	146	Gabbur
			IIs2	1296	Bekkam, Chikkepalli Patancheru, Yellagonda Pebberu, Perwel
			IIs3	332	Gabbur, Hembral
			IIes1	689	Gabbur, hembral
			IIes2	545	Bekkam, Lambapur, Perwel Patancheru
			Moderately good cultivated	III	2096
			IIIes1	190	Gabbur
			IIIes2	1294	Devarkonda, Miyapur, Satapur
			IIIes3	231	Devarkonda, Miyapur, Satapur
			IIIes4	277	Bekkam, Lambapur, Patancheru
			IIIes5	22	Timmapur
Fairly good land suitable or limited cultivation	IV	5551	IIIes6	61	Timmapur, Miyapur
			IVs1	17	Tatikol
			IVes1	1391	Denda, Tatikol, Devarkonda
			IVes2	420	Tatikol
			IVes3	2220	Denda, Tatikol, Mailaram
Well suited for grazing	VI	803	IVes4	1503	Denda, Dharur, Mailram Tatikol
			VIs1	803	Mailaram, Tatikol
		<u>11458</u>		<u>11458</u>	

7. Salient features and specific problems

Most of the soils are gravelly in nature except Bekkam² Chikkapalli Gabbur, Hembral, Patancheru, Pebberu, Perwel and Yellagonda series.

Out of the total area of 13,433 ha an area of 7937 ha is occupied by coarse and gravelly coarse textured soils.