

REPORT ON DETAILED SOIL SURVEY & LANDUSE OF Aglv, Aglx, Aglz & Ag2a
SUBWATERSHEDS OF NAGARJUNASAGAR CACHMENT, TALUK GADWAL,
DISTRICT MAHBUBNAGAR, ANDHRA PRADESH AND TALUK RAICHUR,
DISTRICT RAICHUR, KARNATAKA

A B S T R A C T

1. Survey area : Aglv, Aglx, Aglz and Ag2a subwatersheds
Nagarjunasagar Catchment
Taluk Gadwal, Mahbubnagar district,
Andhra Pradesh; Taluk and district
Raichur, Karnataka
2. Type of survey : Detailed Soil Survey
3. Period of survey : January to June, 1993
4. Soil series and their extent : Total area : **15,525 ha**

Soil series name	Area under different subwatersheds and their extent (ha)				Total area
	Aglv	Aglx	Aglz	Ag2a	
Apral (AP)	35 (0.7)	67 (2.5)	-	-	102 (0.8)
Dyagadoddi (DD)	56 (1.1)	96 (3.5)	6 (0.2)	54 (1.8)	212 (1.6)
Devarkonda (DK)	2469 (47.8)	1329 (48.7)	1249 (48.5)	946 (32.4)	5993 (44.8)
Gabbur (G)	12 (0.2)	62 (2.3)	252 (9.8)	-	326 (2.4)
Palcharla (P)	-	24 (9.0)	-	-	24 (0.2)
Peddachintarevula (PC)	194 (3.8)	83 (3.1)	178 (6.9)	318 (10.9)	773 (5.8)
Perwel (PR)	171 (3.3)	80 (2.9)	515 (20.0)	561 (19.2)	1327 (9.9)
Tatikol (T)	1386 (26.8)	203 (7.4)	8 (0.3)	470 (16.1)	2067 (15.4)
Timmapur (TM)	49 (0.9)	92 (3.4)	-	101 (3.5)	242 (1.8)
Telugupalli (TP)	793 (15.4)	691 (25.3)	365 (14.3)	469 (16.1)	2318 (17.3)
Net total	5165	2727	2573	2919	13384
Misc.	506	514	817	304	2141
Grand total	5671	3241	3390	3223	15525

5. Potential for agricultural development, land capability classification

Descrip- tion	Land capa bili ty	Area (ha)	Land cap unit	Area (ha)	Soil series covered
Good culti- vable land	II	4744 (35.4)	IIs1	174(1.3)	Gabbur
			IIs2	624(4.7)	Peddachintarevula
			IIs3	340(2.5)	Perwal, Telugupalli
			IIs4	2493(18.6)	Perwal, Telugupalli
			IIs5	113(0.8)	Perwal
			IIIses1	524(3.9)	Gabbur, Perwal
			IIIses2	149(1.1)	Peddachintarevula
			IIIses3	327(2.6)	Telugupalli
Moderate ly good cultiva ble	III	6201 (46.3)	IIIIs1	889(6.6)	Devarkonda
			IIIIs2	2048(15.3)	Devarkonda
			IIIIs3	38(0.3)	Timmapur
			IIIIses1	629(4.7)	Apral, Devarkonda
			IIIIses2	2376(17.5)	Devarkonda
			IIIIses3	58(0.4)	Devarkonda
			IIIIses4	79(0.6)	Timmapur
IIIIses5	84(0.6)	Timmapur			
Fairly good cul- tivable land	IV	2275 (17.0)	IVes1	1346(10.0)	Dyagadoddi, Tatikol
			IVes2	209(1.6)	Tatikol, Dyagadoddi
			IVes3	560(4.3)	Tatikol
			IVes4	24(0.3)	Palcherla
			IVes5	95(0.7)	Devarkonda
			IVes6	41(0.3)	Timmapur
Suitable for pasture	VI	164 (1.3)	VIes1	164(1.3)	Dyagadoddi, Tatikol
		13384	13384		

6. Salient features and specific problems

- * Ten soil series have been identified and mapped with an area 13384 ha.
- * About 17.2% area is under shallow soils. These soils are suitable for pasture development afforestation or other non agricultural activities.
- * About 47.3% of area is under moderately deep soils. These are suitable for rainfed cultivation.
- * Nearly 35.5% area is under deep to very deep soils and is suitable for multi crop utilisation with improved agricultural practices.
- * About 94.1% area occurs on very gentle to gentle slopes (1-5%) and require the soil and water conservation.
- * Nearly 6.4% area suffers from severe erosion hazards. The appropriate soil and water conservation measures needs to be taken on priority.