

**Report on Detailed Soil Survey and Land Use of
Veghavathi Watershed (4F1C3),
Badangi Mandal, Bobbili Taluk,
Vizianagaram District,
Andhra Pradesh**

ABSTRACT

01. Survey area : Veghavathi Watershed,
Badangi Mandal, Bobbili Taluk
Vizianagaram District,
Andhra Pradesh
02. Type of survey : Detailed soil survey
03. Type of base map : Cadastral map (1:7,920 scale)
04. No. of villages covered : 20
05. Total area surveyed : 9,319 ha

(Area in ha)

Sr. No.	Watershed Code	Net area	Misc. area	Total area
01	Veghavathi	8290	1029	9319

06. Agro climatic Zone : Southern hill and plateau region
07. Period of survey : May 2004 to June, 2004

08. Soil series identified in Veghavathi Watershed

	Soil series	Total area (ha)	Percentage
01	Badangi (B)	1534	16.5
02	Golladi (G)	364	3.9
03	Kamannavalasa (K)	415	4.5
04	Muguda (M)	3735	40.0
05	Palteru (PL)	1386	14.9
06	Pudivalasa (P)	465	5.0
07	Rajeru (R)	159	1.7
08	Vadada (V)	101	1.1
09	Venkayyapeta (VK)	131	1.4
	Total	8290	89.0
	Misc.	1029	11.0
	Grand Total	9319	100.0

09. Suggestive Land Use based on land capability classification

Land use	Land capability class	Area (ha)	Percent age (%)	Land capability unit	Area (ha)	Soil series
Good cultivated land	II	7362	79.0	II-1	06	Rajeru
				IIe-1	153	Rajeru
				IIs-1	859	Badangi Golladi Pudivalasa
				IIs-2	4978	Muguda Palteru
Moderately good cultivated lands	III	721	7.8	IIs-1	145	Kamannavalasa
				IIes-1	278	Badangi Pudivalasa
				IIes-2	220	Kamannavalasa Vadada
Fairly good lands suitable for limited cultivation	IV	76	0.8	IIes-3	78	Kamannavalasa
				IVes-1	03	Muguda
				Ives-2	73	Vadada
Fairly suitable for grazing or afforestation	VII	131	1.4	VIIes-1	131	Venkayyapeta
Total		8290	89.0			
Misc		1029	11.0			
Grand Total		9319	100.0			

10. Salient features

Nearly 131 ha (1.4%) of land is under shallow and 516 ha (5.5%) under moderately deep soils.

Deep and very deep soils covers an area of 7643 ha (82.1%) out of which deep soils cover an area of 988 ha (10.6%) and very deep soils cover an area of 6655 ha (71.5%) of the total survey area respectively.

About 207 ha (2.2%) of land subject to severe erosion which need adequate soil conservation measures.