

REPORT ON DETAILED SOIL SURVEY AND LAND USE OF Ah5c1, Ah5c2, Ah5c4, Ah5c6, Ah5f1, Ah5f2 AND Ah5f3 SUBWATERSHED OF BHIMA SUBCATCHMENT, NAGARJUNSAGAR RVP CATCHMENT, AFZALPUR, ALAND AND GULBARGA TALUKS, GULBARGA DISTRICT, KARNATAKA.

ABSTRACT

1. Survey area : Ah5c1, Ah5c3, Ah5c4, Ah5c6, Ah5f1, Ah5f2 & Ah5f3 subwatersheds of Nagarjunsagar RVP catchment, Afzalpur, Aland and Gulbarga taluks, Gulbarga district, Karnataka.
2. Total area mapped & reported : 14,287 hectares
3. Kind of survey : Detailed Soil Survey
4. Period of survey : November 1992 to June 1993
5. Agro-climatic zone : 14 - Southern Bimodal rainfall zone.
6. Soil series and their extent under each subwatershed:

Sl. No.	Name of the soil series	Subwatershedwise area in hect.						Total area in hect.	Percentage %	
		Ah5c1	Ah5c3	Ah5c4	Ah5c6	Ah5f1	Ah5f2			Ah5f3
1.	Basantpur	-	153	-	-	-	-	-	153	1.1
2.	Bhima	104	169	81	101	163	139	186	943	6.6
3.	Borale	222	440	430	972	417	478	836	3795	26.6
4.	Chimkod	171	206	129	45	224	-	44	819	5.7
5.	Gadgi	283	-	317	215	126	139	244	1324	9.3
6.	Gaudgaon	-	28	363	19	-	330	467	1207	8.4
7.	Kandgola	55	572	705	-	429	678	80	2519	17.6
8.	Kumbhare	216	-	-	-	171	-	-	387	2.7
9.	Madra	-	353	597	85	49	401	46	1531	10.7
10.	Sirur	-	94	212	68	57	214	316	961	6.7
11.	Talsangi	90	-	-	21	-	18	-	129	0.9
12.	Wadagaon	-	-	7	-	47	-	-	54	0.4
Sub Total		1141	2015	2841	1526	1683	2397	2219	13822	96.7
Misc.		41	74	79	45	77	55	94	465	3.3
Grand Total		1182	2089	2920	1571	1760	2452	2313	14287	
Percentage		8.3	14.6	20.4	11.0	12.3	17.2	16.2	100.0	100.0

7. Area under different land capability classes:

Sl. No.	Land capability unit	Area (ha.)	Percentage	Soil series
1.	II	1446	10.1	Basantpur, Borale, Chimkod, Kumbhare, Madra
2.	III	7122	50.3	Borale, Chimkod, Gadgi, Gaudgaon Kandgola, Kumbhare, Madra
3.	IV	4364	30.5	Chimkod, Gadgi, Gaudgaon, Kandgola, Kumbhare, Madra, Sirur, Talsangi
4.	VI	890	5.8	Gaudgaon, Sirur, Talsangi, Wadgaon
	Misc.	465	3.3	
Total		14287	100.0	

Miscellaneous lands include the area under Villagesites, Nalas, Roads, Tanks, Reservoirs etc.

8. Salient features:

- a) The surveyed area covers an area of 14,287 hectares comprising 25 villages under Afzalpur, Aland and Gulbarga taluks of Gulbarga district, Karnataka.
- b) Borale, Kandgola and Madra series are extensive and cover 54.9% of the total area.
- c) Very deep soils cover an area of 4891 hectares, out of which severe erosion affects 2531 hectares.
- d) Moderately deep and deep soils affected by severe erosion cover 1300 hectares and 173 hectares area respectively.
- e) About 91% of the area is covered under very gentle and gentle slope (1-5%).
- f) Area affected by moderate and severe erosion is 9665 hectares and 4157 hectares respectively. Such areas need immediate soil conservation measures.
- g) Irrigability land class 2 and 3 cover 1446 hectares (10.5%) and 9842 hectares (71.2%) area respectively.