

REPORT ON DETAILED SOIL SURVEY AND LAND USE OF Ah5b1, Ah5b2, Ah5b3, Ah5d1, Ah5d2 AND Ah5d3 SUBWATERSHEDS OF BHIMA SUBCATCHMENT OF NAGARJUNSAGAR RVP CATCHMENT, AFZALPUR TALUK, GULBARGA DISTRICT, KARNATAKA STATE.

ABSTRACT

1. Surveyed area : Ah5b1, Ah5b2, Ah5b3, Ah5d1, Ah5d2 and Ah5d3 subwatersheds of Bhima subcatchment of Nagarjunsagar catchment, Afzalpur taluk, Gulbarga district, Karnataka state.
2. Total area mapped & reported : 16,840 hectares
3. Kind of survey : Detailed Soil Survey
4. Period of survey : March 1993 to July 1993.
5. Agro-climatic zone : Semiarid tropical
6. Soil series mapped and total subwatershedwise area under each series:

Sl. No.	Name of the soil series	Subwatershedwise area in hect.					Total area in hectares	Percentage (%)	
		Ah5b1	Ah5b2	Ah5b3	Ah5d1	Ah5d2			Ah5d3
1.	Bhima	192	-	572	107	98	77	1046	6.21
2.	Borale	407	1036	773	540	610	572	3938	23.39
3.	Chimkod	413	-	18	44	-	64	539	3.20
4.	Gaudgaon	-	251	24	-	-	292	567	3.36
5.	Gadgi	210	952	601	255	554	240	2812	16.70
6.	Kandgola	704	-	161	559	138	375	1937	11.51
7.	Kumbhare	224	1081	602	343	672	226	3148	18.69
8.	Madra	-	-	-	-	112	82	194	1.15
9.	Mainal	-	-	55	-	45	-	100	0.60
10.	Sirur	-	-	-	-	163	115	278	1.65
11.	Talsangi	28	94	191	-	43	-	356	2.12
12.	Wadagaon	107	257	683	218	205	4	1474	8.75
	Miscellaneous	48	92	91	62	94	64	451	2.67
	Total	2333	3763	3771	2128	2734	2111	16840	
	Percentage	13.85	22.35	22.40	12.63	16.23	12.54		100.0%

7. Area under different land capability classes:

Sl. No.	Land capability units	Area in hect.	Percentage	Name of the soil series
1.	II	4001	23.76	Bhima, Borale, Chimkod and Kumbhare
2.	III	6239	37.04	Bhima, Borale, Chimkod, Kumbhare, Madra, Mainal, Gaudgaon, Gadgi & Kandgola
3.	IV	5254	31.21	Bhima, Borale, Gadgi, Kumbhare, Kandgola, Mainal, Sirur, Talsangi and Wadagaon
4.	VI	732	4.35	Sirur, Talsangi & Wadagaon
5.	VII	163	0.97	Sirur
Miscellaneous		451	2.67	
Total		16840	100.00 %	

Miscellaneous lands included the area of Road, River/Stream, Villagesite and Gullied land etc.

8. Salient features and specific problematic area:

The surveyed area covers an area of 16840 hectares comprising 23 villages under Afzalpur taluk of Gulbarga district.

Borale is the most extensive series covering 23.39% of the total surveyed area.

About 30% area covers by very deep soils.

About 97% of the total area is under moderately severe to severe erosion.

About 60% area is suitable for agriculture, where 31% is marginally suitable for agriculture.

The extent of more problematic area is 833 hectares.