

REPORT ON DETAILED SOIL SURVEY AND LAND USE OF Ah5b4, Ah5d4, Ah5d5, Ah5d5a and Ah5d5b SUBWATERSHEDS OF BHIMA SUBCATCHMENT OF NAGARJUNSAGAR CATCHMENT, ALAND, AFZALPUR AND GULBARGA TALUKS OF GULBARGA DISTRICT, KARNATAKA STATE

ABSTRACT

1. Surveyed area : Ah5b4, Ah5d4, Ah5d5, Ah5d5a, and Ah5d5b subwatersheds of Bhima Subcatchment of Nagarjunsagar catchment, Aland, Afzalpur and Gulbarga taluks of Gulbarga district, Karnataka State.
2. Total area mapped and reported : 13634 hectares
3. Kind of survey : Detailed soil survey
4. Period of survey : April 1993 to June 1993
5. Agro climatic zone : Semiarid tropical (N10)
6. Soil series mapped and total subwatershedwise area under each series

Sl. No.	Name of the soil series	Subwatershedwise area in (ha.)					Total
		Ah5b4	Ah5d4	Ah5d5	Ah5d5a	Ah5d5b	
1.	Borale	837	586	317	301	178	2219
2.	Chimkod	-	65	62	39	13	179
3.	Gadgi	492	425	613	175	86	1791
4.	Goudgaon	1283	459	500	-	19	2261
5.	Kandgola	496	43	29	180	179	927
6.	Kumbhare	89	342	199	45	29	704
7.	Madra	467	-	-	-	-	467
8.	Sirur	347	-	-	107	-	454
9.	Talsangi	25	248	66	107	78	524
10.	Wadagaon	35	578	510	1554	1089	3766
11.	Misc.	73	32	59	103	75	342
Total		4144	2778	2355	2611	1746	13634

7. Area under different land capability classes

<u>Sl.No.</u>	<u>Land cap. class</u>	<u>Area (ha.)</u>	<u>Soil series</u>
1.	II	1768	Borale, Chimkod, Kumbhare, Madra
2.	III	5322	Borale, Chimkod, Gadgi, Goudgaon, Kandgola, Kumbhare and Madra
3.	IV	4887	Borale, Gadgi, Goudgaon, Kandgola, Kumbhare, Sirur, Talsangi, Wadgaon
4.	VI	1144	Sirur, Talsangi, Wadgaon
5.	VII	171	Sirur
6.	Misc.	342	
	Total	13634	

8. Salient features and specific problematic areas

- a) A total of ten (10) soil series are met in the surveyed area, out of which three series occur on gentle and moderate slopes possessing shallow soil depth.
- b) Very deep soils having moderate erosion are 11.6% of total area and cover 1586 hectares.
- c) An area of 633 hectares (4.7%) has very deep soils subjected to severe erosion.
- d) An area of 3881 hectares (28.5%) has moderately deep to deep soils which are moderately eroded .
- e) Area covered by shallow soils is 4744 hectares (34.8%)
- f) An area of 1315 hectares is found to be not conducive for agriculture but suitable for afforestation.