

**REPORT ON DETAILED SOIL SURVEY AND LAND USE OF Ah4a1 and Ah7a2
SUBWATERSHEDS OF BHIMA SUBCATCHMENT OF NAGARJUNSAGAR
CATCHMENT IN SEDAM AND JEWARGI TALUKS OF GULBARGA
DISTRICT, KARNATAKA STATE**

ABSTRACT

1. Surveyed area : Ah4a1 and Ah7a2 subwatersheds of Bhima Subcatchment of Gulbarga district, Karnataka State
2. Total area mapped and reported : 8,347 hectares
3. Kind of survey : Detailed soil survey
4. Period of survey : December 1998 to April 1999
5. No. of surveyed villages (part or full) : Nineteen
6. Base map used : Cadastral maps 8"=1 mile
7. Agro-climatic zone : X (The Southern Plateau & Hill Region)
8. Soil series mapped and subwatershed wise total area under each series

Sl. No.	Name of the soil series	Total area in hectares	Percentage	Ah4a1	Ah7a2
1	Bhima	149	1.8	-	149
2	Biranhalli	40	0.4	40	-
3	Borale	138	1.7	-	138
4	Chimkod	417	5.0	-	417
5	Gadgi	177	2.1	-	177
6	Hadanur	470	5.6	94	376
7	Kadargi	24	0.3	10	14
8	Kandgola	265	3.2	-	265
9	Kolkur	523	6.3	-	523
10	Malla	1133	13.6	249	884
11	Talsangi	83	1.0	-	83
12	Wadi	4567	54.7	3299	1268
	Sub-Total	7986	95.7	3692	4294
	Misc.	361	4.3	127	234
	Grand Total	8347		3819	4528
	Percentage		100.0	45.8	54.2

9. Area under different land capability classes:

Sl. No	Land capability class	Total area (ha.)	Percentage	Soil Series
1	II	5929	71.0	Bhima, Borale, Kolkur, Biranhalli, Chimkod, Malla, Wadi
2	III	1568	18.8	Bhima, Chimkod, Gadgi, Hadanur, Kandgola, Kolkur, Malla, Wadi
3	IV	489	5.9	Bhima, Biranhalli, Borale, Gadgi, Hadanur, Kandgola, Kadargi Kolkur, Malla, Talsangi, Wadi
4	Misc.	361	4.3	
	Grand total	8347	100	

Miscellaneous land included the area under village sites, streams, rivers, roads, tanks etc.

10. Salient features and specific problems of the area (in hectares)

- a. The surveyed area covers an area of 8347 hectares encompassing 19 villages under Jewargi and Sedam taluks of Gulbarga district, Karnataka.
- b. Twelve soil series are met in the surveyed area. Out of these only Wadi and Malla series is relatively extensive comprising 68.3% of total area.
- c. An area of 107 ha (1.3%) possesses very shallow and shallow soils (less than 25 cm depth) encountered on slopes ranging from 1 to 5%, limiting the scope of their management.
- d. An area of 376 hectares comprising 4.5% of the total area is subjected to severe erosion.