

REPORT ON DETAILED SOIL SURVEY AND LAND USE OF Ah5s1, Ah5sla, Ah5s3, Ah5s4, Ah5t1, Ah5t1b, Ah5t2 AND Ah5t3 SUBWATERSHEDS OF BHIMA SUBCATCHMENT OF NAGARJUNSAGAR CATCHMENT IN CHITAPUR AND GULBARGA TALUKS OF GULBARGA DISTRICT, KARNATAKA STATE.

i. ABSTRACT

- 1) Surveyed area : Ah5s1, Ah5sla, Ah5s3, Ah5s4, Ah5t1, Ah5t1b, Ah5t2 and Ah5t3 subwatersheds of Bhima subcatchment of Nagarjunsagar catchment in Chitapur and Gulbarga taluks, Gulbarga district, Karnataka state.
- 2) Total area mapped and reported : 24,729 hectares.
- 3) Kind of survey : Detailed soil survey.
- 4) Period of survey : April 1992 to July 1992.
- 5) Agroclimatic region : Southern plateau and Hills region.
- 6) Agroclimatic zone : North east dry zone.
- 7) Soil series mapped and their extent under each subwatershed(Fig. in hect.).

Sl. No.	Subwatersheds & their area								Total area.	%
	Ah5s1	Ah5sla	Ah5s3	Ah5s4	Ah5t1	Ah5t1b	Ah5t2	Ah5t3		
1. Bhima	-	-	-	-	133	-	153	169	455	1.8
2. Borale	322	247	499	478	-	1285	-	-	2831	11.5
3. Chimkod	293	26	-	-	-	-	-	-	319	1.3
4. Farhatabad	59	-	217	358	-	-	-	-	634	2.6
5. Gadgi	880	825	509	1249	-	329	-	-	3792	15.4
6. Gudihal	-	-	18	-	-	-	-	-	18	0.1
7. Hadnur	-	-	-	-	163	-	37	640	840	3.4
8. Hagargundi	92	-	-	-	-	-	-	-	92	0.3
9. Kandgola	71	842	21	-	-	-	-	-	934	3.8
10. Kumbhare	175	92	276	788	-	398	-	-	1279	7.0
11. Kuralgeri	-	-	232	-	1979	363	3506	2571	8651	34.8
12. Malla	-	-	61	-	358	11	86	462	978	4.0
13. Talsangi	177	295	515	383	-	67	-	-	1437	5.8
14. Wadagaon	-	952	-	-	-	-	-	-	952	3.9
15. Miscellaneous	155	50	67	118	181	68	202	226	1067	4.3
<b>Total</b>	<b>2224</b>	<b>3329</b>	<b>2415</b>	<b>3374</b>	<b>2814</b>	<b>2521</b>	<b>3984</b>	<b>4068</b>	<b>24729</b>	<b>100.0</b>

8) Area under different land capability classes.

Sl. No.	Land capability class	Area in hect.	Percentage %	Soil series
1.	II	7994	32.4	Bhima, Borale, Kumbhare, Kuralgeri, Malla, Chimkod.
2.	III	7897	31.8	Bhima, Borale, Gadgi, Hadnur, Kandgola, Kumbhare, Kuralgeri, Malla.
3.	IV	6923	28.0	Bhima, Borale, Farhatabad, Gadgi, Hadnur, Kumbhare, Kuralgeri, Malla, Talsangi, Wadagaon, Gudihal, Hagargundi.
4.	VI	841	3.4	Farhatabad, Talsangi, Wadagaon.
5.	VII	7	0.1	Farhatabad.
6.	Misc.	1067	4.3	
Total		24729	100.0 %	

Miscellaneous lands includes habitation, road, railway line, gullied land, stream/river, tanks etc.

9) Specific problematic areas.

Sl. No.	Specific problems	Ah5s1	Ah5sla	Ah5s3	Ah5s4	Ah5t1	Ah5t1b	Ah5t2	Ah5t3	Total
1.	Moderate erosion on slope above 3% on moderately deep, deep & very deep soils.	492	92	210	687	908	879	-	126	3394
2.	Rockiness	131	31	-	-	-	-	-	-	162
3.	Shallowness *	236	1227	744	730	-	67	-	-	3004
4.	Severe erosion. *	667	43	395	1452	866	858	1980	1080	7288
Total		1526	1393	1349	2869	1774	1804	1980	1206	13901

\* Note: The area of 815 hectares having more than one problem of severe erosion and shallow rooting depth.