

**Report on detailed soil survey and land use of Aj2g, Aj4c, Au3r and Au3q subwatersheds of Nagarjunsagar RVP catchment, Taluks Ramdurga and Gokak, Belgaum district and Taluk Hungund and Muddebihal, Bijapur district, Karnataka.**

**Abstract**

- 1 Surveyed Areas AJ2g, AJ4c, Au3r and Au3q sub-watersheds of Nagarjun-Sagar catchment of Ramdurga, Hungund, Muddebihal, Gokak Taluks of Belgaum and Bijapur district of Karnataka State.
- 2 Location 16° 3' to 16° 18' N latitude  
75° 7' to 75° 59' E longitude  
47 P/4,8,16, 56 D/3,4
- 3 Total area surveyed and reported 18827 hectares
- 4 Kind of survey Detailed Soil Survey
- 5 Period of survey November 1997 to March 1998
- 6 No. of surveyed villages (part or full) 33 (thirty three)
- 7 Base maps Cadastral map on 8"= 1 mile
- 8 Agro-climatic zone Southern plateau and hill region No.10
- 9 Soil series mapped and sub-watershed wise Extent (in hectares)

Sl.No.	Name of the Soil Series	Au3r	Au3q	Aj2g	Aj4c	Total Area	Percentage
1	BHIMA	299	145	68	421	933	4.9
2	BORALE	3207	12	----	----	3219	17.1 ✓
3	GADGI	600	----	----	----	600	3.2
4	HADANUR	-----	625	----	----	625	3.3
5	KUMBHARE	1220	10	----	30	1230	6.5
6	KULLUR	37	82	154	----	303	1.6
7	LAKSHMAPUR	-----	----	1727	2225	3952	21.0 ✓
8	MALLA	-----	436	----	----	436	2.3
9	MAINAHALLI	-----	----	183	168	351	1.9
10	SARUR	-----	----	626	64	690	3.7
11	SINGARKOP	-----	----	459	112	571	3.1
12	WADEGAON	245	----	----	----	245	1.3
13	WADI	-----	4098	----	----	4098	21.8 ✓
14	YARAGALLU	-----	404	----	----	404	2.1
	TOTAL	5608	5812	3217	3020	17657	93.8
	MISC	402	308	150	310	1170	6.2
	GRAND TOTAL	6010	6120	3367	3330	18827	
	PERCENTAGE	31.9	32.5	17.9	17.7		100.0

11 Area under different capability classes

Sl. No.	Land Capability Classes	Total Area	%	Soil series
1	II	10493	55.7	1 Bhima, 2 Borale, 3 Kumbhare, 4 Lakshmapur, 5 Malla, 6 Sarur, 7 Wadi
2	III	1580	8.4	1 Gadgi, 2 Hadanur, 3Mainahalli, 4 Singarkop
3	IV	4632	24.6	1. Borale, 2. Gadgi, 3. Hadanur, 4. Kumbhare, 5. Lakshmapur, 6. Malla, 7. Sarur, 8. Wadi
4	VI	952	5.1	1 Kullur, 2. Wadegaon, 3 Yaragallu
5	Misc (road, v.site, stream, roc etc)	1170	6.2	-----
Grand Total		18827	100.0	-----

12 Salient features and specific problems of the area

- a) Out of total area covered 18827 hectares, 33 villages under Gokak, Ramdurga  
b) Hungund,, Muddebihal Taluks of Belgaum and Bijapur districts of Karnataka  
c) Fourteen soil series are met out of these Borale, Lakshmapur and Wadi series are Extensive comprising 59.9% of the total area  
d) Shallow soils 952 (5%) , 3-10% slope, limitation of the scope of their management  
e) An area of 4997 hectares (26.8%) having severe erosion hazard