

# REPORT ON DETAILED SOIL SURVEY AND LAND USE OF Aj1s, Aj1t, Aj1u, Aj1v and Aj1z SUBWATERSHEDS OF NAGARJUNSAGAR CATCHMENT, HUNGUND TALUK, BAGALKOT DISTRICT AND KUSTAGI TALUK, KOPPAL DISTRICT, KARNATAKA.

## ABSTRACT

1. Surveyed area : Aj1s, Aj1t, Aj1u, Aj1v and Aj1z subwatersheds of Nagarjunsagar catchment, Hungund taluk, Bagalkot district and Kustagi taluk, Koppal district, Karnataka.
2. Total area mapped and reported: : 21861 hectares
3. Kind of survey: : Detailed soil survey
4. Period of survey : December 1999 to June 2000
5. Agro climatic zone : 10 (The Southern Plateau & Hill Region)
6. No. of soil mapping units : 22
7. Soil series mapped and area in hectares under each soil series

Sl. No.	Soil Series	Total area in ha & %	Aj1s	Aj1t	Aj1u	Aj1v	Aj1z
1	Alahal	1654 7.6	56	389	44	1140	25
2	Amaravathi	25 0.1	-	-	-	25	-
3	Hasedal	1298 5.9	380	316	458	32	112
4	Mainahalli	559 2.6	106	261	10	93	89
5	Thimmapur	15025 68.7	3756	1949	3563	3032	2725
6	Vaderagonal	194 0.9	-	-	7	10	177
	Misc.	3106 14.2	397	286	248	268	1907
<b>Total</b>		<b>21861</b>	<b>4695</b>	<b>3201</b>	<b>4330</b>	<b>4600</b>	<b>5035</b>

### 8. Area under different land capability classes

Sl. No.	Land capability class	Area in ha.	Percentage	Soil series
1	II	10927	50.0	Alahal, Hasedal, Thimmapur
2	III	3578	16.3	Alahal, Amaravathi, Mainahalli, Thimmapur and Vaderagonal
3	IV	4250	19.5	Alahal, Thimmapur, Vaderagonal
4	Misc.	3106	14.2	
<b>Total</b>		<b>21861</b>	<b>100.0</b>	

9. Specific problems of the areas

Sl. No	Specific problems	SUBWATERSHEDS					TOTAL
		Ajls	Ajlt	Ajlu	Ajlv	Ajlz	
1	Moderate erosion on slope above 3% on moderately deep to very deep	362	292	586	1295	654	3189
2	Severe erosion on slopes above 1% on moderately deep to very deep	953	853	582	1154	698	4240
	<b>Total</b>	<b>1315</b>	<b>1145</b>	<b>1168</b>	<b>2449</b>	<b>1352</b>	<b>7429</b>

Salient Features:

1. Maximum area is occupied by Thimmapur soil series followed by Alahal and Hasedal respectively;
2. Thimmapur has got maximum area in Ajlu followed by Ajls, Ajlv, Ajlz and Ajlt respectively;
3. Nearly 50% of the area is occupied by the Land Capability Class II area by the series Alahal, Hasedal and Thimmapur;
4. In class IV land pertaining to Alahal, Thimmapur and Vaderagonal soil series is found.