

Report on Detailed Soil Survey and Landuse of Aj5d, Aj5g, Aj5k, Aj5u, Aj5x, Aj7g, Aj7t, Aj7u Subwatersheds of Nagarjunsagar catchment in Ron and Gadag Taluks of Gadag District and Badami taluk of Bagalkot District and Navalgund Taluk of Dharwad District, Karnataka

ABSTRACT

1. Surveyed area : Aj5d, Aj5g, Aj5k, Aj5u, Aj5x, Aj7g, Aj7t, Aj7u Subwatersheds of Nagarjunsagar catchment in Ron and Gadag Taluks of Gadag District and Badami taluk of Bagalkot District and Navalgund Taluk of Dharwad District, Karnataka
2. Total area mapped and surveyed : 34555 ha.
3. Kind of survey : Detailed soil survey
4. Period of survey : May 2002 to June 2004
5. No. of villages in the surveyed area : 58
6. Base map used : Cadastral maps 1:7920 (8"=1 mile)
7. Agroclimatic zone : 10

8. Soil series mapped and sub-watershed wise Extent (in hectares):

S. No	Soil series	Sub-watershed code								Total area	%
		Aj5d	Aj5g	Aj5k	Aj5u	Aj5x	Aj7g	Aj7t	Aj7u		
1	Beladadi	0	0	0	76	0	0	0	0	76	0.2
2	Dyampur	306	0	15	271	2	194	740	276	1804	5.2
3	Gudda	0	0	0	330	0	0	0	0	330	1
4	Hosahalli	0	0	0	0	0	0	418	0	418	1.2
5	HulKoti	0	0	0	0	0	0	88	64	152	0.4
6	Kalasapur	0	0	0	34	0	0	0	0	34	0.1
7	Kallur	0	127	160	58	665	247	72	84	1413	4.1
8	Koti	0	0	0	0	0	0	41	0	41	0.1
9	Kot-Umachigi	0	0	23	0	0	0	0	0	23	0.1
10	Mainahalli	317	17	368	359	48	0	217	35	1361	3.9
11	Nagavi	0	0	0	338	0	0	0	0	338	1
12	Sompur	272	21	72	0	0	0	7	3	375	1.1
13	Tanda	0	0	0	786	0	0	0	0	786	2.3
14	Thimmapur	3860	3238	3643	1637	3544	4667	2374	2937	25900	74.9
15	Vardapur	89	0	0	0	0	0	0	0	89	0.3
	Total	4844	3403	4281	3889	4259	5108	3957	3399	33140	95.9
	Misc.	264	211	166	96	281	162	117	118	1415	4.1
	Grand Total	5108	3614	4447	3985	4540	5270	4074	3517	34555	100
	Percentage	14.8	10.5	12.9	11.5	13.1	15.2	11.8	10.2	100	

9. Area under different land capability classes

Sl.No	Land capability classes	Total area	Percentage	Soil Series
1	II	16513	47.7	Dyampur, Hosalli HulKoti, Kalasapur, Kallur, Kot-Umachigi, Nagavi, Thimmapur.
2	III	8218	23.8	Dyampur, Hosalli, Kallur, Koti, Mainahalli, Nagavi, Tanda, Thimmapur.
3	IV	8079	22.3	Beladadi, Dyampur, Kallur, Mainahalli, Sompur, Tanda, Thimmapur, Vardhapur.
4	VI	205	0.6	Gudda, Sompur
	VII	125	0.4	Gudda
5	Misc.	1415	4.1	-----
	Total	34555	100	-----

10. Salient features and specific problems of the area:

- The surveyed area covers 34555 ha spread over 58 villages of Ron, Gadag taluks of Gadag dist., Navalgund taluk of Dharwad district and Badami taluk of Bagalkot district, Karnataka State.
- 15 series are met in the area out of which Thimmapur and Dyampur series are extensively covered comprising 80.1% of total surveyed area.
- An area of 27522 ha comprising 79.6% of the total surveyed area is of very deep soils.
- Out of the total surveyed area 7657 ha (22.2%) is suffering from severe erosion, and 24405 ha (70.6%) is suffering from moderate erosion hazards.