

Report on detailed soil survey and land use of Am4j1, Am4j2, Am4j3, Am5a, Am5b, Am5c1, Am5c2, Am5c3, Am5d1, Am5d2, Am5d3, Am5d4, Am5f1, Am5f2, Am5f3, Am5f4, Am5f5, Am6b3, Am6g2 subwatersheds of Ghataprabha subcatchment, Hukkeri, Belgaum and Gokak taluks, Belgaum district, Karnataka State.

ABSTRACT

1. Surveyed area : Am4j1, Am4j2, Am4j3, Am5a, Am5b, Am5c1, Am5c2, Am5c3, Am5d1, Am5d2, Am5d3, Am5d4, Am5f1, Am5f2, Am5f3, Am5f4, Am5f5, Am6b3, Am6g2 subwatersheds, Belgaum district, Karnataka State.
2. Total area surveyed & reported: 29,296 hectares
3. Kind of survey : Detailed soil survey
4. Period of work : November 1990 to may 1991
5. Agro climatic zone :
6. Soil series mapped and total subwatershedwise area under each series

Sl. No.	Name of the soil series	Subwatershedwise area in hectares								
		Am4j1	Am4j2	Am4j3	Am5a	Am5b	Am5c1	Am5c2	Am5c3	Am5d1
1.	Aldal	-	-	-	-	-	-	-	-	-
2.	Alur	29	149	85	-	-	12	-	-	-
3.	Birnahalli	-	-	-	-	6	-	36	214	144
4.	Daddy	-	-	-	-	-	-	47	9	16
5.	Durgadevi	66	88	178	739	259	541	242	393	56
6.	Ghataprabha	20	10	-	76	764	413	313	291	297
7.	Godhageri	262	262	529	-	-	-	-	-	-
8.	Godhihal	37	167	111	-	54	106	-	-	-
9.	Hospet	64	36	353	11	380	558	445	730	288
10.	Kalvikatti	-	-	-	-	-	-	-	-	-
11.	Kanvihatti	-	18	-	199	45	-	-	-	-
12.	Konapur	-	-	-	-	-	-	-	-	-
13.	Kotabali	-	-	-	-	-	-	37	-	70
14.	Movunur	35	8	-	-	-	-	18	-	-
15.	Islampur	-	-	-	-	78	166	234	111	-
16.	Nagnur	-	-	-	-	-	-	-	-	-
17.	Sindhatti	207	288	664	-	-	78	-	-	-
Sub-Total		710	1026	1920	1025	1586	1874	1372	1748	871
Misc.		115	57	80	104	3	10	273	119	155
Grand Total		825	1083	2000	1129	1589	1884	1645	1867	1026

6. Soil series mapped and total subwatershedwise area under each series

Sl. No.	Name of the soil series	Subwatershedwise area in hectares									Total area	%	
		Am5d2	Am5d3	Am5d4	Am5f1	Am5f2	Am5f3	Am5f4	Am5f5	Am6b3			Am6g2
1.	Aldal	-	-	-	-	-	122	29	-	-	-	151	0.5
2.	Alur	-	-	-	-	19	-	-	-	584	572	1450	4.9
3.	Birnahalli	31	80	111	-	-	-	-	31	-	-	653	2.2
4.	Daddy	54	95	94	117	-	24	85	38	-	-	579	2.0
5.	Durgadevi	102	234	267	420	181	48	163	95	-	3	4075	14.0
6.	Ghataprabha	503	482	882	-	-	12	11	245	-	65	4384	15.0
7.	Godhageri	-	-	-	-	-	-	-	-	-	-	1053	3.6
8.	Godhihal	-	-	99	-	-	-	-	-	-	-	564	1.9
9.	Hospet	316	69	366	590	285	843	415	104	-	19	5872	20.0
10.	Kalvikatti	-	-	-	22	527	25	24	-	532	98	1228	4.2
11.	Kanvihatti	-	-	-	-	-	-	-	-	-	-	262	0.9
12.	Konapur	-	-	-	197	556	201	20	-	333	111	1418	4.8
13.	Kotabali	6	-	11	-	-	12	66	25	-	-	227	0.8
14.	Movunur	-	-	-	-	-	-	-	-	-	-	61	0.2
15.	Islampur	-	-	3	5	-	-	-	-	-	43	640	2.2
16.	Nagnur	-	-	-	-	227	234	155	-	-	33	649	2.2
17.	Sindihatti	-	-	-	-	24	-	-	-	-	472	1733	5.9
Sub-Total		1012	960	1833	1351	1819	1521	968	538	1449	1416	24999	85.3
Misc.		112	60	66	998	1704	174	72	81	44	70	4297	14.7
Grand Total		1124	1020	1899	2349	3523	1695	1040	619	1493	1486	29296	100%

7. Area under different land capability classes

Sl. No.	Land capability unit	Area	Percentage	Soil series
1.	II	6207	21.2	Godhihal, Godhgeri, Daddy, Aldal, Birnahalli, Islampur, Konapur, Movunur, Nagnur, Sindihatti
2.	III	7473	25.5	Birnahalli, Alur, Hospet, Godhgeri, Konapur, Godhihal, Nagnur, Sindihatti
3.	IV	2921	10.0	Godhgeri, Durgadevi, Hospet, Kotabali, Kanvihatti
4.	VI	955	3.2	Kotabali, Durgadevi
Miscellaneous lands		4297	14.7	
Forest lands		7454	25.4	
Total		29296	100%	

Miscellaneous and forest lands included in the area under village sites, Nallah, Roads, Tanus, reservoirs etc.

7. Salient features and specific problematic areas are as follows

- Seventeen soil series are met within the surveyed area but only Durgadevi, Ghataprabha and Hospet series are relatively expensive.
- Area with very deep soils above 3% slope affected by severe erosion is 115 ha. (0.4%)
- Area with moderately deep soils above 37% slope affected by severe erosion is 53 hectares (0.2%) only