

REPORT ON DETAILED SOIL SURVEY AND LAND USE OF Ah3a5, Ah3b2f, Ah3b4a, Ah5f6 & Ah7h7 SUBWATERSHEDS OF BHIMA SUBCATCHMENT OF NAGARJUNSAGAR CATCHMENT(RVP), IN SINDGI TALUK, BIJAPUR DISTRICT, ALAND, CHITAPUR AND GULBARGA TALUKS, GULBARGA DISTRICT, KARNATAKA.

ABSTRACT

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| 1. Surveyed area: | Ah3a5, Ah3b2f, Ah3b4a, Ah5f6 and Ah7h7 Subwatersheds of Bhima Subcatchment of Nagarjunsagar (RVP) Catchment in Bijapur and Gulbarga Districts of Karnataka |
| 2. Total area mapped and reported: | 13,994 hectares |
| 3. Kind of survey: | Detailed soil survey |
| 4. Period of survey: | March 1998 to July 1999 |
| 5. Base map used: | Cadastral maps 8"=1 mile |
| 6. Soil serieswise distribution of area under different subwatersheds and districts: | |

Sl.No.	Name of the soil series	Bijapur District	Gulbarga District	Total area in hectare	Ah3a5	Ah3b2f	Ah3b4a	Ah5f6	Ah7h7
1	Dangapur 'D'	-	34 (2.3)	34 (0.2)	-	-	-	34 (2.3)	-
2	Devangaon 'DG'	1683 (61.4)	545 (6.9)	2228 (15.9)	-	-	161 (4.3)	384 (26.3)	1683 (61.4)
3	Goudgaon 'GU'	-	135 (7.3)	135 (1.0)	-	-	46 (1.2)	89 (6.1)	-
4	Hadanur 'HA'	-	156 (3.4)	156 (1.1)	47 (1.5)	-	109 (2.9)	-	-
5	Kadargi 'KD'	-	452 (12.6)	452 (3.2)	86 (2.7)	-	366 (9.8)	-	-
6	Kullur 'KL'	-	582 (16.1)	582 (4.2)	-	15 (0.5)	332 (8.7)	235 (16.1)	-
7	Kumbhare 'KB'	127 (4.6)	460 (18.3)	587 (4.2)	-	77 (2.8)	254 (6.7)	129 (8.8)	127 (4.6)
8	Mopti 'MP'	-	196 (5.9)	196 (1.4)	165 (5.1)	-	31 (0.8)	-	-
9	Mudalnagar 'MU'	231 (8.4)	945 (33.8)	1176 (8.4)	600 (18.6)	114 (4.1)	113 (3.0)	118 (8.1)	231 (8.4)
10	Pala 'PL'	-	146 (5.2)	146 (1.0)	-	146 (5.2)	-	-	-
11	Wadagaon 'WG'	24 (0.9)	3338 (104.8)	3362 (24.0)	-	1740 (62.6)	1598 (42.2)	-	24 (0.9)
12	Wadi 'W'	-	2262	2262 (16.2)	2144	-	118	-	-
13	Yelgi 'Y'	353 (12.9)	1645 (66.8)	1998 (14.3)	-	591 (21.3)	637 (16.8)	417 (28.7)	353 (12.9)
	Sub-Total	2418	10896	13314	3042	2683	3765	1406	2418
	Misc.	324 (11.8)	356 (13.4)	680 (4.9)	188 (5.8)	96 (3.5)	19 (0.5)	53 (3.6)	324 (11.8)
	Grand Total	2742	11252	13996	3230	2779	3784	1459	2742

3. Districtwise area under different land capability class

Sl. No	Land capability class	Districtwise area (ha.)		Total area(ha)	Percentage	Soil Series
		Bijapur	Gulbarga			
1	II	1253	3156	4409	31.5	Devangaon Kumbhare Mopti Mudalnagar Wadi
2	III	152	1652	1804	12.9	Devangaon Goudgaon Hadanur Kumbhare Yelgi
3	IV	989	1536	2525	18.0	Devangaon Goudgaon Hadanur Kumbhare Mopti Mudalnagar Wadi Yelgi
4	VI	-	2771	2771	19.8	Kadargi Kullur Wadagaon
5	VII	24	1635	1659	11.9	Dangapur Kadargi Kullur Wadgaon
6	Forest	-	146	146	1.0	Pala
7	Misc. lands	324	356	680	4.9	
	Total	2742	11252	13994	100.0	

4. Specific problematic area (in hectares)

Sl. No		SUBWATERSHEDS					GRAND TOTAL
		Ah3b2f	Ah3b4a	Ah3a5	Ah5f6	Ah7h7	
A	Moderate erosion on slope above 3% on very deep soils	-	-	-	20	-	20
B	Moderate erosion on slope above 3% on deep soils	-	-	-	22	-	22
C	Moderate erosion on slope above 3% on moderate deep soils	-	-	-	413	-	413
D	Shallow soils (rooting zone limitations)	1559	2296	86	269	24	4234
E	Severe eroded land	974	831	823	179	872	3679
F	Severe stoniness and rockiness	412	17	190	284	-	903
	Actual problematic area	1824	2539	899	890	872	7024
	Percentage	26.0	36.1	12.8	12.7	12.4	100