

Detailed Soil Survey and Land Use of Bclf, Bc2a and Bc3a subwatersheds of Bajaj Sagar Catchment, Mahi R.V.P., Tehsil Bajna and Sailana, District Ratlam (M.P.)

A B S T R A C T

1. Surveyed area : Bclf, Bc2a and Bc3a Subwatersheds of Bajaj Sagar Catchment.
2. Total area Surveyed : 12,653 ha.
3. Kind of Survey : Detailed Soil Survey.
4. Period of Survey : November, 1987 to April, 1988.

5. Soil series mapped and subwatershedwise
area covered by each series.

(Area in ha)

Sl. No.	Soil Series	Subwatersheds			Total Area
		Bclf	Bc2a	Bc3a	
1.	Daulatpur	81 (1.7)	252 (4.7)	70 (2.8)	403 (3.2)
2.	Kamaliakheri	692 (14.2)	535 (10.1)	198 (8.0)	1425 (11.3)
3.	Mundri	2824 (58.2)	2832 (53.2)	1358 (54.7)	7014 (55.4)
4.	Padliya	19 (0.4)	68 (1.3)	-	87 (0.7)
5.	Panchdaria	978 (20.2)	1212 (22.8)	694 (28.0)	2884 (22.8)
Sub-Total		4594 (94.7)	4899 (92.1)	2320 (93.5)	11813 (93.4)
Misc. Land		259 (5.3)	419 (7.9)	162 (6.5)	840 (6.6)
Grand Total		4853 (100.0)	5318 (100.0)	2482 (100.0)	12653 (100.0)

(Figures in parenthesis are the percentages of the area)

Note: Misc. land includes area under Nadi, Nala, Tank, Roads and Habitation.

6. Subwatershed-wise area under different land
Capability classes.

(Area in ha)

Land Capability Class	Total Area	Subwatersheds		
		Bcl1f	Bc2a	Bc3a
II	379 (3.0)	74 (1.5)	238 (4.5)	67 (2.7)
III	635 (5.0)	352 (7.3)	237 (4.4)	46 (1.8)
IV	941 (7.4)	370 (7.6)	416 (7.9)	155 (6.2)
VI	4336 (34.3)	1864 (38.4)	1460 (27.4)	1012 (40.8)
VII	301 (2.4)	37 (0.8)	141 (2.7)	123 (5.0)
Sub total	6592 (52.1)	2697 (55.6)	2492 (46.9)	1403 (56.5)
Forest Land	5221 (41.3)	1897 (39.1)	2407 (45.2)	917 (37.0)
Misc. Land	840 (6.6)	259 (5.3)	419 (7.9)	162 (6.5)
Grand Total	12653 (100.0)	4853 (100.0)	5318 (100.10)	2482 (100.0)

(Figures in parenthesis are the percentages)

Salient features :

Nearly 1034 ha (8.2%) area have moderate and about 10759 ha (85.0%) have severe erosion problems.

Very shallow to shallow and shallow soils cover an area of 9898 ha (78.2%).

The area have enough scope for agriculture, pasture, animal husbandry and poultry development.

Five soil series have been met within the survey area but only Kamaliakheri, Mundri and Panchdaria series are relatively extensive. Mundri series alone covers 55.4% of the total area.