

Detailed Soil Survey and Land Use of BaZf, BaZg, BaZh, BaZj, and Ba3q subwatersheds of Bajaj Sagar Catchment, Mahi R.V.P. Tehsil Sailana, Distt. Ratlam (Madhya Pradesh).

#### ABSTRACT

1. Survey area : BaZf, BaZg, BaZh, BaZj, and Ba3q Subwatersheds of Bajaj Sagar Catchment.
2. Total area surveyed : 14,308 ha.
3. Location : 74°39' to 74° 47' E Longitudes 23° 23' to 23° 32' N Latitudes.
4. Kind of Survey : Detailed soil survey
5. Period of Survey : March, 91 to March 92
6. No. of Villages : 56

7. Subwatershed wise area covered by each series.

(Area in ha.)

S.No.	Soil Serie	Nos of mapping units	Total Area	Sub watershed Area				
				Ba2f	Ba2g	Ba2h	Baej	Ba3g
1	Daulatpura	2	1119	0	119	200	624	176
		%	7.8	0.0	4.4	9.6	11.8	4.4
2	Jhirnia	1	61	0	10	21	0	30
		%	0.4	0.0	0.4	1.0	0.0	0.7
3	Kamliakheri	4	2031	7	270	280	875	599
		%	14.2	3.1	10.0	13.4	16.5	15.0
4	Mundri	3	5780	134	1375	957	2087	1227
		%	40.4	59.3	51.0	46.0	39.4	30.7
5	Panchdhanaria	2	3442	84	652	432	934	1340
		%	24.1	37.2	24.2	20.7	17.6	33.5
6	Runeja	2	1271	0	127	123	600	421
		%	8.9	0.0	4.7	5.9	11.3	10.5
Total		14	13704	225	2353	2013	5120	3793
		%	95.8	99.6	94.7	76.7	76.6	94.6
Misc.			604	1	143	69	181	210
			4.2	0.4	5.3	3.3	3.4	5.2
Grand Total			14308	226	2496	2082	5301	4003
			100	100	100	100	100	100



## Salient Features

- Out of the total area of 14308 ha only 3621 ha (25.3%) is suitable for agriculture.
- Nearly 2788 ha (20.9%) area have moderate and about 10716 ha (74.9%) area have severe erosion problems.
- Very shallow to shallow soils cover an area of 10473 ha (69.4%) and are recommended for pasture and forest development.
- Six soil series have been identified in the survey area where Mundri, Fanchadaria and Kamiakheri series are relatively extensive.