

Detailed Soil Survey and Land Use of Ba1c, Ba1d, Ba4a, Ba5b, Ba5c and Ba5d subwatersheds, Bajaj Sagar Catchment, Mahi R.V.P., Tehsil-Ghatol, Distt. - Banaswara and Tehsil - Pratapgarh and Arnod, Distt. - Chhittorgarh (Rajasthan).

ABSTRACT

1. Surveyed area : Ba1c, Ba1d, Ba5a, Ba5b, Ba5c & Ba5d subwatersheds of Bajaj Sagar Catchment.
2. Total area surveyed : 18859 ha.
3. Kind of survey : Detailed soil survey
4. Period of survey : June, 1990 and December, 1990 to March, 1991.
5. Location (Between) : $23^{\circ}44'$ to $23^{\circ}45'$ N Latitudes & $74^{\circ}37'$ to $74^{\circ}51'$ E Longitudes
6. Number of villages : 56

7. soil series mapped and subwatershed-wise area covered by each series.

(Area in ha)

Sl. No.	Soil series	Subwatersheds						Total Area
		Ba1c	Ba1d	Ba5a	Ba5b	Ba5c	Ba5d	
1	2	3	4	5	6	7	8	9
1	Daulatpura	90 (3.8)	85 (1.5)	202 (13.2)	5 (0.3)	29 (0.9)	333 (7.3)	744 (3.9)
2	Jaggakheri	45 (1.9)	14 (0.2)	14 (0.9)	25 (1.5)	65 (2.1)	348 (7.6)	511 (2.7)
3	Jhirnia	22 (0.9)	166 (3.0)	49 (3.2)	37 (2.2)	11 (0.4)	8 (0.2)	293 (1.6)
4	Kamliakheri	302 (12.8)	347 (6.3)	170 (11.0)	64 (3.9)	109 (3.5)	931 (20.4)	1923 (10.2)
5	Mathuri	88 (3.7)	173 (3.1)	32 (2.1)	22 (1.3)	11 (0.4)	8 (0.2)	334 (1.8)
6	Mundri	721 (30.5)	2638 (46.9)	737 (47.9)	1041 (63.3)	2120 (67.9)	1064 (23.3)	8321 (44.1)
7	Panchdaria	718 (30.4)	1833 (32.6)	253 (16.4)	337 (20.5)	511 (16.4)	710 (15.5)	4362 (23.1)
8	Runeja	64 (2.7)	64 (1.1)	16 (1.0)	47 (2.9)	95 (3.0)	874 (19.1)	1160 (6.2)

9

Sarol

32

35

14

x

73

185

339

(1.4)

(0.5)

(0.9)

x

(2.3)

(4.1)

(1.8)

sub Totals

2082

5355

1487

1578

3024

4461

17987

(88.1)

(95.2)

(96.6)

(95.9)

(96.9)

(97.7)

(95.4)

Miscellaneous area

282

270

52

67

96

105

872

(11.9)

(4.8)

(3.4)

(4.1)

(3.1)

(2.3)

(4.6)

Grand Total

2364

5625

1539

1645

3120

4566

18859

(100)

(100)

(100)

(100)

(100)

(100)

(100)

Salient features :

- Nearly 3443 ha (18.3%) area has moderate and about 14141 ha (75.0%) has severe erosion problems.
- Very shallow to shallow and shallow soils cover an area of 13843 ha (73.4%).
- The area have enough scope for agriculture pasture, animal husbandry and poultry development.
- Nine soil series have been met within the survey area but only Kamliakheri, Mundri and Panchdaria series are relatively extensive. Mundri series alone covers 44.1% area whereas Panchdaria series covers 23.2% area of the total area surveyed.