

Detailed Soil Survey and Land Use of Bb2a, Bb2b, Bb2c, Bb2d, Bb2f, Bb2h, Bb3a and Bb3b Subwatersheds, Bajaj Sagar Catchment, Mahi RVP., Tehsil Bajna, District - Ratlam, Madhya Pradesh.

A B S T R A C T

1. Surveyed area : Bb2a, Bb2b, Bb2c, Bb2d, Bb2f, Bb2h, Bb3a and Bb3b subwatersheds of Bajaj Sagar Catchment.
2. Total area surveyed : 19184 ha.
3. Kind of survey : Detailed Soil Survey
4. Period of survey : December 1986 to June 1987.

6. Subwatershed-wise area under different land capability classes

(Area in ha.)

Land Capability class	Total area	Subwatersheds							
		Bb2a	Bb2b	Bb2c	Bb2d	Bb2f	Bb2h	Bb3a	Bb3b
II	1688 (8.8)	76 (4.3)	123 (10.3)	569 (14.2)	401 (14.2)	212 (7.8)	59 (12.9)	97 (2.9)	151 (5.3)
III	866 (4.5)	28 (1.6)	72 (6.0)	192 (4.8)	150 (5.3)	82 (3.0)	3 (0.6)	249 (7.4)	90 (3.2)
IV	1709 (9.0)	111 (6.1)	171 (14.3)	489 (12.2)	145 (3.1)	99 (3.7)	32 (7.0)	336 (10.1)	326 (11.4)
VI	6874 (35.8)	690 (38.5)	394 (32.8)	1705 (42.6)	846 (29.7)	1107 (40.9)	164 (35.9)	1093 (32.7)	875 (30.7)
VII	428 (2.2)	123 (6.9)	67 (5.6)	91 (2.3)	6 (0.2)	30 (1.1)	-	92 (2.7)	19 (0.7)
Subtotal	11565 (60.3)	1028 (57.4)	827 (69.0)	3046 (76.1)	1548 (54.5)	1530 (56.5)	258 (56.4)	1867 (55.8)	1461 (51.3)
Forest lands*	6057 (31.6)	619 (34.6)	243 (20.3)	623 (15.6)	1121 (39.5)	1005 (37.1)	174 (38.1)	1210 (36.2)	1062 (37.3)
Misc. lands	1562 (8.1)	143 (8.0)	129 (10.1)	331 (8.3)	169 (6.0)	172 (6.4)	25 (5.5)	267 (8.0)	326 (11.4)
Grand Total	19184 (100.0)	1790 (100.0)	1199 (100.0)	4000 (100.0)	2838 (100.0)	2707 (100.0)	457 (100.0)	3344 (100.0)	2849 (100.0)

(Figures in parenthesis are the percentages)

*Separate Afforestation and pasture development classes have been attempted

Salient features:

- Out of the total area of 19184 ha. only 4263 ha. (22.3%) is suitable for agriculture.
- Near 2507 ha. (13.1%) area have moderate and about 15067 ha. (78.6%) have severe erosion problems. Within the eight subwatersheds, all subwatershed recorded severe erosion ranging from 72.7 to 86.2% area. Maximum percentage is observed in Bb2a subwatershed.
- Very shallow to shallow and shallow soils cover an area of 13359 ha. (69.6%) and are recommended for pasture and forest development coupled with animal husbandry and poultry development programmes.
- Six soil series are met within the survey area but only Kamaliakheri, Mundri, Panchdaria series are relatively extensive.