

DETAILED SOIL SURVEY AND LAND USE OF Ba4a, Ba4b,  
Ba4c, Ba4d, Ba4f, Ba4g, Ba4h and Ba4j SUBWATERSHEDS  
OF BAJAJ SAGAR CATCHMENT, MAHI R.V.P., TEHSIL ARNOD,  
DISTRICT CHITTORGARH AND TEHSIL GHATOL, DISTRICT -  
BANASWARA, RAJASTHAN.

I. A B S T R A C T

1. Survey Area : Ba4a, Ba4b, Ba4c, Ba4d,  
Ba4f, Ba4g, Ba4h & Ba4j  
subwatersheds of Bajaj Sagar  
Catchment, Rajasthan.
2. Total area surveyed and  
mapped. : 20,763 ha.
3. Type of survey : Detailed soil survey.
4. Period of survey : November, 1991 to  
May, 1992.
5. No. of villages surveyed. : 65.

Sl. No.	Soil Series	No. of mapping units	Subwatershed Codes								Total area
			Ba4a	Ba4b	Ba4c	Ba4d	Ba4f	Ba4g	Ba4h	Ba4j	
1	2	3	4	5	6	7	8	9	10	11	12
1.	Baloda	5	-	-	-	-	191 (7.2)	205 (4.7)	-	193 (8.9)	589 (2.8)
2.	Daulatpura	3	80 (2.9)	55 (2.4)	58 (2.8)	12 (0.6)	266 (10.0)	229 (5.2)	96 (3.9)	124 (5.7)	920 (4.4)
3.	Dunglawani	3	52 (1.9)	10 (0.4)	15 (0.7)	44 (2.1)	-	-	9 (0.4)	-	130 (0.6)
4.	Jaggakheri	3	42 (1.6)	43 (1.9)	2 (0.1)	50 (2.4)	101 (3.8)	142 (3.2)	26 (1.1)	49 (2.3)	455 (2.2)
5.	Jhirnia	2	33 (1.2)	19 (0.8)	45 (2.2)	99 (4.8)	36 (1.3)	52 (1.2)	-	-	284 (1.4)
6.	Kamliakheri	3	145 (5.3)	111 (4.9)	134 (6.6)	44 (2.1)	482 (18.1)	599 (13.7)	120 (4.9)	311 (14.4)	1946 (9.4)
7.	Mundri	5	1440 (52.9)	1502 (65.9)	1315 (64.0)	1368 (65.7)	931 (34.9)	1926 (44.2)	1769 (72.8)	984 (45.5)	11235 (54.1)
8.	Mathuri	2	-	2 (0.1)	-	-	16 (0.6)	68 (1.6)	43 (1.8)	20 (0.9)	149 (0.7)

1	2	3	4	5	6	7	8	9	10	11	12
9. Nayan		3	150 (5.5)	12 (0.5)	-	-	-	6 (0.1)	-	-	168 (0.8)
10. Panchdaria		4	576 (21.1)	376 (16.5)	419 (20.4)	384 (18.4)	345 (12.9)	674 (15.5)	287 (11.8)	277 (12.8)	3338 (16.1)
11. Runeja		3	47 (1.7)	45 (2.0)	14 (0.7)	3 (0.1)	92 (3.4)	208 (4.8)	13 (0.5)	107 (5.0)	529 (2.6)
12. Sarol		2	40 (1.5)	28 (1.2)	-	-	90 (3.4)	62 (1.4)	-	4 (0.2)	224 (1.1)
Sub Total		38	2605 (95.6)	2203 (96.6)	2002 (97.5)	2004 (96.2)	2550 (95.6)	4171 (95.6)	2363 (97.2)	2069 (95.7)	19967 (96.2)
Miscellaneous area/lands			120 (4.4)	78 (3.4)	52 (2.5)	79 (3.8)	117 (4.4)	190 (4.4)	68 (2.8)	92 (4.3)	796 (3.8)
Grand Total			2725 (100.0)	2281 (100.0)	2054 (100.0)	2083 (100.0)	2667 (100.0)	4361 (100.0)	2431 (100.0)	2161 (100.0)	20763 (100.0)

7. Area under different land capability classes:

Land capability class	Area, in ha.	Percentage
II	1950	9.4
III	1030	5.0
IV	860	4.1
VI	6752	32.3
VII	208	1.0
Forest areas (F/II)	9167	44.2
Miscellaneous lands	796	3.8
<b>Total</b>	<b>20763</b>	<b>100.0</b>

8. Area under different erosion classes:

Erosion class	Area in ha.	Percentage
e1 - None to slight erosion	256	1.2
e2 - Moderate erosion	2764	13.3
e3 - Severe erosion	16947	81.7
Miscellaneous lands	796	3.8
<b>Total</b>	<b>20763</b>	<b>100.0</b>