

Report on the Detailed Soil Survey and Land Use of Ba2a, Ba2d, Ba2f, Ba2g, Ba3a, Ba3f, Ba3g and Ba3k subwatersheds of Bajaj Sagar Catchment, Mahi R.V.P., Tehsils Banswara and Ghatol, District Banswara, Rajasthan.

A B S T R A C T

1. Survey Area : Ba2a, Ba2d, Ba2f, Ba2g, Ba3a, Ba3f, Ba3g and Ba3k subwatersheds of Bajaj Sagar Catchment, Mahi R.V.P.
2. Agro-climatic Zone : 9
3. Location : $23^{\circ}26' - 23^{\circ}42' \text{ NL}$
 $74^{\circ}33' - 74^{\circ}46' \text{ EL}$
4. Total Area : 18316 ha
5. Type of Survey : Detailed Soil Survey
6. Period of Survey : April, 1992 to April, 1993
7. No. of villages covered : Full - 29
Part - 26.

Report on the Detailed Soil Survey and Land Use of Ba2a, Ba2d, Ba2f, Ba2g, Ba3a, Ba3f, Ba3g and Ba3k subwatersheds of Bajaj Sagar Catchment, Mahi R.V.P., Tehsils Banswara and Ghatol, District Banswara, Rajasthan.

8. Subwatershed-wise distribution of area under different land capability Class

| Sl. No. | Sub-watersheds | Land Capability Class-wise area in ha | | | | | Forest Land (P/M) | Misc. Land | Sub-merged | Total |
|---------|----------------|---------------------------------------|-----|------|------|------|-------------------|------------|------------|-------|
| | | II | III | IV | VI | VII | | | | |
| 1. | Ba2a | 13 | 28 | 42 | 799 | 145 | 447 | 74 | 680 | 2228 |
| | % | 0.6 | 1.3 | 1.9 | 35.9 | 6.5 | 20.1 | 3.3 | 30.5 | 100 |
| 2. | Ba2d | 135 | 44 | 78 | 965 | 412 | 345 | 155 | 97 | 2231 |
| | % | 6.1 | 2.0 | 3.5 | 43.3 | 18.5 | 15.5 | 6.9 | 4.3 | 100 |
| 3. | Ba2f | 296 | 87 | 103 | 1480 | 554 | 593 | 235 | 0 | 3348 |
| | % | 8.8 | 2.6 | 3.1 | 44.2 | 16.5 | 17.7 | 7.0 | 0.0 | 100 |
| 4. | Ba2g | 189 | 99 | 85 | 1054 | 127 | 378 | 137 | 0 | 2069 |
| | % | 9.1 | 4.8 | 4.1 | 50.9 | 6.1 | 18.3 | 6.6 | 0.0 | 100 |
| 5. | Ba3a | 0 | 0 | 12 | 885 | 225 | 398 | 43 | 639 | 2202 |
| | % | 0.0 | 0.0 | 0.5 | 40.2 | 10.2 | 18.1 | 2.0 | 29.0 | 100 |
| 6. | Ba3f | 83 | 24 | 158 | 570 | 286 | 402 | 94 | 73 | 1696 |
| | % | 5.2 | 1.4 | 9.3 | 33.6 | 16.9 | 23.8 | 5.5 | 4.3 | 100 |
| 7. | Ba3g | 61 | 28 | 92 | 1111 | 351 | 130 | 136 | 15 | 1924 |
| | % | 3.2 | 1.5 | 4.8 | 57.7 | 18.2 | 6.8 | 7.1 | 0.8 | 100 |
| 8. | Ba3k | 300 | 100 | 294 | 1144 | 182 | 471 | 127 | 0 | 2618 |
| | % | 11.5 | 3.8 | 11.2 | 43.7 | 7.0 | 18.0 | 4.9 | 0.0 | 100 |
| Total | | 1082 | 410 | 864 | 8008 | 2282 | 3165 | 1001 | 1504 | 18316 |
| % Total | | 5.9 | 2.2 | 4.7 | 43.7 | 12.5 | 17.3 | 5.5 | 8.2 | 100 |

Salient features:

- Out of total 18316 ha survey area only 2356 ha (12.8%) is suitable for agriculture.
- Nearly 1399 ha (7.6%) area suffers from moderate while about 14412 ha (78.7%) have severe erosion problems.
- All eight subwatersheds have more than 80.0% area under severe erosion hazards.
- Very shallow and shallow soils cover an area of 13455 ha
- Area covering above 5% slopes accounts for 65.9% of total geographical area of subwatersheds.
- The survey area have enough potential for pasture, forestry, animal husbandry and poultry development.
- Seven soil series have been met within the survey area. Mundri and Panchdaria soil series are relatively extensive covering 57.1% and 12.3% area respectively.