

ABSTRACT

1. Surveyed area : Gg2c, Gg3g, Gg3h, Gg3k, Gg3m and Gg3r subwatersheds, Chambal, R.V.P.
2. Total area : 12,801 hectares.
3. a. Kind of survey : Detailed Soil Survey
- b. Period of survey : Dec., 1984 to March, 1985
4. Soil series mapped and area covered by each series

| | <u>Soil Series</u> | <u>Area in ha.</u> | <u>Percent</u> |
|----|--------------------|--------------------|----------------|
| 1. | 1. Antralia | 1292 | 10.1 |
| | 2. Baloda | 3039 | 23.7 |
| | 3. Dudhaliya | 130 | 1.0 |
| | 4. Ga bapura | 39 | 0.3 |
| | 5. Harsaur | 90 | 0.7 |
| | 6. Jaggakheri | 1297 | 10.1 |
| | 7. Kamliakheri | 1440 | 11.3 |
| | 8. Panchdaria | 9 | 0.1 |
| | 9. Runeja | 353 | 2.8 |
| | 10. Sarol | 3917 | 30.6 |
| | 11. Tekri | 374 | 2.9 |
| | 12. Miscellaneous | 821 | 6.4 |
| | Grand Total | 12801 | 100.0 |

5. Land capability classifications.

| S.No. | <u>Land capability class</u> | <u>Area in ha.</u> | <u>Soil Series.</u> |
|-------|--|----------------------|--|
| 1. | II- Good land minor limitations | Arable lands 5333 | Antralia, Baloda, Jaggakheri, Sarol. |
| 2. | III- Moderately good lands moderate limitation | 5 4037 | Antralia, Baloda, Dudhaliya, Gabapur Harsaur, Jaggakheri |
| | | Non-arable lands | Kamliakheri, Sarol |
| 3. | IV- Marginal lands major limitations | 1874 | Antralia, Dudhaliya Gabapura, Kamliakheri. |
| 4. | VI.- Grass & Forest lands | 736 | Panchdaria, Runeja |
| | | | Tekri |
| 5. | Miscellaneous lands | 821 | |
| | TOTAL | : 12801 | |

6. Salient features :-

- a. Out of the total area of 12801 ha. nearly 11244 ha. (87.8%) is suitable for agriculture.
- b. b. Nearly 5.7% of the total area (736 ha.) is under very shallow to shallow soils and requires good forest ranges and grass management.
- c. of the total area, 3294 ha. (25.7%) suffers from severe erosion and 7767 ha. (60.6%) from moderate erosion.
- d. Out of the 11 soils series, saral is quite extensive and covers 3917 ha. (30.6%) of the total area.
- e. About 686 ha. area has been mapped as gullied land which forms about (5.3%) of the total area and needs special attention including gully controls.

ii. HOW TO USE SOIL SURVEY REPORT

The report embodies the results of the detailed soil survey of part of Chambal RVP catchment, Teh. Gangdhar Distt. Jhalawar Rajasthan and part of Barod Tehsil of Shajapur and Mahidpur tehsil of Ujjain Distt. Madhya Pradesh. It furnishes information and the general sub-watershed characteristics such as, physiography, geology, climatic conditions, vegetation, land use and provides detailed description of the soils, land capability classes and other utilitarian/Type C of interpretative groupings. The classification of the soils is also discussed.

In the soil mapping units, each mapping unit is marked by a mapping symbol; such as, B5rB2 which gives abbreviated soil series name 'B' for Baloda series; soil depth '5' for very deep soils; soil type 'r' clay; slope class 'B' for 1-3% slopes and erosion class '2' for moderate erosion.

For the use of soil survey report, first locate the area that you are interested in on the map and note down the soil mapping units. Permanent features, such as, roads, cart tracks, ponds, streams, village habitation, etc. are shown on the map and would help to locate the area of interest on the map.