

DETAILED SOIL SURVEY AND LANDUSE OF Ba6a, Ba6b, Ba7a, Ba7b
& Ba7f SUBWATERSHEDS OF BAJAJ SAGAR CATCHMENT, MAHI RVP,
TEHSILS-ARNOD & PRATAPGARH, DISTRICT - CHITTORGARH AND
TEHSIL - GHATOL, DISTRICT - BANSWARA, RAJASTHAN

I. A B S T R A C T

1. Survey area : Ba6a, Ba6b, Ba7a, Ba7b & Ba7f
subwatersheds of Bajaj Sagar
Catchment
2. Total area surveyed : 16,995 ha
3. Kind of survey : Detailed Soil Survey
4. Period of survey : April, 1988 to June, 1988
November, 1988 to February,
1989
5. No. of Villages : 92

7. Area under different land capability classes :

Land capability class	Area in ha (Percentage)	
II	3072	(18.1)
III	2236	(13.2)
IV	1381	(8.1)
VI	5307	(31.2)
Forest areas	4141	(24.4)
Miscl. lands.	858	(5.0)
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Total	16,995	(100.0)
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8. Area under different erosion classes :

Erosion class	Area in ha (Percentage)	
e1- None to slight erosion	1122	(6.6)
e2- Moderate erosion	6090	(35.9)
e3- Severe erosion	8925	(52.5)
Miscl. lands	858	(5.0)
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Total	16,995	(100.0)
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Salient features :

Out of the total area of 16,995ha only 6689ha (39.4%) is suitable for agriculture including 1381ha (13.2%) which is suitable for occasional cultivation only.

Nearly 6090ha (35.9%) have moderate erosion problems while 8925ha (52.5) suffer from severe erosion hazards. Moderate and severe erosion phases have been recorded in all the five surveyed subwatersheds. Maximum area of severe erosion of 1840ha (61.4% of the subwatershed) is in Baba subwatersheds. In other subwatersheds it ranges from 44.1% to 58.9% of the subwatershed.

Very shallow to shallow soils cover an area of 10,521ha (61.9%) and have been recommended for afforestation and pasture development.

Nine soil series have been identified in the survey area. Only Panchdaria and Mundri series are extensive. Daulatpura and Kamliakheri series covers an area of about 12.6% and 10.6% respectively. All other soil series occupy less than 5% area each.