

DETAILED SOIL SURVEY AND LAND USE OF Mf4j
SUBWATERSHED, MASANI BARRAGE CATCHMENT
(SAHIBI FPR) TEHSIL - SHRI MADHOPUR,
DISTRICT SIKAR, RAJASTHAN.

(Indo-German Project)

ABSTRACT

1. Surveyed Area :

- (a) Hydrologic Units : Mf4j subwatershed, Masani
barrage catchment (Sahibi
FPR)
- (b) Administrative : Tehsil - Shri Madhopur
details district Sikar, Rajasthan
- (c) Geographical details : Latitudes - 27° 29' to
27° 33' N
Longitudes - 75° 49' to
75° 53' E
- (d) Agro-climatic region : Indo-Gangetic Plain
- (e) No. of villages covered: 04

2. Total area : 1197 ha.
3. Kind of survey : Detailed soil survey
4. Period of survey : May to July, 1993

5. Soil series mapped and area under each series :

S.No.	Soil series	Area (ha)	Percentage
1.	Burhanpura	180	15.0
2.	Hardas	194	16.2
3.	Khiroti	36	3.0
4.	Lukhi	678	56.7
5.	Underwater bodies	87	7.3
6.	Misc. land	22	1.8
Total		1197	100.0

6. Land capability classes :

	Land capability class	Area (ha)	Percentage
III	Moderately good lands with moderate limitations	490	42
IV	Marginally suitable lands for cultivation	412	34
VI	Well suited for grazing and forestry	51	4
	Forest land	135	11
	Under water bodies	87	7
	Miscellaneous	22	2
Total :		1197	100.0

7. Erosion inventories :

S. No.	Erosion class	Area (ha)	Percentage
1.	Moderate (e2)	490	41
2.	Severe (e3)	547	46
3.	Very severe (e4)	51	4
	Under water bodies	87	7
	Miscellaneous	22	2
Total :		1197	100.0

8. Salient features :

1. An area of 902 ha (75.3%) is suitable for agriculture and 51 ha (4.3%) area is well suited for grazing and forestry. Soil conservation measures need to be adopted for better soil and land use planning in this area.
2. An area of 135 ha (11.3%) is under forest land as such "forest management" should form an integral part of watershed management programmes of this subwatershed.
3. An area of 51 ha (4.3%) is occupied, highly denuded and ravinous lands needing immediate attention for proper treatment.