

A B S T R A C T

1. Surveyed area : Mh5c and Mh5d subwatersheds Masani Barrage catchments Tehsil - Bilarat Nagar, Distt. - Jaipur and Tehsil Neemkathana, Distt. - Seekar (Rajasthan).
2. Total Area : 3332 ha.
3. Kind of Survey : Detailed Soil Survey.
4. Period of Survey: April to July, 1984
5. Soil Series mapped and area covered under each series.

Sl. No.	Name of the Soil series	Total area		Subwatersheds		%	
		in ha.	%	Mh5c area in ha.	Mh5d % area in ha.		
1.	Chhapra	578	17.3	137	8.3	26.2	
2.	Jawanpura	455	13.7	138	8.4	18.8	
3.	Kakarala	187	5.6	53	3.2	8.0	
4.	Roopwas	80	2.4	80	4.8	-	
5.	Roond Tijara	925	27.8	863	52.3	3.8	
6.	Sairowan	889	26.7	271	16.4	36.7	
7.	Misc. Habi, Road	86	2.5	37	2.3	2.9	
8.	Rivers Nala	132	4.0	71	4.3	3.6	
Total		3332	100.0	1650	100.0	1682	100.0

6. Land Capability Classes:

Land Capability Units	Soil Series	Area in ha.	Percentage
<u>ARABLE LANDS</u>			
II	Chhapra and Sairowan	1396	41.9
III	Chhapra and Sairowan	40	1.2
IV	Sairowan, Jawanpura and Kakrala	673	20.0 ³ ₂
<u>NON-ARABLE LANDS</u>			
VII	Roopwas and Roond Tizara	1005	30.1
Miscellaneous land	River etc.	218	6.5
Total		3332	100.00

7. Area under different erosion phases:

Sl.No.	Erosion Classes	Area in ha.	Percentage
1.	Moderate	1586	47.6
2.	Severe	603	18.1
3.	Very Severe gullied	925	27.8
4.	Miscellaneous	86	2.5
5.	River	132	4.0
Total		3332	100.00

8. Salient features:

1. Nearly 2109 ha. (63.3%) of the total area is suitable for Agriculture.
2. About 525 ha. (15.8%) area is under shallow ravines and require suitable reclamation measures for growing of Agriculture crops.
3. About 480 ha. of land is under deep ravines, sand mounts and hills is suitable for afforestation.
4. About 1586 ha. (47.6%) suffer from moderate erosion and the remaining and suffer from severe erosion problems.
5. Ravinous land alone occupies 925 ha. (27.8%) of the total surveyed area.