

Report on detailed soil survey and land use of Sb4a, Sb4c, Sb4d, Sb4f, Sb6g, Sb3j and Sb3k subwatersheds of Sahibi F.P.R. catchment, Tehsil and District Gurgaon, Haryana.

i. ABSTRACT

1. Surveyed area : Sb4a, Sb4c, Sb4d, Sb4f, Sb6g, Sb3j and Sb3k subwatersheds of Sahibi FPR catchment, Tehsil and District Gurgaon, Haryana.
2. Total area : 12,483 hectares
3. Period of survey : December 1987 to March 1988.
4. Kind of survey : Detailed soil survey
5. Soil series mapped and area covered by each series

Sl. No.	Name of the soil series	Sb4a	Sb4c	Sb4d	Sb4f	Sb6g	Sb3j	Sb3k	Total	Grand Total (%)
1.	Bargujar	-	-	-	-	26	13	-	39	(0.3)
2.	Chhapra	-	-	-	-	-	55	-	55	(0.4)
3.	Jawanpura	-	-	266	348	-	27	-	641	(5.1)
4.	Kakrala	308	80	68	-	330	92	84	962	(7.7)
5.	Lukhi	661	692	107	84	1047	1737	719	5047	(40.4)
6.	Medawas	75	108	141	84	97	22	-	527	(4.2)
7.	Palada	-	-	-	-	-	108	-	108	(0.9)
8.	Roopwas	36	158	1311	392	369	692	116	3074	(24.6)
9.	Sultanpur	93	-	-	-	-	-	-	93	(0.8)
10.	Gullied land	26	116	203	160	120	151	18	794	(6.4)
11.	Misc. land	89	63	29	236	402	81	109	1009	(8.1)
12.	Under water	7	21	31	14	14	31	16	134	(1.1)
Total		1295	1238	2156	1318	2405	3009	1062	12483	/100%

6. Land capability classes, their extent and soil series

<u>Land capability class</u>	<u>Area in ha.</u>	<u>Percentage</u>	<u>Soil series</u>
<u>A. ARABLE LANDS</u>			
II	4703	37.7	Bargujar, Chhapra Lukhi, Medwas, Palada
III	1246	10.0	Jawanpura, Kakrala, Medwas
IV	1523	12.2	Jawanpura, Kakrala Lukhi, Sultanpur
Sub-Total	7472	59.9	
<u>B. NON ARABLE LANDS</u>			
VII	2754	22.1	Roopwas
VIII	320	2.5	Roopwas
	3074	24.6	
Gullied land	794	6.4	
Miscellaneous under water	1143	9.1	
Grand Total	12483	100.0	

7. Erosion inventory

<u>Erosion class</u>	<u>Area in ha.</u>	<u>Percentage</u>
Slight erosion	4220	33.8
Moderate erosion	2453	19.6
Severe erosion	3873	31.0
Gullied land	794	6.4
Misc. and under water	1143	9.2
Total	12483	100.0

## 8. Salient features:

1. Of the total area about 7472 hectares (59.9%) area is suitable for agriculture.
2. Of the total area about 2754 hectares ( 22.1%) of the area is under hills and 749 hectares (6.4%) area is under gullied lands. This land is suitable for forest and grass lands.
3. About 31.0% area is suffering from severe erosion needing immediate attention.
4. Most of the soils are sandy and coarse loamy, therefore moisture remains deficient. For good crop yield frequent irrigation is necessary.
5. About 93 hectares (0.8%) area is under salt affected soils which needs scientific reclamation and management.
6. About 320 hectares (2.5%) area is under rocky hills, which can be well utilised for wild life or recreation.