

DETAILED SOIL SURVEY OF yf¹2c, yf¹2d, yf¹2f, yf¹2h and yf¹2j
SUBWATERSHEDS OF UPPER YAMUNA (F.P.R.) CATCHMENT, TEHSIL
CHOPAL, DISTRICT : SIMLA , HIMACHAL PRADESH.

A B S T R A C T

1. Survey area : yf¹2c, yf¹2d, yf¹2f, yf¹2h and yf¹2j
subwatersheds of Upper Yamuna(F.P.R.)
Catchment, Tehsil- Chopal, District
Simla, Himachal Pradesh.
2. Total area : 9,800 ha.
3. Kind of Survey : Detailed survey
4. a) Period of survey : April 1989- June 1989
b) No. of Villages covered : 47
5. Soil series mapped and area covered by each series.

S.No.	Soil Series	Sub-watersheds					Total area percent
		yf ¹ 2c	yf ¹ 2d	yf ¹ 2f	yf ¹ 2h	yf ¹ 2j	
1.	Khangna	321 (38.9)	1352 (60.1)	987 (39.9)	688 (31.6)	574 (27.7)	3922 (40.0)
2.	Kungunali	-	-	37 (1.5)	-	7 (0.3)	44 (0.4)
3.	Lakhawati	6 (0.7)	22 (1.0)	-	-	3 (0.1)	31 (0.4)
4.	Majhatli	205 (24.9)	354 (15.7)	200 (8.0)	186 (8.6)	165 (8.0)	1110 (11.3)
5.	Neruwa	275 (33.3)	437 (19.4)	490 (19.8)	80 (3.7)	120 (5.8)	1402 (14.3)
6.	Riyuni	-	-	-	325 (14.9)	58 (2.8)	383 (3.9)
7.	Thana	18 (2.2)	72 (3.2)	128 (5.2)	151 (6.9)	75 (3.6)	444 (4.5)
8.	Riyuni + Kungunali complex	-	13 (0.6)	633 (25.6)	745 (34.2)	1073 (51.7)	2464 (25.2)
Total:		825 (100.0)	2250 (100.0)	2475 (100.0)	2175 (100.0)	2075 (100.0)	9800 (100.0)

6. Area under different erosion classes

S.No.	Erosion classes.	Sub-watersheds					Total
		yf'2c	yf'2d	yf'2f	yf'2h	yf'2j	
		Area in ha.					
1.	Moderate	121 (14.7)	376 (16.7)	205 (8.3)	188 (8.6)	178 (8.6)	1068 (10.9)
2.	Severe	704 (85.3)	1874 (83.3)	2270 (91.7)	1987 (91.4)	1897 (91.4)	8732 (89.1)
Total :		825 (100.0)	2250 (100.0)	2475 (100.0)	2175 (100.0)	2075 (100.0)	9800 (100.0)

7. Land Capability Classes (Area in ha.)

S.No.	Land capability classes	Soil series	Area	Percentage
<u>ARABLE LANDS</u>				
1.	III	Lakhawati and Majhotli	1141	11.7
2.	IV	Thana	444	4.5
Sub-Total:			1585	16.2
<u>NON-ARABLE LANDS</u>				
1.	VII	Khagna	3922	40.0
2.	Forest Lands		4293	43.8
Sub-Total:			8215	83.8
Grand total:			9800	100.00

Salient features :

- (a) An area of 8732 ha. (89.1%) is severely eroded.
- (b) About 4293 ha. (43.8%) is under forest lands and needs soil and water conservation measures.
- (c) About 1585 ha. (16.2%) only of the total area is suitable for agriculture.
- (d) The area under shallow, moderately deep, moderately deep to very deep, deep and very deep soils have been found to be 3922 ha. (40.0%) , 2229 ha. (22.7%) 2464 ha (25.2%), 31 ha. (0.3%) and 1154 ha. (11.8%) respectively.