

Detailed soil survey and land use of  
Yk4d subwatershed Upper Yamuna (FPR)  
Tehsil, Barkot, Distt. Uttarkashi (U.P).

A B S T R A C T

1. Survey area : Yk4d subwatershed, Tehsil Barkot  
Distt. Uttarkashi, U.P.
2. Total area : 2350 hectares
3. Kind of survey : Detailed soil survey
4. Period of survey: June-July, 1990
5. Soil series mapped and area covered.

<u>S.No.</u>	<u>Name of the Series</u>	<u>Area (ha.)</u>	<u>Percentage</u>
1.	Balori	55	2.3
2.	Dhumkot	1169	49.7
3.	Khaproli	641	27.3
4.	Sirala	380	16.2
5.	Miscellaneous Land	105	4.5
TOTAL		2350	100.0

6. Land capability classes:

<u>Land capability classes</u>	<u>Soil Series</u>	<u>Area (ha.)</u>	<u>Percentage</u>
<u>(A) ARABLE</u>			
II Good Arable lands	Balori	55	2.3
IV Fairly good arable lands	Sirala	380	16.2
Sub-Total		435	18.5

(B) LAND NOT SUITABLE FOR CULTIVATION.

VII	Fairly well suited for grazing	Dhumakot Khaproli	1810	77.0
Sub-Total			1810	77.0

(C) MISCELLANEOUS LAND

1.	Under water (River and Nala bed)		61	2.6
2.	Miscellaneous (Habitation, path and road etc.)		.44	1.9
Sub-Total			105	4.5
GRAND TOTAL			2350	100.0

7. Erosion Inventory:

<u>Erosion Classes</u>	<u>Area (ha.)</u>	<u>Percentage</u>
1. Moderate erosion	848	36.1
2. Severe erosion	1397	59.4
3. Miscellaneous land	105	4.5
Total	2350	100.0

8. Distribution of area under different slope classes

<u>Slope Classes</u>	<u>Area (ha.)</u>	<u>Percentage</u>
1. Strongly sloping(10-15%)	55	2.3
2. Moderately steep(15-25%)	290	12.4
3. Steep slope (25-33%)	90	3.8
4. Steep to very steep(25-50%)	429	18.2
5. Very steep(33-50%)	641	27.3
6. Very steep to extremely (above 33%)	740	31.5
7. Miscellaneous land	105	4.5
Total	2350	100.0



9. Salient features and specific problems:

The four soil series were identified in the sub-watershed covering an area of 2350 ha. The subwatershed is subjected to the moderate to severe erosion hazards and an area of 1397 ha. (59.4) suffers from severe erosion. 1169 ha. of land is covered by very shallow to shallow soil and designated as waste land.

Out of the total area of 2350 ha. an area of 435 ha. is categorised as arable land. The arable land also suffers from moderate to severe erosion and covers an area of 2245 ha.

Out of the total 18.5% of land falls under arable and 77% of land is under waste land.