

Detailed Soil Survey of Ba6d, Ba6e, Ba7a and Ba7b
Sub-Watersheds, Beas Catchment Kangra, Distt. (H.P)

A b s t r a c t

1. Survey area: Ba6d, Ba6e, Ba7a and Ba7b subwatersheds
Beas Catchment, Kangra Distt. (H.P)

2. Total area mapped: 8698 hectares

3. Type of survey : Detailed

4. Soil series mapped and areas covered under each

<u>Sl. No.</u>	<u>Soil series</u>	<u>Area (ha)</u>	<u>Percentage</u>
1.	Jatoli	123	1.4
2.	Khal	86	0.9
3.	Kukahar	56	9.8
4.	Kuna	1259	14.5
5.	Mariyala	809	9.
6.	Sadwari	2343	27.0
7.	Ujher	2541	29.2
8.	Misc. Land	681	7.8
<u>Total</u>		<u>8698</u>	<u>100.0</u>

6. Land capability classes with areas under each class

<u>Capability class</u>	<u>Area (ha)</u>	<u>Percentage</u>
II	2795	32.2
III	594	6.8
IV	43	0.5
VII	191	2.2
Management Forest classification	4394	50.5
Misc. Land	681	7.8
<u>8698</u>		<u>100.</u>

7. Erosion inventory

<u>Erosion classes</u>	<u>Area in ha</u>	<u>Percentage</u>
e1	2859	32.9
e2	2066	23.8
e3	3092	35.5
Misc. Land	681	7.8
<u>8698</u>		<u>100.0</u>

8. Depth phases

<u>Depth classes</u>	<u>Area (ha)</u>	<u>Percentage</u>
d2	856	9.8
d2-3	976	11.2
d3	410	4.7
d4	5164	59.4
d5	615	7.1
Misc. land	681	7.8
<u>8698</u>		<u>100.0</u>

Salient Features

- (a) Nearly 41.6% (3623 ha) of the area is under cultivation of which 21.0% has moderate to severe erosion problems. About half of the surveyed area is under forest and need better silvicultural management.
- (b) Major soil series are Sadwan and Ujber which covers 56.2% of the surveyed area. Sadwan series is predominant in Ba6d and Ba6e subwatersheds where as the Ujber series occupies major portions in Ba7a and Ba7b subwatersheds.
- (c) Nearly 59.4% of the total area is under deep soils, i.e., having depth between 50 to 100 cm.
- (d) Nearly 35.5% of the area is prone to severe erosion hazards, of which maximum area falls in Ba7b and Ba7a subwatersheds.
- (e) 23.8% of the surveyed area is suffering from moderate erosion hazards and is concentrated in Ba6d subwatershed.
- (f) Kukabhar Kuna and Ujber series are more prone to moderate and severe erosion in these subwatersheds