

DETAILED SOIL SURVEY AND LAND USE OF Tb2d, Tb3a and Tb3b SUBWATERSHEDS OF THIEN R.V.P. CATCHMENT . TEHSIL BHATIYAT & SUB TEHSIL DALHOUSIE, DISTRICT CHAMBA HIMACHAL PRADESH.

ABSTRACT

1. Surveyed area :
 - a. Hydrologic Units : Tb2d, Tb3a & Tb3b sub-watersheds, Thien R.V.P. Catchment.
 - b. Administrative details : Tehsil Bhatiyat & Sub-tehsil Dalhousie, Distt. Chamba (H.P.)
 - c. Geographical details : Latitudes: 32°-30' to 32°-36'N
Longitudes: 75°52' to 75°-56'E.
2. Total area : 4000 ha.
3. Kind of survey : Detailed soil survey
4. Period of survey : May, 93 to July'93.

5:- Extent of Soil Series mapped under different subwatersheds and their percentage.

S.No.	Name of the series	Subwatersheds			Total area in ha.	percentage
		Tb2d	Tb3a	Tb3b		
1.	Basa	-	79	72	151	4.0
2.	Chanani	97	-	13	110	2.7
3.	Gorala	7	-	30	37	0.9
4.	Kondeh	-	-	38	38	0.9
5.	Ravi	808	826	530	2164	54.1
6.	Sainur	167	19	324	510	12.7
7.	Ulansa	26	72	86	184	4.6
	Misc. R.O.C.	20	85	49	154	3.8
	severely gullied	308	212	-	520	13.0
	River/Nala	42	57	33	132	3.3
Total					4000	100.0

6. Land Capability Units under different Soil Series

S.No.	Land Capability	1	2	3	4	5	6.	7.	Total area in ha.	Per- centage
		Basa(B)	Chanani	Gorala	Kandeh	Ravi	Sainu	Ulansa		
1.	IIIe-1	151	35	-	-	-	-	-	186	4.6
2.	IVe-1	-	75	37	38	-	-	-	150	4.0
3.	IVe-2	-	-	-	-	-	-	184	184	4.6
4.	F1	-	-	-	-	2164	510	-	2674	66.8
Sub total		151	110	37	38	2164	510	184	3194	
5.	G4 lands (Severely gullied)								520	13.0
6.	R.O.C.								154	4.0
7.	Under water								132	3.0
Grand Total									4000	100.0

7. Erosion Inventory

<u>S.No.</u>	<u>ERosion</u>		<u>Area in ha.</u>	<u>Percentage</u>
1.	None to slight	e1	Nil	-
2.	Moderate	e2	336	8.4
3.	Severe	e3	2858	71.4
4.	Very severe (G4) (GG)	e4	220	13.0
	Miscellaneous land R.O.C./under water Habitatons, etc.		286	7.2
		Total	4000	100.0

8. Salient features

- Nearly (71.4%) of the total area suffers from severe erosion.
 - About 57% of the surveyed area is covered by very shallow to shallow soils.
 - An area of 2674 hectare (66.4%) is under forest and/or grass land.
 - Only 10.7% of the total area is suitable for arable use.
- Soils of the survey area are dominant by gravelly texture.