

Detailed Soil Survey of part of Kiongal Nadi and Kanda Nal  
(Snla and Snlb Sub-watersheds) Sutlej R.V.P. Catchment  
Tehsil Kumar Sain, Distt: SHIMLA (H.P.)

A B S T R A C T

1. Survey area : Part of Kiongal Nadi and Kanda Nal  
(Snla, Snlb Sub-watersheds)  
Sutlej R.V.P. Catchment,  
Tehsil Kumar Sain, Distt: Shimla (HP)  
  
Latitudes:  $31^{\circ}-16'$  to  $31^{\circ}-22'$   
Longitudes:  $77^{\circ}-21'$  to  $77^{\circ}-27'$
2. Total area : 4623 hectares
3. Period of Survey : May to July 1989
4. Type of Survey : Detailed Soil Survey

5. Soil series mapped and area covered under each series

S.No.	Name of the Soil series	Total	Sub-watersheds (Area in ha.)	
			Si la	Si lb
1.	Behna	37 (0.8%)	24 (1.2%)	13 (0.5%)
2.	Dalash	1068 (23.1%)	312 (15.0%)	756 (29.7%)
3.	Kanda	1175 (25.4%)	685 (33.0%)	490 (19.4%)
4.	Ruhni	121 (2.6%)	-	121 (4.7%)
5.	Sano ti	2061 (44.6%)	937 (45.2%)	1124 (44.0%)
Sub-Total		4462 (96.5%)	1958 (94.4%)	2504 (98.3%)
6.	Water Bodies	133 (2.9%)	105 (5.0%)	28 (1.1%)
7.	Misc.	28 (0.6%)	12 (0.6%)	16 (0.6%)
Sub-total:		161 (3.5%)	117 (5.6%)	44 (1.7%)
Grand Total :		4623 (100%)	2075 (100%)	2548 (100%)

6. Area under different land capability classes

S.No.	Land capability class	Sub-watersheds (Area in ha.)		Total area (%)
		SN1a (%)	SN1b (%)	
1.	II	802 (38.7%)	1049 (41.2%)	1851 (40.0%)
2.	III	159 (7.7%)	209 (8.2%)	368 (8.0%)
3.	VII	685 (33.0%)	490 (19.2%)	1175 (25.4%)
4.	Under Forest	312 (15.0%)	756 (29.7%)	1068 (23.1%)
	Sub-total:	1958 (94.4%)	2504 (98.3%)	4462 (96.5%)
5.	Water Bodies	105 (5.0%)	28 (1.1%)	133 (2.9%)
6.	Misc.	12 (0.6%)	16 (0.6%)	28 (0.6%)
	Sub-total:	117 (5.6%)	44 (1.7%)	161 (3.5%)
	Grand Total:	2075 (100%)	2548 (100%)	4623 (100%)

## 7. Area under different Erosion phases

S.No.	Erosion class	Sub-watersheds (Area in ha.)		Total area (%)
		SN1a (%)	SN1b (%)	
1.	Moderate	1157 (55.8%)	2184 (85.7%)	3341 (72.3%)
2.	Severe	801 (38.6%)	320 (12.6%)	1121 (24.2%)
Sub-Total:		1958 (94.4%)	2504 (98.3%)	4462 (96.5%)
3.	Water Bodies	105 (5.0%)	28 (1.1%)	133 (2.9%)
4.	Misc.	12 (0.6%)	16 (0.6%)	28 (0.6%)
Sub-total:		117 (5.6%)	44 (1.7%)	161 (3.5%)
Grand Total:		2075 (100%)	2548 (100%)	4623 (100%)

