

REPORT ON DETAILED SOIL SURVEY OF HALOG (Sg2d)  
AND BALAL (Sg2e) SUBWATERSHEDS SUTLEJ R.V.P. CATCHMENT,  
SIMLA AND SUNI TEHSILS, SIMLA DISTRICT, HIMACHAL PRADESH

ABSTRACT

1. Survey area : Halog ( Sg2d) and Balal (Sg2e) sub-watersheds, Sutlej RVP catchment, Simla and Suni Tehsils, Himachal Pradesh.
2. Total area : 5409 hectares
3. Kind of survey : Detailed soil survey
4. Period of survey : Nov. 1975 to June 1976
5. Extent of areas under different soil series

Name of soil series	Area in ha		Total	Percentage
	Subwatersheds			
	Sg2d	Sg2e		
1. Arlot	198	16	214	4.0
2. Delag	266	281	547	10.0
3. Ghancheri	91	1499	1590	29.4
4. Kayaribag	519	13	532	9.8
5. Narhana	1374	-	1374	25.4
6. Ratanpur	81	41	122	2.3
7. Sharog	36	389	425	7.9
8. Shali	68	537	605	11.2
Total	2633	2776	5409	100.0

6. Acreeges under different land capability classes

Land capability unit	Arable land		Total	Percentage	Series
	Area in ha				
	Subwatershed	Sg2d			
IIe-1	20	386	406	7.5	Shali
IIIe-1	48	151	199	3.7	Shali
IIIes-1	45	171	214	3.7	Arlot
IIIes-2	404	54	458	8.8	Kayaribag, Ratanpur
IVes-1	191	234	425	7.8	Arlot, Sharog
IVes-2	196	-	196	3.6	Kayaribag
Total	902	996	1898	35.1	

Non-arable land

Land capability unit	Area in ha.		Percentage	Series
	Subwatershed			
	Sg2d	Sg2e		
VIIes41	1731	1780	64.9	Delag, Ghencheri, Narhana
Grand Total	2633	2776	100.0	

7. Acreeages under different erosion phases

Erosion phases	Area in ha		Total	Percent
	Subwatershed			
	Sg2d	Sg2e		
Slight	81	28	109	2.0
Moderate	1773	1763	3536	65.4
Severe	779	985	1764	32.6
Total	2633	2776	5409	100.0

8. Salient features and watershed problems

- (a) Of the total area of 5409 hectares, only 1898 ha (35.1%) area is suitable for agricultural use.
- (b) Both subwatersheds are suitable for grassland and forestry development ( 3511 ha; 64.9%).
- (c) Moderate erosion is very common (65.4%), while severe erosion is spread over 32.6 percent area.
- (d) Most of the areas have steep to very very steep slopes. Gently to moderately sloping area cover only 3.6 percent of the total watershed area.
- (e) Nearly 64.8 percent area is unterraced on account of shallow soils and very steep slopes.
- (f) About 11.2 percent area is suitable for paddy cultivation.
- (g) These subwatersheds have moderately high to high runoff yielding soils.
- (h) Only 7.5 percent of the area has moderately suitable soil and lands for developing into irrigated agriculture.