

REPORT ON DEMARCATION OF PRIORITY SUBWATERSHEDS IN
THE CATCHMENT OF SUTLEJ RIVER VALLEY PROJECT,
(FROM GOVIND SAGAR DAM TO WANGTHU), HIMACHAL PRADESH.

A B S T R A C T

1. Survey area : Sutlej RVP Catchment (from Govind Sagar Dam to Wangthu), Himachal Pradesh.
2. Total area : 602236 hectares
3. (a) Kind of survey : Rapid reconnaissance survey
(b) Period of survey : March, 1976 to June, 1976
4. Extent of areas under different erosion intensity mapping units

| <u>Mapping units</u> | <u>Area in ha (%)</u> | | <u>Mapping units</u> | <u>Area in ha (%)</u> | |
|----------------------|-----------------------|------|----------------------|-----------------------|--------|
| A. | 8086 | 1.34 | J | 19206 | 3.19 |
| B. | 3802 | 0.63 | K | 32428 | 5.38 |
| C | 576 | 0.10 | M | 24930 | 4.14 |
| D | 13121 | 2.18 | N | 5452 | 0.90 |
| D1 | 1220 | 0.20 | P | 2461 | 0.41 |
| E | 6320 | 1.05 | R | 84967 | 14.11 |
| F | 836 | 0.14 | S | 158735 | 26.36 |
| G | 9406 | 1.56 | T | 162604 | 27.00 |
| H | 36882 | 6.13 | V | 31204 | 5.18 |
| Total | | | | 602236 | 100.00 |

5. (a) Catchment - Part of Sutlej Catchment
(b) Subcatchments - 15
(c) Watersheds - 42
(d) Subwatersheds - 298

6. Priority classification of watersheds

| | <u>Grading</u> | <u>No. of watersheds</u> | <u>Area in ha</u> | <u>Percentage</u> |
|-----|----------------|--------------------------|-------------------|-------------------|
| (a) | Very high | 85 | 157662 | 26.18 |
| (b) | High | 54 | 105738 | 17.56 |
| (c) | Medium | 85 | 162621 | 27.00 |
| (d) | Low | 31 | 71523 | 11.88 |
| (e) | Very low | 43 | 104692 | 17.38 |
| | | 298 | 602236 | 100.00 |

7. Salient features

- a. Broadly, 43.7% of the total surveyed area falls under very high and high priority.
- b. Very high and high priority areas appear to have been concentrated in Se, Sf and Sd subcatchments and occupy 93.0, 89.6 and 65.4% of their total areas, respectively.
- c. These subcatchments are formed by Alsed K, Banha K., Kandhi K., Ghadia K., (Sf); Alikhad, Gamrola K., Badai K. Tangru K (Se) and Gambhar river (Sd) and needs proper soil conservation planning.
- d. Nearly 2/3 of the catchment area is under grasslands and open forest, and cultivated lands, with about 29.6% area under forest.
- e. High relief in about 94.6% area yields high to very high runoff , helps transportation and deliver more sediments to the dam site.

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