

REPORT ON DEMARCATION OF PRIORITY SUBWATERSHEDS IN THE CATCHMENT
OF GIRI-BATA RIVER VALLEY PROJECT, HIMACHAL PRADESH.

ABSTRACT

1. Survey area : Giri-Bata RVP catchment, Himachal Pradesh.
2. Total area : 265927 hectares.
3. (a) Kind of survey : Rapid Reconnaissance survey.
(b) Period of survey: March, 1978 to June, 1978.
4. Extent of areas under different erosion intensity mapping units.

Mapping units	Area (ha)	Percent	Mapping units	Area (ha)	Percent
A	5458	2.1	J	853	0.3
B	5956	2.2	K	3890	1.5
C	3108	1.2	L	80062	30.1
D	3985	1.5	M	89710	33.7
E	4162	1.6	N	723	0.3
F	8900	3.3	P	47944	18.0
H	8401	3.2	R	2775	1.0
Total			265927		100.0

5. (a) Catchment - Giri and Bata catchment
(b) Subcatchment - 7
(c) Watersheds - 20
(d) Subwatersheds- 152

6. Priority classification of subwatersheds

<u>Grading</u>	<u>No. of subwatersheds</u>	<u>Area(ha)</u>	<u>Percent</u>
a. Very High	46	77832	29.3
b. High	27	40874	15.4
c. Medium	33	59928	22.5
d. Low	24	44832	16.9
e. Very low	22	42461	15.9
Total	152	265927	100.0

7. Salient features

- a. Broadly, 44.6 percent of the total Giri-Bata catchment area falls under very high and high priority.
- b. Very high and high priority areas appear to have been concentrated in the Gb, Ga, Gd and Gc subcatchments in the decreasing order.
- c. Nearly 77.8 percent of the catchment area is under forest and grasslands, and cultivated lands cover about 22.2 percent. Medium thick forest extend over 40.9 percent area.
- d. About 67 percent of the catchment area is prone to occasional landslips, etc.
- e. Nearly, 37.2 percent of the area has severe erosional problems.
- f. About 91 percent of the area has moderately high to high runoff potential which helps transportation and delivery of more sediment to the Giri barrage.