

REPORT ON THE DEMARCATION OF PRIORITY SUBWATERSHEDS
IN THE FPR CATCHMENT OF UPPER YAMMUNA RIVER,
HIMACHAL PRADESH AND UTTAR PRADESH.

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A B S T R A C T

1. Surveyed area - Upper part of Yamuna catchment
Himachal Pradesh.
2. Total area - 298950 ha.
3. Period of survey - October to November 1985
4. Kind of survey - Rapid Reconnaissance
5. Agro Climatic Region - Upper Gangetic Plain region
6. Extent of areas under different erosion intensity mapping units:

<u>S.No.</u>	<u>Mapping Unit</u>	<u>Area in ha.</u>	<u>Percentage</u>
1.	I1	16025	5.4
2.	M1	19475	6.5
3.	M2	7550	2.5
4.	M3	15775	5.3
5.	P1	91375	30.6
6.	P2	120500	40.3
7.	U1	21200	7.1
8.	U2	7050	2.3
		298950	100.00

7. Catchment - Upper part of Yamuna river
 - (a) Sub-catchment - 3
 - (b) Watersheds - 12
 - (c) Subwatersheds - 95

8. Base material - Survey of India topographical maps on 1:50000 scale.

9. Distribution of area under different priorities:

<u>S.No.</u>	<u>Priority Category</u>	<u>Average Potential runoff range</u>	<u>No. of Subwater-sheds</u>	<u>Area in ha.</u>	<u>Percentage</u>
1.	Very high	75 and above	34	110225	36.9
2.	High	65-74	56	172175	57.6
3.	Medium	55-64	2	5800	1.9
4.	Low	50-54	2	7400	2.5
5.	Very low	below 50	1	3350	1.1
TOTAL			95	298950	100.0

10. Salient features:

1. Of the total area of upper yamuna river catchment an area of 110225 ha (36.9%) fall under very high and 172175 ha. (57.6%) high priority categories.
2. Very high and high priority subwatersheds are intrinsically distributed in all subcatchments.
3. Forest is a dominant land use (78.7%) followed by cultivated land (11.9%) whereas, the grassland (7.1%) and glacier(2.3%).
4. A large chunk of land(88.1%) suffers from severe gully erosion problems and also susceptible to landslides and slips. The rest of 11.9% area suffers from slight to moderate erosion.
5. Nearly 94.6% area has more than 15% slope gradients.
6. Around 76% of the area posses shallow to moderately deep soils where as 5.4% area is under deep to very deep category 9% under moderately deep and 7% under very shallow.