

REPORT ON DEMARCATION OF PRIORITY SUBWATERSHEDS IN THE
CATCHMENT OF A PART OF UKAI RIVER VALLEY PROJECT,
MADHYA PRADESH AND MAHARASHTRA STATE.

A B S T R A C T

- 1- Survey area :- Part of Ukai RVP catchment (Tapi River)-Us, Ut and Uu subcatchments, Dist. Khargon, Khandwa, Betul and Hoshangabad (M.P.) and Amraoti, Buldhana and Jalgaon (M.S.)
- 2- Type of Survey :- Rapid Reconnaissance survey for identification of priority subwatersheds.
- 3- Base material :- Survey of India toposheet (1:63,360) and aerial photographs (1:15,000)
- 4- Total area surveyed and mapped :- 12,73,279 ha.
- 5- Period of Survey :- November 1979 to December, 1983
- 6- Extent of areas under different erosion intensity units.

Mapping unit	Area in ha.	% age	Mapping unit	Area in ha	% age
A	74,153	5.8	L	86,904	6.8
A1	95,980	7.5	M	75,358	5.9
B	1,69,451	13.3	N	18618	1.5
C1	23,237	1.8	P	24,418	1.9
D	10,007	0.8	Q	19,405	1.2
E	1,13,943	9.0	R	40,119	3.1
E1	2,00,127	15.7	S	26,061	2.0
F	9,686	0.8	V	10,698	0.8
G	87,249	6.9	W	21,416	1.7
H	63,177	5.0	X	3840	0.3
J	9,784	0.8	TANK	2302	0.2
J1	18,422	1.5	TOTAL	12,73,279	100.0
K	72,924	5.7			

7- HYDROLOGIC CODIFICATION

- a) Catchment - Part of Ukai R.V.P. Catchment (Tapri)
 b) Subcatchment - 3 (Us, U₁, U₂)
 c) Watersheds - 21
 d) Sub-Watersheds - 334

8- Gradation of priority subwatersheds :

Sr. No.	Priority Category	Silt Yield index range	No. of Subwatersheds	Area (ha)	% of total area
1	Very high	1250 and above	2	3407	0.3
2	High	1150 - 1249	1	4516	0.4
3	Medium	1050 - 1149	24	73523	5.8
4	Low	950 - 1049	101	398873	31.3
5	Very low	Below 950	206	792960	62.2
TOTAL			334	12,73,279	100.0

9- Priority categorization (Area falling in Madhya Pradesh)

Sr. No.	Priority Category	No. of Sub-Watersheds	Area (ha.)	%
1	Very high	-	-	-
2	High	-	-	-
3	Medium	9	29,237	3.9
4	Low	38	1,50,623	20.2
5	Very Low	145	5,66,176	75.9
Total		192	7,46,036	100.0

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10- Priority categorization (Area falling in Maharashtra State)

Sr. No.	Priority Category	No. of Sub-Watersheds	Area (ha)	%
1.	Very high	2	3,407	0.6
2.	High	1	4,516	0.9
3.	Medium	15	44,236	8.4
4.	Low	63	2,48,250	47.1
5.	Very Low	61	2,26,734	43.0
TOTAL		142	5,27,243	100.00

N.B. Seven sheets of Soil maps (1:63,360) are enclosed as per details below.

Sheet No. 1A, 1B, 2, 3, 4, 5, 6 (Total Seven Sheets.)

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