

REPORT ON DEMARCATION OF PRIORITY SUBWATERSHEDS IN
THE CATCHMENT OF SONE, ABOVE BANSAGAR DAM,
MADHYA PRADESH.

ABSTRACT

1. Survey area : Ban Sagar catchment (Sone) below the confluence of Jhilla and Sone River, Jabalpur, Rewa, Mandla, Satna and Shahdol districts M.P.
2. Location 23° to 24°17' N Latitudes
80° to 81°44' E longitudes
3. Total area 8,27,888 ha.
4. Period of Survey : Dec., 1981 to May, 1983
5. Type of Survey : Rapid Reconnaissance Survey
6. Base material : Toposheets 1:50,000
7. Runoff potential mapping units and their extent.

S.No.	Runoff potential mapping unit.	Area in ha.	Percentage
1.	A	7663	0.9
2.	A1	14024	1.7
3.	A2	38175	4.6
4.	B	12787	1.5
5.	C	25372	3.1
6.	D	131250	15.8
7.	D1	166738	20.1
8.	D2	13812	1.7
9.	D3	14513	1.8
10.	E	1500	0.2
11.	E1	1414	0.2
12.	E2	4362	0.5
13.	F	38751	4.7
14.	F1	11975	1.5
15.	G	118299	14.3
16.	G1	51214	6.2
17.	H	22162	2.7
18.	J	9900	1.2
19.	K	15200	1.8

20.	K1	13102	1.6
21.	L	62875	7.6
22.	L1	27625	3.3
23.	L2	20850	2.5
River		1838	0.2
Tank		812	0.1
Habitation		1675	0.2
TOTAL		<u>8,27,888</u>	<u>100.0</u>

8. Hydrologic Division :

- (a) Catchment : Some catchment below the confluence of Johilla river with Sone.
- (b) Subcatchment - 10 (Ba, Bb, Bc, Bd, Bf, Bg, Bh, Bj, Bk and Bm)
- (c) Watersheds - 53
- (d) Subwatersheds - 424

9. Soil Erosion

S.No.	Erosion class	Area in ha.	Percentage
1.	Slight to none	61114	7.4
2.	Moderate	221739	26.8
3.	Moderate to Severe	160836	19.4
4.	Severe to very severe	379874	45.9
5-	Miscellaneous land	4325	0.5
		<u>827888</u>	<u>100.00</u>

10. Priority classification :

Priority category	Runoff Potential Index range	No. of subwatersheds	Area in ha.	Percentage
Very high	Above 65	54	101,850	12.3
High	60-64	132	250,838	30.3
Medium	55-59	135	262,450	31.7
Low	50-54	82	171,550	20.7
Very low	Below 50	21	41,200	5.0
		<u>424</u>	<u>8,27,888</u>	<u>100.0</u>