

REPORT ON DEMARCATION OF PRIORITY SUB-WATERSHEDS  
IN THE CATCHMENT OF SONE ABOVE THE CONFLUENCE OF  
JOHILLA AND SONE RIVERS, MADHYA PRADESH.

A B S T R A C T

1. Survey area - Ban Sagar dam(SONE II Part)above confluence of Johilla and Sone River, Sahdol, Bilaspur, Mandla and Surguja district of Madhya Pradesh.
2. Location -  $22^{\circ}-35'-23^{\circ}-40N$ ,  $80^{\circ}-48'-82^{\circ}-15'E$
3. Total area - 952600 ha.
4. Period of survey - 1982-1983.
5. Type of Survey - Rapid Reconnaissance survey.
6. Base material - Toposheets 1:50,000 scale
7. Runoff potential mapping units and their extent.

S.No.	Runoff potential mapping units.	Area in ha.	Percent- age.
1.	A	1925	0.2
2.	A1	2650	0.3
3.	A2	66300	6.9
4.	B	11026	1.1
5.	C	4487	0.5
6.	D	233549	24.5
7.	D1	177400	18.7
8.	D2	10800	1.1
9.	D3	10300	1.1
10.	G	139213	14.6
11.	G1	44300	4.7
12.	H	41338	4.3
13.	K	8087	0.8
14.	K1	8200	0.9
15.	L	71325	7.5
16.	L1	13200	1.4

17.	L2	64925	6.8
18.	M	2963	0.3
19.	N	9137	1.0
20.	P	13100	1.4
21.	P1	9775	1.0
22.	River	8450	0.8
23.	Tamb	150	0.1
		952600	100%

8. Hydrologic Division:

- (a) Catchment - Sone catchment above the confluence of Johilla river with sone river.
- (b) Sub-Catchment - 5(Bn, Bp, Bq, Br, Bs)
- (c) Watersheds - 32
- (d) Sub-watersheds - 408

9. Soil erosion.

<u>S.No.</u>	<u>Erosion Class</u>	<u>Area inha.</u>	<u>%age.</u>
1.	Slight to none	53437	5.6
2.	Moderate	277800	29.1
3.	Moderate to severe	205513	21.6
4.	Severe	388313	40.8
5.	Severe to very severe	10737	4.1
6.	Very severe	8200	0.9
7.	Miscellaneous (River Tank)	8600	0.9
Total		952600	100%