

REPORT ON THE DEMARCATION OF PRIORITY  
SUBWATERSHEDS IN THE CATCHMENT  
OF MAHI STAGE II (KADANA)  
RIVER VALLEY PROJECT  
RAJASTHAN.

A B S T R A C T

1. Surveyed area : Mahi Stage II (Kadana) RVP,  
Catchment, Rajasthan.
2. Reported area : 10,33,080 hectares.
3. Kind of survey : Priority delineation survey.
4. Period of survey : November, 1978 - March, 1979.
5. Extent of areas under different erosion intensity  
mapping units.

Mapping Units	Area in ha.	Percentage	Mapping units	Area in ha.	Percentage
A	2,00,520	19.4	E	88,220	8.5
B	2,32,600	22.6	F	11,720	1.1
C	70,960	6.9	G	27,860	2.7
C1	1,74,400	16.9	H	41,420	4.0
C2	19,580	1.9	J	21,140	2.0
C3	1,920	0.2	K	7,120	0.7
D	1,30,540	12.6	Z	5,080	0.5
			Total	10,33,080	100.0

6. Hydrologic division :

- (a) Catchment : Mahi Stage II (Kadana)
- (b) Subcatchment : 8, Mf to Mp (Mi and Ml code not used)
- (c) Watersheds : 39
- (d) Sub-watersheds : 351

7. Area under different land use.

Land Use	Area in ha.	Percentage
1. Cultivated land	364480	35.3
2. Medium to thick forest	260460	25.2
3. Open scrub, grassland etc.	408180	39.5
Total	10,33,080	100.0

8. Area under different land scape.

- 1. Aravalli Land scape 918740 ha. 88.9%
- 2. Basaltic Land scape 114340 ha. 11.1%

9. Priority classification.

Priority category	Sediment yield index range.	No. of subwatersheds.	Area in ha.	Percentage.
Very high	Above 1300	3	8000	0.8
High	1200 - 1299	11	31560	3.1
Medium	1100 - 1199	57	184160	17.8
Low	1000 - 1099	83	244160	23.6
Very low	below 1000	197	565200	54.7
Total		351	1033080	100.0

10. Salient features.

1. About 3.9% of the total catchment area under report falls under very high and high priority.
2. Most of the very high priority area is confined to Mg subcatchment only.
3. Of the total area 35.3%, 25.2% and 39.5% is under cultivation, forest and open scrub, grazing and grass land, respectively.
4. Aravalli landscape occupies 88.9% of the total area while, Basaltic landscape has only 11.1% area.
5. The old reservoir of Jay Samund forms dist: entity, hence, its catchment is given an independant status with separate abstract and priority list to enable planners for soil conservation planning.