

REPORT ON DEMARCATION OF PRIORITY SUBWATERSHEDS IN
BARAK CATCHMENT (ABOVE TIPAIMUKH DAM), MANIPUR STATE

A B S T R A C T

1. Survey area : Part of Barak catchment (above Tipaimukh dam),
Manipur state

2. Total area of Barak catchment in India :

State	Area (lakh ha) of the whole catchment	Area (lakh ha) of the catchment above Tipaimukh dam
1. Manipur	10.54	9.81
2. Mizoram	9.34	2.50
3. Nagaland	0.68	0.68
4. Assam	8.60	-
5. Tripura	0.30	-
	<u>29.46</u>	<u>12.99</u>

3. Area under report : 7,50,244 ha

4. Extent of areas under different erosion intensity mapping units :

Mapping units	Brief description	Area (lakh ha)	%
A	Flood plain; predominantly moderate ly deep loamy soils; dense forests.	(Occurs outside the catchment of Tipaimukh dam)	
B	Flood plain; very deep, hydromorphic loamy soils; paddy lands.	0.94	12.6
C	Low hills; moderately deep, coarse loamy soils; thin forest.	(As in case of MA)	
D	Flat topped, gently sloping low hills; very deep, fine textured soils; forests; large scale jhooming.	1.20	15.9
E	Piedmont plain; deep, fine loamy soils; forest; high jhooming intensity.	0.26	3.6
F	Medium high hills, 10-33% slope; moderately deep, loamy soils; severe erosion; slips, slides, jhooming.	4.41	58.7
G	High hills, 15-33% slope; shallow, moderately deep loamy skeletal soils; forest; slides, slips, jhooming.	0.68	9.2

5. Hydrologic units :

a. Catchment : Barak (Manipur State)

b. No. of subcatchments and their order of priority :

1. Bb (Main Barak)
2. Br (Irang)
3. Bt (Tuivai)

c. No. of watershed and their inter se priorities :

- | | | | |
|--------|--------|---------|---------|
| 1. Bb4 | 5. Bb7 | 9. Bb2 | 13. Bb8 |
| 2. Bb6 | 6. Bt6 | 10. Br5 | 14. Br2 |
| 3. Bb3 | 7. Bt4 | 11. Br1 | 15. Bt7 |
| 4. Br3 | 8. Bb1 | 12. Br4 | 16. Bt8 |

d. No. of subwatersheds : 229

6. Very highly and highly problematic areas :

<u>Problem</u>	<u>No. of sub watersheds</u>	<u>Total ar (lakh ha)</u>
1. Very highly and highly eroding: Sedimentation of reservoir	143	4.70
2. Very highly and highly eroding: with large scale jhooming : Sedimentation of reservoir, destruction of forests, attendant socio-economic problems	145	4.84
3. High run off - low recharge, floods in the lower reaches	137	4.47
4. All the problems noted above	84	2.75
