

Report on Prioritisation of Micro-Watersheds of 3C2B(Part), 3C2F(Part), 3D1A(Part) and 3D1B(Part), Sub catchments of Brahmaputra Basin, Aizawl, Kolasib, Serchhip and Champhai Districts of Mizoram

Abstract

1. **Survey Area** : 3C2B(Part), 3C2F(Part), 3D1A(Part) and 3D1B(Part), Subcatchments of Brahmaputra Basin, Aizawl, Kolasib, Serchhip and Champhai districts of Mizoram
2. **Total Area** : 8,39,925ha
3. **Location** : 23⁰ 0' to 24⁰ 31' N Latitude
92⁰ 40' to 93⁰ 26' E Longitude
4. **Agroclimatic Zone** : Eastern Himalayan Region (II) as per Planning Commission
5. **Kind of Survey** : Priority Delineation Survey using Remote Sensing Technique
6. **Period of Survey** : November 2000 to March 2001
7. **Base Material Used** : a) IRS 1D Geocoded Satellite Imagery (1:50,000 scale)
b) Survey of India Toposheet (1:50,000 scale)

8. Extent of Area under Different Erosion Intensity Mapping Units

Sl. No.	EIMU	Weightage Value	Delivery Ratio	Area (ha)	%
1.	A01	11	0.57	1938	0.23
2.	A02	14	0.61	5398	0.64
3.	S01	16	0.78	2224	0.26
4.	S02	16	0.70	5065	0.60
5.	S03	16	0.80	384659	45.80
6.	S04	18	0.86	159984	19.05
7.	S05	16	0.73	11108	1.32
8.	S06	20	0.82	25112	2.99
9.	S07	16	0.73	32170	3.83
10.	S08	24	0.97	186967	22.26
11.	S09	23	0.90	17845	2.12
12.	HA			3722	0.44
13.	RI			3733	0.44
Grand Total				839925	100.00

9. District-wise Extent of Area under Different Mapping Units

Sl.No.	EIMU	Aizawl		Champhai		Kolasib		Serchhip		Total Area (ha.)	%
		Area (ha.)	%	Area (ha.)	%	Area (ha.)	%	Area (ha.)	%		
1	A1	224	0.07	343	0.11	1300	1.65	71	0.05	1938	0.23
2	A2	17	0.01	3487	1.09	0	0.00	1894	1.43	5398	0.64
3	S1	474	0.15	667	0.21	690	0.88	393	0.30	2224	0.26
4	S2	1196	0.39	180	0.06	3324	4.23	365	0.27	5065	0.60
5	S3	177567	57.31	106916	33.56	44431	56.49	55745	41.97	384659	45.80
6	S4	37477	12.09	98216	30.83	1830	2.33	22461	16.91	159984	19.05
7	S5	4650	1.50	551	0.17	1934	2.46	3973	2.99	11108	1.32
18	S6	4265	1.38	11030	3.46	95	0.12	9722	7.32	25112	2.99
19	S7	9278	2.99	1349	0.42	19813	25.19	1730	1.30	32170	3.83
10	S8	66264	21.39	87514	27.47	3189	4.05	30000	22.59	186967	22.26
11	S9	5622	1.81	5740	1.80	1673	2.13	4810	3.62	17845	2.12
12	HA	1227	0.40	1093	0.34	256	0.33	1146	0.86	3722	0.44
13	RI	1601	0.52	1497	0.47	123	0.16	512	0.39	3733	0.44
Grand Total		309862	100.00	318583	100.00	78658	100.00	132822	100.00	839925	100.00

10. Priority Categories

Sl. No.	Priority Category	No. of Micro-watersheds	Area (ha)	%
1.	Very High (1300 and above)	1323	741936	88.34
2.	High (1200-1299)	168	74348	8.85
3.	Medium (1100-1199)	46	22141	2.64
4.	Low (1000-1099)	4	1213	0.14
5.	Very Low (Below 1000)	1	287	0.03
Grand Total		1542	839925	100.00

11. District-wise Area under Different Priority Category

Sl. No.	Priority Category	Aizawl		Champhai		Kolasib		Serchhip		Grand Total	%				
		No of M/W		Area		No of M/W		Area							
		Full	Part	Full	Part	Full	Part	Full	Part						
1.	Very High	408	12	271417	624	7	309706	66	1	31005	209	12	129808	741936	88.33
2.	High	66	0	35390	22	1	8077	72	0	28099	7	1	2782	74348	8.85
3.	Medium	5	0	3055	2	0	800	38	0	18054	1	0	232	22141	2.64
4.	Low	0	0	0	0	0	0	4	0	1213	0	0		1213	0.14
5.	Very Low	0	0	0	0	0	0	1	0	287	0	0		287	0.03
Total		479	12	309862	648	8	318583	181	1	78658	217	13	132822	839925	100.00

12. Watershed-wise Area under Different Priority Category

Watershed No.	Area Covered under different Priority Category(ha)					Total Area(ha)
	Very High	High	Medium	Low	Very Low	
3C2B2	14150	18498	16865	1213	287	51013
3C2B3	2770	4584	334			7688
3C2B4	52539	23846	3910			80295
3C2B5	106392	3063				109455
3C2B6	8238	6867				15105
3C2F1	102154	3063	322			105539
3C2F2	27152	4548				31700
3C2F3	58347	3671				62018
3C2F5	35478	1590				37068
3D1A6	29919	649	232			30800
3D1B2	64259	805				65064
3D1B3	72432	1596				74028
3D1B4	11150					11150
3D1B5	100704	1568	478			102750
3D1B6	56252					56252
Total	741936	74348	22141	1213	287	839925