

Report on Prioritisation of Micro-watersheds of 3C2A Subcatchment (Part) of Brahmaputra Basin, Aizawl, Kolasib, Mamit and Serchhip Districts of Mizoram

Abstract

1. **Survey Area** : 3C2A Subcatchment (Part) of Brahmaputra Basin, Aizawl, Kolasib, Mamit and Serchhip Districts of Mizoram
2. **Total Area** : 3,38,440 ha
3. **Location** : 23⁰11' to 24⁰30' N Latitude
92⁰17' to 92⁰48' 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 on 1:50,000 scale

8. Areal Extent of Different Erosion Intensity Mapping Units

Sl. No.	EIMU	Weightage Value	Delivery Ratio	Area (ha)	%
1.	A01	11	0.57	3436	1.02
2.	A02	14	0.61	370	0.11
3.	S01	16	0.78	2475	0.73
4.	S02	16	0.70	9000	2.66
5.	S03	16	0.80	177287	52.38
6.	S04	18	0.86	5926	1.75
7.	S05	16	0.73	7806	2.31
8.	S06	20	0.82	844	0.25
9.	S07	16	0.73	93896	27.74
10.	S08	24	0.97	24891	7.35
11.	S09	23	0.90	7931	2.35
12.	HA			2780	0.82
13.	RI			1798	0.53
Grand Total				338440	100.00

9. Priority Categories

Sl. No.	Priority Category	No. of Micro-watersheds	Area (ha)	%
1.	Very High (1300 and above)	61	35,186	10.40
2.	High (1200-1299)	34	20,068	5.93
3.	Medium (1100-1199)	65	37,739	11.15
4.	Low (1000-1099)	101	57,365	16.95
5.	Very Low (Below 1000)	355	1,88,082	55.57
Grand Total		616	3,38,440	100.00

10. Districtwise Area under Different Priority Category

Sl. No.	Priority Category	Aizawl			Kolasib			Mamit			Serchhip			Grand Total	%
		No of M/W		Area	No of M/W		Area	No of M/W		Area	No of M/W		Area		
		Full	Part		Full	Part		Full	Part		Full	Part			
1.	Very High	31	1	19186	4	-	2912	22	-	11082	3	1	2006	35186	10.4
2.	High	9	2	5922	1	1	722	19	-	11782	3	1	1642	20068	5.93
3.	Medium	10	-	4691	5	-	2570	44	-	26343	6	-	4135	37739	11.15
4.	Low	20	-	10321	14	-	6036	65	-	39958	2	-	1050	57365	16.95
5.	Very Low	15	1	7649	101	1	47353	237	-	132575	1	-	505	188082	55.57
Total		85	4	47769	125	2	59593	387	-	221740	15	2	9338	338440	100

11. Watershedwise Area under Different Priority Category

Sl. No.	Priority Category	3C2A2 (Part)	3C2A5 (Part)	3C2A6 (Part)			3C2A7	3C2A8				3C2A9				Grand Total	%
		Mamit	Mamit	Mamit	Kolasib	Total	Mamit	Aizawl	Kolasib	Mamit	Total	Aizawl	Mamit	Serchhip	Total		
1.	Very High	1793	3170	705	2912	3617	1898	10653	-	2091	12744	8533	1425	2006	11964	35186	10.4
2.	High	1757	4041	-	-	-	3860	2651	722	502	3875	3271	1622	1642	6535	20068	5.93
3.	Medium	1412	3936	400	437	837	12576	732	2133	5568	8433	3959	2451	4135	10545	37739	11.15
4.	Low	5266	4033	1753	1736	3489	12384	2927	4300	7910	15137	7394	8612	1050	17056	57365	16.95
5.	Very Low	20635	55762	1266	32638	33904	32395	3342	14715	16746	34803	4307	5771	505	10585	188082	55.57
Total		30863	70942	4124	37723	41847	63113	20305	21870	32817	74992	27464	19881	9338	56683	338440	100.0