

# Report on Prioritisation of Subwatersheds in 3A1C and 3A1D Subcatchments of Brahmaputra Basin, Darjiling, Jalpaiguri, Koch Bihar Districts of West Bengal and Dhuburi District of Assam

## Abstract

1. **Survey Area** : 3A1C and 3A1D Subcatchment of Brahmaputra basin, Koch Bihar, Jalpaiguri and Darjiling districts of West Bengal and Dhuburi district of Assam
2. **Total Area Surveyed** : 718991 ha
3. **Location** : 88°47' to 89°48' E longitude and 25°57' to 27°10'N latitude
4. **Agro Climatic Region** : Eastern Himalayan Region (2) as per Planning Commission classification.
5. **Kind of Survey** : Rapid Reconnaissance Survey
6. **Period of Survey** : December 1994 to June 1995
7. **Base Materials Used** : Survey of India topographical maps (1:50,000 scale)

## 8. Extent of Areas Under Different Run-off Potential Mapping Units

Sl. No	RPMU	Area (ha)			%
		3A1C	3A1D	Total	
1.	A1	12557	14828	27385	3.8
2.	A2	12860	-	12860	1.8
3.	A3	4177	9540	13717	1.9
4.	A4	760	-	760	0.1
5.	A5	3184	2119	5303	0.7
6.	A6	1403	1365	2768	0.4
7.	A7	89349	48764	138113	19.2
8.	A8	140633	79156	219789	30.5
9.	A9	2010	31670	33680	4.7
10.	A10	25195	6727	31922	4.4
11.	A11	22576	46888	69464	9.6
12.	A12	20540	14786	35326	4.9
13.	A13	2942	18740	21682	3.0
14.	A14	1025	394	1419	0.2
15.	A15	2611	3188	5799	0.8
16.	A16	17453	8016	25469	3.5
17.	A17	2732	276	3008	0.4
18.	C1	8162	-	8162	1.1
19.	C2	2730	-	2730	0.4
20.	C3	920	1725	2645	0.4
21.	C4	3130	14915	18045	2.5
22.	C5	8404	-	8404	1.5
23.	C6	1403	-	1403	0.2
<b>Total</b>		<b>386756</b>	<b>303097</b>	<b>689853</b>	<b>96.0</b>
24.	Misc.	13608	15530	29138	4.0
<b>Grand Total</b>		<b>400364</b>	<b>318627</b>	<b>718991</b>	<b>100.0</b>

## 9. Distribution of Priority Categories in 3A1C and 3A1D Subcatchment

Sl No.	Priority Category and Range	3A1C			3A1D			Total		
		No of S/ W	Area (ha)	%	No of S/ W	Area (ha)	%	No of S/ W	Area (ha)	%
1.	Very High 65 and above	3	13945	3.5	6	17334	5.4	9	31279	4.3
2.	High 60-64	4	15697	3.9	5	16877	5.3	9	32574	4.5
3.	Medium 55-59	48	174666	43.6	68	211839	66.5	116	386505	53.8
4.	Low 50-54	48	196056	49.0	22	72577	22.8	70	268633	37.4
<b>Total</b>		<b>103</b>	<b>400364</b>	<b>100.0</b>	<b>101</b>	<b>318627</b>	<b>100.0</b>	<b>204</b>	<b>718991</b>	<b>100.0</b>

## 10. Watershed wise Distribution of Priority Categories and Areas of 3A1C Subcatchment

SI No.	Priority Categories And Range	3A1C						Total Area (ha)	%
		1	2	3	4	5	6		
1.	Very High 65 and above	-	-	-	13945 (3)	-	-	13945 (3)	3.5
2.	High 60-64	-	5725 (1)	3362 (1)	2898 (1)	-	3712 (1)	15697 (4)	3.9
3.	Medium 55-59	17739 (4)	28260 (7)	14574 (4)	47684 (15)	38683 (10)	27726 (8)	174666 (48)	43.6
4.	Low 50-54	54450 (12)	79337 (18)	12967 (4)	-	22905 (7)	26397 (7)	196056 (48)	49.0
	<b>Total</b>	<b>72189 (16)</b>	<b>113322 (26)</b>	<b>30903 (9)</b>	<b>64527 (19)</b>	<b>61588 (17)</b>	<b>57835 (16)</b>	<b>400364 (103)</b>	<b>100.0</b>
	<b>%</b>	<b>18.0</b>	<b>28.3</b>	<b>7.7</b>	<b>16.1</b>	<b>15.4</b>	<b>14.5</b>	<b>100.0</b>	

N.B. Figures in parenthesis show no. of subwatersheds

## 11. Watershed wise Distribution of Priority Categories and Areas of 3A1D Subcatchment

SI No.	Priority Categories and Range	3A1D						Total Area (ha)	%
		1	2	3	4	5	6		
1.	Very High 65 and above	-	-	2387 (1)	9103 (3)	5844 (2)	-	17334 (6)	5.4
2.	High 60-64	-	-	4317 (1)	6521 (2)	-	6039 (2)	16877 (5)	5.3
3.	Medium 55-59	6731 (2)	9477 (4)	41283 (13)	80645 (26)	24285 (8)	49118 (15)	211839 (68)	66.5
4.	Low 50-54	24171 (6)	31593 (11)	2073 (1)	1252 (1)	-	13488 (3)	72577 (22)	22.8
	<b>Total</b>	<b>30902 (8)</b>	<b>41370 (15)</b>	<b>50060 (16)</b>	<b>97521 (32)</b>	<b>30129 (10)</b>	<b>68645 (20)</b>	<b>318627 (101)</b>	<b>100.0</b>
	<b>%</b>	<b>9.7</b>	<b>13.0</b>	<b>15.7</b>	<b>30.6</b>	<b>9.5</b>	<b>21.5</b>	<b>100.0</b>	

N.B. Figures in parenthesis shows No of subwatersheds

## 12. District wise Distribution of Priority Areas of 3A1C and 3A1D Subcatchment

Sl. No.	Priority Categories & Range	Area (ha)									
		3A1C					3A1D			Total	%
		West Bengal					West Bengal		Assam		
		Koch Bihar	Darjiling	Jalpaiguri	Total	%	Koch Bihar	Jalpaiguri	Dhuburi		
1.	Very High 65 & above	-	13945	-	13945	3.5	-	17334	-	17334	5.4
2.	High 60-64	7877	1395	6425	15697	3.9	-	16877	-	16877	5.3
3.	Medium 55-59	37547	855	136264	174666	43.6	63325	146478	2036	211639	66.5
4.	Low 50-54	134812	-	61244	196056	49.0	51318	8859	12400	72577	22.8
<b>Total</b>		<b>180236</b>	<b>16195</b>	<b>203933</b>	<b>400364</b>	<b>100.0</b>	<b>114643</b>	<b>189548</b>	<b>14436</b>	<b>318627</b>	<b>100.0</b>