

Report on Prioritisation of Subwatersheds of 2A1 Catchment (Part) in Lower Ganga Basin (FPR) of Barddhaman, Nadia, Murshidabad Districts of West Bengal.

Abstract

- 1. Survey Area :** 2A1C(Part) and 2A1D subcatchment in Lower Ganga Basin in Barddhaman, Nadia and Murshidabad districts of West Bengal.
- 2. Total Area Surveyed :** 5,67,557 ha
- 3. Location :** $23^{\circ} 7'$ to $24^{\circ} 27'$ N latitude and $88^{\circ} 2'$ to $88^{\circ} 44'$ E longitude.
- 4. Agroclimatic Zone :** Zone 5 (Subhumid and humid Sutlej - Ganga Alluvial Zone).
- 5. Kind of Survey :** Rapid Reconnaissance Survey.
- 6. Period of Survey :** April to June (1994) and December 1994 to May 1995.

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

Sl No.	Mapping Units	Area in 2A1C	Percentage	Area in 2A1D	Percentage
1.	A3	84260	43.91	189465	50.43
2.	A4	6772	3.53	5654	1.50
3.	A5	74478	38.81	146445	38.98
4.	A6	7771	4.05	7051	1.88
5.	A9	605	0.32	102	0.03
6.	A11	4869	2.54	6124	1.63
7.	Tank	89	0.05	Nil	Nil
8.	H	5721	2.98	3489	0.93
9.	River	7308	3.81	17354	4.62
	Total	191873	100.00	375684	100.00

9. Extent of Areas Under Different Run-off Potential Mapping Units (Districtwise)

Mapping Units	2A1C				2A1D			
	Nadia		Bardhaman		Nadia		Murshidabad	
	Area (ha)	%	Area (ha)	%	Area (ha)	%	Area (ha)	%
A3	79980	42.90	4280	78.68	56861	49.84	132604	50.70
A4	6772	3.63	Nil	Nil	1793	1.57	3861	1.48
A5	74478	39.95	Nil	Nil	49540	43.42	96905	37.05
A6	7771	4.17	Nil	Nil	716	0.63	6335	2.42
A9	605	0.32	Nil	Nil	102	0.09	Nil	Nil
A11	4810	2.58	59	1.08	2307	2.02	3817	1.46
Tank	89	0.05	Nil	Nil	Nil	Nil	22	0.01
H	5721	3.07	Nil	Nil	1231	1.08	2168	0.83
River	6207	3.33	1101	20.24	1537	1.35	15817	6.05
Total	186433	100.00	5440	100.00	114087	100.00	261529	100.00

10. Subcatchmentwise Distribution of Priority Areas

Sl. No.	Priority Categories & Ranges	2A1C			2A1D		
		No. of S/W	Area (ha)	%	No. of S/W	Area (ha)	%
1.	Very High 65 & above	Nil	Nil	Nil	Nil	Nil	Nil
2.	High 60-64	Nil	Nil	Nil	Nil	Nil	Nil
3.	Medium 55-59	29	127240	66.3	37	211454	56.3
4.	Low 50-54	16	64633	33.7	34	164230	43.7
5.	Very Low Below 50	Nil	Nil	Nil	Nil	Nil	Nil
	Total	45	191873	100.00	71	375684	100.00

11. Districtwise Distribution of Priority Areas

Sl No.	Priority Categories & Ranges	2A1C				2A1D			
		Nadia		Bardhaman		Nadia		Murshidabad	
		No. of S/W	Area (ha)	No. of S/W	Area (ha)	No. of S/W	Area (ha)	No. of S/W	Area (ha)
1.	Very High 65 & above	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
2.	High 60-64	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
3.	Medium 55-59	30	126677	Nil	Nil	13	68929	25	141862
4.	Low 50-54	15	59756	10	5440	10	45158	27	119667
5.	Very Low Below 50	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	Total	45	186433	10	5440	23	114087	42	261529

12. Watershedwise Distribution of Priority Areas

Priority Categories & Range	2AIC			2AID				
	2AIC 5	2AIC 6	2AIC 7	2AID 1	2AID 2	2AID 3	2AID 4	2AID 5
Very High 65 & above	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
High 60-64	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Medium 55-59	51706	32898	42636	25207	69271	30271	30308	56397
Low 50-54	17208	17526	29899	19967	26978	19646	73138	24433
Very Low Below 50	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Total	68914	50424	72535	45174	96249	49917	103446	80830

Salient Points:

- ◆ No subwatersheds fall under very high and high priority categories out of the total surveyed area comprising 116 subwatersheds.
- ◆ The surveyed area is found to be well protected against soil erosion.
- ◆ Area under medium and low priority category is indicative of potential zone for intensive agriculture practices.