

REPORT ON PRIORITISATION OF SUB-WATERSHEDS OF 2A3
CATCHMENT (PART) OF LOWER GANGA BASIN, (F.P.R) IN BHAGALPUR,
KATIHAR AND SANTAL PARGANA DISTRICTS OF BIHAR AND
MALDA, BANKURA, BIRBHUM, MURSHIDABAD DISTRICTS OF WEST BENGAL.

ABSTRACT

1. Survey area:-2A3E Sub-Catchment of 2A3 Catchment comprising 9 watersheds in Bihar & West Bengal.
2. Total area surveyed and mapped :- 8,93,478 ha.
3. Location:- 23° 52' to 25° 27' N latitude
86° 6' to 88° 15' E longitude.
- 3A. Aeroclimatic Zones:-Lower Gangetic Plain(No.3)
4. Type of Survey:-Rapid Reconnaissance Survey.
5. Period of Survey:-November 1993 to March 1994
6. Base materials Used:-Survey of India topographical maps (1:50,000 scale.)
7. Hydrologic Division:-

Catchment	: 2A3
Sub-Catchment	: 2A3E
Watersheds	: 9
Sub-Watersheds	: 257
8. Extent of areas under different run off potential mapping units.

Sl.No.	Mapping Units	Area in ha.	Percentage(%)
1.	A1	32908	3.7
2.	A2	19776	2.2
3.	A3	85217	9.5
4.	A4	129323	14.5
5.	A5	45984	7.4
6.	A6	4740	0.5
7.	B1	70048	7.8
8.	B2	73336	8.2
9.	B3	57588	6.4
10.	B4	5160	0.6
11.	B6	17594	2.0
12.	B7	10164	1.1
13.	B8	24354	2.7
14.	B9	50737	5.7
15.	B10	23143	2.6
16.	B11	22849	2.6
17.	N1	1811	0.2
18.	N2	1454	0.2
19.	N4	1356	0.2
20.	N6	2094	0.2
21.	N7	18661	2.1
22.	N8	907	0.1
23.	N9	12032	1.3
24.	N10	32923	3.7

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Sl.No.	Mapping Units	Area in ha.	Percentage(%)
25.	N17	38016	4.3
26.	N19	49353	5.5
27.	GN1	1025	0.1
28.	GN2	3219	0.4
29.	River	35048	3.9
30.	H.S.	1545	0.1
31.	Quarry	559	0.1
32.	Tank	56	
33.	Canal	498	0.1
Grand Total:		8,93,478	100

9. PRIORITY CATEGORIES :

Sl. No.	Priority Categories	Average runoff potential	No. of Sub Watershed	Area in (ha)	(%)
1.	VERY HIGH	65 & above	58	224280	25.10
2.	HIGH	60 to 64	53	192340	21.53
3.	MEDIUM	55 to 59	76	236435	26.46
4.	LOW	50 to 54	68	234027	26.19
5.	VERY LOW	Below 50	2	6396	0.72
TOTAL			257 Nos	893478	100

10. Abstract of Watershed wise distribution of Priority areas.

Sl. No.	Priority categories & range	Name of Watersheds									Total area in ha.	(%)
		2A3E 1	2A3E 2	2A3E 3	2A3E 4	2A3E 5	2A3E 6	2A3E 7	2A3E 8	2A3E 9		
1.	Very high	--	6163	46654	24701	93674	24079	8377	12628	8004	224280	25.10
2.	High	--	--	36789	28052	20892	21004	29637	10130	45836	192340	21.53
3.	Medium	11649	7581	24524	17965	10872	22243	25901	47076	68624	236435	26.46
4.	Low	37664	65197	14798	13434	3935	14753	55994	28252	--	234027	26.19
5.	Very low	1972	--	--	--	--	--	4424	--	--	6396	0.72
		51285	78941	122765	84152	129373	82079	124333	98086	122464	893478	100

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11. District wise Extent of Priority area in 2A2E Sub-Catchment.

Sl. No.	Priority category & Range	SANTALPARGANAS		BHAGALPUR		KATI HAR		MURSHIDABAD		BIRBHUM		BANKURA		Malda		Grand Total	(%)
		Area in (ha)	No. of S/W Full Part	Area in (ha)	No. of S/W Full Part	Area in (ha)	No. of S/W Full Part	Area in (ha)	No. of S/W Full Part	Area in (ha)	No. of S/W Full Part	Area in (ha)	No. of S/W Full Part	Area in (ha)	No. of S/W Full Part		
1.	VERY HIGH >65	227709 (25.4)	56 2	6390 (0.7)	2 1	512 (0.1)	- 1	- -	- -	- -	- -	- -	- -	- -	278 - 1	234889	26.1
2.	HIGH 60-64	157114 (17.6)	43 5	20430 (2.2)	4 5	- -	- -	- -	- -	1700 (0.2)	- 2	53 ✓	- -	- -	- -	179340	20.0
3.	Medium 55-59	159577 (17.9)	39 10	63024 (7.0)	10 10	7612 (0.9)	- 1	3602 (0.4)	- 55	7641 (0.9)	- 7	160 1 2	- -	- -	76	241616	27.0
4.	Low 50-54	105363 (11.8)	20 27	46970 (5.2)	10 5	- -	- -	40403 (4.5)	7 11	23091 (2.6)	3 8	- -	- -	- -	66	215635	24.15
5.	Very low <50	10307 (1.1)	1 3	10516 (1.1)	2 -	937 (0.1)	- 1	- -	- -	- -	- -	- -	- 2	- -	38 - 1	21790	2.43
GRAND TOTAL		660070 (73.9)	159 47	147346 (16.5)	36 21	9061 (1.0)	- 3	44005 (4.9)	7 64	32520 (3.6)	3 17	160 1 2	- -	316 - 2	893470	100	