

ABSTRACT

1. Survey Area: Ma1a, Ma1d, Ma2c, ^{Ma2d} Mb1a, Mb2c, Md1e of Mayurakshi catchment, Distt: Dumka (Santal Parganas) Bihar.
2. (a) Total area reported and mapped : 18,240 ha.
 (b) Period of survey : 28.11.76 to 22.3.77 and
 (c) Type of survey: Detailed 16.5.77 to 8.7.77

3. Soil series mapped and area covered by each in ha.

S.N.	Soil series	Area in ha.	%
1.	Amra (AR)	2843	15.6%
2.	Balia (B)	1023	5.6%
3.	Dumka (D)	1684	9.2%
4.	Hathiapathar (H)	3083	16.9%
5.	Karaya (K)	1793	9.9%
6.	Khairabani (KB)	105	.6%
7.	Pusaro (P)	3198	17.5%
8.	Ranga (R)	997	5.4%
9.	Sarua (S)	1865	10.2%
	Total:	16591	90.9%
10.	Other features like road, habitation, nala, tank, rock outcrops etc.	1649	9.1%
	Grand total:	18240	100%

4. Land capability classification:

S.N.	Name of subwatershed	II-1	IIe-1	IIw-1	IIew-1	IIIe-1	IIIe-2	IVe-1	IVs-1	VIe-1	VIs-1	VIs-2	VIs-3	VIIes-1	Others	Total
1.	Ma1a	231	109	484	-	52	10	240	155	31	169	243	-	613	735	3,072
2.	Ma1d	243	200	460	31	28	24	173	-	31	26	81	-	435	60	1,792
3.	Ma2c	741	121	802	-	491	44	278	-	260	155	281	18	158	69	3,418
4.	Ma2d	694	879	812	-	265	-	74	-	205	36	425	38	24	106	3,558
5.	Mb1a	57	32	103	-	42	67	125	-	44	21	19	-	686	596	1,792
6.	Mb2c	390	126	377	-	66	65	171	-	69	17	95	35	90	35	1,536
7.	Md1c	377	694	694	-	36	-	146	-	370	9	247	47	404	48	3,072
	Total:-	2733	2161	3732	31	980	210	1207	155	1010	433	1391	138	2410	1649	18,240
	%	14.6	11.9	20.5	0.2	5.4	1.2	6.6	0.9	5.6	2.5	7.7	0.8	13.4	9.2	

5. Specific Problems :-

a) Sub-watershed No. Mala (3072 ha.)

<u>Nature of Problems</u>	<u>Area in ha.</u>	<u>%</u>	<u>Soil Series</u>
(a) Moderate erosion.	253	8.2	i) Balia ii) Dumka. iii) Hathiapathar iv) Pusaro. v) Ranga.
(b) Severe erosion.	1183	38.5	i) Amra. ii) Balia. iii) Dumka. iv) Ranga.
(c) Severe erosion with gullies.	32	1.0	i) Balia.
(d) Seasonal water logging & over flowing.	715	23.3	i) Hathiapathar. ii) Karaya. iii) Sarua.
Total & %	2183	71.0%	

b) Sub-watershed No. Ma1d (1792 ha.)

1	2	3	4
(a) Moderate erosion	283	15.8	i) Hathiapathar ii) Khairabari iii) Pusaro iv) Ranga.
(b) Severe erosion	715	39.9	i) Amra ii) Balia iii) Dumka. iv) Ranga.
(c) Severe erosion with gullies.	31	1.7	i) Pusaro ii) Ranga.
(d) Seasonal water logging & over flowing.	703	39.2	i) Hathiapathar ii) Karaya iii) Khairabari iv) Pusaro v) Sarua.
Total & %	1732	96.6	

c) Sub-watershed No. Ma2c (3418 ha.)

1	2	3	4
(a) Moderate erosion	695	20.3	i) Balia ii) Dumka iii) Pusaro.
(b) Severe erosion	833	24.4	i) Amra ii) Balia iii) Dumka. iv) Pusaro.

