

REPORT ON DETAILED SOIL SURVEY AND LAND
USE OF Ad1m, Af1f, Af1g AND Ah2j PRIORITY
SUBWATERSHEDS OF AJAY FLOOD PRONE CATCHMENT
DISTT. SANTALPARGANAS, BIHAR

I. A B S T R A C T

1. Surveyed areas: Ad1m, Af1f, Af1g and Ah2j subwatersheds of Ajay Flood Prone Catchment, under P.S. Sarath, Nala Mandirhat and Madhupur Distt. Santal parganas, Bihar.
2. Location: 23°-50'-15" to 24°-26" N. Lat. and 86°-28'-35" to 87°-12" E. Long.
3. Total areas: 11,100 ha.
4. Period of survey: April '84 to June '84.
5. Type of survey: Detailed.
6. Soil series mapped and area covered under each series.

Sl No.	Soil series	No. of mapping unit	Subwatershedwise area (ha.)				Total	%
			Ad1m	Af1f	Af1g	Ah2j		
1.	Amra	1	1	5	-	26	32	0.3
2.	Balia	2	-	23	-	77	100	0.9
3.	Dumka	3	2488	1447	1114	753	5802	52.4
4.	Hathiapathar	2	-	-	71	66	137	1.2
5.	Jamua	3	-	94	59	-	153	1.4
6.	Karaya	3	545	319	343	302	1509	13.6
7.	Lachimpur	6	103	280	236	1132	1751	15.8
8.	Munhari	2	-	-	-	81	81	0.7
9.	Pusaro	3	24	-	133	442	604	5.4
10.	Sarua	2	-	-	47	34	81	0.7
11.	Misc.		116	494	147	93	850	7.6
Total:		27	3277	2662	2150	3011	11100	100
%		-	29.5	24.0	19.4	27.1	100	

7. AREA UNDER DIFFERENT LAND CAPABILITY CLASSES:

Sl No.	Land capability classes	Subwatersheds area in ha.				Total (%)	Series
		Ad1m (%)	Af1f (%)	Af1g (%)	Ah2j (%)		
1.	II	569 (17.4)	425 (16.0)	653 (30.4)	681 (22.6)	2328 (21.0)	Balia Pusaro Jamua Hathia- pathar Karaya Sarua
2.	III	103 (3.1)	261 (9.8)	227 (10.6)	708 (23.5)	1299 (11.7)	Lachimpur
3.	IV	259 (8.0)	124 (4.7)	119 (5.5)	19 (0.6)	521 (4.7)	Dumka
4.	VI	2229 (68.0)	1353 (50.8)	1004 (46.7)	1484 (49.3)	6070 (54.7)	Dumka Balia Pusaro Lachimpur
5.	VII	1	5 (0.2)	-	26 (0.9)	32 (0.3)	Amra
Total:		3161	2168	2003	2918	10250	
Misc.		116	494	147	93	850	
%		(3.5)	(18.5)	(6.8)	(3.1)	(7.6)	
Grand total:		3277	2662	2150	3011	11100	

8. Salient features and specific problems:

- a) Of the total area of 11,100 ha. only 2939 (26.5%) is suitable for arable lands i.e these lands are used for agricultural purposes.
- b) About 52.7% of the land is under very shallow to shallow soils primarily under thin bushy type forest. It needs special soil and water conservation measures, coupled with afforestation in blanks.
- c) Nearly 5531 (49.8%) of the total surveyed area is under moderate erosion needs soil and water conservation measures.
- d) About 1788 (16.0%) is under severe to very severe erosion hazards. Immediate proper soil conservation measures should be taken up in these lands.