

ABSTRACT

1. Survey area: Aa2t, Aa24 and Aa4c  
Subwatersheds of Ajoy catchment in Ausgram,  
Kanksa and Pharidpur police stations, Burdwan  
district, West Bengal
2. Total area: 11,117 hectares
3. Type of survey: Detailed
4. Period of work: May, 1985 to July, 1985
5. Soil series mapped and area in hectares (%) covered under each:

Sr.No.	Soil series name:	No. of mapping units	Subwatershedwise area ha:			Total
			Aa2t	Aa24	Aa4c	
1.	Chakai	5	36 (0.3)	52 (0.5)	56 (0.5)	144 (1.3)
2.	Domra	4	451 (4.1)	1139 (10.2)	154 (1.4)	1744 (15.7)
3.	Ghoradanga	3	22 (0.2)	16 (0.2)	14 (0.1)	52 (0.5)
4.	Kuldiha	4	318 (2.8)	635 (5.7)	53 (0.5)	1006 (9.0)
5.	Latu	2	206 (1.8)	51 (0.5)	-	257 (2.3)
6.	Mehgram	5	452 (4.1)	726 (6.5)	376 (3.4)	1554 (14.0)
7.	Pasibali	3	356 (3.2)	58 (0.5)	60 (0.6)	474 (4.3)
8.	Piariganj	4	834 (7.5)	2616 (23.5)	328 (3.0)	3778 (34.0)
9.	Rengalbera	4	13 (0.1)	5 (0.1)	686 (6.1)	704 (6.3)
Total:		34	2688 (24.2)	5298 (47.7)	1727 (15.5)	9713 (87.4)
Miscellaneous:			250 (2.2)	941 (8.5)	213 (1.9)	1,404 (12.6)
Grand totals:		34	2938 (26.4)	6239 (56.2)	1940 (17.4)	11,117 (100)

6. Land capability class (subwatershed-wise area distribution):

Sr.No.	Land capability classes	Subwatershed (area ha (%))			Total
		Aa2t	Aa24	Aa4c	
1.	II	2375	5076	985	8436
2.	III	176	36	14	226
3.	IV	124	158	113	395
Sub total:		2675 (44.0)	5270 (84.47)	1112 (57.32)	9057 (81.50)
4.	VI	13	28	615	656
Class land and forestry		2688	5298	1727	9713
Miscellaneous		250 (2.5)	941 (15.08)	213 (10.98)	1404 (12.6)
Grand total:		2938	6237	1940	11,117

7. Specific problems:

Sl.No.	Problems	Subwatersheds (area ha (%))			Total
		Aa2t	Aa2u	Aa4c	
1.	Very severe erosion	-	23 (0.2)	-	23 (0.2)
2.	Severe erosion	137 (1.2)	163 (1.5)	172 (1.5)	472 (4.2)
3.	Moderate erosion	1321 (11.9)	2595 (23.3)	803 (7.2)	4719 (42.4)
4.	Shallow soils	13 (0.1)	5 (0.1)	686 (6.1)	704 (6.3)
5.	Unfavourable texture (either very light or very heavy)	510 (4.6)	794 (7.1)	446 (4.0)	1750 (15.7)
6.	Drainage (either rapid or poor i.e. the soils of Chakai, Ghoradanga, Kuldiha c- Mehagram)	828 (7.4)	1429 (12.9)	499 (4.5)	2756 (24.8)

8. Salient features and specific problems:

- Of the total area 11,117 ha. a considerable area 9057 ha. (81.5%) is arable land and used for agriculture.
- 2060 ha (18.5%) land is under village or miscellaneous land type and forest cover.
- About 47% of the total surveyed area is subjected to moderate to severe erosion which needs early soil conservation measures.