

ABSTRACT

1. Surveyed area : Subwatershed No. Aa2r, Aa2z, Aa3f, Ad1f, Ad1k (part) & Ad1m (part) of Ajoy F.P.R. Catchment, under P.S.- Ausgram, Faridpur and Durgapur, Dist.- Burdwan and P.S.- Khairasol, Dist.- Birbhum, West Bengal.

2. Total area mapped : 11,545 ha.

3. Type of survey : Detailed soil survey.

4. Period of survey : February 1987 to June 1987.

5. Soil series mapped and area in hec.(%) covered under each Subwatersheds.

Sl. No.	Name of Soil series	Total mapping units	Subwatershed No.												Total area	%
			Aa2r		Aa2z		Aa3f		Ad1f		Ad1k(P)		Ad1m(P)			
			Area	%	Area	%	Area	%	Area	%	Area	%	Area	%		
1.	Ajoy (AJ)	2	-	-	-	-	-	-	36	1.8	-	-	11	0.9	47	0.4
2.	Bistupur (BS)	3	-	-	-	-	-	-	71	3.5	19	7.8	70	5.7	160	1.4
3.	Chakai (C)	4	79	2.4	196	7.6	-	-	114	5.6	-	-	85	7.0	474	4.1
4.	Dumka (D)	4	-	-	454	17.5	342	15.7	366	18.0	24	9.9	495	40.4	1681	14.6
5.	Dubarajpur(DB)	2	-	-	312	12.0	-	-	-	-	-	-	-	-	312	2.7
6.	Karaya (K)	4	123	3.8	10	0.4	493	22.7	332	16.4	46	19.0	255	20.8	1259	10.9
7.	Kultanr (KT)	4	497	15.1	666	25.6	280	12.9	153	7.5	44	18.1	29	2.3	1669	14.5
8.	Kadampur (KP)	3	800	24.5	96	3.7	-	-	28	1.4	-	-	-	-	924	8.0
9.	Lakshmipur (L)	5	19	0.6	49	1.9	176	8.0	388	19.1	54	22.3	181	14.8	867	7.5
10.	Pusaro (P)	5	934	30.0	166	6.4	178	8.2	97	4.8	4	1.6	-	-	1429	12.4
11.	Sarua (S)	4	514	15.7	321	12.3	464	21.3	69	3.4	-	-	-	-	1368	11.8
12.	Sirkabad (SB)	2	71	2.1	-	-	-	-	65	3.2	13	5.3	-	-	149	1.3
13.	Misc. including settelment tank etc.		187	5.8	326	12.6	243	11.2	311	15.3	39	16.0	100	8.1	1206	10.4
Total :		42	3274	100	2596	100	2176	100	2030	100	243	100	1226	100	11545	100

**6. SERIESWISE DISTRIBUTION OF AREA UNDER VARIOUS
LAND CAPABILITY CLASSES.**

Sl. No.	Land capability units	Area in ha.	Percentage	Soil series
1.	II	7075	61.28	Ajoy, Bistupur, Chakrai, Dubrajpur, Karaya, Kultunr, Kadampur, Pusaro, Sarua, Salaidahar.
2.	III	1250	10.83	Bistupur, Lachimpur, Pusaro, Kadampur.
3.	IV	291	2.52	Chakai, Lakshmipur, Kadampur.
4.	VI	938	8.13	Dumka, Pusaro.
5.	VII	785	6.80	Dumka
6.	Misc.	1206	10.44	
Grand total:		11545	100%	

7. Salient features and specific problems:

- i. Area has 4835 ha. (41.9%) under slight erosion, 2970 ha. (25.8%) under moderate erosion, 1655 ha. (14.3%) under severe erosion and 879 ha. (7.6%) under gullied erosion hazard.
- ii. 1681 ha. (14.7%) area is covered by shallow soils and 7791 ha. (67.4%) area is covered by deep to very deep soils.
- iii. An area of 7706 ha. is used for paddy cultivation, about 889 ha. area remains uncultivated, 1744 ha. area is under forest or gullied land and miscellaneous lands covers an area of 1206 ha.
- iv. 5082 ha. area is facing problem due to water stress within the soil or sometimes in the surface. The water stress is accounted for poor soil drainage, high ground water table and flooding or surface overflow.