

(1)

REPORT ON DETAILED SOIL SURVEY AND LAND USE OF K1-2, K2-1, K2-2 AND K2-3 SUBWATERSHEDS, KANGSABATI CATCHMENT

ABSTRACT

Surveyed area: Subwatershed Nos. K1-2, K2-1, K2-2 and K2-3 of Kangsabati catchment under P.S. Manbazar, Puncha, Hura and Purulia, Distt. Purulia, West Bengal

Total area reported and mapped: 34,200 ha.

Period of survey : November, 1982 to June, 1983

Type of survey : Detailed soil survey

Soil series mapped and area covered by each in ha. (subwatershedwise)

Name of soil series	Subwatershed No. K1-2		Subwatershed No. K2-1		Subwatersheds No. K2-2		Subwatershed No. K2-3		Total area in ha.	%
	Area in ha	%	Area in ha.	%	Area in ha	%	Area in ha	%		
Anra	95	0.9	40	0.5	359	5.5	-	-	514	1.5
Chakra	2612	24.7	1174	14.4	1454	21.3	2137	24.8	7377	21.6
Hensla	2427	23.0	757	9.3	991	14.3	2116	24.6	6291	18.4
Kadampur	260	2.5	234	2.9	237	4.2	181	2.1	962	2.9
Kanchampur	1376	13.0	983	12.2	957	13.8	1230	14.3	4546	13.2
Palpal	1392	13.2	800	9.8	1101	15.9	583	6.8	3876	11.4
Paddy	216	2.1	74	0.9	22	0.3	80	0.9	392	1.1
Rajdih	1125	10.7	843	10.5	890	12.8	1361	15.8	4219	12.4
Salaidahar	134	1.3	15	0.2	88	1.3	2		239	0.6
Sirkabad	128	1.2	250	3.1	263	3.7	393	4.6	1034	3.0
Teyasi	168	1.6	85	1.0	43	0.6	24	0.3	320	0.9
Other, road settle- ment etc.	627	5.8	2871	35.2	437	6.3	495	5.8	4430	13.0
Total:	10,560	100.0	8126	100.00	6912	100.00	8602	100.00	34,200	100.00

No.	Nature of problem	Subwatershed No. K-1-2 Area in ha	%	Soil series	Subwatershed K No.K2-1 Area in % ha.	Soil series	Sub watershed No. K2-2 Area in % ha	Soil series	Subwatershed K2-3 Area in % ha.	Soil series	Grant Total	%			
	Area affected by moderate erosion	2436	23.1	Hensla, Peddya, Kadampur, Salaidahar Sirkabad	924	11.4	Hensla, Kadampur, Peddya, Sirkabad	1047	15.2	Hensla, Kadampur, Peddya Sirkabad	1239	14.4	Hensla Kadampur, Peddya Sirkabad.	5646	16.5
	Area affected by severe erosion	861	8.2	Amra, Hensla Kadampur Rajdih, Salaidahar, Teyasi	1247	15.4	Amra, Hensla Kadampur Rajdih Salaidahar Teyasi	1134	16.4	Amra, Hensla Kadampur, Rajdih Salaidahar, Teyasi	2255	26.2	Hensla Rajdih Salaidahar Teyasi	5497	16.1
	Area affected by very severe erosion	1201	11.4	Hensla, Rajdih Sirkabad	127	1.6	Rajdih	768	11.1	Hensla Rajdih Sirkabad	637	7.4	Rajdih Sirkabad	2733	8.0
	Area affected by seasonal water logging and overflowing	2612	24.7	Chakra	1174	14.4	Chakra	1454	21.3	Chakra	2137	24.8	Chakra	7377	21.6
	Total:	7110	67.4		4472	42.8		4403	64.0		6268	72.8		21,253	62.2

Sl. No.	Nature of problem	Subwatershed No. K-2-3			Subwatershed No. K-1-2			Grand total	
		Area in ha.	%	Soil series	Area in ha.	%	Soil series		%
a.	Area affected by moderate erosion	1239	14.4	Hensla, Kadampur, Peddya, Sirkabad	2436	23.1	Hensla, Peddya Kadampur, Salaidahar & Sirkabad	5646	16.5
b.	Area affected by severe erosion	2255	26.2	Hensla, Rajdih, Salaidahar, Teyasi	861	8.2	Amra, Hensla, Kadampur, Rajdih, Salaidahar & Teyasi	5497	16.1
c.	Area affected by very severe erosion	637	7.4	Rajdih, Sirkabad	1201	11.4	Hensla, Rajdih and Sirkabad	2733	8.0
d.	Area affected by seasonal water logging and overflowing	2137	24.8	Chakra	2612	24.7	Chakra	7377	21.6
	Total:	6268	72.8		7110	67.4		21,253	62.2

4. SERIESWISE DISTRIBUTION OF THE AREA UNDER VARIOUS LAND CAPABILITY CLASSES

<u>Sl.No.</u>	<u>Land capability units</u>	<u>Area in ha</u>	<u>Percentage</u>	<u>Soil series</u>
1.	II	15,894	46.5	Kanchanpur Peddya Palpal Chakra
2.	III.	5,646	16.5	Kadampur, Salidahar Sirkabad Hensala, Peddya
3.	IV	3,115	9.1	Kadampur, Salida Teyasi Hensala
4.	VI.,	4,993	14.5	Hensala, Sirkaba Amara, Raydih Raydih
5.	VII	122	0.4	Amara
	Total:	29,770	87.0	
	Others	4,430	13.0	
	Grand total:	34,00	100%	