

1. Survey area: Subwatershed nos. Tf4d, Tk3d, Tk3f, Tk3g, Tk3h and Tk3j of Tista R.V.P. P.S. Pulbazar and Kalimpong, Distt: Darjeeling, West Bengal.

2. Total area reported and mapped : 10,683 ha.

a. Period of survey : March to June-1984; b. Type of survey: Detailed

3. Subwatershedwise area (in ha.) mapped under different soil series (in braket %).

Sl.no.	Subwatershed	Total area	Gompa(G)	Namgechanga(N)	Naitam (NT)	Paparkheti (P)	Sakam(S)	Tumling	Misc lands.
1.	Tf4d	2251 (21.0)	697 (31.0)	260 (11.6)	419 (18.6)	522 (23.2)	28 (1.2)	--	325 (14.4)
2.	Tk3d	1850 (17.3)	666 (36.0)	362 (19.6)	184 (9.9)	560 (30.3)	--	--	78 (4.2)
3.	Tk3f	1866 (17.5)	906 (48.6)	208 (11.2)	147 (7.8)	503 (27.0)	--	31 (1.6)	71 (3.8)
4.	Tk3g	1449 (13.6)	1110 (76.6)	52 (3.6)	145 (10.0)	88 (6.1)	--	54 (3.7)	--
5.	Tk3h	1567 (14.7)	1254 (80.1)	154 (9.8)	--	32 (2.0)	--	127 (8.1)	--
6.	Tk3j	1700 (15.9)	1020 (60.0)	--	--	380 (22.4)	--	160 (9.4)	140 (8.2)
TOTAL:-		10,683 (100)	5653 (52.9)	1036 (9.7)	895 (8.4)	2085 (19.5)	28 (0.3)	372 (3.5)	614 (5.7)

4. Land capability class.

SlNo.	Land capability unit	Area in ha.	%	Soil series
1.	III-1	28	0.3	Sakam
2.	IV-1	766	7.2	Paparkheti
3.	IVe-1	1319	12.3	-do-
4.	VIe-1	6025	56.4	Gompa and Tumling
5.	Vies-1	1036	9.7	Namgechanga
6.	VIIes-1	895	8.4	Naitam
7.	Others	614	5.7	

5. Special features:

Five soil series have been identified and mapped.

Out of the total areas of 10683 ha. 5653 ha. (52.9%) and 2085 ha. (19.5%) is occupied by Gompa and Paparkheti soil series respectively.

An area of 8138 ha. (76.2%) is covered by deep to very deep soils.

These subwatersheds have hilly land slopes with 10041 ha. (94%) occurring on 33-50% and above slopes (H to I)

Out of the total area of 10683 ha. 4703 (44%) and 4572 (42%) suffer from moderate and severe erosion hazards respectively and these soils need soil conservation measures on top priority.

The majority of the area are suitable for afforestation, economic plantation including orchards.