

Report on detailed soil survey and land use of Gk1b, Gk2g, Gk4f, Gk6a, Gk6b, Gm2a and Gm2c subwatersheds of Gomti catchment, Tehsils Mishrikh, Sidhouli and Sitapur, District Sitapur, Uttar Pradesh.

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ABSTRACT

1. Surveyed area : Gk1b, Gk2g, Gk4f, Gk6a, Gk6b, Gm2a and Gm2c subwatersheds of Gomti catchment Tehsils Mishrikh, Sidhouli and Sitapur, District Sitapur, Uttar Pradesh.
2. Total area : 14,634 hectares
3. Period of survey : December 1985 to March 1986.
4. Type of survey : Detailed Soil Survey
5. Soil series mapped and area covered by each series falling in different subwatersheds.

Sl.No.	Name of series	Total area	Subwatersheds						
			Gk1b	Gk2g	Gk4f	Gk6a	Gk6b	Gm2a	Gm2c
1.	Bari (B)	1159 7.9	-26 1.2	-	268 12.8	43 2.0	127 10.3	662 33.2	33 1.4
2.	Gangapur (G)	363 2.3	-	95 3.5	-	-	218 17.8	-	50 2.2
3.	Hamirpur(H)	7567 51.7	981 42.9	2195 84.4	877 42.0	1827 85.6	766 62.6	-	921 39.8
4.	Jairampur(J)	836 5.8	125 5.5	-	-	-	-	711 35.6	-
5.	Kanayatpur (K)	237 1.6	179 7.8	-	58 2.2	-	-	-	-
6.	Nemisharayan (NS)	3104 21.3	859 37.5	-	694 33.4	-	-	519 26.0	1032 44.6
7.	Rahimabad (R)	711 4.9	37 1.6	220 9.3	79 3.7	175 8.1	65 5.3	-	135 5.8
Sub-total		13,977 95.5	2207 96.5	2510 97.2	1976 94.7	2045 95.7	1176 96.0	1892 94.8	2171 93.8
8.	Misc. land	551 3.8	57 2.5	48 1.6	72 3.5	89 4.3	49 4.0	95 4.8	141 6.2
9.	Water bodies	106 0.7	23 1.0	35 1.2	39 1.8	-	-	9 0.4	-
Grand total		14634 100%	2287 100%	2593 100%	2087 100%	2134 100%	1225 100%	1996 100%	2312 100%

6. Area under different land capability classes subwatershed wise with percentage.

Sl. No.	Land capability class	Subwatersheds						
		Gk1b	Gk2g	Gk4f	Gk6a	Gk6b	Gm2a	Gm2c
1.	II	1135 49.6	2138 82.7	935 44.8	1556 73.0	653 53.3	-	921 39.8
2.	III	620 27.1	57 2.2	607 29.5	271 12.7	235 19.2	1381 69.2	1065 46.2
3.	IV	452 19.8	220 8.5	434 20.4	218 10.2	70 5.7	511 25.6	135 5.8
4.	VI	-	95 3.6	-	-	218 17.8	-	50 2.2
Sub-Total		2207 96.5	2510 97.0	1976 94.7	2045 95.9	1176 96.0	1892 94.8	2171 94.0
5.	Misc. lands	57 2.5	48 1.7	72 3.4	89 4.1	49 4.0	95 4.7	141 6.0
6.	Water bodies	23 1.0	35 1.3	39 1.9	-	-	9 0.5	-
Grand total		2287 100%	2593 100%	2087 100%	2134 100%	1225 100%	1986 100%	2312 100%

7. Salient features & specific problems

- a. Out of the total area of 14634 hectares, only 13845 (94.2%) is suitable for agriculture.
- b. Nearly 12.2% of the total area is under undulating landscape and suffer from moderate to severe erosion and needs special soil and water conservation measures.
- c. About 363 hectares (2.4%) is under saline and alkali soils which needs special tretment like use of Gypsum, green manuring, under ground channels salt loving plants,, after reclamation.
- d. About 1796 hectares (12.2%) area is exclusively under severe erosion.
- e. Nearly 132 hectares (0.9%) area is suitable for grass land and forestry.