

Detailed soil survey of Parts of Kherar Kha¹ (Mk2b, Mk2c, Mk2d and Mk2f), Matatilla R.V.P. catchment, Tehsils Lalitpur and Talbehat, District Lalitpur (U.P).

A B S T R A C T

1. Survey area : Parts of Kherar Kha¹ (Mk2b, Mk2c, Mk2d and Mk2f) Tehsils Lalitpur and Talbehat, District Lalitpur, (Uttar Pradesh).
2. Total area : 10,146 hectares.
3. Kind of survey : Detailed soil survey
4. Period of Survey : December, 1981 to February, 1982.
5. Soil series mapped and subwatershed-wise area :

Sl. No.	Name of the soil series	Total area in ha. (%)	Subwatershed-wise distribution of area in ha. (%)			
			Mk2b Area (%)	Mk2c Area (%)	Mk2d Area (%)	Mk2f Area (%)
1.	Bedora	214 (2.1)	--	93 (7.8)	51 (1.5)	70 (2.8)
2.	Binaka	296 (3.0)	--	--	116 (3.5)	180 (7.3)
3.	Mau	1792 (17.6)	395 (38.2)	1207 (37.0)	134 (4.0)	56 (2.2)
4.	Muktaura	1941 (19.1)	291 (28.1)	486 (15.1)	672 (20.0)	492 (19.7)
5.	Rajwan	5375 (53.0)	277 (27.0)	1410 (43.2)	2115 (62.9)	1573 (63.0)
	Miscellaneous Land	528 (5.2)	70 (6.7)	64 (1.9)	272 (8.1)	122 (5.0)
	Total	10,146	1033 (100.0)	3260 (100.0)	3360 (100.0)	2493 (100.0)

6. Area under different Land capability classes

Sl. No.	Capability Unit	Total area in ha.	Subwatershed (Area in ha (%))			
			Mk2b	Mk2c	Mk2d	Mk2f
1.	II e-1	141 (1.4)	--	82 (2.5)	--	59 (2.4)
2.	IIes-1	2031 (20.0)	291 (28.1)	486 (15.1)	746 (22.3)	508 (20.4)
3.	III e-1	73 (0.7)	--	11 (0.3)	51 (1.5)	11 (0.4)
4.	IIIes-1	70 (0.7)	--	--	42 (1.2)	28 (1.1)
5.	IIIes-2	1055 (10.4)	142 (14.0)	328 (10.0)	309 (9.2)	276 (11.0)
6.	IVes-1	136 (1.4)	--	--	--	136 (5.5)
7.	IVes-2	4320 (42.6)	135 (13.0)	1082 (33.2)	1806 (53.7)	1297 (52.0)
8.	VIes-1	1437 (14.1)	190 (18.2)	1175 (36.0)	16 (0.5)	56 (2.2)
9.	VIIes-f	355 (3.5)	205 (20.0)	32 (1.0)	118 (3.5)	--
Total		9618 (94.8)	963 (93.3)	3196 (98.1)	3088 (91.9)	2371 (95.0)
Miscellaneous		528 (5.2)	70 (6.7)	64 (1.9)	272 (8.1)	122 (5.0)
Grand Total		10146 (100.0)	1033 (100.0)	3260 (100.0)	3360 (100.0)	2493 (100.0)

7. Area under different erosion phases.
Area in ha (Percentage)

Sl. No.	Erosion phases	Total Area (%)	Subwatershed-wise distribution			
			Mk2b	Mk2c	Mk2d	Mk2f
1.	Moderate erosion	3227 (31.8)	433 (42.1)	896 (27.6)	1055 (31.5)	843 (33.8)
2.	Severe Erosion	6391 (63.0)	530 (51.2)	2300 (70.5)	2033 (60.4)	1528 (61.2)
3.	Miscellaneous Land	528 (5.2)	70 (6.7)	64 (1.9)	272 (8.1)	122 (5.0)
Total		10,146	1,033	3,260	3,360	2,493

