

DETAIL SOIL SURVEY OF Mb3f, Mb3g and Mb3h SUBWATERSHEDS,
MAHI R.V.P., CATCHMENT, TEHSILS JHALOD AND SANTRAMPUR,
DISTRICT PANCHMAHAL, GUJARAT.

A B S T R A C T

1. Survey area : Mb3f, Mb3g and Mb3h subwatersheds, Mahi R.V.P., Catchment, Tehsils Jhalod and Santrampur, District Panchmahal, Gujarat
2. Total Area : 7504 ha.
3. Kind of Survey : Detailed soil survey
4. Period of Survey : December, 1980 to March, 1981.
5. Soil series mapped and area covered by each series.

Sr. No.	Soil Series	Sub-watersheds (Area in ha)			Total Area in ha	Percentage
		Mb3f	Mb3g	Mb3h		
1.	2.	3.	4.	5.	6.	7.
1.	Babarole	85	291	202	578	7.7
2.	Bafiya	6	55	74	135	1.8
3.	Batakwada	149	220	217	586	7.8
4.	Dadhela	7	61	16	84	1.1
5.	Dungar	15	43	110	168	2.2
6.	Gakalpura	36	137	135	308	4.1
7.	Garadu	65	343	212	650	8.7
8.	Jher	596	403	273	1282	17.0
9.	Karodiya	30	46	89	165	2.2
10.	Motibara	3	30	8	41	0.6
11.	Nanibara	15	75	93	183	2.5
12.	Navagarah	56	36	19	111	1.5
13.	Simalia	197	349	249	795	10.6
14.	Valunda	36	43	114	193	2.6
15.	Wadwas	549	741	523	1813	24.1
	Total	1845	2878	2374	7097	94.6
	Misc.	112	127	168	407	5.4
	Grand Total	1957	3005	2542	7504	100.0

Sr. No.	Land Capability Units.	Sub-watersheds (Area in ha)			Total Area in ha	Percentage
		Mb3r	Mb3g	Mb3h		
1.	2.	3.	4.	5.	6.	7.
(A) Arable lands.						
1.	II-1	620	630	717	1675	22.3
2.	IIe-1	1175	272	179	626	8.4
3.	IIe-2	91	85	89	265	3.5
4.	IIs-1	40	832	-	49	0.6
5.	IIes-1	78	52	24	76	1.0
6.	IIIs-1	117	65	32	242	3.2
7.	IIIs-1	51	48	73	252	3.4
8.	IIIs-2	295	900	457	1260	16.8
9.	IVes-1	29	832	194	555	7.4
Total		154	201	1765	5000	66.6
(B) Non-arable lands.						
1.	VIe-1	159	210	77	445	6.0
2.	VIes-1	229	251	338	848	11.3
3.	VIes-2	303	235	194	732	9.8
Total		691	787	509	2097	28.0
Miscellaneous		112	127	188	407	5.4
Grand Total		1957	3005	2542	7504	100.0

Salient features:-

- (a) Nearly 66.6 percent area is cultivable and about 28.0 are only suited for forestry and pastures.
- (b) Nearly 58.7 percent of the land is under shallow to moderately deep soils and needs special attention during cut and fill measures of soil and water conservation.
- (c) Nearly 67.5 percent area is affected by moderate erosion and needs site specific soil and water conservation treatment.
- (d) The undulating and hilly area accounts for about 52.8 percent of the total area and has moderately high to high runoff potential, suggests good water harvesting potential.
- (e) Nearly 25.3 percent area is suitable for paddy cultivation.
- (f) Out of fifteen, three soil series namely (1) Wadwas, (2) Jher and (3) Simalia are extensive and cover 24.2, 17.0 and 10.6 percent area respectively.