

ABSTRACT

1. Survey area : 'Bg2m' & 'Bg2n' subwatersheds of Mahi RVP, Tehsil & District - Ratlam(M.P.).
2. Location : 23°10' - 23°15' N Latitudes  
75°4' - 75°14' E Longitudes
3. Total area: : 7,436 ha.
4. Period of survey : April 1983 to June, 1983.
5. Type of survey : Detailed soil survey
6. Soil series mapped & area covered under each series:

Sr.No.	Soil Series	Subwatersheds(Area in ha.)		Total(%)
		Bg2m(%)	Bg2n(%)	
1.	Amlipara	226(6.6)	558(14.0)	784(10.5)
2.	Jaggakheri	585(17.1)	723(18.0)	1308(17.6)
3.	Kamliakheri	1342(39.2)	1129(28.1)	2471(33.2)
4.	Sarol	84(2.4)	321(8.0)	405(5.4)
5.	Umarthana	655(19.1)	1045(26.0)	1700(22.9)
Sub-total		2892(84.4)	3776(94.1)	6668(89.4)
Gullied lands		320(9.4)	46(1.2)	366(4.9)
Miscellaneous lands		214(6.2)	188(4.7)	402(5.5)
Grand Total		3426(100.0)	4010(100.0)	7436(100.0)

7. Area under different land capability classes:

Sr.No.	Land Capability Class	Subwatersheds(area in ha.)		Total area (%)	Soil series
		Bg2m(%)	Bg2n(%)		
1.	II	827(24.1)	1397(35.0)	2224(30.0)	1.Jagga-kheri 2.Sarol 3.Amli-para
2.	III	1032(30.0)	1036(26.0)	2068(27.9)	1.Amli-para 2.Jagga-kheri 3.Kamliakheri 4.Sarol
3.	IV	369(11.0)	298(7.0)	667(9.0)	1.Jagga-kheri 2.Kamliakheri
4.	VI	325(9.0)	725(18.1)	1050(14.0)	1.Umar-
5.	VII	123(4.0)	188(4.7)	311(4.0)	1.Umar-thana
Sub-total		2676(78.1)	3644(20.8)	6320(84.9)	
Gullied lands		320(9.4)	46(1.2)	366(4.9)	
Forests		216(6.3)	132(3.3)	348(4.7)	
Miscellaneous lands		214(6.2)	188(4.7)	402(5.5)	
Grand total		3426(100.0)	4010(100.0)	7436(100.0)	

8. Salient features and specific problems:

- a) Of the total area of 7436 ha. only 4959 ha.(66.6%) is suitable for agriculture, of which about 667 ha.(13.45%) is suitable for occasional and restricted farming.

- (b) At present 348 ha. (4.7%) area is under forest and needs proper forest management.
- (c) Nearly 4768ha. (64.1%) have moderate erosion and about 1651ha. (22.2%) have severe erosion problems.
- (d) Very shallow to shallow soils cover an area of 1700 ha. (22.9%) and are recommended for pasture and forest development programmes.
- (e) Out of the 5 soil series only three namely Kamlia kheri (33.2%), Umarthana (22.9%) and Jaggakheri (17.6%) series are relatively extensive.