

Detailed Soil Survey of Me4, Me5 and Me6 watersheds (Sahrai Nadi), Matatilla R.V.P. Catchment, Tehsil Mungaoli, Distt. GUNA M.P.

A B S T R A C T

1. Survey area : Me4, Me5, Me6 (Sahrai Nadi, Matatilla R.V.P. Catchment, Tehsil Mungaoli, Distt. GUNA (MP))
2. Total area : 14975 ha.
- 3.a. Kind of Survey : Detailed Soil Survey  
b. Period of Survey : Dec. 1983 to Feb. 1984
4. Soil series mapped and area covered by each Series

<u>Soil series</u>	<u>Area in ha.</u>	<u>Percentage</u>
1. Baloda	162	1.1
2. Jaggakhedi	4609	30.8
3. Kamliia Khedi	2241	15.0
4. Malhar garh	713	4.7
5. Nanaun	1143	7.6
6. Panchdaria	1464	9.8
7. Runeja	493	3.3
8. Sarol	3494	23.3
9. Miscellaneous land	656	4.4
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TOTAL	14975	100.00

5. Soil and Land classification for agricultural and non agricultural purposes

Land capability classification	Land capability unit.	Area in ha.	Series
5.1 Good arable land, minor limitation	IIes-1	631.2	Baloda Jaggakhedi Sarol Nanaun
5.2 Moderately good land, moderate limitation	IIIes-1	1915	Jaggakhedi Sarol, Nanaun
	IIIes-2	2351	Kamliakhedi
5.3 Marginal land, major limitation	IVes-1	66	Kamliakhedi
	IVes-2	349	Runeja

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Tot-1 10993 (73.4%)

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Non arable land

5.4 Grassland and forestry minor limitations	VIes-1	713	Malhargarh
	VIes-2	1005	Nanaun
5.5 Miscellaneous lands	VIes-3	1608	Panchdaria
		656	Runeja

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3962 (26.6%)

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6. Soil erosion

	Area in ha.	Percentage
None to slight erosion	90	0.6
Moderate erosion	8922	59.6
Severe erosion	5307	35.4
Miscellaneous	656	4.4
	14975	100

7. Salient Features :

- (a) Nearly 73.4 percent area of these watersheds is cultivable. Of this area good, moderately good land and marginal land occupy about 43.3 , 27.3% and 2.8 percent respectively. About 22.2 percent area is suitable for forestry and grassland.
- (b) About 32.8 per cent of the total survey area is under shallow and moderately deep soils and need special soil and water conservation treatments.
- (c) Moderate soil erosion is active on 8922 (59.6%) area, while 5307 (35.4%) area has either active or past reliefs of severe erosion.
- (d) An area of 10570 ha. (70.6%) of area is suitable for irrigation while rest of the land has either severe limitations or un-suitable for irrigation.
- (e) About 95.6 percent of the area has moderately high to high run off potential and runoff water can be harvested at suitable sites.