

Report on Detailed Soil Survey and Land Use of Nn4a, Nn4h, and Nn4j subwatersheds, Narmada catchment¹¹ Harda and Khirkiya Tahsil¹² Hoshangabad District Madhya Pradesh.

A B S T R A C T

1. Survey area - Nn4a, Nn4h and Nn4j Subwatersheds of Narmada R.V.P. catchment M.P.
2. Type of survey - Detailed Soil Survey
3. Total area mapped - 7591 ha
4. Period of survey - November 1989 to April 1990.
5. Soil Series mapped and their extent under different subwatersheds

Sr. No.	Soil series and symbols	Total area (ha)	Area under subwatersheds		
			Nn4a	Nn4h	Nn4j
1.	Domanmau (D)	298 (4.3)	187 (9.0)	111 (6.4)	-
2.	Jharpa (J)	3921 (56.5)	-	1479 (85.1)	2442 (77.7)
3.	Jamli (JL)	1679 (24.2)	1679 (81.5)	-	-
4.	Kamtada (K)	230 (3.3)	-	147 (8.5)	83 (2.6)
5.	Mandla (M)	79 (1.1)	-	-	79 (2.5)
6.	Pimpalghat (P)	196 (2.8)	196 (9.5)	-	-
7.	Rol gaon (R)	98 (1.4)	-	-	98 (3.1)
8.	Uda (U)	444 (6.4)	-	-	444 (14.1)
Total		6945 (100)	2062 (100)	1737 (100)	3146 (100)

i.e. Other features stream, Tank Road, Village situation. Sub merged area.	646	472	4	170
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Grand Total	7591	2534	1741	3316
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6. Land Capability classification :

Land capability Class	Area (ha)	%	Soil Series
II	1267	18.2	Harda, Jharpa, Jamli
III	3155	45.42	Harda Jharpa, Jamli
IV	2137	30.8	Domanmau Harda, Jharpa Jamli, Kantada, Pimal- ghat Rolgaon, Uda
VI	386	5.6	Domanmau, Kantada, Man Rolgaon.
6945		100.0	

7. Specific problems :

Sr. No.	Nature of Problems	Area in ha	%	Associated Soils
1.	Slight erosion	27	0.4	Jharpa
2.	Moderate erosion	4910	70.7	Domanmau, Harda, Jharpa, Jamli Kantada, Pimpalgh Rolgaon.
3.	Severe erosion	2008	28.9	Domanmau, Harda, Jharpa, Jamli, Kantada, Mandla, Rolgaon, Uda
Total		6945	100.0	

9. Salient features -

- The surveyed area is mostly covered by deep soils (88.2%)
- Arable lands suitable for agriculture comprising 4816 ha (Land capability Class II and III) account for 63.40 of the total area of 7591 ha of the subwatersheds.
- A large part of the surveyed area (49% ha) suffers from moderate erosion (70.7%)
- Areas suffering from severe erosion (28.9%) requires erosion control measures on priority basis.
- There is ample scope to improve the farming system by adopting integrated watershed management measures in the area.
