

Report on Detailed Soil Survey and Land use of Sub-watersheds 2D2A2s' and 2D2A2t of Morel F.P.R. Sub-catchment in Tehsil Lalsot of Dausa District and Tehsil Bamanwas of Sawai Madhopur District of Rajasthan State.

ABSTRACT

1. **Surveyed Area**
 - (a) **Hydrological Units** : 2D2A2s' and 2D2A2t Sub-watersheds of Morel F.P.R. Sub-catchment
 - (b) **Administrative Details** : Tehsil - Lalsot of Dausa District and Tehsil Bamanwas of Sawai Madhopur District of Rajasthan State
 - (c) **Geographical Location** : Latitude - 26° 32' to 26° 37' N
Longitude - 76° 23' to 76° 32' E
 - (d) **Agro - Ecological Region** : Eco-Region - 4 (Northern Plain and Central High Land including Aravallies, hot semi arid eco region with alluvium derived soils and GP of 90 -150 days
2. **Total Area** : 11791 ha
3. **No. of villages** : 29
4. **Kind of Survey** : Detailed Soil Survey
5. **Period of Survey** : December, 1999 to March, 2000
6. **Soil Series Mapped and Their Areal Extent**

Area ha/percentage

Sl. No.	Name of the Soil Series	Sub-watershed Covered		Total Area	Percentage
		2D2A2s'	2D2A2t		
1.	Amawara	69	534	603	5.1
2.	Baliawas	108	257	365	3.1
3.	Bandhawal	2280	-	2280	19.4
4.	Binori	78	175	253	2.1
5.	Diwanchali Kalan	966	-	966	8.2
6.	Dungarwara	1796	1020	2816	23.9
7.	Isorda	189	756	945	8.0
8.	Paraken	791	590	1381	11.7
9.	Rivali	109	518	627	5.3
10.	Safipura	668	-	668	5.7
11.	Thanpura	512	42	554	4.7
	Miscellaneous area	196	137	333	2.8
	Total	7762	4029	11791	100.0

7. Land Capability Classes

Land capability Class	Area in ha.	Percentage
A. ARABLE LANDS		
II Good lands with minor limitations	4037	35.2
III Mod. Good land with major limitations	802	6.8
IV Fairly good lands with occasional and major limitations	2365	20.1
Total	7204	62.1
B. NON ARABLE LANDS		
VI Suitable for pasture and forestry with minor limitations	1438	12.2
VII Suitable for pasture and forestry with major limitations	2816	23.9
Total	4254	36.1
Miscellaneous Land	333	2.8
Grand Total	11791	100.0

8. Area Under Different Erosion Classes

Sl. No.	Erosion	Area in ha.	Percentage
1.	Nil to Slight	1572	13.3
2.	Moderate	4486	38.1
3.	Severe	5325	45.2
4.	Very Severe	75	0.6
5.	Miscellaneous	333	2.8
	Grand Total	11791	100.0

9. Salient Features

- 62.1 % area is suitable for agriculture while 36.1 % area is suitable for pasture and forestry. Miscellaneous area covers 2.8 % of the total area.
- An area of 1572 ha (13.3 %) is safe from erosion hazard, whereas 4486 ha (38.1%), 5325 ha (45.2 %) and 75 ha (0.6 %) area is affected by moderate, severe and very severe erosion respectively which needs proper attention.
- About 7106 ha (60.3%) area is very gently to gently sloping where as 2623 ha (22.2%) is moderately to moderately steep sloping and about 1729 ha (14.7 %) is steep to very very steep sloping.