

Report on Detailed Soil Survey and Land-use of 2D2A2g, 2D2A2n', 2D2A2p, 2D2A1q and 2D2A2q' subwatershed of Morel (2D2A) subcatchment of Banas FPR (2D2) catchment in Tehsil Bamanwas and Gangapur city of Sawai Madhopur and Nadauti of Karouli District of Rajasthan State.

ABSTRACT

- **Survey Area** : 2D2A2g, 2D2A2n', 2D2A2p, 2D2A2q and 2D2A2q' subwatershed of Morel (2D2A) subcatchment of Banas (2D2) FPR catchment in Tehsil Bamanwas and Gangapur city of Sawai Madhopur and Nadauti of Karouli District of Rajasthan State.
- **Total Area Surveyed** : 22,545 ha.
- **Kind of Survey** : Detailed Soil Survey
- **Period of Survey** : December, 1999 to July, 2000
- **Soil Series mapping and their extent**

S.No.	Soil Series	Area in ha	Percentage
1.	Amawara	2468	11.0
2.	Badjhadauli	293	1.2
3.	Bandhawal	1043	4.6
4.	Bholanpur	2119	9.4
5.	Dungarwara	4085	18.1
6.	Jeewad	983	4.4
7.	Moran Sager	352	1.6
8.	Paraken	440	1.9
9.	Radheki	1363	6.0
10.	Ranila	159	0.7
11.	Safipura	8054	35.8
12.	Thanpura	391	1.7
13.	Toda	62	0.3
14.	Unchi Gwari	288	1.3
	Miscellaneous and Area Under Water	445	2.0
	Grand-total	22545	100.0

➤ Land Capability Classes

Land capability classes	Soil Series	Area in ha	Percentage
a. Arabal lands			
II	Amawara, Badjhadauli, Bandhawal, Bholanpur, Jeewad, Moransagar, Radheki, Ranila, Safipur	14970	66.4
III	Amawara, Jeewad,	616	2.7
IV	Amawara, Badjhadauli, Thanpura, Toda, Jeewad, Radheki, Unchi Gwari,	1989	8.9
b. Non-arable lands			
VI	Paraken	440	1.9
VII	Dungarwara	4085	18.1
c. Miscellaneous land			
	i) Area underwater,	102	0.5
	ii) Habitation, road etc.	343	1.5
	Total	22545	100.0

➤ Salient Features

- ⇒ Of the total area under report, nearly 15.6 % area (3500 ha.) is subjected to slight erosion, 53.5% area (12086 ha.) to moderate erosion and about 28.9% area (6514 ha.) to severe erosion which needs suitable soil and water conservation measures.
- ⇒ Of the total area nearly 74.9 % (16866 ha.) has very deep soil suitable for cultivation.
- ⇒ Of the total area about 23.1% (5204 ha.) area is shallow to moderately deep. It is well suited for forestry and pastures.