

Report on the Detailed Soil Survey and Land use of Da2c, Dd1f, Dd2d, De1c Sub-watersheds of Dantiwada Catchment (Banas R.V.P.) Tehsils - Aburoad and Pindwada Distt. Sirohi, Rajasthan.

A B S T R A C T

1. Surveyed Area : Dd1f, Dd2d, Da2c, De1c, Sub-watersheds of Dantiwada Catchment (Banas R.V.P.), Tehsils Aburoad and Pindwada, Distt. Sirohi, Rajasthan.
2. Location : Latitudes : $24^{\circ}29'$ to $24^{\circ}42'$
Longitudes: $72^{\circ}39'50''$ to $72^{\circ}59''$
3. Total Surveyed Area : 8547 Ha.
4. No. of Villages : 19
5. No. of mapping units : 24
6. Kind of Survey : Detailed Soil Survey
7. Period of Survey : May 1994 to June 1994

Soil Series mapped with extent under different
Sub-watersheds.

(Area in Ha)

Sl. No.	Name of the Soil Series	No. of mapping units	Subwatersheds				Total Area
			Dd1f	Da2c	De1c	Dd2d	
1	2	3	4	5	6	7	8
1.	Achpura	3	34 (0.4)	-	361 (4.3)	353 (4.1)	748 (8.7)
2.	Bhimana	4	-	-	-	272 (3.2)	272 (3.2)
3.	Chandela	3	31 (0.4)		598 (7.0)	578 (6.8)	1207 (14.1)
4.	Kasindra	1	-	-	253 (2.9)	91 (1.0)	344 (4.1)
5.	Morthala	5	-	593 (7.0)	65 (0.7)	103 (1.2)	761 (8.9)
6.	Nagpur	5	1811 (21.2)	1799 (21.0)	365 (4.3)	195 (2.3)	4170 (48.8)
7.	Panchdevela	3	-	127 (1.5)	369 (4.3)	31 (0.4)	527 (6.2)
Sub Total		24	1876 (22.0)	2519 (29.5)	2011 (23.5)	1623 (19.0)	8029 (94.0)
Misc. Land			71 (0.8)	41 (0.5)	246 (2.8)	160 (1.9)	518 (6.0)
Grand Total			1947 (22.8)	2560 (30.0)	2257 (26.3)	1783 (20.9)	8547 (100.0)

Sub Watershed-wise Area under different Land
Capability Classes

(Area in Ha)

Sl. No.	Land Capability Classes	Sub-watershed area in Ha.			
		Dd1f	Da2c	De1c	Dd2d
1.	II	2 (0.02)	-	638 (7.4)	453 (5.8)
2.	III	61 (0.7)	-	540 (6.33)	749 (8.7)
3.	IV	2 (0.02)	593 (6.9)	99 (1.2)	195 (2.3)
4.	VI	-	127 (1.5)	369 (4.3)	31 (0.4)
5.	P/M	1811 (21.2)	1799 (21.0)	365 (4.2)	195 (2.3)
Sub Total		1876 (21.94)	2519 (29.4)	2011 (23.43)	1623 (19.5)
Misc. lands		71 (0.03)	41 (0.47)	246 (2.00)	160 (1.87)
Grand Total		1947 (22.77)	2560 (29.07)	2257 (26.23)	1783 (21.30)

Salient features :

Nagpura series is most extensive (4170 ha.), (48.78 %) out of total surveyed area. Only 4249 ha. (49.71 %) is suitable for agriculture.

Around 4298 ha. area falls under forest land use where proper forest management practices are required.

Out of total surveyed area 1798 ha. (21 %) have moderate erosion hazards, whereas 5024 ha. (50.0 %) have severe erosion problem. Suitable soil conservation practices are required to manage, both type of eroded areas.

Very shallow to shallow soils cover an area of about 4170 ha. (48.78 %), which are suitable for pasture and forest development.