

**REPORT ON DETAILED SOIL SURVEY AND LAND USE OF Db4g, Db5c, Db5d, Db5n, Db5p AND Db5q, SUBWATERSHEDS OF DANTIWADA CATCHMENT(BANAS R.V.P.) TEHSIL - ABU ROAD, DISTRICT - SIROHI, RAJASTHAN.**

**ABSTRACT**

1. Surveyed area : Db4g, Db5c, Db5d, Db5n, Db5p and Db5q Subwatersheds of Dantiwada Catchment, Rajasthan.
2. Location : Latitudes : 24 22'N to 24 27'N  
Longitudes: 72 42'E to 72 53'E
3. Total area Surveyed & Mapped : 9500 ha
4. Type of Survey : Detailed Soil Survey
5. Period of Survey : November, 1998 to May, 1999
6. No of Villages : 8 Nos
7. Agro Climatic Region : 13
8. Number of Soil Mapping Units : 11

SOIL SERIES MAPPED WITH EXTENT UNDER DIFFERENT SUBWATERSHEDS

(Area in ha.)

Sl. No.	Name of the Soil Series	No. of Soil Mapping Units	S u b w a t e r s h e d s						Total Area	Percent- age
			Db4g	Db5c	Db5d	Db5n	Db5p	Db5q		
1.	Achpura	3	34 (0.3)	6 (0.06)	25 (0.3)	25 (0.3)	-	-	90	0.9
2.	Chandela	2	46 (0.5)	39 (0.4)	92 (1.0)	88 (0.9)	4 (0.4)	13 (0.1)	282	2.9
3.	Nagpura	4	1498 (15.8)	999 (10.5)	1596 (16.9)	535 (5.6)	2033 (21.4)	1770 (18.6)	8431	88.8
4.	Panchdevla	2	97 (1.0)	98 (1.0)	65 (0.7)	95 (1.0)	81 (0.9)	58 (0.7)	494	5.3
	Sub-total	11	1675 (17.7)	1142 (12.0)	1778 (18.7)	743 (7.8)	2118 (22.3)	1841 (19.3)	9297	97.9
	Misc. Land	-	38 (0.4)	24 (0.3)	57 (0.5)	38 (0.4)	28 (0.3)	18 (0.2)	203	2.1
	<b>Grand Total</b>	<b>11</b>	<b>1713 (18.0)</b>	<b>1166 (12.3)</b>	<b>1835 (19.3)</b>	<b>781 (8.2)</b>	<b>2146 (22.6)</b>	<b>1859 (19.6)</b>	<b>9500</b>	<b>100.0</b>

10. SUBWATERSHED-WISE AREA UNDER DIFFERENT LAND CAPABILITY CLASSES

(Area in ha.)

Sl. No.	Land Capability Classes	S u b w a t e r s h e d s						Total
		Db4g	Db5c	Db5d	Db5n	Db5p	Db5q	
1.	II	47 (0.5)	9 (0.09)	68 (0.7)	56 (0.6)	-	-	180 (1.9)
2.	IV	130 (1.4)	134 (1.4)	114 (1.2)	152 (1.6)	85 (0.9)	71 (0.7)	686 (7.2)
3.	VII	99 (1.0)	18 (0.2)	140 (1.6)	8 (0.08)	-	-	265 (2.8)
4.	P/M	1399 (14.8)	981 (10.3)	1456 (15.3)	527 (5.5)	2033 (21.4)	1770 (18.6)	8166 (85.9)
Sub-Total		1675 (17.7)	1142 (12.0)	1778 (18.7)	743 (7.8)	2118 (22.3)	1841 (19.4)	9297 (97.9)
Misc. Land		38 (0.4)	24 (0.3)	57 (0.5)	38 (0.4)	28 (0.3)	18 (0.2)	203 (2.1)
<b>Grand Total</b>		<b>1713 (18.0)</b>	<b>1166 (12.3)</b>	<b>1835 (19.3)</b>	<b>781 (8.2)</b>	<b>2146 (22.6)</b>	<b>1859 (19.6)</b>	<b>9500 (100.0)</b>

## 11. Salient Features:

Nagpura series is most extensive 8431 ha.(88.8%). Out of total surveyed area only 1332 ha. (11.7%) is suitable for agriculture.

Around 8166 ha.(86%) area falls under forest land and require proper forest management plan.

Out of total surveyed area 153 ha. (1.7%) have moderate erosion hazards, whereas 9117(95.9%) have severe erosion problems. Suitable soil conservation practices are required to manage both types of eroded lands.

Very shallow to shallow soils cover an area of 8925 ha. (93.9%) which are suitable for pasture and forest development.