

REPORT ON DETAILED SOIL SURVEY AND LAND USE OF Dc2e, Dc2h, Dc2k AND Dc2m SUBWATERSHEDS, DANTIWADA CATCHMENT (BANAS RVP), TEHSIL ABU ROAD AND PINDWARA, DISTRICT SIROHI, RAJASTHAN

ABSTRACT

1. SURVEY AREA : Dc2e, Dc2h, Dc2k AND Dc2m Subwatersheds, Dantiwada Catchment (Banas RVP), Tehsil Abu Road and Pindwara, District Sirohi, Rajasthan
2. LOCATION : Latitude: - 24° 30' to 24° 45' N
Longitude: - 72° 40' to 72° 50' E
3. TOTAL AREA SURVEYED: 8,362 ha
4. TYPE OF SURVEY : Detailed Soil Survey
5. PERIOD OF SURVEY : November, 1998 to April, 1999 & January, 2007
6. NUMBER OF VILLAGES: 17
COVERED
7. AGROCLIMATIC REGION: 14 (Western Dry Region)
8. NUMBER OF SOIL : 26
MAPPING UNITS

9. SERIES WISE DISTRIBUTION OF AREA UNDER DIFFERENT SUBWATERSHEDS

Sl. No.	Soil Series	Subwatersheds – Area in ha (%)				
		Dc2e	Dc2h	Dc2k	Dc2m	TOTAL
1.	Dhundhai	-	21 (1.1)	-	25 (0.9)	46 (0.6)
2.	Goagaon	1009 (45.7)	1178 (61.6)	1541 (97.9)	2515 (94.2)	6243 (74.7)
3.	Kotara	80 (3.6)	-	-	-	80 (1.0)
4.	Mudarla	37 (1.7)	-	-	-	37 (0.4)
5.	Nagpura	934 (42.3)	-	-	-	934 (11.2)
6.	Salgaon	24 (1.1)	34 (1.8)	2 (0.1)	27 (1.0)	87 (1.0)
7.	Torna	68 (3.1)	20 (1.0)	12 (0.8)	47 (1.8)	147 (1.8)
Sub Total		2155 (97.5)	1253 (65.5)	1555 (98.8)	2614 (97.9)	7574 (90.6)
Misc. Land		55 (2.5)	659 (34.5)	19 (1.2)	55 (2.1)	788 (9.4)
Grand Total		2207 (100.0)	1912 (100.0)	1574 (100.0)	2669 (100.0)	8362 (100.0)

10. DISTRIBUTION OF LAND CAPABILITY UNITS UNDER DIFFERENT SUBWATERSHEDS

SI No.	Land Capability Units	Dc2e	Subwatersheds - Area in ha (%)			TOTAL
			Dc2h	Dc2k	Dc2m	
1.	II	88 4.0	-	-	-	88 1.1
2.	IIs	12 0.5	18 0.9	7 0.4	27 1.0	64 0.8
3.	IIs	-	4 0.2	-	5 0.2	9 0.1
4.	IIIe	29 1.3	-	-	-	29 0.3
5.	IIIes	56 2.5	19 0.2	2 0.1	34 1.3	111 1.3
6.	IVes-1	-	-	3 0.2	6 0.2	9 0.1
7.	IVes-2	15 0.7	-	2 0.1	19 0.7	36 0.4
8.	VIes	9 0.4	2 0.02	-	8 0.3	19 0.2
9.	VIIes	80 3.6	92 4.8	-	130 4.9	302 3.6
10.	P/M	1863 84.4	1118 58.5	1541 97.9	2385 89.4	6907 82.6
SUBTOTAL		2152 97.5	1253 65.5	1555 98.8	2614 97.9	7574 90.6
MISC. LAND		55 2.5	659 34.5	19 1.2	55 2.1	788 9.4
GRAND TOTAL		2207 (100.0)	1912 (100.0)	1574 (100.0)	2669 (100.0)	8362 (100.0)

11. SALIENT FEATURES

- Area suitable for agriculture is only 301 ha (3.6%) of the total surveyed area while area suitable for occasional cultivation is 54 ha (0.6%).
- 6907 ha (82.6%) area is under forest in subwatersheds Dc2k and Dc2m moderately dense to dense vegetative cover is observed while in the subwatersheds Dc2e and Dc2h there is less forest cover and proper forest management practices are required.
- Very shallow to shallow soils occupy an area of 7177 ha (85.8%) in the total surveyed area.
- Very shallow to shallow soils belonging to Nagpura and Goagaon series and cover 85.8 per cent in the total surveyed area. This area account for more than 90 percent area each in Dc2k and Dc2m subwatersheds, followed by 42.3 percent in Dc2e subwatershed.