

REPORT ON DETAILED SOIL SURVEY AND LAND USE
OF Ra2a SUBWATERSHED OF REHAND DAM CATCHMENT
(SONE F.P.R.), DISTT. SONEBHADRA,
UTTAR PRADESH

A B S T R A C T

1. Surveyed area: Ra2a Subwatershed of Rehand Dam Catchment, P.S. Dudhi, Distt. Sonebhadra in Uttar Pradesh.
2. Agro-climatic zone and geographical extent: Zone No. 1. 8 (Central plateau & Hills) as per planning Commissioner lying in between $24^{\circ} 3'$ to $24^{\circ} 8'$ N latitude and $82^{\circ} 56'$ to $83^{\circ} 5'$ E longitude.
3. Total area mapped: 5,800 ha.
4. Type of Survey : Detailed Soil Survey.
5. Period of Survey : May'92 to June'92
6. Soil series mapped and their extent.

Sl. No.	Soil series (Symbol)	Total mapping units	Total area (ha.)	%
1.	Deori (DR)	5	556	9.6
2.	Gotara (GR)	3	208	3.6
3.	Karaya (K)	2	64	1.1
4.	Korkori (KR)	5	936	16.2
5.	Pusaro (P)	3	124	2.1
6.	Parkala (PR)	5	506	8.7
Total:		23	2394	41.3

Association of Deori and Korkori Series.	2905	50.1
Misc. (Tank, river, road, nalah, reservoir etc.)	501	8.6

Grand total:	23	5,800	100
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7. Land Capability class, area in ha. & percentage (%):

Sl.No.	Land capability class	Total area in ha.	%
1.	II	586	10.1
2.	III	560	9.6
3.	IV	381	6.7
4.	VI	867	14.9
Total:		2394	41.3
Association of Deori and Korkori Series.		2905	50.1
Misc.		501	8.6
Grand total:		5,800	100

8. Specific problems:

Sl.No..	Nature of problems	Area in ha.	%
1.	Moderate erosion.	965	16.6
2.	Severe erosion.	1100	19.0
3.	Very severe erosion.	57	1.0
4.	Limited rooting depth.	1492	25.7
5.	Unfavourable texture.	1182	20.4
6.	Surface gravelliness. (either very heavy or too light)	1148	19.8