

Detailed Soil Survey of Kagdi watershed ( Me5c and Me5e Subwatersheds) and Gujaria watershed ( Me6b and Me6d Subwatersheds), Mahi R.V.P. Catchment , Tehsil and District Banswara, Rajasthan.

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A B S T R A C T

1. Survey area : High priority subwatersheds, Me5c, Me5e, Me6b and Me6d, Mahi R.V.P. Catchment, Tehsil and District Banswara, Rajasthan.
2. Total area : 9966 ha.
3. (a) Kind of survey : Detailed soil survey  
(b) Period of survey: Dec.77 to May 78.
4. Soil series mapped and area covered under each series

<u>Name of the soil series</u>	<u>Area in ha.</u>	<u>Percent</u>
1. Arnia ✓	524 ✓	5.2
2. Badgaon ✓	1146 ✓	11.6
3. Falwa ✓	1503 ✓	15.0
4. Ganpatpura ✓	230 ✓	2.3
5. Gordi ✓	1605 ✓	16.0
6. Galkia ✓	809 ✓	8.1
7. Kupda ✓	1869 ✓	18.8
8. Lodha ✓	480 ✓	4.9
9. Ojharia ✓	863 ✓	8.7
10. Sarda ✓	230 ✓	2.3
11. Sundanpur ✓	333 ✓	3.4
12. Miscellaneous lands	374	3.7
	<u>9966</u>	<u>100.0</u>

5. Land capability class :

<u>Land capability unit</u>	<u>Area in ha</u>	<u>Percent</u>	<u>Soil series</u>
1. II-1	885	8.9	Arnia, Galkia and Kupda
2. IIIs-1	1083	11.0	Badgaon, Sarda and Sundanpur
3. IIe-1	1529	15.3	Arnia, Galkia, and Kupda,
4. IIes-1	584	5.9	Badgaon, Sarda and Sundanpur
5. IIIe-1	751	7.5	<del>Galkia</del> & Kupda
6. IIIe-2	393	3.9	Ganpatpura & Gordi
7. IIIe-3	1398	14.0	Ganpatpura and Gordi
8. IIIes-1	42	0.4	Badgaon
9. IVe-1	81	0.8	Gordi and Kupda
Sub total Arable- classes	<u>6746</u>	<u>67.7</u>	

<u>Land capability unit</u>	<u>Area in ha</u>	<u>Percent</u>	<u>Soil series</u>
1. VIes -1	650	6.6	Lodha & Ojharria
2. VIes -2	303	3.1	Lodha & Ojharria
3. VIIes-1	390	3.9	Ojharria
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Sub total Non-arable classes	1343	13.6	
Forest lands	1503	15.0	
Miscellaneous lands	374	3.7	
Sub-total	1877	18.7	
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Total	9966	100.0	

6. Area under different land irrigability classes

	<u>Restriction</u>	<u>Area in ha</u>	<u>Percent</u>
i)	Class 2 - moderate	3345	33.7
ii)	Class 3 - severe	1566	15.7
iii)	Class 4 - Very severe	1835	18.5
iv)	Class 6 - Not suited for irrigation	1343	13.6
	Total	8089	81.3
v)	Forest and miscellaneous lands	1877	18.7
	Grand total	9966	100.0

7. Area under different erosion phases

	<u>Erosion</u>	<u>Area in ha</u>	<u>Percent</u>
1.	Slight	1968	19.7
2.	Moderate	5577	56.0
3.	Severe	2047	20.6
.	Miscellaneous lands	374	3.7
	Total	9966	100.0

