

Report on detailed soil survey of Ba3a and Bd1a subwatersheds of Lower Bhawani catchment in Coimbatore district, Tamilnadu".

Combined Abstract for Whole Area

1. Survey area : Ba3a and Bd1a subwatersheds of Lower Bhawani catchment in Avanashi taluk of Coimbatore district, Tamilnadu.
2. Total area surveyed: 2505 hectares.
3. Period of survey: June to August, 1976
4. Soil series mapped and area in hectares under each series

<u>Soil series name</u>	<u>Area in hectares</u>	<u>% of the total area</u>
1. Doddabhavi	283	11.3
2. Jadayampalyam	987	39.4
3. Kuttaripalyam	311	12.4
4. Sennamalai	723	28.8
5. Vellipalyam	119	4.7
6. Miscellaneous	<u>82</u>	3.2
	2505	

5. Land capability classification:

<u>Class</u>	<u>Area in hect.</u>	<u>% to the total area</u>	<u>Names of the Soil series</u>
II	283	11.3	i) Doddabhavi
III	1149	45.8	i) Jadayampalyam
			ii) Kuttaripalyam
IV	438	17.5	i) Jadayampalyam
			ii) Sennamalai
			iii) Vellipalyam
VI	553	22.0	i) Sennamalai
			ii) Vellipalyam
	<u>82</u>	<u>3.2</u>	Miscellaneous
	2505		

6. Specific problems

1. Severe erosion from moderately deep and deeper soils - 716 hect
2. Moderate erosion from moderately deep and deeper soils situated on 'C' slope - 527 hect.
3. Shallow rooting depth - 842 hect.

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Abstract for Ba3a subwatershed:

1. Survey area: Ba3a subwatershed of Lower Bhawani catchment in Avanashi taluk of Coimbatore district, Tamilnadu.
2. Total area surveyed: 1559 hectares
3. Period of survey: June to August 1976
4. Soil series mapped and area in hectares under each series

<u>Soil series name</u>	<u>Area in hect.</u>	<u>% of the total area surveyed</u>
1. Doddabhavi	179	
2. Jadayampalyam	712	
3. Kuttaripalyam	201	
4. Sennamalai	380	
5. Vellipalyam	40	
6. Miscellaneous	<u>47</u>	
	1559	

5. Land capability classification

<u>Class</u>	<u>Area in hect.</u>	<u>% of total area</u>	<u>Name of the soil series</u>
II	179	11.5	i) Doddabhavi
III	818	52.4	i) Jadayampalyam
			ii) Kuttaripalyam
IV	255	16.3	i) Jadayampalyam
			ii) Sennamalai
			iii) Vellipalyam
VI	260	16.7	i) Sennamalai
			ii) Vellipalyam
	<u>47</u>	3.0	Miscellaneous
	1559		

6. Specific problems:

		<u>Percentage</u>
1. Severe erosion from moderately deep and deeper soils	- 442 hect.	28.3
2. Moderate erosion from moderately deep and deeper soils situated on 'C' slopes-	366 "	23.5
3. Shallow rooting depth	- 420 "	26.9

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Abstract for Bd1a subwatershed

1. Survey area : Bd1a subwatershed of Lower Bhawani catchment in Avanashi taluk of Coimbatore district, Tamilnadu
2. Total area surveyed: 946 hectares
3. Period of survey: June to August 1976
4. Soil series mapped and area in hectares under each series

<u>Soil series name</u>	<u>Area in hectares</u>	<u>% to the total area</u>
1. Doddabhavi	104	11.0
2. Jadayampalyam	275	29.0
3. Kuttaripalyam	110	11.6
4. Sennamalalai	343	36.2
5. Vellipalyam	79	8.3
6. Miscellaneous	<u>35</u>	3.7
	946	

5. Land capability classification:

<u>Class</u>	<u>Area in hect.</u>	<u>% of the area</u>	<u>Name of the soil series</u>
II	104	11.0	i) Doddabhavi
III	331	35.0	i) Jadayampalyam
			ii) Kuttaripalyam
IV	183	19.3	i) Jadayampalyam
			ii) Sennamalalai
			iii) Vellipalyam
VI	293	31.0	i) Sennamalalai
			ii) Vellipalyam
	<u>35</u>	3.6	Miscellaneous
	946		

6. Specific problems:

		<u>Percentage</u>
1. Severe erosion from moderately deep and deeper soils	- 274 hect.	28.7
2. Moderate erosion from moderately deep and deeper soils situated on 'C' slopes	- 161 "	17.0
3. Shallow rooting depth	- 842 "	44.6