

A B S T R A C T

1. Survey area :- 1) Priority subwatersheds :- TB 1/1, TB 1/2, TB 5/2, TB 5/3 and TR 14/1 of Ukai Catchment. Maharashtra

2. (a) Total area reported and mapped :- 22,623 ha

Priority	TB 1/1	-	6815 ha
"	TB 1/2	-	2996 ha
"	TB 5/2	-	4426 ha
"	TB 5/3	-	4419 ha
"	TR 14/1	-	3957 ha

22,623

(b) Period of Survey : Jan. 77 to April, 77

3. Soil Series mapped and area covered by each (ha)

Name of Series	Total	TB 1/1	TB 1/2	TB 5/2	TB 5/3	TR 14/1
1. Anjen-vihira	2934 (13.6)	7 (0.1)	575 (26.3)	1025 (23.4)	1158 (27.2)	169 (4.4)
2. Chudana	3750 (17.4)	146 (2.4)	246 (8.8)	1508 (34.4)	1568 (36.8)	282 (7.3)
3. Daul	728 (3.4)	233 (3.8)	-	-	-	495 (12.8)
4. Kharda	674 (3.1)	-	-	160 (3.7)	127 (3.0)	387 (10.0)
5. Malpur	2037 (9.5)	104 (1.7)	292 (10.3)	965 (22.0)	454 (10.7)	222 (5.7)
6. Mandal	3173 (14.7)	864 (14.0)	698 (24.6)	372 (8.5)	279 (6.5)	960 (24.8)
7. Shendwada	446 (2.1)	-	-	-	53 (1.2)	393 (10.1)
8. Titri	2659 (12.4)	1057 (17.6)	545 (19.1)	277 (6.3)	317 (7.4)	465 (12.0)
9. Vani	5114 (23.8)	3753 (60.9)	479 (16.9)	73 (1.7)	309 (7.2)	500 (12.9)
	21,515	6,164	2,013	4,830	4,295	3,873

4. Land Capability Classification :-

Land Capability Units	Priority Subwatershed TB 1/1, TB 5/2 and TB 5/3 (Area in ha %)	Priority Subwatershed TR 14/1 (Area in ha %)	Total (area in ha %)	Soil Series
IIs-1	4240 (24.0)	367(9.4)	4607 (21.4)	Shendwada and Vani
IIes-1	427 (2.4)	526(13.6)	953 (4.4)	" "
IIIe-1	- -	160 (4.1)	160 (0.7)	Daul
IIIes-1	2719 (15.4)	1227(31.7)	3946 (18.4)	Mandal and Titri
IVe-1	74 (0.4)	68 (1.8)	142 (0.7)	Daul
IVes-1	1020 (5.8)	198 (5.1)	1218 (5.7)	Titri
IVes-2	2677 (15.2)	223 (5.8)	2900 (13.5)	Chudana, Kharda and Malpur
VIe-1	159(0.9)	267 (6.9)	426 (2.0)	Daul
VIes-1	668 (3.8)	-	668 (3.1)	Titri
VIes-2	2893 (16.4)	668 (17.2)	3561 (16.5)	Chudana, Kharda and Malpur
VIIes-1	2010 (11.4)	169 (4.4)	3561 (16.5)	Anjanvihira
VIIes-2	755 (4.3)	-	755 (4.3)	" "
<b>TOTAL</b>	<b>17642</b>	<b>3873</b>	<b>21515</b>	

5. Specific problems :-

Nature of Problem	(Problem area (ha))						Associated Soils
	Total (%)	TB 1/1	TB 1/2	TB 5/2	TB 5/3	TR 14/1	
1. Moderate erosion	6886 (41.0)	1258	1283	1654	1515	1176	Chudana, Daul, Kharda, Malpur, Mandal, Shendwada, Titri & Vani
2. Severe to very severe erosion	9909 (59.0)	1176	1165	2713	2525	2330	Anjanvihira, Chudana, Daul, Kharda, Malpur & Titri
	<b>16795</b>	<b>2434</b>	<b>2448</b>	<b>4367</b>	<b>4040</b>	<b>3506</b>	