REPORT ON DETAILED SOIL SURVEY AND LAND USE OF Uk3a, Uk3c, Uk3d, Uk3f and Uk3g subwatersheds, Ukai catchment, Maharashtra

A B S T R A C T

1(a) Surveyed area - Subwatersheds Uk3a, Uk3c, Uk3d, Uk3f and Uk3g, Ukai catchment, Maharashtra.

(b) Type of survey - Detailed Soil Survey

2(a) Total area reported and mapped - 25,049 ha

(b) Period of Survey - December 1988 to June 1989

3(1) Soil series mapped and their extent (ha) and distribution of subwatersheds

Sr. No.	Name of series	Total area in ha and Percentage	SUBWATERSHEDS				
			Uk3a	Uk3c	Uk3d	Uk3f	Uk3g
1.	Chudana	2608 (11.0)	635 (10.6)	649 (14.3)	988 (24.2)	93 (2.7)	243 (4.3)
2.	Jotvada	3159 (13.3)	486 (8.1)	215 (4.7)	186 (4.6)	851 (24.4)	1421 (25.3)
3.	Jamoda	171 (0.7)	171 (2.8)	-	-	-	-
4.	Kherpada	4695 (19.8)	254 (4.2)	630 (13.9)	1240 (30.4)	511 (14.6)	2060 (36.6)
5.	Mandal	2699 (11.4)	403 (6.7)	442 (9.8)	272 (6.7)	524 (15.0)	1058 (18.8)
6.	Nalgaon	2567 (10.8)	786 (13.1)	938 (20.8)	524 (12.8)	237 (6.8)	82 (1.5)
7.	Palsoda	1024 (4.3)	238 (4.0)	165 (3.7)	249 (6.1)	249 (7.1)	123 (2.2)
8.	Pendgaon	1167 (4.9)	-	-	-	801 (22.9)	366 (6.5)
9.	Shendvada	4443 (18.8)	2797 (46.5)	808 (17.9)	391 (9.6)	178 (5.1)	269 (4.8)
10.	Vani	1193 (5.0)	242 (4.0)	673 (14.9)	229 (5.6)	49 (1.4)	-
	Total	23726 (100.0)	6012 (100.0)	4520 (100.0)	4079 (100.0)	3493 (100.0)	5622 (100.0)
	Miscellaneous i.e. streams habitation, roads etc,						

3(ii) Subwatershedwise areas under various land capability classes

Capability class	Total Area in ha	Distribution of Area under subwatersheds in ha					Soil Series
		Uk3a	Uk3c	Uk3d	Uk3f	Uk3g	
II	9038 (43.6)	3355 (57.0)	1653 (40.7)	1055 (33.2)	1309 (38.3)	1666 (39.9)	Jotvada, Palsoda Shendvada, Vani
III	3332 (16.1)	821 (14.0)	634 (15.6)	272 (8.5)	524 (15.4)	1081 (25.8)	Jotvada, Jamoda, Mandal, Palsoda, Shendvada
IV	6333 (30.6)	1356 (23.1)	1544 (38.0)	1497 (47.0)	1149 (33.7)	787 (18.8)	Chudana, Jotvada, Nalbandi, Palsoda, Pendgaon
VI	525 (2.5)	231 (3.9)	135 (3.3)	124 (3.9)	35 (1.0)	-	Chudana, Jamoda, Kherpada
VII	1495 (7.2)	120 (2.0)	98 (2.4)	235 (7.4)	396 (11.6)	646 (15.5)	Kherpada
Total	20723 (100.0)	5883 (100.0)	4064 (100.0)	3183 (100.0)	3413 (100.0)	4180 (100.0)	
Reserved forest	3003	129	456	896	80	1442	
Grand Total	23726	6012	4520	4079	3493	5622	

Salient features and specific problems :

1) Nearly 78.2 percent of the surveyed area suffers from moderate erosion and around 24.6 percent from severe erosion.
2) About 18703 hectares of area, constituting 90.3 percent of the total, is suitable for agriculture.
3) Nearly 46.5 percent of the area is covered by very shallow to shallow soils and 42.1 percent by deep to very deep soils.