

REPORT ON SOIL AND LAND USE INVENTORY, POTENTIAL,
PROBLEMS AND TREATMENT NEEDS OF SANGLI DISTRICT,
MAHARASHTRA.

i) Abstract

1. Survey area : Sangli District (Maharashtra State)
2. a) Total area of district : 8,61,052 ha
b) Total area reported and mapped : 8,61,052 ha
3. Period of Survey : Dec. 1977 to March 1979.
4. Soil series mapped and area (ha) covered :

(ii)

4. Soil Series mapped and area (ha) covered :

Sr. No.	Soil Series	Talukas								District Total
		Atpadi	Jath	Kavathe Mahakal	Khanapur	Miraj	Shirala	Tasgaon	Walwa	
1	2	3	4	5	6	7	8	9	10	11
1.	Avandi	17963 (22.8)	44269 (21.0)	21102 (30.9)	45123 (37.2)	20934 (24.6)	17541 (30.1)	30957 (29.4)	9290 (13.0)	2,07,179 (25.9)
2.	Borgaon	-	572 (0.3)	498 (0.7)	3720 (3.1)	6720 (7.9)	-	4356 (4.1)	15426 (21.5)	31,292 (3.9)
3.	Dhavdi	6748 (8.6)	8014 (3.8)	995 (1.5)	2576 (2.1)	775 (0.9)	-	2178 (2.1)	1875 (2.6)	23,161 (2.9)
4.	Kande	-	-	-	-	8701 (10.2)	5023 (8.6)	-	-	13,724 (1.7)
5.	Khundlapur	-	-	-	-	-	7646 (13.1)	-	1875 (2.6)	9,521 (1.2)
6.	Kenjal	5653 (7.2)	25856 (12.3)	2688 (3.9)	17171 (14.1)	16196 (19.0)	-	22479 (21.3)	24120 (33.6)	1,14,163 (14.3)

(iii)

1	2	3	4	5	6	7	8	9	10	11
7. Panumri	9027 (11.5)	37972 (18.0)	9158 (13.4)	15264 (12.6)	12836 (15.1)	22563 (38.7)	8867 (8.4)	7500 (10.5)	1,23,187 (15.4) ✓	
8. Sigaon	8024 (10.2)	24997 (11.9)	9556 (14.0)	13737 (11.3)	6461 (7.6)	-	18201 (17.3)	5199 (7.2)	86,175 (10.8)	
9. Takva	31276 (39.7)	68885 (32.7)	24287 (35.6)	23754 (19.6)	12492 (14.7)	5547 (9.5)	18357 (17.4)	6477 (9.0)	1,91,075 (23.9) ✓	
Total :	78691 (100)	210565 (100)	68284 (100)	121345 (100)	85115 (100)	58320 (100)	105395 (100)	71762 (100)	7,99,477 (100)	
Misc.area :	8480	14121	2389	11257	7496	5172	5756	6904	61,575	
Grand Total :	87,171	224,686	70,673	132,602	92,611	63,492	111,151	78,666	8,61,052	

(ii)

4. Soil Series mapped and area (ha) covered :

Sr. Soil

Talukas

(iv)

5. Land Capability Classification :

	<u>Land capability class</u>	<u>Area (ha)</u>	<u>Percent</u>	<u>Soil Series</u>
1.	II	1,71,322	21.5	Dhawdi, Borgaon, Kande Khundlapur, Kenjal.
2.	III	1,03,554	12.9	Borgaon, Dhawdi, Sigaon.
3.	IV	2,88,212	36.1	Dhawdi, Avandi, Takva.
4.	VI	1,95,309	24.4	Avandi, Takva, Panumri.
5.	VII	41,080	5.1	Panumri
Total :		7,99,477	100.00	

6. Specific problems :

<u>Nature of problem</u>	<u>Area (ha)</u>	<u>Associated Soil Series</u>
1. Moderate erosion	5,01,733	Avandi, Borgaon, Dhawdi, Kande Khundlapur, Kenjal, Sigaon, Takva.
2. Severe erosion	2,39,550	Avandi, Dhawdi, Panumri, Takva

7. Soil Management :

	<u>Area (ha)</u>	<u>(%)</u>
1. Treatment need but not applied :	1,48,180	18.5
2. Treatment applied adequate :	48,166	6.0
3. Treatment applied partially adequate.	3,88,395	48.6
4. Treatment applied in adequate.	2,14,736	26.9
Total :	7,99,477	100.0

8. Land Use Data generated by Sample Soil Survey of Sangli District.

Sr. Land Use No.	Area (ha)	(%)
1. Single crop rainfed	4,37,398	50.80
2. Single crop stream irrigation ..	1,325	0.15
3. Single crop open well irrigation ..	47,422	5.51
4. Single crop canal irrigation ..	6,584	0.76
5. Single crop other source irrigation ..	15,411	1.79
6. Double crop rainfed	12,127	1.41
7. Double crop canal irrigation ..	12,846	1.49
8. Double crop stream irrigation ..	5,841	0.69
9. Double crop open well irrigation ..	79,707	9.25
10. Double crop other source irrigation ..	9,963	1.16
11.a. Pasture (village) rainfed ..	2,878	0.33
b. Private grazing land ..	86	0.01
12. Open forest (medium) ..	11,019	1.28
13. Scrub, trees, & Bushes (poor) ..	2,499	0.29
14. Saline or Saline alkali ..	1,202	0.14
15. Other waste land ..	1,51,871	17.64
16. River, stream, nalla (seasonal) ..	25,963	3.02
17. River, stream, nalla(perennial) ..	4,088	0.47
18. Plantation well irrigation ..	1,203	0.14
19. Plantation canal irrigation ..	95	0.01
20. Tank (Perennial) ..	95	0.01
21. Urban and built up area ..	9,380	1.09
22. Road, rail road etc. ..	21,408	2.49
23. Other land not available for Agri. ..	641	0.07.