

REPORT ON DETAILED SOIL SURVEY AND LAND USE OF Ja5a, Ja5b  
Ja5c, Ja5d and Ja5f SUBWATERSHEDS, JAIKWADI CATCHMENT,  
MAHARASHTRA.

A B S T R A C T

- 1.(a) Surveyed area : Subwatersheds Ja5a, Ja5b, Ja5c, Ja5d  
and Ja5f, Jaikwadi catchment,  
Aurangabad District, Maharashtra
- (b) Type of survey : Detailed soil survey
- 2(a) Total area : 16747 ha  
reported and  
mapped
- (b) Period of survey : February '91 to May 91 and March 92.
- 3(i) Soil series mapped and their extent (ha) :

Sr. No.	Name of soil series	Total area in ha	%
1.	Balanagar	1006	6.7
2.	Chinchori	312	2.1
3.	Gadewat	5	0.1
4.	Jambhli	1340	8.9
5.	Kapuswadi	1140	7.6
6.	Lakhegaon	7171	47.9
7.	Nilisgaon	1009	6.7
8.	Petamandi	716	4.8
9.	Wanjarwadi	1650	11.0
10.	Wava	626	4.2
Total		14975	100.0

- (ii) Other features including habitation  
river, nullah tank etc. 1772 ha
- Grand total 16747 ha

## II

## 4. Land capability classes :

Capability class	Total area in ha 8%	Soil series
II	3608 (24.1)	Balanagar, Jambhli, Lakhega on
III	5374 (35.8)	Balanagar, Jambhli, Lakhega on Wanjarwadi, Wava
IV	3447 (23.0)	Balanagar, Chinchori, Jambhli Kapuswadi, Lakhega on, Nilisga on, Wanjarwadi, Wava
VI	1845 (12.3)	Kapuswadi, Nilisga on Wadi
VII	721 (4.8)	Gadewat, Petamandi
Total	14975	

## 5. Specific problems :

Sr. No.	Nature of problem	Area in ha					Total	Soil series
		Ja5a	Ja5b	Ja5c	Ja5d	Ja5f		
1.	Moderate erosion	1353	2809	1790	2045	2306	10303	Balanagar Chincholi Jambhali Kapaswadi Lakhega on Nilisga on Wanjarwadi
2.	Severe erosion	284	586	936	507	2066	4379	Balanagar Chincholi Gadewat Jambhli Kapuswadi Lakhega on Nilisga on Petamandi Wanjarwad: Wava.
Total		1637	3395	2726	2552	4372	14682	

## 6. Salient features :

- About 21% area is under shallow soils.

- Nearly 75% area is covered by deep and very deep soils suitable for improved agriculture under rainfed and irrigated management.
  - About 60.7% area occurs on gentle slope (3-5%) and requires soil and water conservation measures.
  - Nearly 29.2% area suffers from severe erosion hazards and needs adequate soil and water conservation measures on priority basis.
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