

INVENTORY OF DEGRADED LANDS OF COIMBATORE DISTRICT OF TAMILNADU USING REMOTE SENSING TECHNIQUE

ABSTRACT

1. a) Kind of survey : Land degradation mapping
 b) Level of mapping : Reconnaissance
 c) Scale : 1:50,000
2. Period of survey : December 1997 and September 1998
3. Base materials : Indian Remote Sensing Satellite (IRS-IB) Liss -II
 Data with survey of India (SOI) toposheets (1:50,000)
4. a. Total area of districts : 746128 ha
- b. Agro-climatic zone : 10
- c. Geographical extent : 76°39' to 77°30'05"E longitude and
 10°13' to 11°25'07"N latitude
5. Type and extent of degraded lands in the district

Sl. No.	Kind of land degradation	Area (ha)	Percentage
1	Severe water erosion	9329	1.25
2	Very severe water erosion	760	0.10
3	Moderately salt affliction	1091	0.14
4	Rock quarry	521	0.07
5	Rocky waste	6593	0.89
6	Open cast mining	215	0.03
7	Brick Kiln	165	0.02
8	Stony waste	892	0.12
9	Normal lands	696100	93.30
10	Misc. lands	30462	4.08
	Total	746128	100

6. Salient features:

1. Out of the total reported area of 19566 ha., are under different types of land degradation. Districtwise Distribution of different land degradation kinds is given below:

Sl.No.	Kind of degradation	Area (ha)	Percentage
1	Water erosion	✓ 10089	1.35
2	Moderate salt affliction	✓ 1091	1.14
3	Rock quarry	521	0.07
4	Rocky waste	6593	0.89
5	Open cast mining	215	0.03
6	Brick kiln	✓ 165	0.02
7	Stony waste	892	0.12
	Total	19566	2.62

2. Distribution of land degradation on different land scape is given below.

Sl.No.	Land scape	Area (ha.)	Percentage
1	Plain	8873	1.19
2	Undulating	1833	0.24
3	Rolling	191	0.03
4	Hill	8669	1.16
	Total	19566	2.62

3. Among the 9 taluks Udumalpettai taluk is having the largest extent of degraded lands 4241 ha. while Tirupur taluk is having least extent of degraded lands 423 ha.