

# Inventory of Degraded Lands of Sitapur District, Uttar Pradesh Using Remote Sensing Techniques

## ABSTRACT

- **Kind of Survey** : Land Degradation Mapping
- **Level of Mapping** : Reconnaissance
- **Scale** : 1:50, 000
- **Period of Survey** : October, 1997 to April, 1998
- **Base Materials** : IRS-IB LISS-II data and SOI Toposheets on 1:50, 000 scale
- **Total area of District** : 5,70, 633 ha
- **Agro- climatic Zone** : Zone - 5- Upper Gangetic Plains
- **Geographical Extent** : 27<sup>0</sup> 06' to 27<sup>0</sup> 55' N Latitudes  
80<sup>0</sup> 18' to 81<sup>0</sup> 25' E Longitudes

➤ **Nature and Extent of Degraded and Normal Land**

S. No.	Nature of Land	Total Area (ha)	%
<b>A. Degraded Land</b>			
1.	Severe to very severe water erosion	20,445	3.6
2.	Sever wind erosion	515	0.1
3.	Gullied land	4,195	0.7
4.	Salt affliction	28,212	5.0
5.	Seasonal water-logging	27,580	4.8
6.	Permanent water-logging	2,760	0.5
7.	In-land marshes	4,795	0.8
8.	Brick kiln land	215	-
	<b>Sub-total</b>	<b>88,717</b>	<b>15.5</b>
<b>B. Normal Land</b>			
1.	Agriculture	4,49,636	78.8
2.	Forest	530	0.1
3.	Open Scrub	5,460	1.0
4.	Plantation	3,105	0.5
5.	Miscellaneous lands	23,185	4.1
	<b>Sub total</b>	<b>4,81,916</b>	<b>84.5</b>
	<b>Total</b>	<b>5,70,633</b>	<b>100%</b>

## ➤ Salient Findings

- ⇒ Out of total geographical area of 5, 70, 633 ha of Sitapur district, 15.5% area (88,717 ha) suffers from land degradation problems. The major problems are of waterlogging covering 6.1%, salt affliction covering 5.0% and water erosion covering 4.3% area of the district. The other degradation problems are wind erosion and brick kiln which covers 0.1% and 0.03% area respectively.
- ⇒ Degraded lands are well distributed in all tehsils of the district.
- ⇒ Severe to very severe water erosion is prevalent in 20,445 ha (3.6 %) of which 15,440 ha (2.7%) is agriculture land, 695 ha (0.1%) is under forest and 4310 ha (0.8%) is under open scrub.
- ⇒ Major part of the district area amounting 4,58,731 ha (80.4%) is normal land of which 4,49,636 ha (78.8%) is agriculture land, 530 ha (0.1%) is forest, 5,460 ha (1.0%) is open scrub and 3,105 ha (0.5%) is plantation and remaining 23,185 ha (4.1%) is under habitation, river and water bodies.