

Inventory of Degraded Lands of Ujjain District, Madhya Pradesh Using Remote Sensing Techniques

ABSTRACT

- **Kind of Survey** : Land Degradation Mapping
- **Scale** : 1:50,000
- **Period of Survey** : June, 2001 and March, 2002
- **Base Materials** : IRS-1B, LISS-II (Standard FCC Band 2, 3, and 4). Imagery on 1:50,000 scale and Survey of India Toposheet (1:50,000 scale)
- **Total Area of District** : 6,09,874 ha
- **Agro-climatic Zone** : Zone- VIII, Central Plateau and Hills.
- **Geographical Extent** : 22° 43' to 23° 36' North Latitude and 75° -00' to 76° 30' East Longitude
- **Nature, Extent and Percent of Degraded Lands in Ujjain district, Madhya Pradesh**

Sl. No.	Particulars	Description	Area in (ha)	Percentage
A. Normal Lands				
1.	AN	Normal agriculture	411399	67.46
2.	FN	Forest normal	200	0.03
3.	PN	Plantation normal	50	0.01
4.	ON	Open scrub normal	61975	10.17
Sub-total			473624	77.67
5.	Wel1	Severe water erosion plain and agricultural land	1950	0.32
6.	Wel1a4	Severe water erosion, plain and open scrub land	825	0.13
7.	Wel1b1	Severe water erosion, undulating agricultural land	2025	0.33
8.	Wel1b4	Severe water erosion and undulating open scrub land	9100	1.49
9.	Wel1c1	Severe water erosion, rolling and agricultural land	1125	0.18
10.	Wel1c2	Severe water erosion, rolling and forest land	2050	0.34

Sl. No.	Particulars	Description	Area in (ha)	Percentage
11.	We1c4	Severe water erosion, rolling and open scrub land.	33275	5.46
12.	We1d4	Sever water erosion, hilly and open scrub land.	600	0.10
13.	We2a1	Very severe water erosion, plain and agricultural land.	6475	1.06
14.	We2a4	Very severe water erosion, plain and open scrub land.	4800	0.79
15.	We2b4	Very severe water erosion, undulating and open scrub lands.	9800	1.61
16.	We2c1	Very severe water erosion, rolling and agricultural land	275	0.04
17.	We2c2	Very severe water erosion and forest land	200	0.03
18.	We2c4	Very severe water erosion rolling and open scrub land.	18250	2.99
19.	We2d3	Very severe water erosion, hilly and plantation lands; very severe water erosion, hilly and open scrub lands.	25	0.01
20.	We2d4	Very severe water erosion, hilly and open scrub lands.	6700	1.09
21.	We3c4	Very severe water erosion, rolling and gullied open scrub land.	9675	1.59
22.	We3d4	Very severe water erosion, hilly and open scrub gullied lands.	175	0.03
23.	We4b4	Very severe water erosion, undulating and open scrub shallow ravinous lands	1200	0.19
24.	We4c1	Very severe water erosion, rolling and agricultural shallow ravinous lands	75	0.02
25.	We4c4	Very severe water erosion, shallow ravinous rolling agricultural lands	7350	1.21
26.	We5b4	Very severe water erosion, shallow ravinous undulating open scrub lands	9850	1.62
27.	We5c4	Very severe water erosion, shallow ravinous and rolling open scrub lands	1000	0.16

Sl. No.	Particulars	Description	Area in (ha)	Percentage
28.	We6c4	Very severe water erosion, deep ravinous and rolling open scrub lands	2175	0.36
29.	We7c4	Very severe water erosion, deep ravinous and rolling open scrub lands	250	0.04
30.	Mn2c4	Very severe water erosion, rolling and open cast mining lands	475	0.08
		Sub - total	129700	2126
(iii)	Miscellaneous lands			
H	Habitation (Area under settlement)		1675	0.27
W	Water tank (Area under water body)		925	0.15
R	River (Area under river)		3950	0.65
	Sub-total		6550	1.07
	Total		609874	100%