

Inventory of Degraded lands of Banka district of Bihar , Using Remote Sensing Techniques

ABSTRACT

1.	a) Kind of Survey	Land Degradation Mapping
	b) Level of mapping	Reconnaissance
	c) Scale	1:50,000
2.	Period of Survey	April 1997 & December 1997
3.	Base materials	Indian Remote Sensing Satellite (IRS-1B) data and survey of India (SOI) toposheets in 1:50,000 scale
4.	a) Total Area of District	2,78,768 hac.
	b) Agro-climatic Zone	Zone-IV, "The middle Gangetic plain region"
	c) Geographical extent	24 ⁰ 32' - 25 ⁰ 30' -N latitude and 86 ⁰ 30' - 87 ⁰ 10' -E longitude

5. Statement showing nature, extent and percentage of degraded lands in district

Sl.No.	Mapping symbol	Degradation type / Normal lands	Total area (hac.)	Percentage
1.		Water erosion		
	⊗	a) Severe to very severe erosion	23,423	8.40
	A1d, F1e, O1e, t, Fig	b) Moderately to severely gullied land	4,419	1.59
	Fig	c) Severely to very severely gullied land	48	0.02
2.		Water logging		
	A4a, F4a, O4a	a) Seasonal water logged	1,061	0.38
	A4b, O4b	b) Permanent water logged	209	0.07
3.	A3a	Salt affliction	97	0.03
4.	A6d	Brick kiln	24	0.01
5.	A6e	Industrial affluent and garbage dumps	13	0.01
		Total degraded land	29,294	10.51
		Normal Lands		
1.	AN	Normal agriculture	1,90,634	68.38

⊗ A1a, A1b, A(F)1b, F1b, O1a, O1b

2.	FN	Normal forest	29,661	10.38
3.	F(A)N	Normal forest but at present under agriculture	789	0.28
4.	ON	Normal open scrub / pasture	12,653	4.54
5.	O(A)N	Normal open scrub / pasture but at present under agriculture	81	0.03
6.	O(F)N	Normal open scrub / pasture but at present under forest	88	0.03
7.	H	Habitation, Road and Rail track	7,457	2.68
8.	W	Water bodies	8,111	2.91
		Total Normal lands	2,49,474	89.49
		Grand Total	2,78,768	100.00

6. Salient features

- a) Out of the total area of the district, 29,294 hac. constituting 10.51% is affected by various degradation problems.
- b) 10.01% (23,423 hac.) of the district is subjected to water erosion out of that 8.40% is subjected to severe to very severe erosion while 4419 hac. (1.59%) is moderately to severely gullied land. Severely to very severely gullied land is only 0.02% (48 hac.).
- c) 1270 hac. (0.45%) of the district is water logged out of that 0.38% (1061 hac.) is seasonally water logged while 209 hac. (0.07%) is permanently under water.
- d) Other degradation types such as salt affliction, brick kiln and industrial affluent combined together cover only 134 hac. which were mapped on basis of SOI toposheet reference.