

Inventory of Degraded Lands of Bhavnagar District, Gujarat Using Remote Sensing Techniques.

ABSTRACT

1. Details of Survey
 - (a) Kind of Survey : Land Degradation Mapping
 - (b) Level of Mapping : Reconnaissance
 - (c) Scale : 1 : 50,000
2. Period of Survey : February, 1995
3. Base Material : Satellite data (IRS-IA LISS-II F. C. C.)
4. (a) Total Area of District : 11,15,500 hectare
 (b) Agro. Climatic Zone : 13 (Gujarat Plains and Hills Region)
 (c) Geographical Extent : 20°-59' to 22°-22' N. Latitude
 71°-13' to 72°-27' E. Longitude
5. Statement showing nature, extent and percent of degraded lands in Bhavnagar District.

Type of Degradation	Area in ha	Percent
<u>1. Water Erosion</u>		
1. Plain are affected by severe to very severe water erosion.	47126	4.23
2. Undulating area affected by severe to very severe water erosion.	41910	3.76
3. Hilly and Mountainous area affected by severe to very severe water erosion.	54714	4.90
	143750	12.89
<u>2. Wind Erosion</u>		
1. Beach sand with severe wind and water erosion.	3145	0.29
2. Non dunal/Inter dunal severe erosion.	730	0.06
	3875	0.35

3. Salt Affliction

1.	Area with salt encrustation (white) having less than 50% Surface Coverage.	47195	4.23
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		47195	4.23

4. Water Logging

1.	Seasonal water Logging. (Other than paddy areas)	1106	0.10
2.	Permanent water Logging area.	4024	0.36
3.	Coastal Marshes / Mangroves	6675	0.60
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		11805	1.06

5. Other Degradation Types

1.	Brick Kiln & Borrow Sites	125	0.01
2.	Mud Flats	62269	5.58
3.	Salt Flats	2318	0.21
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		64712	5.80
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Total degradational lands :		271337	24.33

6. Normal Land

1.	Normal Agricultural Land	583843	52.33
2.	Normal open scrub land	93897	8.42
3.	Normal Forest	960	0.09
4.	Normal Plantation	567	0.05
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		679267	60.89
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1.	Miscellaneous Land	28796	2.58
2.	Area under creek	136100	12.20
<u>Grand Total</u>		<u>11,15,500</u>	<u>100.00</u>