

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 : March to April 20th 1992
3. Base materials used : IRS-IA -LISS II FCC
(Band 2,3 & 4) Geocoded
March 1992.
4. a) Name of the district : Chickmagalur, Karnataka
 - b) Total area of district: 722072 ha.
 - c) Geographical extent : 12^o10' to 13^o55'
North Latitudes and
75^o6' to 76^o22'
East Longitudes
5. Statement showing nature, extent and percentage of degraded lands in the district.

Sl. Mapping No. symobl	Description	Area in ha.	Percen- tage
WATER EROSION			
1	We1a1 Severe water erosion, plain, agriculture	54	0.01
2.	We1d1 Severe water erosion, hilly, agriculture	8	0.01
3.	We2a1 Very severe water erosion, plain, agriculture	200	0.03
4.	We1/Sa1a1(4) Severe water erosion and moderately saline, plain, agriculture, changed to other lands	394	0.05
5.	We2/Sa1b1(4) Very severe water erosion, moderately saline, undulating, agriculture, changed to other lands	499	0.07
6.	We2/Sa2b1(4) Very severe water erosion and strongly saline, undulating, agriculture, changed to other lands	60	0.01

Sl. No.	Mapping symbol	Description	Area in ha.	Percentage
7.	Sa1b1(4)	Moderately saline, undulating, agriculture, changed to other lands	1484	0.21
8.	We1d2	Severe water erosion, hilly, forest	10266	1.42
9.	*We1d2	Severe water erosion, hilly, private forest	1107	0.15
10.	Ls1d2	Land lides, hilly, forest	15	0.01
11.	Mn1d2	Open cast mine, hilly, forest	176	0.02
12.	We1b4(1)	Severe water erosion, undulating, other lands, changed to agriculture	107	0.01
13.	We1a4	Severe water erosion, plain, other lands	55	0.01
14.	We1b4	Severe water erosion, undulating other lands	86	0.01
15.	We1d4	Severe water erosion, hilly, other lands	276	0.04
16.	We2a4	Very severe water erosion, plain, other lands	13	0.01
17.	We1/Sa1a4	Severe water erosion and moderately saline, plain, other lands	123	0.01
18.	We2/Sa1b4	Very severe water erosion, moderately saline, plain, other lands	505	0.07
19.	Sa1a4	Moderately saline, plain, other lands	125	0.01
20.	Mn1d4	Open cast mine, hilly, other lands	150	0.02
21.	Mn1d2	Open cast mine, hilly, private forest	18	0.01
22.	We1d3	Severe water erosion, hilly, plantation	16	0.01
23.	Sa1a3	Moderately saline, plain, plantation	301	0.04
Sub-total (A)			16038	2.26

Non Degraded Lands

Sl. No.	Mapping symbol	Description	Area in ha.	Percentage
24.	1	Agriculture	2,07,386	28.71
25.	1(3)	Agriculture, changed to plantation	11,585	1.60
26.	2	Forest	1,62,725	22.54
27.	*2	Private forest area	1,24,085	17.18
28.	2(1)	Forest, changed to agriculture	4,909	0.68
29.	* 2(1)	Private forest changed to agri.	2,515	0.35
30.	4	Open scrub	64,277	8.90
31.	4(1)	Open scrub, changed to agriculture	3,644	0.50
32.	4(3)	Open scrub, changed to plantation	1,556	0.22
33.	3	Plantation	1,02,562	14.20
34.	3(1)	Plantation, changed to agriculture	1,332	0.18
35.	3(4)	Plantation, changed to open scrub	216	0.03
36.	H	Habitation/roads and others	711	0.09
37.	R	River/water bodies/reservoirs/tanks	18,531	2.56
		Sub-total B	7,06,034	97.74
		Grand Total (A+B)	7,22,072	100%

6. Salient findings

-	Out of 722072 ha. area of the district 16038 ha. (2.26%) is degraded by water erosion	
-	Severe water erosion	11975 ha.
-	Very severe water erosion	213 ha.
-	Severe water erosion with salt affliction	517 ha.
-	Very severe water erosion with salt affliction	1064 ha.
-	Salt affliction	1910 ha.
-	Other degradation area, land slide 15 ha. and open cast mines 344 ha.	359 ha.
-	Land degradation in agriculture lands	2699 ha.
-	Land degradation in forest lands	10457 ha.
-	Land degradation in open scrub lands	5112 ha.
-	Land degradation in plantation lands	317 ha.
-	Total normal land covers	686792 ha. (95.09%)