

ABSTRACT

1. Survey area : 4B3E5 Watershed (part) Nugu(Non RVP) catchment in Chamarajnagar & Mysore district, Karnataka, Wynad district, Kerala and Nilgiri district, Tamilnadu.
2. Location : 76°15' to 76°35' E longitude
11°28' to 11°59' N latitude
3. a) Total area of watershed : 143000 ha.
b) Area surveyed : 96136 ha.
4. Number of micro-watersheds : 124
5. Agroclimatic region : 10 Southern plateau and hill region
6. Type of survey : Rapid reconnaissance survey for priority delineation
7. Period of survey : January 1999 to March 1999
8. Base maps : 1:50,000 scale survey of India toposheets
9. Toposheet numbers : 58 A/2, 58 A/5, 58 A/6, 58 A/7, 58 A/9 and 58 A/10 (6 toposheets)
10. Hydrological divisions
- a) Water resource region : 4
b) Basin -Cauvery : 4B
c) Catchment : 4B3
d) Subcatchment : 4B3E
e) Watershed- Nugu : 4B3E5 (part)
f) Subwatershed : -18- 4B3E5f to 4B3E5z
g) Micro-watershed : 4B3E5f14B3E5z9 (124)

11. Soil erosion hazard

Sl.No.	Erosion	Area (in ha.)	Percent
1.	Slight	57166	59.4
2.	Slight to moderate	17265	18.0
3.	Moderate	9685	10.1
4.	Moderate to severe	10399	10.8
5	Severe	66	0.1
	Miscellaneous	1555	1.6
	Grand Total	96136	100.0

12. Extent of area under different erosion intensity mapping units

Sl.No.	EIMU symbol	Area (in ha.)	Percent
1.	G1.2	6752	7.0
2.	G1.3	2624	2.7
3.	G1.4	2480	2.6
4.	G2.8	181	0.2
5.	G2.9	672	0.7
6.	G3.1	1711	1.8
7.	G3.2	3861	4.0
8.	G3.3	247	0.3
9.	G5.6	15596	16.2
10.	G5.7	176	0.2
11.	G6.1	510	0.5
12.	G6.2	1176	1.2
13.	G7	689	0.7
14.	G7.2	1974	2.1
15.	G8.4	1148	1.2
16.	G8.5	3849	4.0
17.	G8.6	2123	2.2
18.	G9.5	26922	28.0
19.	G9.6	8063	8.4
20.	G10.9	997	1.0
21.	G11.1	61	0.1
22.	G11.2	2217	2.3
23.	G11.3	522	0.5
24.	G12.7	1224	1.3
25.	G14.2	552	0.6
26.	G26	325	0.3
27.	G26.5	7863	8.2
28.	G33.3	66	0.1
	Total	94581	98.4
MISCELLANEOUS			
	Habitation	62	0.1
	Reservoir	1211	1.2
	River	282	0.3
	Total	1555	1.6
	Grand Total	96136	100.0

13. Priority classification

Sl. No.	Priority category	Silt yield index range	No. of micro water sheds	Area (in ha.)	Percentage
1.	Very high	1250 and above	2	1368	1.4
2.	High	1150-1249	16	11213	11.6
3.	Medium	1050-1149	9	6929	7.2
4.	Low	950-1049	17	14995	15.6
5.	Very low	<950	80	61631	64.2
	Total		124	96136	100.0

14.State-wise and district-wise distribution of area of different priority category.

State	District	Priority categories					Total
		Very high	High	Medium	Low	Very low	
Karnataka	Chamara jnagar	-	-	1708	2381	15533	19622
-do-	Mysore	-	3209	1462	3236	15544	23451
Kerala	Wynad	379	812	563	1518	25607	28879
Tamilnadu	Nilgiris	989	7192	3196	7860	4947	24184
	Total	1368	11213	6929	14995	61631	96136

15. Salient features

- a) The total geographical area under report is 96,136 ha. This has been divided Into 124 microwatersheds.
- b) Out of this 96,136 ha. Only 1368 ha falls under very high priority and 11213 ha falls under high priority category.
- c) 10,399 ha. is under moderate to severe erosion and 66 ha. is under severe erosion .
- d) Out of 96,136 ha. 70344 ha. is under forest, 12153 ha. is under cultivation 12084 ha. is under plantation and 1555 is under miscellaneous lands.
- e) Area of 4B3E5 watershed is 143000 hectares. However survey was carried out in the portion above the dam site covering 96136 hectare. Rest was not surveyed.