

**REPORT OF PRIORITIZATION OF SUBWATERSHEDS IN 4D8 (PART) OF
KRISHNA BASIN, (NON RVP) DISTRICTS KHAMMAM, KRISHNA AND
WEST GODAVARI, ANDHRA PRADESH.**

A B S T R A C T

1. **Surveyed Area** : 4D8 Catchment, a part of Krishna Basin.
2. **Base Material** : Survey of India Topographic map of 1:50000 scale
3. **Location** : $16^{\circ} 2' 42''$ to $17^{\circ} 24' 23''$ N latitude $80^{\circ} 30'$ to $81^{\circ} 45'$ E longitude.
4. **Total Area** : 11,64,352 ha.
5. **Type of Survey** : Rapid reconnaissance survey for identification and demarcation of priority subwatersheds.
6. **Period of Survey** : December, 1996 to March, 1997.
7. **Agroclimatic zone** : Western Plateau and hill region (zone IX).
8. **Extent of Area Under different EIMU.**

S. No.	EIMU	Weightage Value	Delivery Ratio	Area (ha)	Percentage
1.	2.	3.	4.	5.	6.
1.	A1	17	0.69	16884	1.5
2.	A2	20	0.77	14715	1.3
3.	A3	19	0.74	5294	0.5
4.	A4	13	0.57	25725	2.2
5.	A5	12	0.56	409559	35.2
6.	A6	11	0.52	8646	0.7
7.	A7	14	0.60	248	0.1
8.	C1	11	0.51	122643	10.5
9.	C2	13	0.57	4747	0.4
10.	G1	19	0.91	8323	0.7
11.	G2	18	0.83	6643	0.6
12.	G3	18	0.81	1269	0.1
13.	G4	17	0.71	5368	0.5

II

1.	2.	3.	4.	5.	6.
14.	G5	17	0.71	18013	1.5
15.	G6	15	0.63	29681	2.6
16.	G7	14	0.62	40444	3.5
17.	G8	13	0.57	26175	2.3
18.	G9	14	0.60	8188	0.7
19.	G10	15	0.62	950	0.1
20.	L1	17	0.68	2426	0.2
21.	L2	18	0.71	4885	0.4
22.	L3	16	0.67	9849	0.8
23.	L4	12	0.56	27733	2.4
24.	L5	14	0.61	8246	0.7
25.	S1	13	0.77	23609	2.0
26.	S2	12	0.62	2653	0.2
27.	S3	12	0.56	43934	3.8
28.	S4	12	0.56	27292	2.3
29.	S5	12	0.55	146789	12.6
30.	S6	18	0.70	50730	4.3
31.	S7	16	0.75	6018	0.5
32.	S8	20	0.73	15709	1.3
	Total			11,23,388	96.5
	Miscellaneous			40964	3.5
	Grand Total			1164352	100.0

9 - Hydrological Subdivision

4D8A1a1

4 - Region

D - Basin

8 - Catchment

A - Subcatchment

I - Watershed

a1 - Subwatershed

Subcatchments - 2

Watersheds - 12

Subwatersheds - 296

III

10. - Gradation of Subwatersheds into priority categories :

S. No.	Priority Category	Sediment Yield Index	No. of microwatersheds	Area (ha)	%
1.	Very high	1300 and above	1	1925	0.2
2.	High	1200-1299	2	8770	0.8
3.	Medium	1100-1199	6	23175	2.0
4.	Low	1000-1099	27	103952	8.9
5.	Very low	Below 1000	260	1026530	88.1
			296	11,64,352	100.0

11. - Districtwise distribution of subwatersheds under different priority categories.

Sr. No.	Priority Category	D I S T R I C T S								
		Krishna			Khammam			West Godavari		
		No. of Sub-water-sheds	Area (ha)	%	No. of Sub-water-sheds	Area (ha)	%	No. of Sub-water-sheds	Area (ha)	%
1.	Very high	1	1925	0.4	-	-	-	-	-	-
2.	High	1	4895	1.0	1	3875	5.0	-	-	-
3.	Medium	3	13100	2.5	1	4874	6.2	2	5201	0.9
4.	Low	11	40149	7.9	2	9107	11.6	14	54696	9.5
5.	Very low	115	449721	88.2	16	60455	77.2	129	516354	89.6
	Total	131	509790	100.0	20	78311	100.0	145	576251	100.0

Salient Features :

- Only one subwatershed falls under very high priority category with an area of 1925 ha (0.2%).
- Two subwatersheds with an area of 8770 ha. (0.8%) fall under high priority category.
- An area of 14715 ha. (1.3%) suffers from severe to very severe erosion.
- 54122 ha (4.8%) area suffers from severe erosion.
- An area 97289 ha (8.6%) suffers from moderate to severe erosion.
- Moderate erosion contributes an area of 53554 ha (4.8%).