

Abstract

1. **Survey Area** : 2C2H Sub-catchment of Betwa catchment of Yamuna Basin, Districts Jalaun, Hamirpur and Jhansi of Uttar Pradesh.
2. **Geographical Location** : 25^o 40' to 26^o 25'30" N Latitude
78^o 53'to 80^o 13' E Longitude
3. **Total area** : 3,58,105 ha 906
4. **Agro Climatic Zone** : Bundelkhand Zone of Central Plateau & Hills region (VIII) as per Planning Commission (Khanna, 1989)
5. **Period of Survey** : November'2005 to March'2006
6. **Type of Survey** : Rapid Reconnaissance Survey
7. **Base Material Used** : Survey of India toposheet on 1: 50,000 scale

8. Areal Extent of different Erosion Intensity Mapping Units

Sl.No.	EIMU	Weightage Value	Delivery Ratio	Area(ha.)	Area(%)
1	A01	21	0.82	9393	2.62
2	A02	19	0.76	5860	1.64
3	A03	19	0.76	10469	2.92
4	A04	18	0.72	8950	2.50
5	A05	17	0.70	21207	5.92
6	A06	16	0.67	2090	0.58
7	A07	15	0.65	1506	0.42
8	A08	14	0.61	6662	1.86
9	A09	14	0.60	18873	5.27
10	A10	14	0.61	1068	0.30
11	A11	12	0.56	2824	0.79
12	A12	12	0.54	6394	1.79
13	A13	13	0.58	245916	68.67
14	HA	0	0.00	10395	2.90
15	RI	0	0.00	6251	1.75
16	W	0	0.00	247	0.07
Grand Total				358105	100.00

9. Watershedwise distribution of area under different Erosion Intensity Mapping Units

EIMU	Watershed code					Area(ha.)	Area(%)
	2C2H1	2C2H2	2C2H3	2C2H4	2C2H5		
A01	3104	156	-	-	6133	9393	2.62
A02	3691	109	-	-	2060	5860	1.64
A03	1807	6785	982	-	895	10469	2.92
A04	1549	2805	3473	203	920	8950	2.50
A05	7069	5999	3110	-	5029	21207	5.92
A06	1005	415	464	-	206	2090	0.58
A07	640	118	56	-	692	1506	0.42
A08	592	1183	3651	995	241	6662	1.86
A09	8180	3028	4126	1184	2355	18873	5.27
A10	68	-	-	-	1000	1068	0.30
A11	546	427	753	83	1015	2824	0.79
A12	2112	1939	-	-	2343	6394	1.79
A13	26958	53171	82763	54915	28109	245916	68.67
HA	1280	2321	2620	2797	1377	10395	2.90
RI	2589	935	200	-	2527	6251	1.75
W	-	229	17	1	-	247	0.07
Total	61910	79620	102215	60178	54902	358105	100.00

11. Priority Categorization

Sl.No.	Priority Category	No. of Micro watersheds	Area(ha.)	Area %
1	Very High (1300 and above)	44	22573	6.3
2	High (1200-1299)	17	9847	2.8
3	Medium (1100-1199)	29	16515	4.6
4	Low (1000-1099)	28	17874	5.0
5	Very Low (Below 1000)	412	291296	81.3
Grand Total		530	358105	100.00

12. Watershed wise distribution of area under different Priority Categories

Priority Category & Range	2C2H1		2C2H 2		2C2H 3		2C2H 4		2C2H 5		Grand Total	%
	No. of M/W	Area (ha)	No. Of M/W	Area (ha)	No. of M/W	Area (ha)	No. Of M/W	Area (ha)	No. Of M/W	Area (ha)		
Very High (1300 and above)	22	11172	5	2606	-	-	-	-	17	8795	22573	6.3
High (1200-1299)	2	1149	6	3253	4	1964	-	-	5	3481	9847	2.8
Medium (1100-1199)	10	5350	8	3528	4	2653	-	-	7	4984	16515	4.6
Low (1000-1099)	5	3321	12	7452	6	4117	-	-	5	2984	17874	5.0
Very Low (Below 1000)	54	40198	99	62781	126	93481	82	60178	51	34658	291296	81.3
Grand Total	93	61190	130	79620	140	102215	82	60178	85	54902	358105	100

13. Districtwise distribution of area under different Priority Categories

Priority Category & Range	District Names									Grand Total	%
	Hamirpur			Jalaun			Jhansi				
	No. Of M/W		Area (ha)	No. Of M/W		Area (ha)	No. Of M/W		Area (ha)		
	F	P		F	P		F	P			
Very High (1300 and above)	6	2	2654	36	2	19919	-	-	-	22573	6.30
High (1200-1299)	2	-	1149	15	-	8698	-	-	-	9847	2.8
Medium (1100-1199)	1	-	701	28	-	15814	-	-	-	16515	4.6
Low (1000-1099)	2	-	1174	26	-	16700	-	-	-	17874	5.0
Very Low (Below 1000)	7	5	5577	371	14	266514	20	9	19205	291296	81.3
Grand Total	18	7	11255	476	16	327645	20	9	19205	358105	100

F - Full
P - Part