

REPORT ON PRIORITISATION OF SUB-WATERSHEDS OF
 Gb, Gc, Gd, Gf, Gg AND Gh SUB-CATCHMENT OF
 GHAGGAR FLOOD PRONE RIVER CATCHMENT (Part)
 DISTRICT BHATINDA MANSa, PATIALA & SANGRUR
 (PUNJAB), JIND, HISSAR AND SIRSA (HARYANA)
 AND HANUMANGARH (RAJASTHAN).

ABSTRACT

1. SURVEY AREA Lower part of Ghaggar F.P.R. catchment, Hanumangarh, Bhatinda, Mansa, Patiala, Sangrur, Jind, Hissar and Sirsa Districts, Haryana, Punjab and Rajasthan states.
2. Location $74^{\circ} 18'$ to $76^{\circ} 29'$ East Longitudes. $29^{\circ} 22'$ - $30^{\circ} 52'$ North Latitudes.
3. Total area 14,00,025 hect.
4. Period of survey Nov. 1993 - May 1994
5. Type of Survey Rapid Reconnaissance survey for priority delineation.
6. Base material; Survey of India toposheets maps (1 : 50,000 scale)
7. Run off potential mapping units and their extent.

8. Summary Statement of EIMU and their extent

R.P. UNITS	TOTAL AREA	PERCENTAGE
MISC	6650	.47
P	1875	.13
Q	685925	48.99
R	377325	26.95
R2	30525	2.18
R3	20275	1.45
S	1950	.14
T	5000	.36
V	875	.06
Y	50900	3.64
Y1	50675	3.62
Y2	84550	6.04
Z	60100	4.29
Z1	23325	1.67
Z2	75	.01
TOTAL	1400025	

8. Hydrologic Division

- a. Catchment - Ghaggar (G)
- b. Sub catchment - 6 (Gb, Gc, Gd, Ge, Gf, and Gh)
- c. Watershed - 24
- d. Subwatershed - 363

9. Statewise priority categorisation

S. No	Priority category/ Run off generation potential Index Range	Haryana		Punjab		Rajasthan		Total	
		No. of sub-sheds	Area in (ha)	No. of sub-sheds	Area in (ha)	No. of sub-sheds	Area in	No. of sub-sheds	Area in hect.

1	2	3	4	5	6	7	8	9	10
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1.	V. High 60 and above	-	-	-	-	-	-	-	-
2.	High 59-55	7	24125	5	20200	-	-	12	44325 (3.2%)
3.	Medium 54-50	155	531875	189	693450	1	200	345	1225525 (87.5%)
4.	Low 49-45	25	69075	13	30950	13	30150	51	130175 (9.3%)
5.	V. Low Below 45	-	-	-	-	-	-	-	-

		187	625075 (44.6%)	207	744600 (53.2%)	14	30350 (2.2%)	408	1400025 (100.0%)
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10. Salient Features

-Gb, Gc, Gd, Gf, Gg, and Gh subcatchments of Lower part of Ghaggar F.P.R. catchment cover 1400025 hect. area out of which 625075 ha (44.6%) falls in Haryana, while 744600 ha. (53.2%) and 30350 ha. (2.2%) fall in Punjab and Rajasthan states respectively.

- only 3.2 % area falls under high priority category which needs immediate soil conservation measures.

-Catchment area comprises fluvial (82.3%) and alluvial/aeolian (19.3%) landscape.

- Agriculture is the dominant land use covering 98.9% of the surveyed area.

- Forest cover is only 0.4% in the surveyed area.

- 0.2% area under salient sodic soil.