

REPORT ON THE DEMARCATION OF PRIORITY SUB-WATERSHEDS
MARKANDA FLOOD PRONE RIVER CATCHMENT (UPTO
CONFLUENCE OF GHAGGER RIVER) AMBALA, KURUKSHETRA,
PATIALA AND SIRMOUR DISTRICTS, HARYANA, PUNJAB
AND HIMACHAL PRADESH STATE.

A B S T R A C T

1. Survey area - Markanda F.P.R.Catchment (Upto confluence of Ghagger River), Ambala, Kurukshetra, Patiala and Sirmour district, Haryana, Punjab and Himachal Pradesh state.
2. Location- 76°-23' - 77°-22' E Longitudes & 30°-6' -30°43'N Latitudes.
3. Total area - 2,61,175 Hectares
4. Period of survey- May 1987 to June, 1988.
5. Type of survey - Rapid Reconnaissance Survey for priority delineation.
6. Base material- Survey of India toposheets maps in the scale of 1:50,000.
7. Runoff potential mapping units and their extent.

S.No.	Mapping unit	Haryana Distt.		Punjab Patiala	Himachal Pradesh Sirmour	Total area in ha.	Per cent age.
		Ambala	Kurukshetra				
1.	A	3400	-	-	3450	6850	2.6%
2.	B	7975	-	-	5475	13450	5.1%
3.	C	1300	-	-	800	2100	0.8%
4.	D	25	-	-	925	950	0.4%
5.	E	1325	-	-	275	1600	0.6%
6.	G	5250	-	-	8925	14175	5.4%
7.	H	725	-	-	1700	2425	0.9%
8.	I	1275	-	-	5950	7225	2.8½%

9.	J	450	-	-	275	725	0.3%
10.	K	3000	-	-	800	3800	1.5%
11.	L	325	-	-	-	325	0.1%
12.	M	8600	-	-	-	8600	3.3%
13.	N	17100	-	-	375	17475	6.7%
14.	P	45175	3875	3125	-	52175	20.0%
15.	Q	53100	36075	10100	2300	101575	38.9%
16.	S	9125	4925	650	700	15400	5.9%
17.	T	2300	175	450	50	2975	1.1%
18.	U	4925	925	300	25	6175	2.4%
	Habi	2250	25	650	250	3175	1.2%
<hr/>							
	TOTAL	167625	46000	15275	32275	261175	100.0%
<hr/>							

8. Hydrologic division :

(a) Catchment - Markanda River(Upto confluence of Ghagger river)

(b) Sub-catchment - 2 (Ma. & Mb)

(c) Watersheds - 10

(d) Subwatersheds - 76

9. Statewise Priority Classification:

S. Priority No. Category	Runoff Potential index range	Haryana		Punjab		Himachal		Combi- ned No. of sub- water- sheds	Hr. area in ha.	Pb. area in ha.	H..P. area in ha.	Total no. of sub- water- sheds	Total area in ha. %
		No. of sub- water- sheds	Area in ha.	No. of sub- water- sheds	Area in ha.	No. of sub- water- sheds	Area in ha.						
1. Very High	50 and above	7	28500	-	-	8	19425	6	11950	-	10300	21	70175 26.9%
2. High	45-49	1	3400	-	-	-	-	3	6650	-	2550	4	12600 4.8%
3. Medium	40-44	4	6875	-	-	-	-	1	3425	-	450	5	10750 4.1%
4. Low	30-39	35	127300	3	10350	-	-	8	21675	8325	-	46	167650 64.2%
5. Very Low	Below 30	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL		47	166075	3	10350	8	19425	18	43700	8325	13300	76	261175 100%

10. Salient Features:

1. Markanda River catchment (Upto confluence of Ghagger) covers 2,61,175 ha. of which 209775 ha (80.3%) area in Haryana, 18675 ha. (7.2%) area in Punjab and 32725 ha. (12.5%) are in Himachal Pradesh.
2. Only 31.7% of the total catchment area qualifies for very high and high Priority.
3. Physiographically, dominant land forms, in descending order of extent, are: Alluvial Plain 10.1%, Flood Plain 3.5%, Nala Habitation 7.1% Piedmonts 10.1%, Foot hills 2.1%, siwalik land scape 9.8% and Himalayas Hills 8.5%.
4. Agriculturer in dominant land use (68.8%), followed by Grass and sparse vegetation 13.9%, Habitation and Nala 7.1% and about 10.2% is under forest.