

## **CALCULATION FORM**

Job: Date: 2/15/2023 Page
Subject: Flood Frequency Analysi Job No: Calc. By:

Drg no: Chkd. By:

**Recommended By:** 

Approved By:

River: Reference: Applied Hydrology by VT Chow

Station No. Location:

Total Catchment 645.8 Km2 Area below 5000 7.7 Km2

Year	Maximum flow				
	X = Qi	y = log(x)			
51/52	123	2.088597			
52/53	119	2.07664			
53/54	377	2.576307			
54/55	538	2.730693			
55/56	255	2.407221			
56/57	232	2.366311			
57/58	157	2.196618			
58/59	163	2.213358			
59/60	151	2.179149			
60/61	255	2.406881			
61/62	92	1.963882			
62/63	140	2.145342			
63/64	91	1.957114			
64/65	187	2.272422			
65/66	236	2.373464			
66/67	129	2.111699			
67/68	242	2.383923			
68/69	151	2.177715			
69/70	220	2.341514			
70/7 I	212	2.327083			
71/72	116	2.063799			
72/73	187	2.271333			
73/74	528	2.72261			
74/75	164	2.214099			
75/76	176	2.245453			
76/77	132	2.121934			



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77/78	160	2.203944
78/79	190	2.279699
79/80	272	2.434586

## **Statistical Parameter**

Mean	206.8	2.271	<b>y</b> <sub>mean</sub>
Std. Devia	109.6	0.191	s
Coef Skev	2.0	0.761	C <sub>s</sub>

## Statistical Analiysis

			Jhimruk							
Return	Par	ameters	Log normal		Log Pearsion III			Gumbel		
Period	Р	w	z	X <sub>T</sub>	Х	K <sub>T</sub>	X <sub>T</sub>	Х	уТ	хT
I	1.000	0.000	-2.516	1.791	61.8	-1.771	1.933	86		
2	0.500	1.177	0.000	2.271	186.6	-0.040	2.263	183	0.37	189
2.33	0.429	1.301	0.178	2.305	201.7	0.137	2.297	198	0.58	207
5	0.200	1.794	0.841	2.431	269.9	0.866	2.436	273	1.50	286
10	0.100	2.146	1.282	2.515	327.4	1.417	2.541	348	2.25	350
20	0.050	2.448	1.645	2.584	384.1	1.915	2.636	432	2.97	411
50	0.020	2.797	2.054	2.662	459.6	2.522	2.752	564	3.90	49 I
100	0.010	3.035	2.327	2.714	518.0	2.956	2.834	683	4.60	550
200	0.005	3.255	2.576	2.762	577.9	3.374	2.914	820	5.30	610
500	0.002	3.526	2.879	2.820	659.9	3.909	3.016	1037	6.21	688
1000	0.001	3.717	3.091	2.860	724.3	4.302	3.091	1233	6.91	747