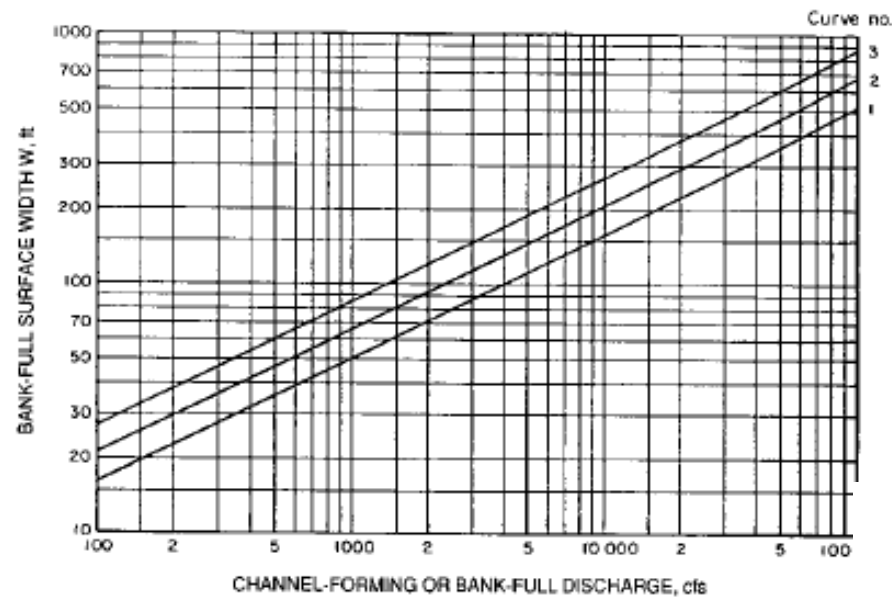


Approximate Channel Sizing – Regime

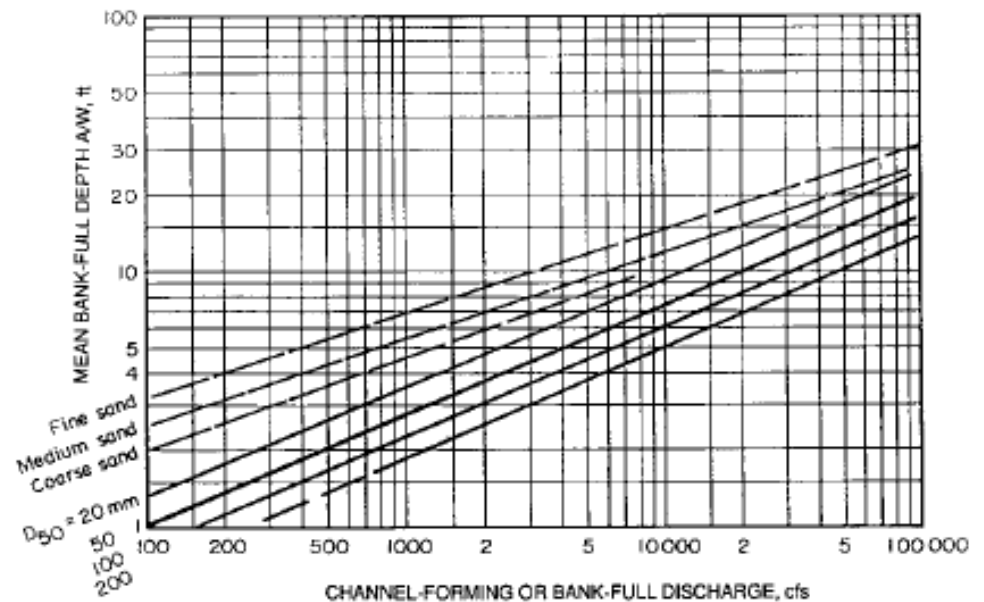


TENTATIVE GUIDANCE: CURVE 1: STIFF COHESIVE OR VERY COARSE GRANULAR BANKS
 CURVE 2: AVERAGE COHESIVE OR COARSE GRANULAR BANKS.
 CURVE 3: SANDY ALLUVIAL BANKS.

SEE PARAGRAPH 5-5 FOR LIMITATIONS.

FORMULA: $W = CQ^{0.5}$ WITH $C = 1.6, 2.1, 2.7$

(USACE, 1994)



NOTE: FOR VERY APPROXIMATE GUIDANCE ONLY; DEPTHS SHOULD BE CHECKED BY UNIFORM-FLOW CALCULATION USING SELECTED WIDTH AND SLOPE (FIGURES 5-4 AND 5-5) AND ESTIMATED ROUGHNESS (SEE PARAGRAPH 4-7E).

APPLIES BASICALLY TO CHANNELS WITH LOW BED SEDIMENT TRANSPORT.

Approximate Channel Sizing – HGR

Rough Channel Dimensions for the Roaring Branch

Bennington, VT

9/5/2011

Drainage Area (Square Miles)	Bankfull Width (feet)	Bankfull Depth (feet)	Cross Section Area (square feet)	Location
2	18	1	21	
4	24	1	35	
5	27	2	41	
10	36	2	70	
15	43	2	94	
20	49	2	117	
25	54	3	138	
30	59	3	159	
35	63	3	178	
40	66	3	197	Bennington/Woodford
45	70	3	215	
50	73	3	233	
55	76	3	250	
60	79	3	267	
190	132	5	634	
195	133	5	646	
200	135	5	658	

Source: VTDEC, 2006

$$W=13.1*DA^{0.44}$$

$$D=0.96*DA^{0.30}$$

$$A=12.38*DA^{0.75}$$

(MMI, 2011)