VDOF Rosgen C4 Forest Reference Stream:
Measured Hydraulic Geometry: Bankfull Indicies

a • c • e = 0.56 b + d + f = 0.95

Variables	
B	0.6272
M	0.02025
Std. Error	
B	0.02367
M	0.01201
95% Confidence Intervals	
B	0.5768 to 0.6776
M	-0.005344 to 0.04584
Goodness of Fit	
Degrees of Freedom	15
R squared	0.1562
Absolute Sum of Squares	0.03401
Sy.x	0.04761
Residuals	
Points above curve	10
Points below curve	7
Number of runs	6
P value (runs test)	0.08001
Deviation from Model	Not Significant
Data	
Number of X values	17
Number of Y replicates	1
Total number of values	17
Number of missing values	0

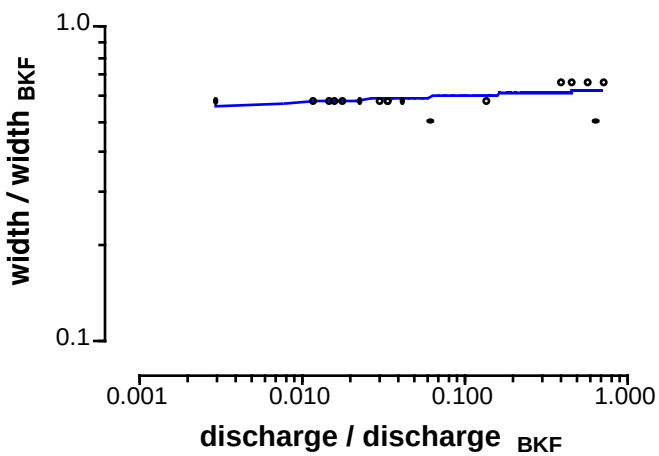
Variables	
B	0.8996
M	0.2366
Std. Error	
B	0.04914
M	0.02516
95% Confidence Intervals	
B	0.7949 to 1.004
M	0.1829 to 0.2902
Goodness of Fit	
Degrees of Freedom	15
R squared	0.8591
Absolute Sum of Squares	0.09711
Sy.x	0.08046
Residuals	
Points above curve	5
Points below curve	12
Number of runs	9
P value (runs test)	0.8187
Deviation from Model	Not Significant
Data	
Number of X values	17
Number of Y replicates	1
Total number of values	17
Number of missing values	0

Variables	
B	0.9996
M	0.6940
Std. Error	
B	0.03981
M	0.04476
95% Confidence Intervals	
B	0.9148 to 1.084
M	0.5987 to 0.7894
Goodness of Fit	
Degrees of Freedom	15
R squared	0.9810
Absolute Sum of Squares	0.02446
Sy.x	0.04038
Residuals	
Points above curve	6
Points below curve	11
Number of runs	10
P value (runs test)	0.8235
Deviation from Model	Not Significant
Data	
Number of X values	17
Number of Y replicates	1
Total number of values	17
Number of missing values	0

Rosgen C4 Stream Type:

Width/Width$_{BKF}$ as a Function of Discharge/Discharge$_{BKF}$

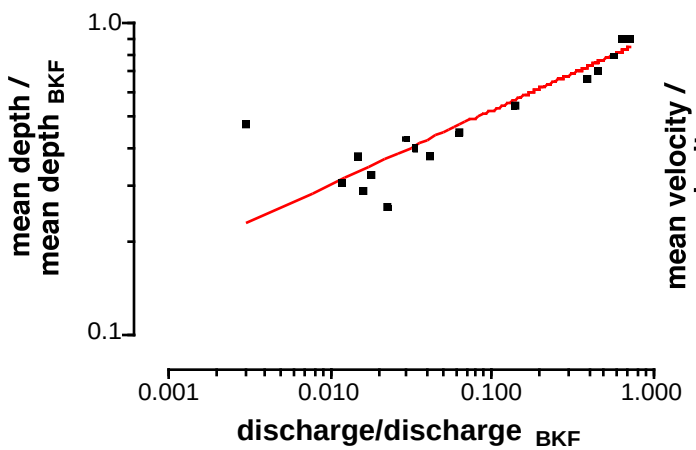
$w = aQ^b$ ($y=bx^m$)



Rosgen C4 Stream Type:

Depth/Depth$_{BKF}$ as a Function of Discharge/Discharge$_{BKF}$

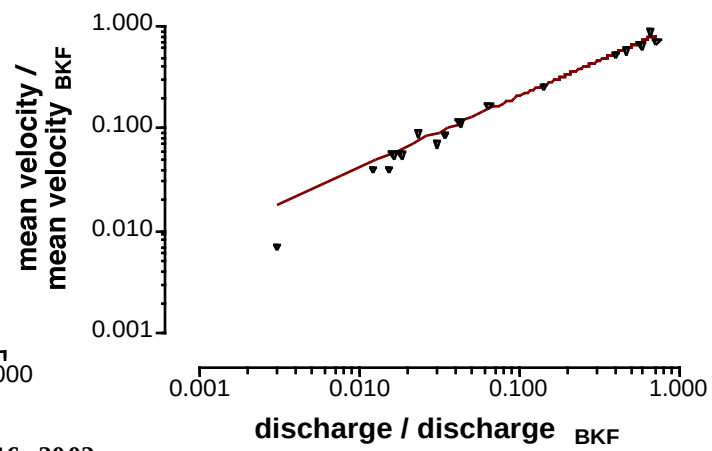
$D = cQ^d$ ($y=bx^m$)



Rosgen C4 Stream Type:

Velocity / Velocity$_{BKF}$ as a Function of Discharge / Discharge$_{BKF}$

$V = eQ^f$ ($y=bx^m$)



Samuel Austin: Virginia Department of Forestry: April 16, 2002