

Worksheet 23. Total Bank Erosion Calculation

Stream:				Total Bank Length:		Stream Type:	
Observers:				Date:		Graph Used:	
	Station (ft)	BEHI (adjective)*	Near Bank Stress (adjective)	Erosion Rate (ft/yr)*	Length of Bank (ft)	Bank Height (ft)	Erosion Sub- Total (ft ³ /yr)
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
I. Sum erosion sub-totals for each BEHI/NBS combination						Total Erosion (ft³/yr)	
II. Divide total erosion (feet ³) by 27 feet ³ /yard ³						Total Erosion (yd³/yr)	
III. Multiply Total Erosion (yard ³) by 1.3 (conversion of yd ³ to tons for average material type)						Total Erosion (tons/year)	
IV. Calculate erosion per unit length: divide total erosion (ton/year) by total length of stream (ft) surveyed						Total Erosion (tons/yr/ft)	

*Use numerical category spread to predict rates. (i.e. 21 = Moderate but at start of category, where as 28 is on upper end of relation - use prediction values appropriate to numerical rating).