

Worksheet 29a. Vertical stability prediction summary.

Based on the Integration of Stability Indices			
Stability Category	Stable	Aggradation	Degradation
1 Critical Dimensionless Shear Stress or Shear Stress (Shields)	Sufficient depth and/or slope	(8) Insufficient depth and/or slope	Excess depth and/or slope
2 Degree of Incision (BHR)	< 1.1	N/A	> 1.1
3 Sediment Capacity Model (POWERSED)	Sediment In = Sediment Out	Insufficient transport capacity	Excess transport capacity
4 W/d Ratio State	1.0 - 1.6	> 1.6	< 0.8*
5 Stream Sucessional States	Current Stream Type = Potential	(C → D), (C → High W/d C)	(C → G), (E → G), (B → G)
6 Depositional Patterns	B1, B2, B4, B8	**B3, B5, B6, B7	N/A
7 Meander Pattern	M1, M2, M3	M5, M6, M8	M5 or M6 with the conversion of floodplains to terraces
8 Entrenchment Ratio	> 2.2 for E and C Stream Types 1.6 - 2.2 for B Stream Type	N/A	< 1.2 for E and C Stream Types < 1.1 for B Stream Type
9 Confinement	1.0 - 0.3	N/A	< 0.1
1 Sediment Competence - Entrainment using critical dimensionless shear stress (τ^*) in relation to the largest clast available (D_{max}) or Sediment Competence - Entrainment using Shields Diagram (critical shear stress related to largest moveable clast, Figure 29)			
2 Bank-Height Ratio (BHR) Worksheet V-5.			
3 POWERSED or similar transport model (Worksheet V-19).			
4 (W/d ratio)/(Reference W/d ratio) *Corresponds to an increase in bank-height ratio (> 1.1) (Worksheet V-5).			
5 Figure II-38.			
6 Figure V-10. **Excess medium to coarse size deposition on floodplain.			
7 Figure V-9.			
8 W_{pa}/W_{old} , Worksheet V-3.			
9 Meander width ratio/Reference meander width ratio (Worksheet V-3).			
Circle the appropriate rating for each			
*The analyst must identify the category listing is sorted from the minimum, at least two of the nine			
			Overall vertical stability rating*