

Appendix 7D-5 Selection of Stability Factors

CONDITION	STABILITY FACTOR RANGE
Uniform flow; straight or mildly curving reach (curve radius/channel width >30); impact from wave action and floating debris is minimal; little or no uncertainty in design parameters.	1.0 - 1.2
Gradually varying flow; moderate bend curvature ($30 > \text{curve radius/channel width} > 10$); impact from waves or floating debris is moderate.	1.3 - 1.6
Approaching rapidly varying flow; sharp bend curvature ($30 > \text{curve radius/channel width} > 10$); significant impact potential from floating debris and/or ice; significant wind and/or bore generated waves (1-2 ft); high flow turbulence; mixing flow at bridge abutments; significant uncertainty in design parameters.	1.6 - 2.0
Channel bends when ratio of curve radius to channel width (R/W) > 30.	1.2
Channel bends when $30 > R/W > 10$.	1.3 - 1.6
Channel bends when $R/W < 10$.	1.7