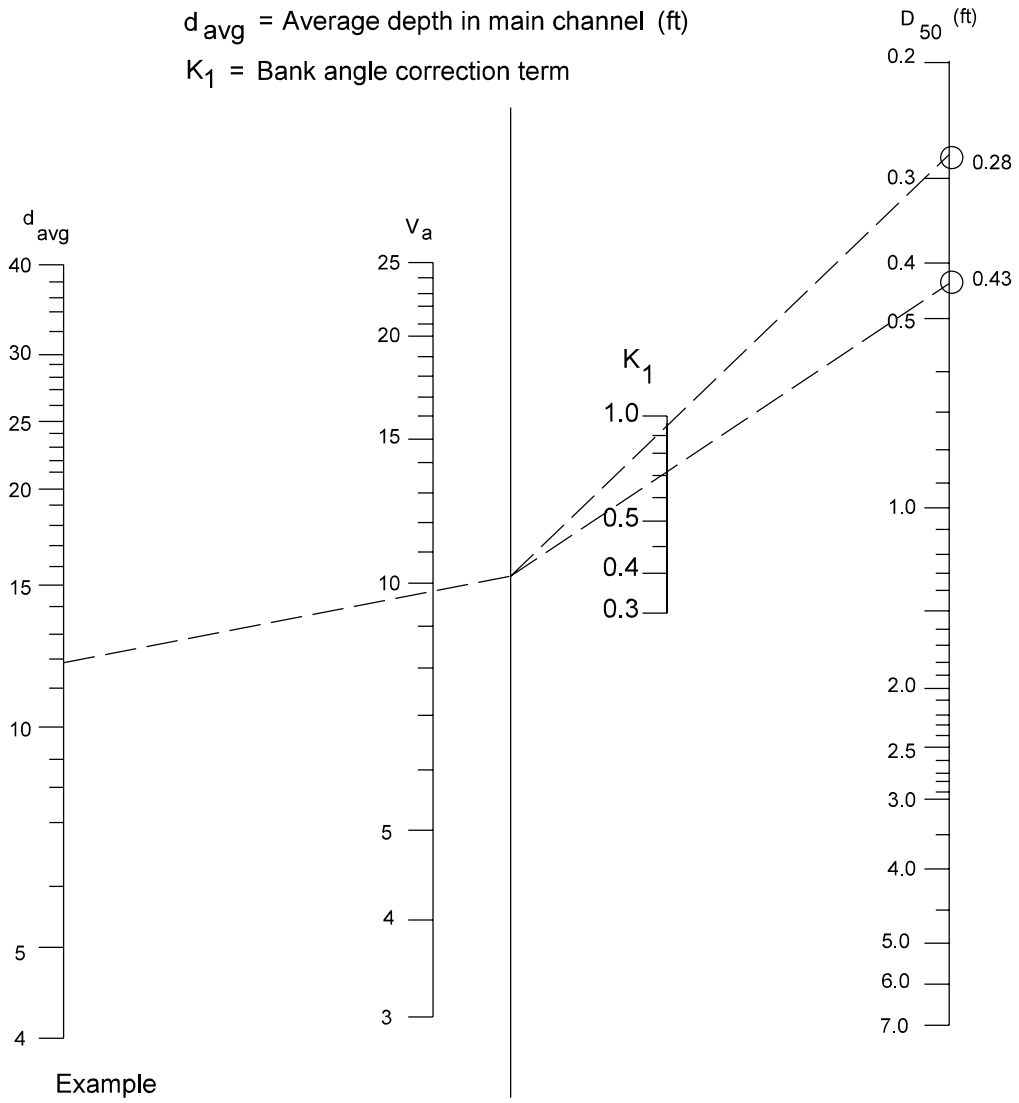
$$D_{50} = 0.001 \; V_a^3/(d_{avg}^{1/2} K_1^{3/2})$$

D_{50} = Median riprap size (ft)

V_a = Average velocity in main channel (ft/s)

d_{avg} = Average depth in main channel (ft)

K_1 = Bank angle correction term



Example

Given:	Find:	Solution:
V_a =9.7 ft/s	D_{50}	D_{50} = 0.43 ft
d_{avg}=11.8 ft		
K_1 = 0.73		

RIPRAP SIZE RELATIONSHIP
(Example 1, Step 7)

Figure 38-6S