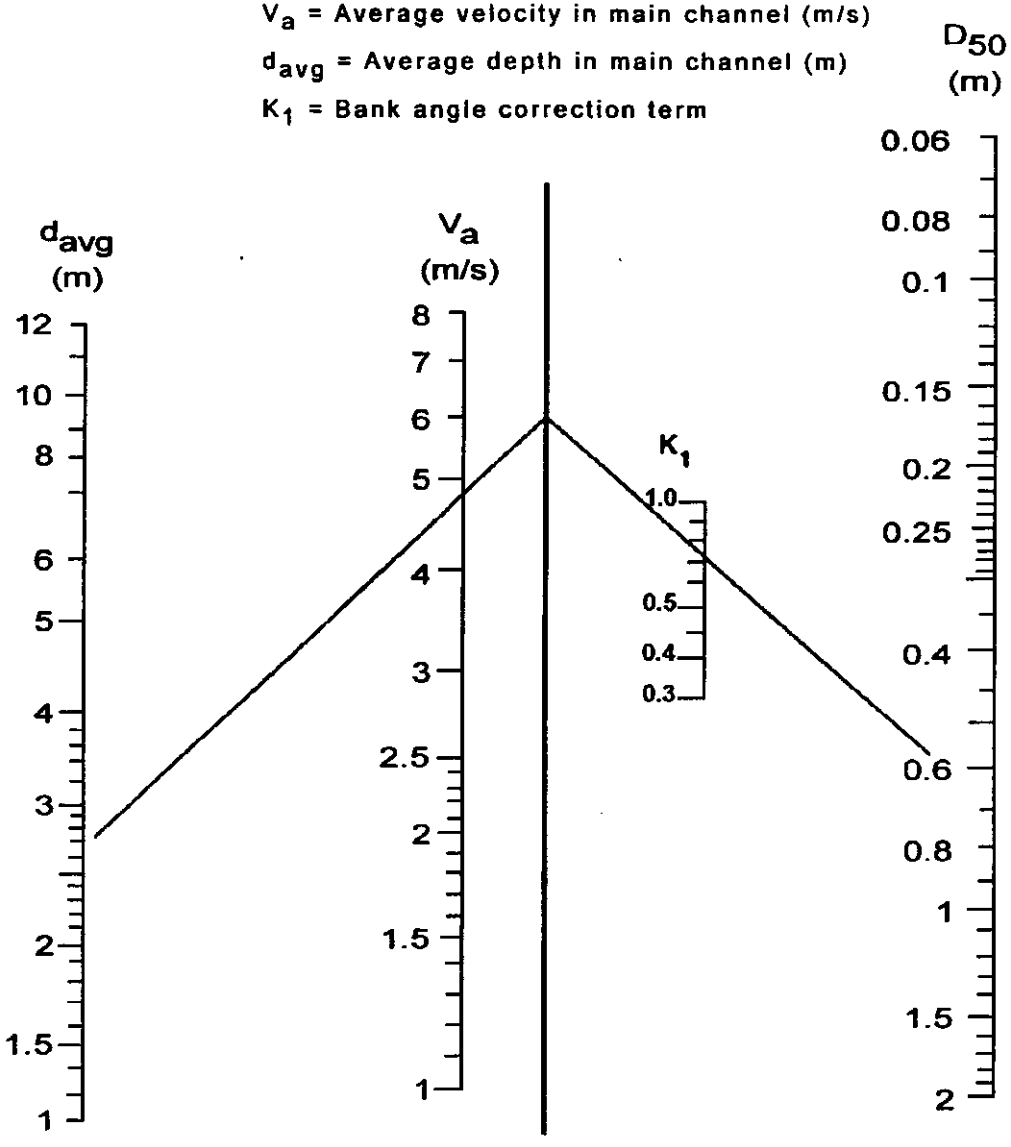
$$D_{50}=0.005\,94\ V_a^3/(d_{avg}^{1/2}K_1^{3/2})$$

D_{50} = Median Riprap Size (m)

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

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

K_1 = Bank angle correction term



Example

Given:	Find:	Solution:
V_a=4.9 m/s	D_{50}	D_{50}=0.69 m
d_{avg}=2.75 m		
K_1=0.72		

RIPRAP SIZE RELATIONSHIP

Figure 38-6A