

$$D_{50} = 0.00594 V_a^3 / (d_{avg}^{1/2} K_1^{3/2})$$

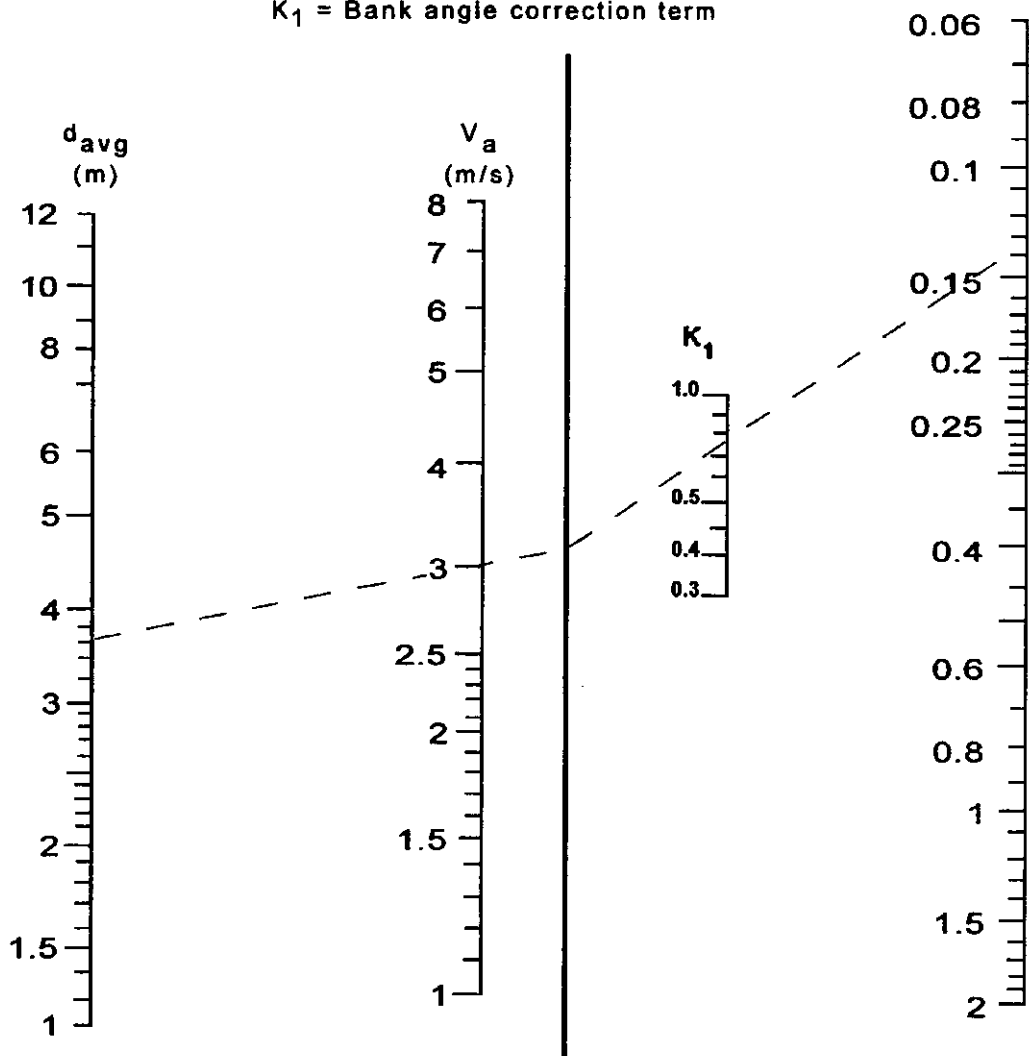
D_{50} = Median riprap size (m)

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

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

K_1 = Bank angle correction term

D_{50}
(m)



Example

Given:

$V_a = 3$ m/s

$d_{avg} = 3.6$ m

$K_1 = 0.73$

Find:

D_{50}

Solution:

$D_{50} = 0.13$ m

RIPRAP SIZE RELATIONSHIP

(Example 1, Step 7)

Figure 38-6S