

**Table 6. Trapezoidal settling channel design.**

Bottom slope (%)	Depth (ft)	Bottom width (ft)						
		10	15	20	25	30	35	
0.1	0.5	fps	0.6	0.7	0.7	0.7	0.7	0.7
		cfs	3.7	5.5	7.4	9.2	11.1	12.9
	1.0	fps	0.9	1.0	1.0	1.0	1.1	1.1
		cfs	12.2	17.9	23.6	29.4	35.2	41.0
	1.5	fps	1.2	1.2	1.3	1.3	1.3	1.4
		cfs	25.1	36.0	47.1	58.4	69.7	81.1
	2.0	fps	1.3	1.4	1.5	1.5	1.6	1.6
		cfs	42.8	60.0	77.7	95.6	113.7	131.9
0.2	0.5	fps	0.9	0.9	1.0	1.0	1.0	1.0
		cfs	5.2	7.8	10.4	13.0	15.6	18.2
	1.0	fps	1.3	1.4	1.5	1.5	1.5	1.5
		cfs	17.3	25.3	33.4	41.6	49.8	58.0
0.3	0.5	fps	1.1	1.2	1.2	1.2	1.2	1.2
		cfs	6.4	9.6	12.8	15.9	19.1	22.3

**Note:** These low-slope channels settle solids out of runoff. The lower the water velocity, fps, the higher the settling rate. Construct the channel at least 0.5 foot deeper than the table value to allow for solids storage. Bottom slope as shown, sideslopes = 3:1 and n = 0.04.