

TABLE OF MANNING "n" VALUES

		Manning "n" Value
PIPES		
Pipe Material		
Helical corrugated steel/aluminum		
Diameter (inches)		
2-2/3 x 1/2 corrugations		
15		0.014
18		0.015
21		0.016
24		0.017
27		0.018
30		0.019
36		0.029
42		0.021
48		0.021
3 x 1 corrugations		
36		0.022
42		0.023
48		0.024
Note: Arch pipe shall have the Manning "n" of an equal periphery of circular pipe.		
Reinforced Concrete		
All diameters		0.013
Corrugated Polyethylene		
Smooth lining - all diameters		0.012
Ribbed PVC, PS46		
All diameters		0.011
CULVERTS AND BRIDGES		
Material		
All concrete		0.013
Stone lined channel (bridges only)		0.030