WATER FRICTION IN 100 FEET OF SMOOTH BORE HOSE. For various flows and hose sizes, table gives velocity of water and feet of head lost in friction in 100 feet of smooth bore hose. Sizes of hose shown are actual inside diameters.

Flow in U.S. Gallons Per Min.	1" Velocity in Feet Per Sec.	1" Friction Head in Feet	1½" Velocity in Feet Per Sec.	1½" Friction Head in Feet	2" Velocity in Feet Per Sec.	2" Friction Head in Feet	2½" Velocity in Feet Per Sec.	2½" Friction Head in Feet	3" Velocity in Feet Per Sec.	3" Friction Head in Feet	4" Velocity in Feet Per Sec.	4" Friction Head in Feet
5	2.0	2.2	.9	.3								
10	4.1	7.8	1.8	1.0	1.0	.2						
15	6.1	16.8	2.7	2.3	1.5	.5						
20	8.2	28.7	3.6	3.9	2.0	.9	1.3	.32				
25	10.2	43.2	4.5	6.0	2.5	1.4	1.6	.51				
30	12.2	61.2	5.4	8.5	3.1	2.0	2.0	.70	1.4	.3		
35	14.3	80.5	6.4	11.2	3.6	2.7	2.3	.93	1.6	.4		
40			7.3	14.3	4.1	3.5	2.6	1.2	1.8	.5		
45			8.2	17.7	4.6	4.3	2.9	1.5	2.0	.6		
50			9.1	21.8	5.1	5.2	3.3	1.8	2.3	.7		
60			10.9	30.2	6.1	7.3	3.9	2.5	2.7	1.0		
70			12.7	40.4	7.1	9.8	4.6	3.3	3.2	1.3		
80			14.5	52.0	8.2	12.6	5.2	4.3	3.6	1.7		
90			16.3	64.2	9.2	15.7	5.9	5.3	4.1	2.1	2.3	.5
100			18.1	77.4	10.2	18.9	6.5	6.5	4.5	2.6	2.5	.6
125					12.8	28.6	8.2	9.8	5.7	4.0	3.2	.9
150					15.3	40.7	9.8	13.8	6.8	5.6	3.8	1.3
175					17.9	53.4	11.4	18.1	7.9	7.4	4.5	1.8
200	3.3	.8	2.3	.32	20.4	68.5	13.1	23.4	9.1	9.6	5.1	2.3
225	3.7	1.0	2.6	.40			14.7	29.0	10.2	11.9	5.7	2.9
250	4.1	1.2	2.8	.49			16.3	35.0	11.3	14.8	6.4	3.5
275	4.5	1.4	3.1	.58			18.0	42.0	12.5	17.2	7.0	4.2
300	4.9	1.7	3.3	.69			19.6	49.0	13.6	20.3	7.7	4.9
325	5.3	2.0	3.7	.80					14.7	23.5	8.3	5.7
350	5.7	2.3	4.0	.90					15.9	27.0	8.9	6.6
375	6.1	2.6	4.3	1.0					17.0	30.7	9.6	7.4
400	6.5	2.9	4.5	1.1	2.6	.28					10.2	8.4
450	7.4	3.6	5.1	1.4	2.9	.35					11.5	10.5
500	8.2	4.3	5.7	1.7	3.2	.43					12.8	12.7
600	9.8	6.1	6.8	2.4	3.8	.60					15.3	17.8
700	11.4	8.1	7.9	3.3	4.5	.80					17.9	23.7
800	13.1	10.3	9.1	4.2	5.1	1.1						
900	14.7	12.8	10.2	5.2	5.8	1.3						
1000	16.3	15.6	11.4	6.4	6.4	1.6						
1100	17.9	18.5	12.5	7.6	7.0	1.9						
1200			13.6	9.2	7.7	2.3						
1300			14.7	10.0	8.3	2.6						
1400			15.9	11.9	8.9	3.0						
1500			17.0	13.6	9.6	3.3						
1600					10.2	3.7						
1800					11.5	4.7						
2000					12.8	5.7						
2500					16.0	8.6						
3000					19.1	12.2						