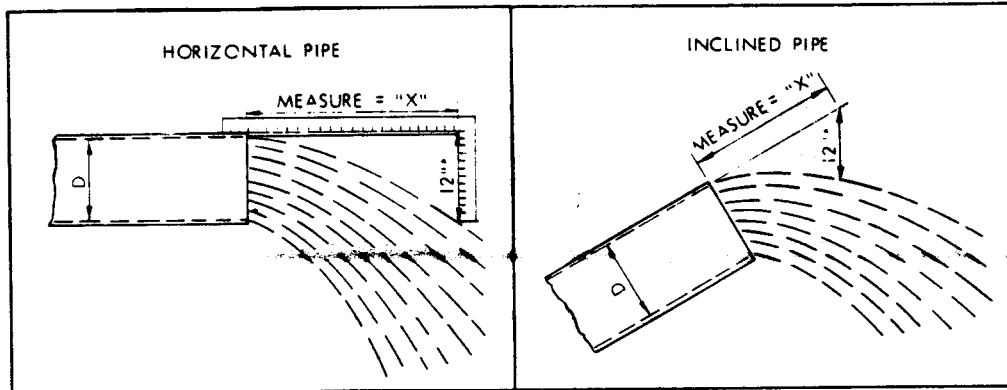


**"YARDSTICK" WATER MEASURING METHOD**

THE GPM FLOW FROM PIPES MAY BE APPROXIMATED BY MEASURING THE DISTANCE "X" IN INCHES WHEN THE VERTICAL DISTANCE IS 12" (OR 6", SEE NOTE BELOW TABLE) AND FIND VALUE IN TABLE 1.

**FOR PIPES FLOWING FULL**



**TABLE 1**  
**GALLONS PER MINUTE**

Dia. Pipe = D	Horizontal Distance = "X"									
	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"
2"	41	48	55	61	68	75	82	89	96	102
3"	90	105	120	135	150	165	180	195	210	225
4"	150	181	207	232	258	284	310	336	361	387
6"	352	410	470	528	587	645	705	762	821	880
8"	610	712	813	915	1017	1119	1221	1322	1425	1527
10"	960	1120	1280	1440	1600	1760	1920	2080	2240	2400
12"	1378	1607	1835	2032	2300	2521	2760	2980	3210	3430

APPROXIMATE FLOWS FROM PIPE RUNNING FULL  
\*IF 6" VERTICAL DISTANCE IS USED MULTIPLY GPM BY 1.4

**FOR PIPES FLOWING PARTIALLY FULL**

FLOW FROM PARTIALLY FILLED PIPES  
Divide "E" by "D" for per cent factor. Multiply flow for full pipe of "D" diameter (Table 1) by factor obtained from Table 2.

E - Measure of empty portion of pipe.  
D - Measure of inside diameter of full pipe.

**TABLE 2**

E/D	Factor	E/D	Factor
10	0.95	50	0.50
20	0.86	60	0.38
25	0.81	65	0.31
30	0.75	70	0.25
35	0.69	80	0.14
40	0.63	90	0.05
45	0.56	100	0.00

