

**DECIMAL FACTORS FOR DETERMINING P.S.I. LOSSES IN SPECIFIC PIPE.**

BASE FORMULA -----  $P = \frac{4.52 \times Q^{1.85}}{C^{1.85} \times d^{4.85}}$

P = Pressure      Q = Gallons  
 C = Coefficient of System  
 (wet, dry, underground)  
 d = Inside Diameter

PIPE TYPE / MFG. : "WST" - WHEATLAND SCH. 5

PIPE SIZE I.D.	WET	DRY
	C = 120	C = 100
1" = 1.185	0.00028257	0.00039458
1 1/4" = 1.53	0.00008113	0.00011368
1 1/2" = 1.77	0.0000399	0.00005591
2" = 2.245	0.00001254	0.00001757

FROM CHART ABOVE :

$P = Q^{1.85} \times (\text{PIPE MULTIPLIER})$

EXAMPLE: WET SYSTEM- 1 1/2" pipe w/ 137.6 gpm

$P = 137.6 \text{ gpm}^{1.85} \times (1 \text{ 1/2" pipe})$

$P = 9045.74 \times .0000399$

$P = .361 \text{ psi LOSS PER PT.}$