

FRICTION LOSS PER 660 FT (1/8 MILE) HAZEN WILLIAMS C=160																							
FLOW (GPM) -->			1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	5000	5500	6000	<-- FLOW (GPM)		
5	HEAD	FEET	82	124	174	232	297	369	449	536	630	730	837	952	1072	1182	1313	1596	1903	2236	FEET	HEAD	5
	LOSS	PSI	35	54	75.5	101	129	160	195	232	273	310	363	412	461	512	569	691	824	968	PSI	LOSS	
	V	FT/S	16	20	25	29	33	37	41	45	49	53	57	61	65	69	73	82	90	98	FT/S	V	
5.5	HEAD	FEET	52	78	109.7	146	187	232	282	337	396	459	527	599	675	743	826	1003	1197	1407	FEET	HEAD	5.5
	LOSS	PSI	22	34	48	63	81	100	122	146	171	199	228	259	290	322	358	434	518	609	PSI	LOSS	
	V	FT/S	13.5	17	20	24	27	30	34	37	40.5	44	47	51	54	57	60	68	74	81	FT/S	V	
6	HEAD	FEET	34	51	72	95	122	152	185	220	259	301	345	392	442	487	541	657	783	922	FEET	HEAD	6
	LOSS	PSI	15	22	31	41	53	66	80	95	112	130	149	170	190	211	234	285	339	399	PSI	LOSS	
	V	FT/S	11	14	17	20	23	25.5	28	31	34	37	40	43	45	48	51	57	62	68	FT/S	V	
7	HEAD	FEET	16	24	34	45	58	72	87	104	122	142	163	185	209	230	256	311	370	434	FEET	HEAD	7
	LOSS	PSI	7	10.5	15	19.5	25	31	38	45	53	61.5	70.5	80	90	100	111	135	160	188	PSI	LOSS	
	V	FT/S	8	10	12.5	15	16.7	19	21	23	25	27	29	31	33	35	37	42	46	50	FT/S	V	
FLOW (GPM) -->			1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	5000	5500	6000	<-- FLOW (GPM)		
7.25	HEAD	FEET	13.4	20	28	38	48	60	73	87	102	118	135	154	173	194	215	261	312	367	FEET	HEAD	7.25
	LOSS	PSI	5.8	8.8	12.3	16.3	20.8	26	31.5	37.5	44	51	58.6	66.6	75	84	93	113	135	159	PSI	LOSS	
	V	FT/S	8	10	11.7	13.6	15.6	17.5	19.5	21.4	23.4	25.3	27	29	31	33	35	39	43	47	FT/S	V	
7.5	HEAD	FEET	11.3	17.1	24	32	41	51	62	74	86	100	115	131	147	165	183	222	266	312	FEET	HEAD	7.5
	LOSS	PSI	4.9	7.4	10.4	13.8	17.7	22	26.7	31.8	37.4	43.3	49.7	56.5	63.6	71.2	79.1	96.1	115	135	PSI	LOSS	
	V	FT/S	7.3	9.1	10.9	12.8	14.6	16.4	18.2	20	21.8	23.6	25.5	27.3	29.1	30.9	32.7	36.4	40	43.6	FT/S	V	
8	HEAD	FEET	8.4	13	18	23.5	30	37.5	46	54.5	64	74	85	97	109	120	134	162	194	227	FEET	HEAD	8
	LOSS	PSI	3.6	5.5	8	10	13	16	20	24	28	32	37	42	47	52	57.8	71	84	98.4	PSI	LOSS	
	V	FT/S	6.4	8	9.6	11	13	14	16	17.5	19	21	22.5	24	26	27	28	32	35	38	FT/S	V	
10	HEAD	FEET	3	4	6	8	10	13	15.4	18.4	22	25	29	33	37	40.7	45.1	55	65	77	FEET	HEAD	10
	LOSS	PSI	1.2	2	3	3.5	4.5	5.5	7	8	9.5	11	12.5	14	16	17.6	19.5	24	28.3	33.2	PSI	LOSS	
	V	FT/S	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	20	23	24	FT/S	V	
12	HEAD	FEET	1.2	1.9	2.6	3.3	4.2	5.3	6.5	7.7	8.8	10.2	11.8	13.4	15.1	16.9	18.7	22.6	27	31.5	FEET	HEAD	12
	LOSS	PSI	0.5	0.8	1.1	1.4	1.8	2.3	2.8	3.3	3.8	4.4	5.1	5.8	6.5	7.3	8.1	9.8	11.7	13.7	PSI	LOSS	
	V	FT/S	2.8	3.5	4.2	4.9	5.6	6.3	7	7.8	8.5	9.2	9.9	10.6	11.3	12	12.7	14.2	15.6	17	FT/S	V	
FLOW (GPM) -->			1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	5000	5500	6000	<-- FLOW (GPM)		



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