

Irrigation Conversion Chart

Quantities are for maximum discharge

Dia.	GPM	CFS	Miners Inches	JOINTS / Qt. of Solvent	Siphon Tube Discharge in GPM					
					Tube Size (Diameter)					
1/2"	1.945	0.005	0.172	400						
3/4"	4.375	0.01	0.391	350						
1"	7.781	0.018	0.688	240						
1-1/4"	12.156	0.027	1.078	180	miners inches	1"	1-1/4"	1-1/2"	2"	3"
1-1/2"	17.5	0.039	1.563	120	2"	5	8	12	20	45
2"	31.125	0.07	2.75	90	3"	6	10	14	24	55
2.5"	48.625	0.108	4.313	60	4"	7	11.5	16	28	65
3"	70	0.156	6.25	42	5"	8	13	18	32	74
4"	124.5	0.278	11	30	6"	9	14	20	36	81
6"	280	0.624	25	16	7"	10	15.25	22	40	87
8"	498	1.11	44	9	8"	10.75	16.5	24	43	93
10"	778	1.73	69	6	9"	11.25	17.5	25.5	45	99
12"	1120	2.5	100	5	10"	11.75	18.5	27	47	105
14"	1524	3.4	136	4	11"	12.5	19.5	28	49	110
15"	1750	3.9	156	4	12"	12.75	20	29	51	114
16"	1992	4.45	176	4						
18"	2520	5.6	224	3						
20"	3111	6.9	276	3						
21"	3430	7.64	305	3						
24"	4480	9.98	399	2						

1 CFS	=	448.8 GPM	The Irrigator's Formula
1 CFS	=	40 Miners Inches	
1 CF	=	7.48 Gallons	
CFS x time in (hrs)	=	Acre Inches	
1 CFS for 1 hour	=	1 Acre Foot	
1 Acre foot	=	325.872 Gallons	
1 Acre foot	=	43560 cubic feet	

	Time (HR)	1	2	3	4	5	10	24	48
V O L U M E (CFS)	1	0.1	0.2	0.3	0.3	0.4	0.8	2	4
	2	0.2	0.3	0.5	0.7	0.8	1.7	4	8
	3	0.3	0.5	0.8	1	1.3	2.5	6	12
	4	0.3	0.7	1	1.3	1.7	3.3	8	16
	5	0.4	0.8	1.3	1.7	2.1	4.2	10	20
	10	0.8	1.7	2.5	3.3	4.2	8.3	20	40
	15	1.3	2.5	3.8	5	6.3	12.5	30	60