

Tower Creek Lower ditch

GPS Site Tag No.: A0015035
 POD Location: T23N, R22E, S17, SWNW
 Rate Measured: 2.34 cfs

Claim No.	Priority Claimed	Rate Claimed (cfs)	Priority Rec.	Rate (0.02 cfs/acre)	Ditch Length (mi.)	Conveyance Loss (cfs)	Max. Rate (cfs)	Rec. Rate (cfs)
75-2004A	2/19/1907	0.23	2/19/1907	0.024	0.192	0.051	0.08	0.08
75-2004F	2/19/1907	0.04	2/19/1907	0.062	0.312	0.083	0.15	0.04
75-2004G	2/19/1907	0.10	2/19/1907	0.018	0.269	0.072	0.09	0.09
75-2004K	2/19/1907	0.05	2/19/2007	0.006	0.044	0.012	0.02	0.02
75-2004L	2/19/1907	0.11	2/19/1907	0.074	0.101	0.027	0.10	0.10
75-4067	6/7/1897	0.14		0	0	0.000	0.00	0.00
75-4141	6/7/1897	0.20	4/1/1912	0.024	0.477	0.127	0.15	0.15
75-4143	6/7/1897	0.34	4/1/1912	0.140	0.523	0.140	0.28	0.28
75-4168	2/19/1907			0	0	0.000	0.00	0.00
75-4314	2/19/1907			0	0	0.000	0.00	0.00
75-4497	6/15/1948	0.24	6/15/1948	0.072	0.788	0.210	0.28	0.24
		1.45					1.14	0.67

Conveyance Loss (Worstell Method)

$$S=(W)(i)(0.0667)$$

where: S = loss in cfs/mile
 W = top width of ditch high water mark in feet
 i = loss rate in feet per day (see table)
 0.0667 is a factor to convert to cfs/mile

Type of Soil	Loss Rate i (ft/day)
med. Clay loam	0.5 to 1.5
impervious clay	0.5
med. Soils	1.0
somewhat pervious	1.5 to 2.0
gravel	2.5 to 5.0