

6/3/2024

Via email

Utah Lake Distributing Company (ULDC)
1156 South State Street Suite 201
Orem, Utah 84097

Re: Water Share Delivery Memorandum

Dear ULDC and ULDC Shareholders:

The below calculations explain how we derive water share equivalents per share during the irrigation season.

1. ULDC Share Equivalent and Irrigation Season

1 ULDC share = 5.11 acreft of water
Irrigation Season (April 15th – October 31st) = 200 days or 28.57 weeks

2. ULDC Share Equivalent per Week

$$1 \text{ ULDC share} = \frac{5.11 \text{ acreft of water}}{28.57 \text{ weeks}} = 0.179 \text{ acreft/week}$$

3. Delivery per Turn

The weekly share volume of water shall be delivered per turn:

1 turn rotation = 7 days

1 share = 1 hour per turn

Therefore:

$$1 \text{ ULDC share} = 0.179 \text{ acreft/hour} = \frac{0.179 \text{ acreft} \times \frac{43560 \text{ cubic ft}}{\text{acreft}}}{\text{hour} \times \frac{3600 \text{ sec}}{\text{hour}}} = 2.17 \text{ cfs}$$

Hence, 1 ULDC share = 2.17 cfs for 1 hour.

4. Multiple Shares

For 2 shares:

2 ULDC shares = 2 hours @ 2.17 cfs (that is 2.17 cfs for 2 hours a week)

The ULDC schedule can be modified slightly to accommodate different water delivery flow rates to certain users, at the users' request. For example, a shareholder can reduce the time and increase the flowrate as follows:

2 ULDC shares = 4.34 cfs for 1 hour a week

However, this can cause scheduling or water supply issues.

For low flow situations, a shareholder can increase the time and reduce the flowrate as follows:

1 ULDC share = 1.09 cfs for 2 hours OR 0.55 cfs for 4 hours.

However, users taking differing flow rates for longer/shorter periods will overlap those scheduled users that take the normal 2.17 cfs. This could cause an overallocation of water in the canal and the canal could run out of water before it reaches the end users. Extra effort is required to accommodate these users and modify their schedules to fit into the irrigation schedule.

It is highly recommended that all users plan their water use to meet the standard 2.17 cfs for 1 hour. However, ULDC can decide which systems can use a modified schedule. Franson Civil will do its best to accommodate and optimize these water delivery schedules to ensure that all ULDC shareholders receive their allocated shares of water.

Please feel free to call if you have any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "Kyle DeVaney".

Kyle DeVaney, P.E.

cc: Vince Hogge, P.E (Via email)
Franson Civil Engineers