2021

Water Delivery and Operations Policy

Current year to date water usage data for your irrigated parcels can be viewed through the EID's FREE IRMA web application.

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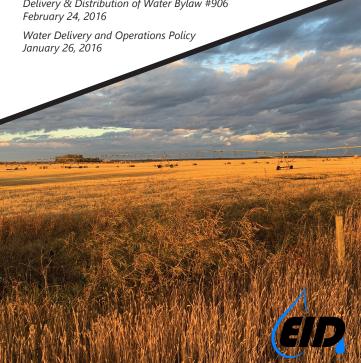
P.O. Box 128 550 Industrial Road West Brooks, Alberta Canada T1R 1B2

Eastern Irrigation District

Phoning or texting your Water Operator at least 48 hours prior to your intended irrigation start-up, and at least 24 hours in advance of your intended shut-down, is required and ensures efficient operation of the irrigation delivery system.

As per the Maximum Water Delivery Bylaw #907, the maximum amount of water per irrigation season that may be delivered to each assessed acre shall not exceed 24" per acre. Please be mindful of your water use and contact your Water Operator to determine your actual recorded flow at delivery points and present total water consumption to date.

Maximum Water Delivery Bylaw #907 April 26, 2016 Delivery & Distribution of Water Bylaw #906



Water Operator Contact List

NORTH DIVISION OPERATIONS

S6 Tilley Water Operator

S7 North Rolling Hills Water Operator

S8 South Rolling Hills Water Operator

Divisional Superintendent Assistant Divisional Superintendent	Chuck Getz Brent Kroschel	403-363-5607 403-363-5606
 N1 Bassano Water Operator N2 Pitau Water Operator N3 Gem Water Operator N4 Rosemary Water Operator N5 Duchess Water Operator N6 Cockerill Water Operator N7 Millicent Water Operator N8 Patricia Water Operator 	Scott Beddows Pedro Isidoro Derek Kroschel Levi Lepp B.J. Hasper Gord Leland Will Allaby Scott McInnis	403-363-5630 403-363-5631 403-363-5632 403-363-5634 403-363-5635 403-363-5638 403-363-5639
SOUTH DIVISION OPERATIONS		
Divisional Superintendent Assistant Divisional Superintendent	Don Syvret Gary Bobinski	403-363-5604 403-363-5605
 S1 Antelope Creek/Brooks Water Operator S2 Kitsim Water Operator S3 Bow Slope Water Operator S4 Aqueduct/Bantry Water Operator S5 Elizabeth Water Operator 	Frank Klassen Duce Currie Peter Thiessen Troy Canning Dale Williams	403-363-5620 403-363-5621 403-363-5623 403-363-5624 403-363-5626

Stuart Cleland

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1.0 Irrigation of Properly Assessed Irrigation Land

Water supplied for irrigation may only be delivered to lands that are properly assessed for irrigation purposes. The classification of such lands will be as "irrigation acres" [commonly referred to as first water] or subject to an "Annual Agreement" or "Terminable Agreement" [commonly referred to as second water].

The <u>Irrigation Districts Act</u> [c. I-11, RSA 2000] requires that lands added to the assessment roll meet soil classification standards. The District evaluates all applications for increases in irrigation acres under its irrigation expansion policy before any acres are added. All irrigators are responsible to ensure that their irrigation systems and practices are in compliance with the classification of their lands, the assessment roll and any approval or authorization issued by the District. No irrigation of lands is permitted without proper authorization. Irrigators are to advise the District (IN ADVANCE) of any changes in irrigation practice or on-farm irrigation systems in order to ensure that their lands remain properly classified. The District may, from time to time, audit irrigation systems for compliance with the assessment roll and any approval or authorization issued by the District.

A user who diverts and/or uses water on lands that are not included on the assessment roll or are not subject to a current agreement will be considered to have taken water without proper authorization and could be dealt with under any applicable bylaw or under section 188 of the Irrigation Districts Act.

2.0 Household and Rural Water Requirements

2.1 Household Water Agreements

All lands that are classified with irrigation acres are entitled to receive water for household purposes without a household purposes agreement. Household purposes agreements are limited to one (1) acre foot of water per year. The District is not obligated to supply water in a continuous manner for household purposes.

Lands that are not classified with irrigation acres may obtain water for household purposes if they obtain proper authorization from the District. Such authorization is to be obtained in advance of any diversions or household water use.

2.2 Rural Water Use Agreements

Landowners [or lessees] may apply to the District for a rural water use agreement for uses of water other than for household or irrigation purposes. Rural water use agreements allow for the delivery of up to twenty (20) acre feet of water per year. The volume of water in a rural water use agreement is determined by the District in the application and approval process. The District is not obligated to supply water in a continuous manner for rural water use purposes.

2.3 Other Purposes Agreement

Any person may apply to the District for an other purposes agreement for Municipal, Agricultural, Commercial, Industrial, Habitat Enhancement or Recreation Purposes as authorized by the District's License to Divert and Use Water. The volume of water in an other purposes agreement is determined by the District in the application and approval process. The District is not obligated to supply water in a continuous manner for other purposes.

2.4 On-Farm Water Storage

Users are responsible to ensure that their "storage reservoirs" are of sufficient size to store all off-season water supplies that may be required by them [a minimum of 7 months is generally required] plus any water a User may require during any time that the District is unable to deliver water for any reason.

3.0 Water Management

3.1 Control of Water

All irrigation works are controlled by staff of the District. Individual irrigators or other users are not authorized to operate or adjust any of the irrigation works of the District. Water delivered to irrigators must be taken as ordered. Irrigators are required to manage their irrigation operations in a manner that will provide for the continuous use of water supplies from initial start-up to termination.

3.2 Delivery of Water

All irrigators and/or users shall advise appropriate staff of the District (usually Water Operators), at least **48 HOURS** **IN ADVANCE**, of their requirements for water. Such notice shall include the quantity of water requested, as well as the location of the delivery. This notice is essential for the District to properly control the water supplies within the irrigation system, and to ensure that it is beneficially used.

Irrigators are asked not to request water deliveries to be made on Sundays.

Water will be delivered as soon as is reasonably possible, in most cases the next day. Deliveries will only be made on the same day where there is equivalent water shut-off or otherwise available. Where constraints to water delivery exist, irrigators will be advised of the length of time they may have to wait, prior to the delivery of water.

All irrigators and/or users who receive water for irrigation acres from a point of delivery designated as coming from a drain that relies, at least partially, on spill water (irrigation return flow) from upstream irrigators and the canal system, acknowledge that deliveries may not occur within the normal 48 hour period. Water deliveries to these lands will be made as soon as possible and the District may choose to augment flows in drains at times when there are no shortages in water supply.

All irrigators and/or users who receive water for irrigation acres from a point of delivery designated as being from a lake or reservoir, are entirely responsible for the installation and operation of the means of accessing the water for their irrigation and/or agreement purposes and to adapt to all fluctuations in the water levels in the lake or reservoir.

3.3 Shut-Off of Water

All irrigators shall advise appropriate staff of the Irrigation District (usually Water Operators), at least **24 HOURS IN ADVANCE**, of their intention to cease delivery of water. This notice is essential in order for the District to properly control water supplies within the irrigation system, and to provide for the reallocation of such water for other use and/or to reduce delivery requirements within the irrigation system.

Water supplied to irrigators is to be beneficially used at all times. When emergency situations arise, preventing the proper notice of termination of water use, irrigators are required to notify appropriate staff of the District (usually

Water Operators) as soon as possible. Dependent upon the nature of the emergency, water delivery to the parcel may be terminated until the emergency has been rectified.

3.4 Maximum Amount of Water/Allocation of Available Water Per Irrigation Acre

3.4.1 Maximum Amount of Water

The District has, by bylaw, established a maximum amount of water per irrigation season that may be delivered by the District to each acre entitled to receive water for irrigation purposes (irrigation acres, terminable agreement acres or annual agreement acres).

3.4.2 Allocation of Available Water

The District may (from time to time during a year or at any time during a year), by bylaw, change the maximum amount of water per irrigation season that may be delivered by the District to each acre entitled to receive water for irrigation purposes.

In the event the District reduces the maximum amount of water per irrigation season that may be delivered by the District for irrigation purposes, there will be no reduction, abatement or cancellation of any rates, fees or charges assessed on any acres receiving water for irrigation purposes.

In the event the District implements a Drought Plan or any other system of reduction or rationing, irrigators and Other Users may be permitted to share or otherwise reallocate water delivered by the District, subject to the express provisions of the Drought Plan or other system of reduction or rationing.

Except as authorized in any approved Drought Plan, other system of reduction or rationing or as otherwise expressly approved by the District, irrigators and Other Users will not be permitted to pool and/or transfer any of the water provided to them.

3.5 Calculation of Water Delivery Volumes

Water deliveries are calculated as being in effect from the hour the water is delivered to the point of delivery by the Water Operator until notice of shut-off is properly received and the delivery is terminated, whichever is later. (For example, if an irrigator ceases to divert water provided to him without providing proper advance notice, the water delivery will continue to be counted as being delivered to the parcel until the notice has been received and all required upstream adjustments have been made terminating the flow to the irrigator.)

The District has established standard flow rates that will be used in the calculation of water delivery volumes for sprinkler irrigation as follows:

Description	gpm (US)
1/4 section low pressure pivot	1,000
1/4 section high pressure pivot	1,150
1/4 section pivot with corner arm	1,350
1/4 mile of side-roll wheel moves	400
1/2 mile of side-roll wheel moves	800

Note: 450 US gpm equals approximately 1 cfs.

Note: Non-standard size pivot systems and systems where water spills past a pump site will have individual flow rates established.

The District has established "rule-of-thumb" maximum delivery rates for surface (flood) irrigation as follows:

Field Area	Flow (cfs)
160 Acres	6
80 Acres	4
40 Acres	3

Flow rates for surface irrigation will be the actual flow rate of the water delivered to the farm gate. Irrigators are advised to verify their actual flow rate at the time of delivery with their Water Operator.

Examples of Flow Calculations:

Example #1:

120 acre surface irrigation

- Maximum water per each irrigation acre set at 24" (2 acre feet per acre or 240 acre feet)
- Delivery rate of 6 cfs (1 cfs for 24 hours equals 2 acre feet)
- Daily delivery volume at 6 cfs is 12 acre feet per day
- The maximum delivery of water to this parcel at 6 cfs would be 20 days.

Example #2:

140 acre irrigated with ½ mile of side-roll wheel moves

- Maximum water per each irrigation acre set at 24" (2 acre feet per acre or 280 acre feet)
- Delivery rate of 800 US gpm (800 \div 450 = 1.78 cfs) Daily delivery volume at 1.78 cfs is 3.56 acre feet per day
- The maximum delivery of water to this parcel at 800 US gpm would be 79 days.
- Note: If 200 US gpm runs past the pump, the delivery rate would be calculated at 1000 US gpm or 2.22 cfs being 4.44 acre feet per day, with the maximum delivery of water being limited to 63 days.

3.6 Water Management Decisions During Periods of Water Shortage

The Board has passed bylaws to:

- Govern the maximum amount of water that may be delivered for irrigation purposes and for any other purpose; and
- Regulate the delivery and distribution of water to users, to establish the terms and conditions that apply to that delivery and the circumstances under which the delivery of water to a user may be reduced or stopped.

Furthermore, the Board may, as it deems appropriate, pass other bylaws, resolutions or adopt a Drought Plan or other system of reduction or rationing to better manage water during periods of shortage.

3.7 Point of Delivery

All parcels of land have an assigned "point of delivery" from the

irrigation works of the District. Additional points of delivery or alternate locations for points of delivery may only be installed with the written authorization of the District. In any case, the obligation of the District is to maintain the irrigation system to deliver to the assigned "point of delivery". During times of water shortages, the District may choose to provide water deliveries to a single location on a parcel of land.

Where additional or alternate locations of points of delivery are made at the express request of an irrigator, for the convenience of operation, then all costs of such change shall be paid for by the irrigator. Where additional or alternate locations of points of delivery are to the advantage of the District (in the management and operation of the irrigation system) the District may agree to pay a portion or all of the costs for such installations. The District reserves the right to perform such installations to its standards and to limit the number of points of delivery to any parcel of land.

4.0 Unauthorized and/or Prohibited Practices

4.1 General

Irrigators and users are prohibited from placing within the irrigation works, anything that may interfere with access to the irrigation works or with the delivery of water.

Unless it is an emergency situation, water is not to be returned directly into the supply or drainage systems for the operational convenience of irrigators [for example, at night or on weekends]. Irrigators who terminate water use on a parcel, without proper notice, may not have water delivered to that same parcel for a minimum of 4 days (unless termination was because of an emergency)

All persons using water from the District's works are charged with the legal "responsibility" to make beneficial use of the water supplies provided to them and to ensure that such water does not damage any other individual or property.

Irrigators are required to operate their irrigation and/or water diversion systems in a manner that will prevent excessive spills of water from their irrigation operations. Excessive spillage is defined by the District as any spillage in excess of 50% of delivered flow rate, spilled instantaneously, and/or 35% of

total water being delivered to a parcel of land being spilled.

(For example, if 3 cfs is being delivered, any spill from on-farm systems or return to the irrigation network of more than 1.5 cfs instantaneous and/or 1.0 cfs average could be considered as excessive spill.)

4.2 Damage to the Irrigation Works

All irrigators of the District share in the costs of annual operation and maintenance. In order to provide water in a timely and efficient manner, all irrigators are to ensure that the irrigation works of the District are not damaged as a result of their farming and/or irrigation operations.

The irrigation of canal and drain banks is prohibited. Irrigators are responsible to ensure that any cattle that may occupy their lands, and may be adjacent to any of the irrigation works of the District, are prevented from causing any damage to the irrigation system. Farming operations must take into account the presence of canal banks, and as such, the irrigation works of the District are not to be cultivated or farmed in any manner that may cause them harm. The use of portions of the irrigation works for any of these purposes may only take place upon receipt of a written agreement from the District.

The repair of trampled or otherwise damaged canal banks and repair to canal armour or liners is expensive. The District reserves the right to fence canals that are lined, armoured or otherwise rehabilitated, and reserves the right to recover repair costs from adjacent landowners where their operations have caused damage to the irrigation works.

4.3 Pollution of Irrigation Works

Irrigators are to ensure that their operations do not cause any pollutants or contaminants to enter into the irrigation works. The same canal and drainage system that is used to convey water for irrigation purposes is also used to provide water for household purposes for human and livestock consumption. All irrigators need to ensure that their livestock operations are designed in a manner to prevent cattle feces, effluent or runoff from cattle impoundments from entering the canal system as either surface or groundwater return flows.

Irrigators are required to ensure that "garbage" is not deposited on their lands in a manner that will cause it to enter

the irrigation system as a result of natural occurrences, for example, wind and rain, etc. Irrigators are requested to notify the offices of the District if they observe any pollution of the District's irrigation works. Such cooperative approach will help to ensure the safety of those who make use of the water from the irrigation system.

4.4 Soil Drifting

All irrigators have the responsibility to prevent soil erosion on their lands, and further to prevent any drifting of soil from being deposited within the irrigation works. The District reserves the right to recover the costs of cleaning of any portions of the irrigation works for soil drifting from the offending landowners.

5.0 On-Farm Irrigation Works

All irrigators are responsible for the proper operation and maintenance of their on-farm irrigation works. As irrigation in the District is accomplished both by surface [gravity or flood] methods and by mechanized sprinkler irrigation, irrigators must ensure that their on-farm irrigation works are in proper and operable condition.

In the case of surface irrigation, head ditches, structures, border dikes, contour ditches, etc. must be kept clean and free from weeds and other obstructions and are required to be designed and constructed to make proper use of water supplies so provided. All irrigators are responsible to ensure that designed for surface irrigation systems comply with the District's ability to supply water for such purposes.

In the case of mechanized sprinkler irrigation, pumping ponds, dugouts, stand pipes or pump wells must be so designed as to make efficient and proper use of water supplies. Pumping ponds and dugouts are to be designed and constructed to provide flexibility in sprinkler operation, and to prevent spillage of delivered water supplies from passing downstream. Stand pipes or pump wells may be installed for mechanized sprinkler irrigation systems, but only with the authorization of the District. Irrigators who make use of such installations may be required to participate in the provision of downstream drainage facilities prior to such authorization. Pumping installations directly in the flow of a canal are prohibited.

6.0 Right to Access for Operations and Maintenance

The District requires constant access to its irrigation works for the purposes of monitoring water supplies and performing the required operation and maintenance of the irrigation system. Irrigators are not to install any on-farm irrigation works, fencing, or other such improvements that could prevent access to the irrigation works, unless such crossings or installations are authorized in writing by the District.

The canal banks of the irrigation works are not designed to be used as access for farm implements. Any such use by irrigators is at their own risk. Should such use result in damage or pollution to the irrigation works, the District reserves the right to collect the costs to repair the same from the respective irrigator.

7.0 Weed Control

All irrigators are encouraged to assist the District in the control of weeds along or within its canal system. The District operates an annual program of weed control along its canal banks, and aquatic weed growth within the canals. Control of weeds on adjacent lands assists the District during the season in preventing weeds within the canal.

8.0 Quality of Water

Irrigators and/or users are required to accept the water delivered to them in the condition in which it may be found at the point of delivery. They are required to provide their own screening, filtering or treatment as required at their own cost.

The District may provide some initial screening on some pipelines or may undertake weed and/or aquatic vegetation control in some canals if there is a perceived benefit to a number of irrigators and/or users or to protect the irrigation works of the District. In no case does the District accept any responsibility for final screening of delivered water.

9.0 Runoff

The District may not be held responsible for problems that may, in any way, be associated with runoff of excess rain or snow melt from lands adjacent to the irrigation works. While designs for the canal system include an element for storm flows and heavy rainfall events, the irrigation works are not provided as a means of controlling runoff. In addition, irrigators may only return flows from their irrigation systems into the canal or drainage system where approved and provided for by the District.

10.0 Complaints

In the event that an irrigator is unable to resolve an issue or complaint through normal contact with his Water Operator, he is encouraged to contact the Division Superintendent in his area.

In most cases problems will be able to be dealt with at this level. Irrigators may also address any concerns either in writing or in person to the offices of the District, and may, if they cannot receive satisfaction to their concerns in any other manner, request an appointment to meet with the Board of Directors

11.0 Additional Information

Additional information regarding the specific applications of any of these matters may be obtained by contacting the closest District office, or by contacting the main office of the Eastern Irrigation District.

Notes	

Phone: (403) 362-1400 | Fax: (403) 362-6206 Email: eid@eid.ca | www.eid.ca P.O. Box 128 | 550 Industrial Road West Brooks, Alberta | Canada T1R 1B2 **Eastern Irrigation District**