



APPLICATION TO CHANGE A WATER RIGHT
HISTORICAL WATER USE ADDENDUM
§ 85-2-402, MCA

Submit this addendum if you intend to deviate from Department of Natural Resources and Conservation (Department or DNRC) standard practice for evaluating historical use of a water right. Complete a separate addendum one time for each water right proposed for change. You may answer one time for all water rights proposed for change that have the same purposes, place of use, supplemental water rights, points of diversion, period of use, conveyance, diverted volume parameters, and consumptive volume parameters. Use a separate addendum for each water right that has different historical use practices.

Answer every question and applicable follow-up questions. Use the checkboxes to denote yes ("Y") or no ("N"). Questions that require items to be submitted to the Department have a submitted ("S") checkbox, which is checked when the required item is attached to the Historical Water Use Addendum. Label all submitted items with the question number for which they were submitted. Narrative responses that are larger than the space provided can be answered in an attachment. If an attachment is used, mark the see attachment ("A") checkbox on this form and label the attachment with the question number. If no attachment is needed, leave the see attachment ("A") checkbox blank. Constrain narrative responses to the specific question as is asked on the form; do not respond to multiple questions in one narrative. Label units in narrative responses.

Water Right Information

Table with 2 columns: Question and Response options. Row 1: Which water right number(s) is being considered for this Historical Water Use Addendum? If the water use is a non-filed water project, write "N/A". Row 2: What is the current purpose(s) of the water right(s) listed in question 1? Row 3: a. If the current purpose(s) includes irrigation, continue to question 3. Row 4: b. If the current purpose(s) does not include irrigation, skip to question 11.

Historical Use: Historical Consumed Volume

Table with 2 columns: Question and Response options. Row 1: Do you propose to determine the historical consumed volume (HCV) (not including irrecoverable losses) by utilizing both DNRC calculations and standard values as described in DNRC standard practices and ARM 36.12.1902(16)? Row 2: a. If yes, this section is complete. Skip to question 6. Row 3: b. If no, continue to question 4.



4. Do you propose to use the historical consumed volume calculation as described in ARM 36.12.1902(16)?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes, continue to question 5.	
b. If no,	
i. Submit a narrative response describing the methodology proposed to quantify the historical consumed volume, and why this methodology is appropriate.	<input type="checkbox"/> S
ii. After completing i., skip to question 6.	
5. Which weather station identified in column B of Table 1 in ARM 36.12.1902(16) is most representative of the historical place of use? _____	<input type="checkbox"/> A
a. Is the proposed weather station located outside of the county of the historical place of use?	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If yes, what factors make the proposed weather station appropriate for quantifying the historical consumed volume? _____ _____ _____ _____	<input type="checkbox"/> A
b. Do you propose to use the IWR Seasonal Evapotranspiration (IWR Seasonal ET) value associated with the weather station listed above, as described in columns D and E of Table 1 in ARM 36.12.1902(16)?	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If no,	
1. What value (inches) do you propose to use for the seasonal evapotranspiration of the historical place of use? _____	<input type="checkbox"/> A
2. Submit a narrative response describing why this value is appropriate for the seasonal evapotranspiration of the historical place of use.	<input type="checkbox"/> S
c. Do you propose to use the County Management Factor percentage associated with the aforementioned weather station, as described in columns F, G, or H of Table 1 in ARM 36.12.1902(16)?	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If no,	
1. What value do you propose to use for the County Management Factor of the historical place of use? _____	<input type="checkbox"/> A
2. Submit a narrative response describing why this value is appropriate for the County Management Factor of the historical place of use.	<input type="checkbox"/> S



Historical Use: Field Application Volume & Irrecoverable Losses

6. Do you propose to use DNRC standard practice and administrative rule to determine both the historical field application volume and irrecoverable loss volume?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes, this section is complete. Skip to question 10.	
b. If no, continue to question 7.	
7. Do you propose to use the DNRC standard calculation for determining historical field application volume (FAV)? DNRC standard for calculating field application volume is:	<input type="checkbox"/> Y <input type="checkbox"/> N
$FAV = \frac{HCV_{not\ including\ IL}}{Irrigation\ Efficiency}$	
a. If no,	
i. Submit a narrative response describing the methodology proposed to quantify the historical field application volume, and why this methodology is appropriate.	<input type="checkbox"/> S
ii. After completing i., skip to question 9.	
8. Do you propose to use DNRC standard practice for determining percent field efficiency based on the irrigation method type and subtype listed in your application? DNRC standard practice for determining field efficiency is based on the September 13, 2012, Department Memorandum: <i>Development of standardized methodologies to determine Historic Diverted Volume</i> .	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If no, what percent field efficiency do you propose to use for the historical place of use? _____	<input type="checkbox"/> A
b. Submit a narrative response describing the factors that influenced the percent efficiency of irrigation.	<input type="checkbox"/> S
9. Do you propose to use the DNRC standard percentage for irrecoverable losses based on irrigation type?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If no, what percentage of field applied volume do you propose for irrecoverable losses? _____	<input type="checkbox"/> A
b. Submit a narrative response describing the factors that influenced the percentage of field applied volume proposed for irrecoverable losses.	<input type="checkbox"/> S

Historical Use: Historical Diverted Volume

10. Do you propose to use the historical diverted volume calculation as described in DNRC standard practices and ARM 36.12.1902(10)?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If no,	
i. Submit a narrative response describing the methodology proposed to quantify the historical diverted volume, and why this methodology is appropriate.	<input type="checkbox"/> S
ii. After completing i., this form is complete.	
11. Did the historical means of conveyance from the point of diversion to the place of use experience conveyance losses?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If no, this form is complete.	



12. Do you propose to use DNRC standard practice to calculate the volume of historical conveyance losses? DNRC standard practice for determining historical conveyance losses is based on the September 13, 2012, Department Memorandum: <i>Development of standardized methodologies to determine Historic Diverted Volume</i> .	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If no, submit a narrative response describing the methodology proposed to quantify the historical conveyance loss volume, and why this methodology is appropriate.	<input type="checkbox"/> S
13. Within the historical conveyance ditch, were there multiple water right users?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If no, this form is complete.	
b. If yes, do you propose to use DNRC standard practice for allocating historical conveyance losses across multi-user ditches? DNRC standard practice for allocating conveyance losses across multi-user ditches is based on the February 14, 2020, Technical Memorandum: <i>Distributing Conveyance Losses on Multiple User Ditches</i> .	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If yes, this form is complete.	
ii. If no, submit a narrative response describing the methodology proposed to allocate the historical conveyance loss volume across the users of the historical conveyance ditch, and why this methodology is appropriate.	<input type="checkbox"/> S

