

WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO. Claim 01467(A)03296		
APPLICANT NAME Kathleen Masterson	CONTACT NAME Kelly McCaffrey, Washington Water Trust	TELEPHONE NO. (206) 675-1585 x103 (206) 755-9146
WATER RIGHT HOLDER'S NAME (if different) Harry James Masterson & Mary Lou Masterson (Kathleen Masterson, Personal Representative of Harry Masterson)		
DATE OF APPLICATION April 20, 2009	PRIORITY DATE June 30, 1883	
WATER SOURCE: Teanaway River	CROP: Mixed hay, timothy	
INSTANTANEOUS QUANTITY: 4.8 cfs	ANNUAL QUANTITY: 1527.5 af/y	
PERIOD OF USE: May 1 – September 1		
PLACE OF USE: Those portions of S½SW¼, SW¼SE¼ of Section 28, and N½NW¼, NW¼NE¼ of Section 33 lying southerly and westerly of Masterson Ditch, ALL being within T. 20 N., R. 16 E.W.M.		PURPOSE OF USE: Irrigation on 235 acres
IRRIGATION METHOD: Flood		

CONSUMPTIVE USE CALCULATION:

From May 1 through September 15, Masterson will not be irrigating 235 acres.

Estimates of 374.24 acre feet consumptive use will result instream, for 2009, from this transfer.

Priority Date	CFS Qi	AF Qa	Acreage
June 30, 1883		4.8	1527.5
			235

Days during season of use = 153

	May	June	July	August	Sept	Total Ac-in	Total Af
NIR (WIG)	0	3.54	6.84	5.06	3.67	19.11	1.5925
% of Total	0.00%	18.53%	35.79%	26.48%	19.20%	1	

All Season Water Use Analysis in Acre-feet.

	NIR af	*CIR	Acres	TIR	**CU	***RF
Property	1.592	6.50	235	1527.50	450.46	1077.04

TIR = Qa

*CIR = [NIRaf / Ea%]

**CU = [CIR x CU%]

***RF = [Qa – CU]

Based on Ecology's Guidance 1210:

Efficiency Calculation: *Ea = NIR/CIR = 1.592/6.5 = 24.49%

Evap = 5%, Ea = 24.49%, RF = 70.51% (RF = 100 – 24.49)

CU = Evap + Ea

CU = 29.49%

Primary Reach: May 1 – September 30: TIR, Total Irrigation Requirement

	May	Jun	Jul	Aug	Sept	Total
TIR	0	283.05	546.69	404.48	293.28	1527.5

RF = % of total x Qa

Secondary Reach: May 1 – September 30: Based on CU

	May	Jun	Jul	Aug	Sept	Total
TIR	0	83.47	161.22	119.28	86.49	450.46

NARRATIVE DESCRIPTION OF PROJECT:

Masterson was confirmed an 1883 priority date water right under court Claim 01467(A)03296 in Subbasin No. 3 (Teaway). WWT is proposing a temporary transfer of the irrigation portion of the water right. The water is to be placed into the state Trust Water Rights Program for one year. Our transfer application, on behalf of Masterson, proposes to change the purpose of use from irrigation to instream flow from May 1 to September 15 in 2009 only and change the place of use for use as instream flow in the Teaway and Yakima Rivers to the confluence with the Columbia River.