

Daily Accounting of Purchased Water into Harlan County Lake Bold = Input Numbers

		May			
		.cfs			
<b>REACH</b>					
<b>Frenchman Valley to Mainstem</b>					
Inflows	Natural Flow at FV Diversion Point	70			
	Total Protected Purchase Water Protected (CU = 50%)	35			
Outflows	Diversions	10			
	Evap	5			
	Frenchman Creek at Culbertson	60			
	Total Meas Outflow	75			
	Gain/loss (loss=negative gain)	5			
	Total in Reach	75			
	Total Loss in Section (evap+loss)	5			
	% loss to FV Protected Purchased Water	47%			
	Loss Charged To FV Purchased Water	2			
	FV Protected Purchased Water to Mainstem	33			
	Riverside Purchase	17			
	Total Portion Riverside Protected (CU = 60%)	10			
	Total Protected Purchased Water to Mainstem	43			
<b>Frenchman Creek to McCook</b>					
Inflows	Gaged Flow at Frenchman Creek Palisade	60			
	Protected Purchased Inflow	43			
Outflows	Diversions	4			
	Evap	5			
	Gaged Flow at McCook	50			
	Total Measured Outflow	59			
	Gain/Loss	-1			
	Total in Reach	60			
	Total Loss in Section	6			

Frenchman Creed at Palisade + Stinking Water Creek

Monthly Evaporation Losses

May	
June	
July	
August	
September	

(Percentage of Protected Water to Total Flow)

(Percentage of Protected Water to Total Flow x Total Loss)

(Protected Purchased Water - Loss to Protected Purchased Water)

2000 AF / (1.984cfs/af) for 60 days

Monthly Evaporation Losses

May	
June	
July	
August	
September	

	(Percentage of Protected Water to Total Flow)	71%
% loss to Purchased Water		
Loss to Purchased Water	(Percentage of Protected Water to Total Flow x Total Loss)	4
Protected Purchased Water to McCook	(Protected Purchased Water - Loss to Protected Purchased Water)	38
<b>Harry Strunk to Mainstem</b>		
Inflows		
Release from Harry Strunk		200
Protected Purchased Water from Harry Strunk		200
Gain - if positive	<i>(Brad - is this a losing section? Can we make an estimate?)</i>	0
Total Inflow		200
Outflow		
Diversions		2
Loss to Mainstem (estimate of evap and negative gain)		5
Total Outflow at Mainstem		193
Protected Purchased Water from Harry Strunk	<i>(Brad - is this a losing section? Can we make an estimate?)</i>	193
<b>McCook to Cambridge</b>		
Inflows		
Gaged Flow at McCook		50
Red Willow		30
Medicine Creek		193
Total Meas Inflow		273
Inflow of Protected Purchased Water from FCID		193
Inflows of Non FCID Protected Purchased Water		38
Inflow of All Protected Purchased Water	Need to track this separately because protect entire amount to Cambridge Dive	231
Outflows		
Diversions		25
Evap	Monthly Evaporation Losses	10
Gaged Flow at Cambridge	May	
Total Meas. Outflow	June	300
	July	335
	August	
	September	
Gain/Loss		62
Total in Reach		335
Total Loss in Section		10
% loss to Purchased Water from FCID		58%
% Loss to Non-FCID Protected Purchased Water	(Percentage of Protected Water to Total Flow)	11%
% loss to All Protected Purchased Water	(Percentage of Protected Water to Total Flow x Total Loss)	69%
Loss to Protected Purchased Water from FCID		6
Loss to Non-FCID Protected Purchased Water		1
Loss to All Protected Purchased Water		7

		(Protected Purchased Water - Loss to Protected Purchased Water)		
Cambridge to Orleans	Protected FCID Water to Cambridge	187		
	Protected Non FCID Water to Cambridge	37		
	Protected Purchased Water to Cambridge	225		
Inflows	Gage at Cambridge	300		
	Total Protected Purchased Water	225		
	Total Portion FCID Water Protected to Cambridge	187		
	Protected FCID Water Cambridge to Orleans	94	50%	
	Protected Non-FCID Water to Cambridge	37		
	Total Protected Purchased Water after Cambridge Diversion	131		
Outflows	Evap	10	Monthly Evaporation Losses	
	Diversions	25	May	
	Orleans	250	June	
	Total Meas. Outflow	285	July	
			August	
			September	
		Gain/Loss	-15	
		Total in Reach	300	
		Total Loss in Section	25	
		Total Purchased Water Protected	131	(Percentage of Protected Water to Total Flow)
	% loss to Purchased Water	44%		
	Loss to Purchased Water	11	(Percentage of Protected Water to Total Flow x Total Loss)	
	Protected Purchased Water to Cambridge	120	(Protected Purchased Water - Loss to Protected Purchased Water)	
	Percent of Total Purchased Water Protected to Orleans	42%		