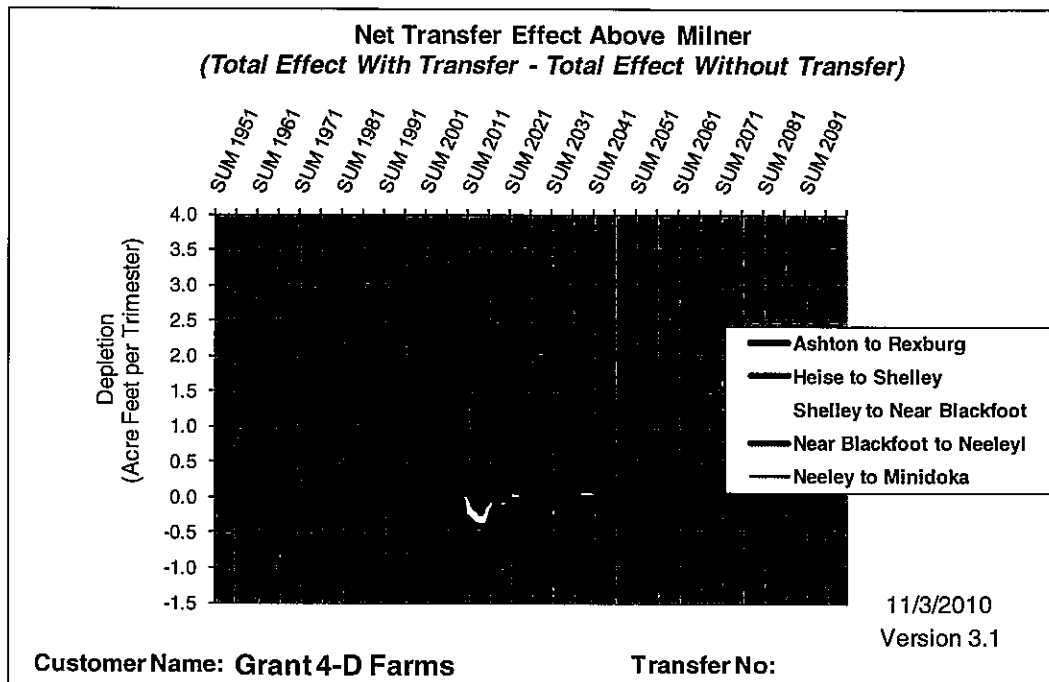


GRANT 4-D FARMS
WSB ESPAM Transfer Tool Results

1. At any time step during the rental (transitional) period, are any reaches depleted by more than 2 af/acre?

YES. The maximum increase in depletion to the Snake River during the rental period is expected to occur in the "Neeley to Minidoka" reach at an estimated 3.2 acre-feet during the winter trimester of 2014.



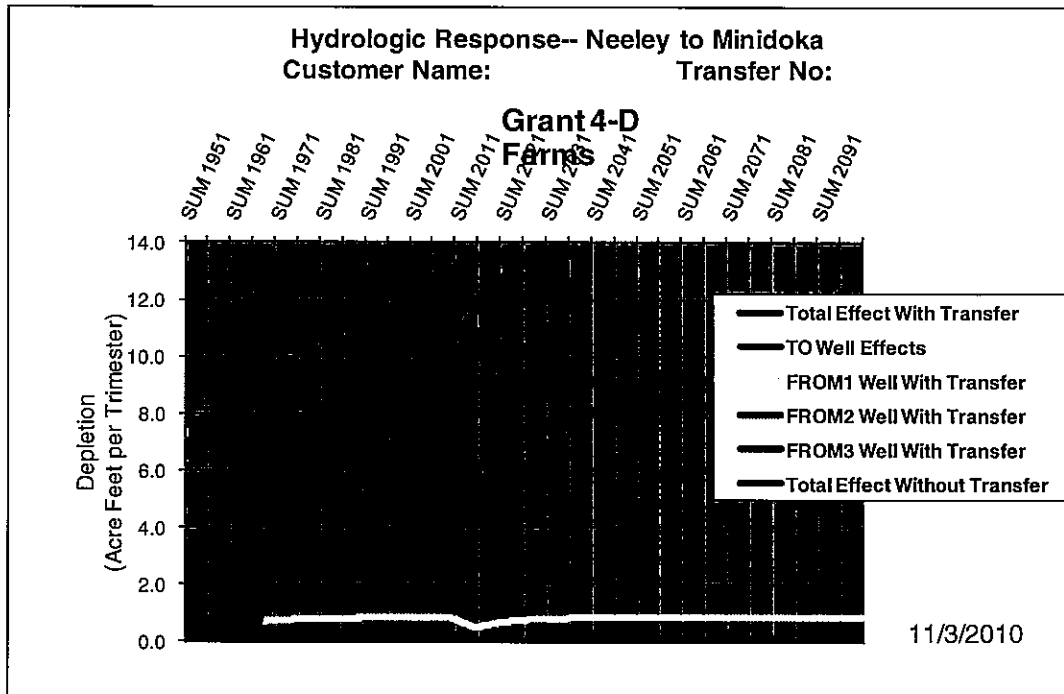
Net Transfer Effect (AF/trimester)	
Trimester	Neeley to Minidoka
SPR 2010	0.3
SUM 2010	1.1
WIN 2010	1.3
SPR 2011	1.5
SUM 2011	2.1
WIN 2011	2.1
SPR 2012	2.3
SUM 2012	2.8
WIN 2012	2.7
SPR 2013	2.7
SUM 2013	3.1
WIN 2013	3.0
SPR 2014	3.0
SUM 2014	3.4
WIN 2014	3.2

2. At any time step during the rental (transitional) period, is the affected reach depleted by more than 10% of the total depletion to all reaches?

YES. The total depletions with the transfer reach a maximum during the summer trimester of 2014 with a value of 12.3 acre-feet. The total depletions without the transfer have a value of 8.9 acre-feet during this same trimester.

The check to determine the % increase in depletion is calculated by:

$$(12.3 \text{ acre-feet} / 8.9 \text{ acre-feet}) - 1 = 38\%$$



Version 3.1

Based on these results, full mitigation is required by renting, but not using, 3.1 acre-feet per trimester. This works out to 9.3 acre-feet per year for each year of the lease.

TRIMESTER OF ACTIVITY	TO WELL	FROM1 WELL		FROM2 WELL		FROM3 WELL	
	Projected Use AF/TRIMESTER	With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER	With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER	With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER
SUM 1951	0	15	15	0	0	0	0
WIN 1951	0	0	0	0	0	0	0
SPR 1952	0	8	8	0	0	0	0
↓	↓	↓	↓	↓	↓	↓	↓
SPR 1967	0	8	8	63	63	0	0
SUM 1967	0	15	15	126	126	0	0
WIN 1967	0	0	0	0	0	0	0
↓	↓	↓	↓	↓	↓	↓	↓
SPR 2010	71	0	8	0	63	0	0
SUM 2010	141	0	15	0	126	0	0
WIN 2010	0	0	0	0	0	0	0
SPR 2011	71	0	8	0	63	0	0
SUM 2011	141	0	15	0	126	0	0
WIN 2011	0	0	0	0	0	0	0
SPR 2012	71	0	8	0	63	0	0
SUM 2012	141	0	15	0	126	0	0
WIN 2012	0	0	0	0	0	0	0
SPR 2013	71	0	8	0	63	0	0
SUM 2013	141	0	15	0	126	0	0
WIN 2013	0	0	0	0	0	0	0
SPR 2014	71	0	8	0	63	0	0
SUM 2014	141	0	15	0	126	0	0
WIN 2014	0	0	0	0	0	0	0