

RECEIVED
NOV 23 2009
DEPT. OF WATER RESOURCES
SOUTHERN REGION

Amended
STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Transfer No. 73740

**MINIMUM REQUIREMENTS CHECKLIST
TO BE SUBMITTED WITH APPLICATION FOR TRANSFER**

An application for transfer must be prepared in accordance with the minimum requirements listed below to be acceptable for processing by the Department. Incomplete applications will be returned. The instructions, fee schedule, Part 2A reports and additional Part 2B forms are available from any Department office or on the Department's website at <http://www.idwr.idaho.gov/>.

Check whether each item below is *attached* (Yes) or *not applicable* (N/A) for the proposed transfer.

Yes N/A * Means the item is always required and must be included with the application.

- ☐ * Completed Application for Transfer of Water Right form, Part 1.
- ☐ * Signature of applicant(s) or applicant's authorized representative on Application for Transfer Part 1. Include evidence of authority labeled Attachment #3 (see below) if signed by representative.
- ☐ * Application for Transfer Part 2A. Attach a Part 2A report describing each water right in the transfer as currently recorded.
- ☐ ☐ Complete and attach an Application for Transfer Part 2B for each water right for which only a portion is proposed to be changed through this transfer application
- ☐ * Application for Transfer Part 3A is always required (see Attachment #7a below); Parts 3B and 3C must be completed for transfer applications proposing to change the nature of use of the water right(s) or proposing changes to supplemental right(s).
- ☐ * Correct fee submitted with transfer application form. (Fee schedule is on website and instructions for application for transfer.)

Attachments to Application - Label each attachment with the corresponding number shown below as Attachment #1-9.

- ☐ ☐ #1 If the applicant is a business, partnership, organization, or association, and not currently registered in the State of Idaho as a business entity, attach documentation identifying officers authorized to sign or act on behalf of right holder. (See Part 1.)
- ☐ ☐ #2a Water Right ownership documentation if Dept. records do not show the transfer applicant as the current water right owner.
- ☐ ☐ #2b If the ownership of the water right will change as a result of the proposed transfer to a new place of use, attach documentation showing land and water right ownership at the new place of use. Include documentation for all affected land and owner(s).
- ☐ ☐ #3 Documentation of authority to make the change if the applicant is not the water right owner.
- ☐ ☐ #4 Power of Attorney or documentation providing authority to sign or act on the applicant's behalf. (See Part 1.)
- ☐ ☐ #5 If the transfer application proposes to change the point of diversion for a water right affecting the Eastern Snake Plain Aquifer (ESPA), attach the results of an ESPA analysis and a detailed mitigation plan to offset any depletions to hydraulically connected reaches of the Snake River. ESPA transfer spreadsheet and model grid labeled cells are available on the Department's website at <http://www.idwr.idaho.gov/water/rights/>.
- ☐ ☐ #6 Notarized statement of agreement or a statement on official letterhead signed by an authorized representative from each lien holder or other entity with financial interest in the water right(s) or land affected by the proposed transfer. (See Part 1.5.c.)
- ☐ * #7a Attach a map identifying the proposed point(s) of diversion, place(s) of use, and water diversion and distribution system details as described on the application. Include legal description labels. If only a portion of the right is proposed to be changed, identify the current location of the part of the existing right(s) proposed to be changed. (See Part 3A.)
- ☐ ☐ #7b If the transfer application proposes to change the place or purpose of use of an irrigation right attach a Geographic Information System (GIS) shape file, or an aerial photo or other image clearly delineating the location and extent of existing acres and changes to the place of use.
- ☐ ☐ #8a If the transfer application proposes to change the nature of use or period of use for one or more rights, provide documentation describing the extent of historic beneficial use for the water rights proposed to be transferred and document how enlargement will be avoided. (See Part 3B.)
- ☐ ☐ #8b If the transfer application proposes to change the place of use of a supplemental irrigation right, provide documentation regarding the historic use of the supplemental right(s) and availability or reliability of the primary right(s) being supplemented, both before and after the proposed change. (See Part 3C.)
- ☐ ☐ #9 Other. Please describe: _____

STATE OF IDAHO

DEPARTMENT OF WATER RESOURCES

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APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1DEPT. OF WATER RESOURCES
SOUTHERN REGIONName of Applicant(s) V&L Dairy c/o Frank VeenstraPhone 208-536-6712Mailing address 2729A South 1600 East Wendell, ID 83355

Email _____

- ☐ If applicant is not an individual and not registered to do business in the State of Idaho, attach documentation identifying officers authorized to sign or act on behalf of the applicant. Label it **Attachment #1**.
- ☒ Attach water right ownership documentation if Department records do not show the transfer applicant as the current water right owner. Label it **Attachment #2a**.
- ☐ If the ownership of the water right will change as a result of the proposed transfer to a new place of use, attach documentation showing land and water right ownership at the new place of use. Include documentation for all affected land and owner(s). Label it **Attachment #2b**.
- ☒ Attach documentation of authority to make the proposed change if the applicant is not the water right owner. Label it **Attachment #3**.

Provide contact information below if a consultant, attorney, or any other person is representing the applicant in this transfer process.

☐ No RepresentativeName of Representative Greg Sullivan of Brockway EngineeringPhone 208-736-8543Mailing address 2016 Washington Street, Suite 4Email greg.sullivan@brockwayeng.co

- ☐ Send all correspondence for this application to the representative and not to the applicant.
- OR ☒ Send original correspondence to the applicant and copies to the representative.
- ☐ The representative may submit information for the applicant but is not authorized to sign for the applicant.
- OR ☐ The representative is authorized to sign for the applicant. Attach a Power of Attorney or other documentation providing authority to sign for the applicant and label it **Attachment #4**.

I hereby assert that no one will be injured by the proposed changes and that the proposed changes do not constitute an enlargement in use of the original right(s). The information contained in this application is true to the best of my knowledge. I understand that any willful misrepresentations made in this application may result in rejection of the application or cancellation of an approval.

Signature of Applicant or Authorized Representative

Print Name and Title if applicable

Date

Signature of Applicant or Authorized Representative

Print Name and Title if applicable

Date

A. PURPOSE OF TRANSFER

1. ☒ Change point of diversion ☐ Add diversion point(s) ☒ Change place of use
☒ Change nature of use ☒ Change period of use ☐ Other _____
2. Describe your proposal in narrative form, including a detailed description of non-irrigation uses to justify amounts transferred (i.e. number of stock, etc.), and provide additional explanation of any other items on the application. Attach additional pages if necessary and label it **Part 1A.2. To provide adequate stock and commercial water to the V&L Dairy**

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1 Continued

B. DESCRIPTION OF RIGHTS AFTER THE REQUESTED CHANGES. IF THE RIGHTS ARE BEING SPLIT, DESCRIBE PORTIONS TO BE CHANGED AS THEY WOULD APPEAR AFTER THE REQUESTED CHANGES.

1.	Right Number	Amount (cfs/ac-ft)	Nature of Use	Period of Use	Source & Tributary
All or Part ☒ ☐	36-16752	0.37/54.3	Stockwater	01/01 to 12/31	Groundwater
☒ ☐	36-16752	0.37/54.3	Commercial	01/01 to 12/31	Groundwater
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	

Total authorized under rights 0.37 cfs and/or 72.4 ac-ft

2. Total amount of water proposed to be transferred or changed 0.37 cubic feet per second and/or 54.3 acre-feet per annum.

3. Point(s) of Diversion:

- ☐ No changes to point(s) of diversion are proposed-the following chart is therefore not completed. (Proceed to #4.)
☒ Attach Eastern Snake Plain Aquifer analysis if this transfer proposes to change a point of diversion affecting the ESPA.
Label it **Attachment #5**.

New ?	Lot	¼	¼	¼	Sec	Twp	Rge	County	Source	Local name or tag #
			SE	SE	32	7S	14E	Gooding	Groundwater	

4. Place of use: (If irrigation, identify with number of acres irrigated per ¼ ¼ tract.)

- ☐ No changes to place of use are proposed-the following chart is therefore not completed. (Proceed to #5.)

Twp	Rge	Sec	NE ¼				NW ¼				SW ¼				SE ¼				Acre Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
7S	14E	32																S/C	S/C

Total Acres (for irrigation use) _____

**STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES**

**APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1 Continued**

5. General Information:

- a. Describe the complete diversion system, including how you will accommodate a measuring device and lockable controlling works should they be required now or in the future: Existing pumps and pipes

- b. Who owns the property at the point(s) of diversion? Frank Veenstra

If other than the applicant, describe the arrangement enabling the applicant to access the property for the diversion system: _____

- c. Are the lands from which you propose to transfer the water right subject to any liens, deeds of trust, mortgages, or contracts?

If yes, ☐ Attach a notarized statement from the holder of the lien, deed of trust, mortgage or contract agreeing to the proposed changes on official letterhead signed by an authorized representative. Label it **Attachment #6**. List the name of the entity and type of lien: _____

It is the applicant's responsibility to provide notice to lien holder, trustee, mortgagor, or contract holder of the proposed changes that may impact or change the value of the water rights or affected real property. Any misrepresentation of legal encumbrance on this application may result in rejection of the application or cancellation of an approval.

- d. Describe the effect on the land now irrigated if the place or purpose of use is changed pursuant to this transfer: _____
18.1 acre will not longer be irrigated

- e. Describe the use of any other water right(s) for the same purpose or land, or the same diversion system as right(s) proposed to be transferred at both the existing and proposed point(s) of diversion and place(s) use: _____
None

- f. To your knowledge, has/is any portion of the water right(s) proposed to be changed:

Yes No

- | | | |
|--------------------------|-------------------------------------|---|
| ☐ | ☒ | undergone a period of five or more consecutive years of non-use, |
| ☐ | ☒ | currently leased to the Water Supply Bank. |
| ☐ | ☒ | currently used in a mitigation plan limiting the use of water under the right, or |
| ☐ | ☒ | currently enrolled in a Federal set-aside program limiting the use of water under the rights? |

If yes, describe: _____

Total Acres (for irrigation use)

Page _____ of _____

**IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 2A**

Current Water Right No.: 36-16752

Current Owner: FRANK W VEENSTRA
Priority Date: 4/29/1958
Origin: Water Right
Status: Active
Basis: Decreed

Source

GROUND WATER

Tributary

Beneficial Use	From	To	Diversion Rate	Annual Volume
IRRIGATION	03/15	11/15	0.37 CFS	72.4 AF
	Total Diversion		0.37 CFS	72.4 AF

Location of Point(s) of Diversion

GROUND WATER
GOODING County
SE1/4NE1/4 Sec. 23, Twp 07S, Rge 14E B.M.

Place of Use

IRRIGATION Within GOODING County

T07S R14E S23	NENE	8.10	T07S R14E S23	NWNE	10.00
Total Acres: 18.1					

Conditions of Approval:

1. S17 Use of this right is combined with water from Northside Canal Co. LTD.
2. T19 Pursuant to Section 42-1412(6), Idaho Code, this water right is subject to such general provisions necessary for the definition of the rights or for the efficient administration of water rights as may be determined by the Snake River Basin Adjudication court at a point in time no later than the entry of the final unified decree.
3. 213 Upon specific notification of the Department, the right holder shall install and maintain data loggers to record water usage information at the authorized point(s) of diversion in accordance with Department specifications.
4. R05 Use of water under this right will be regulated by a watermaster with responsibility for the distribution of water among appropriators within a water district. At the time of this approval, this water right is within State Water District No. 130.
5. T07 The right holder shall accomplish the change authorized by this transfer within one year of the date of this approval.
6. T08 Failure of the right holder to comply with the conditions of this transfer is cause for the Director to rescind approval of the transfer.
7. R02 A lockable device subject to the approval of the Department shall be maintained on the diverting works in a manner that will provide the watermaster suitable control of the diversion.
8. R64 This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 4.0 afa per acre at the field headgate for irrigation of the lands above.
9. 214 Prior to the diversion and use of water under Transfer approval 66114, the right holder shall install and maintain acceptable measuring device(s) at the authorized point(s) of diversion in accordance with Department specifications, or shall obtain an approved variance from the Department to determine the amount of water diverted from power records or to maintain an existing measuring device.

Decreed Date: 1/7/2002

Transfer contains _____ pages and _____ attachments.

Received by _____ Date _____ Prelim. Check by _____ Date _____

Fee Paid _____ Date _____ Received by _____ Receipt # _____

Add'l Fee Paid _____ Date _____ Received by _____ Receipt # _____



1 inch equals 1,000 feet

VEENSTRA DAIRY SITE 36-2352
TRANSFER TO LOCATION
NAIP 2006 AERIAL PHOTO
RECEIVED

NOV 23 2009

DEPT. OF WATER RESOURCES
SOUTHERN REGION

BROCKWAY ENGINEERING, PLLC.
ALR - NOV. 19, 2009

Legend

- PROPOSED POD
- PROPOSED POI
- Sections_7s14e
- 107s14e



Narrative in Support of the Water Right Transfer of 36-16752 and 36-7666A for Frank Veenstra

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Luis Bettencourt filed transfers T5102, T5103 and T5104 in 1997.

Frank Veenstra filed transfers T5740 (66107), T5746 (66113), and T5747 (66114) in 5/4/2000.

All six water transfers applications were held without processing due to conflicts with the Snake River Basin Adjudication (Jim Stanton, 2/26/09). Frank Veenstra protested two of Bettencourt's transfers. The protest was dropped by Veenstra when an agreement (January 2000) was made between the two parties. Allen Merritt wrote two Memos defining the purpose of all six transfers (See attachments), by which he recommended all six transfers to be approved. Water right 36-16752(Transfer No. 66114) was the remaining split portion of irrigation water for 18.1 acres or 0.37/72.4 CFS/AFA. Water right 36-02352 (Parent) was decreed on January 7, 2002. After nine years of IDWR processing transfer No. 66114 was approved on April 20th, 2009.

A letter was written by Jim Stanton dated January 2, 2002 that states diversion from a domestic source is being exceeded by the dairy. The letter concludes with a statement indicating that steps must be taken to correct over appropriation. It was concluded by Frank Veentstra and Brockway Engineering in April 2002 that there were insufficient water rights to cover the current water use at the V&L Dairy in Section 32 of T07S R14E. It was calculated that the additional required volume needed was 60 acre-feet. Water right 36-16752 with 72.4 acre-feet was selected to provide the water. Therefore, on April 20, 2002 Frank Veenstra applied to transfer (No. 73740) the remaining irrigation portion of 36-16752 to the dairy facility for stockwater and commercial uses. It was anticipated that transfer No. 66114 would be processed in a timely manner and would provide the needed water. In addition, the parent right to 36-16752 was decreed on 1/7/02 in the SRBA Court. From April of 2002 to the present time, 54.3 acre-feet have been utilized as stock and commercial water for V&L Dairy. Because of this, no irrigation water has been applied to 18.1 acres of ground identified as the POU for 36-16752. If irrigation water would have been applied to the 18.1 acres it would have been considered an expansion of the water right and therefore in violation of State Law.

In an effort to gain understanding of the status of transfer No.73740 a meeting was held at the IDWR Twin Falls office on April 2, 2009. In attendance were Allen Merritt, Jim Stanton, Chuck Brockway Jr. and Greg Sullivan. It was agreed upon at this meeting that an analysis of the transfer must be performed using the recent version of the ESPA Model, crop records would need to be provided if available, the 3 acre-ft/acre volume used in Transfer No. 73740 would still apply and that no forfeiture issues would apply to this transfer due to the conflicts with Snake River Basin Adjudication process. In response to the meeting, analysis has been performed using the ESPA Model. No crop records are available.

However, a letter from Jim Stanton dated June 19, 2009 indicates that 36-16752 may be forfeited due to none use. In the Transfer Approval notice dated April 20th, 2009 for 36-16752 it states as Condition of Approval No. 7 that the right holder shall accomplish the change authorized by this

transfer within one year of the date of this approval. Therefore, Mr. Veenstra should have one year to accomplish the authorized use of irrigation or make necessary changes to use the water right as defined by its beneficial use but, the water is already being used as stockwater and commercial water for the V&L Dairy. It is stated in the IDWR Memo dated July 10, 2008 titled "Forfeiture and Unauthorized Use of a Water Right" that an unauthorized change in point of diversion, period of use, or nature of use of a water right does not result in forfeiture, so long as the change did not injure any other water users.

Mr. Veenstra has been trying to satisfy IDWR requirements to provide the necessary water to his dairy and heifer facilities as well as his irrigable land. None of the other five transfers have had any forfeiture issues brought forth against them. Everything that IDWR has required of Mr. Veenstra has been acquired and provided. There should not be any issue of forfeiture concerning 36-16752 because the water has been in use at the V&L Dairy since 2002 and transfer No. 66114 was approved April 20th, 2009 in which one year is allowed for the changes to be accomplished or water right to be moved to a location in which it is needed. IDWR's policy has always been that a transfer confirms the validity of the subject rights.

Please see attached documents of Memos, SRBA summary report, Pedigree chart, correspondence between IDWR, Veenstra and Brockway Engineering and Transfer Approval notices. This compilation of documents is not all inclusive for 36-16752 and other related water rights and transfers.

Currently, correspondence is occurring between Mr. Veenstra and Mr. Benttencourt to try and secure a water right to use as mitigation. A second transfer will be filed and ESPA analysis will be performed to indicate that mitigation needs are met.

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LIMITED POWER OF ATTORNEY

NOV 11 2009

KNOWN ALL MEN BY THESE PRESENT:

DEPT. OF WATER RESOURCES
SOUTHERN REGION

I, V&L or Frank Veenstra, hereby nominate and appoint
Greg Sullivan of Brockway Engineering as my attorney-in-fact with full
authority to act for and on my behalf to undertake any and all acts or matters pertaining to water
right transfers before the Idaho Department of Water Resources for the following water right
transactions:

All transfers water right applications and associated data related to water right
36-16752, 36-7666A and 36-16142 as they partian to V&L Dairy.

in Gooding County, Idaho. Additionally, I hereby ratify and confirm any
and all such acts on matters as contemplated herein.

My agent is hereby authorized to sign, seal and deliver, as my act in deed, those said
instruments of writing that may be necessary or proper to carry into execution and effect the
applications, and transfers above-mentioned. Further, I hereby declare that each and every
application, transfer, agreement, receipt, or payment which shall be by my said agent given,
made or done for the aforesaid purposes shall be as good, valid, and effectual as if they had
been signed, sealed, and delivered by me in my own proper person; and I hereby undertake at
all times to ratify whatsoever my said agent shall lawfully do or cause to be done in or
concerning the said premises by virtue of these present. This Limited Power of Attorney will
become void upon approval, denial or withdrawal of the above referenced applications.

Dated this 30 day of June 2009.

[Signature]
Signature

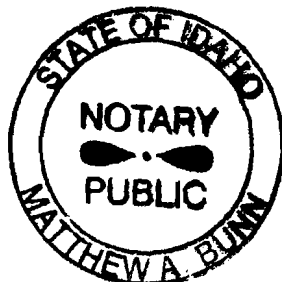
Signature

State of Idaho)
County of Gooding) ss.

On this 30 Day of June, 2009, before me, a Notary Public
in and for said County and State, personally appeared Frank Veenstra,
known or identified to me to be the individual whose name and subscription to the within
instrument, and acknowledged to me that he executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official
seal the day and year in this certificate first above written.

S
E
A
L



[Signature]
Notary Public
In and for said State and County

1-2-2010
My Commission Expires

Livestock Confinement Operations

Water Requirements and Consumptive Use Worksheet

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The information, data, or computational procedures herein may not be duplicated without the express written consent of Brockway Engineering.

COMPLETE BLUE HIGHLIGHTED SECTIONS ONLY

Prepared for: VEENSTRA, FRANK
2675 S. 1300 E.
Hagerman, ID

Revision: 9801
Run Date: 4/23/2002

Remarks: Facility location: SESE Sec. 32, T. 7 S., R. 14 E.
V&L DAIRY

Herd Information - User Input

Number of milking cows 575
Number of dry cows 110
Number of other adult dry animals 0

Breed: Large

Calves at age:

1 month 66
2 months 66
3 months 66
4 months 0

Heifers at age:

5 months 0
15 - 18 months 0
18 - 24 months 0

ANIMAL INFORMATION

Use defaults or enter values if known

Average body weight 1300 lbs
Milk fat percentage 3.5 %
Average days dry 60
Annual milk yield per animal 20000 lbs/year
Percent dry matter in ration 90 %

Nearest weather station Jerome
Number of milkings/day 3

Check: Total herd size based on days dry 669
HERD SIZE OK

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Lagoon Information - User Input

Lagoon Number	Top width	Top length	SS (h:v)	Max depth	Average depth factor	% days with water	Top Area	Bottom Area	Average Area
1	370	633	2	8	0.5	100	234210	218418	226314
2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0
TOTAL ACRES							5.38	5.01	5.20

Facility Information - User Input

	Holding Pen 1	Holding Pen 2
Holding pen active	1	0 (0 = not used or nonexistent)
Number of sprinklers in pen	60	0
Average line pressure	60	60 psi
Sprinkler nozzle size - primary	5/32	9/64 inches
Sprinkler nozzle size - secondary	0	0 (enter 0 for single-nozzle sprinklers)
Daily operation time of sprinklers	75	0 minutes
Percent of days per year cows are washed	90	0 %
Number of free stalls	0	
Length of each free stall	1000 feet	
Width of each free stall	50 feet	
Is the feeding area flushed to lagoon?	No	
Is this housing area flushed to lagoon?	No	
Flushing recycle rate	Barn 0	Feeding 0
		Housing 0

CLEANING / FLUSHING VOLUMES

Use defaults or enter manufacturer volumes

Cleaning parlor floor	500 gal	Cleaning pipeline	200 gal
Cleaning milkroom	200 gal	Cleaning equipment	100 gal
Cleaning bulk tank	100 gal		
Additional flush of holding pen (opt.)	0 gal		

Land Application Information - User Input

Type of system	<IDWR DEFAULT>
Predominant cropping	Alfalfa
Percent of waste water which goes to meet crop irrigation requirement	90 %

Stockwater Component

Drinking Water Calculation for Lactating Cows

4% fat-corrected milk yield	18500 lbs/year
Daily average FCM yield	60.66 lbs/day
Daily average milk yield	65.57 lbs/day
Estimated DMI	42.53 lbs/day

METHOD 1: Kertz

Estimated total water intake (TWI)	256.4 lbs/day or 30.7 gal/day
As-fed feed daily intake	47.3 as-fed lb/day
Water content of feed	4.73 lb/day in feed
Drinking water intake	251.7 lb/day or 30.2 gal/day

Drinking water requirement
for lactating cows

17351 gal/day
19.4 ac-ft/year

Sum drinking water requirement 19.4 ac-ft/year

METHOD 2: Holter and Urban

Regression equation with DMI, milk production, and dry matter %

Drinking water intake 93.7 liters/day
24.8 gal/day

14232 gal/day
15.9 ac-ft/year

Drinking Water Calculation for Dry Cows

Estimated DMI	24.7 lbs/day
Average drinking water intake	13 gal/day

Average drinking water requirement 1430 gal/day
1.6 ac-ft/year

Drinking Water Calculation for Replacement Herd (Calves and Heifers)

Age	GPD	Ac-Ft/year
1 mo	109	0.12
2 mo	129	0.14
3 mo	162	0.18
4 mo	0	0.00
5 mo	0	0.00
15-18 mo	0	0.00
18-24 mo	0	0.00

Drinking water requirement for replacement herd 399 gpd 0.45 ac-ft/year

TOTAL STOCKWATER COMPONENT 21.5 AC-FT/YEAR

Commercial Component

Milking Parlor Water Usage Calculation

Volume needed **per milking** in each parlor for:

Cleaning parlor floor	500 gal	Cleaning pipeline	200 gal
Cleaning milkroom	200 gal	Cleaning equipment	100 gal
Cleaning bulk tank	100 gal	Cleaning cows	287.5 gal

Total milking parlor volume	4162.5 gal/day
Second milking parlor volume	0 gal/day
Recycled water	0 gal/day
	4.66 ac-ft/year

Holding Pen Water Usage Calculation

	Pen 1	Pen 2
Output of primary nozzle	5.5	4.45 gpm
Output of secondary nozzle	0	0 gpm
Holding pen flushing volume	3000	0 gal
Additional flush volume	0	0 gal
Sprinkler volume	22275	0 gal/day
Total holding pen volume	25275	0 gal/day
Recycled water	0	0 gal/day

28.31 ac-ft/year

Other Flushing Water Calculation

Daily volume needed for:

Feeding area flushing	0 gal/day
Housing area flushing	0 gal/day

Total other flushing volume	0 gal/day
Recycled water	0
	0.00 ac-ft/year

TOTAL COMMERCIAL COMPONENT 33.0 AC-FT/YEAR

Consumptive Use Calculation

A. Lagoon Evaporation

Annual reference ET (Allen & Brockway , 1983)	4.51 feet
Annual open water coeff (Kohler Nordenson Fox)	0.90
Annual open water (lagoon) evaporation	4.06 feet
Manual override: Input annual lagoon evap	feet

Total lagoon water surface area at full	234210 sq. ft.	
Total lagoon bottom area	218418 sq. ft.	
Average surface area when water is present	226314 sq. ft. =	5.20 ac

Total lagoon evaporation	21.11 ac-ft/year
--------------------------	------------------

B. Animal usage: milk, metabolism, and excretion loss

	Milking	Dry
Waste excretion volume per cow	1.3	1.3 ft ³ /day/1000lb
Water content	87.5	88.4 %
Total water volume in excrement	6360	1229 gal/day

Percent of excrement flushed to lagoons	15 % (based on areas which are flushed)
Consumptive use (evap.) of water in excrement	85 %
Consumptive use (evap.) volume	6451 gal/day
Excrement c.u. attributable to drinking water	6332 gal/day

Total milk production - assume 100% leaves site	37705 lbs/day or	4521 gal/day
Water content of milk	3933 gal/day	
Water content attributable to drinking water	3861 gal/day	

Water use for animal metabolism	7584 gal/day
Metabolism water attributable to drinking water	7444 gal/day

Consumptive use - replacement herd (100%)	399 gal/day
---	-------------

Total animal consumptive use from drinking water	18036 gal/day or	20.2 ac-ft/year
Percent of drinking water intake	96.0 %	

C. Parlor/holding pen cleanup

Average sprinkler washing system evap loss	2 %	
Free stall total area	0 sq. ft. =	0.00 acres
Length of time free stall concrete is wet	1 hr/day	
Average evaporation from wet concrete	0.15 in./day	

Sprinkler system loss volume	0.50 ac-ft/year
Free stall evaporation volume	0.00 ac-ft/year

Total cleanup loss	0.50 ac-ft/year
--------------------	-----------------

D. Land application site

Crop evapotranspiration	3.29 ac-ft/ac/year
Irrigation diversion volume	4.00 ac-ft/ac/year
System efficiency	82.18504 %
Waste water volume to lagoons	33.8 ac-ft/year
Waste water volume available for land application	12.6 ac-ft/year

Total crop consumptive use of waste water	9.4 ac-ft/year
---	----------------

Summary

Drinking Water

Milking herd	19.4
Non-milking herd (dry cows)	1.6
Replacement herd (calves and heifers)	0.4

Total drinking water volume	21.5 ac-ft/year
-----------------------------	-----------------

Commercial

Milking parlor	4.66
Holding pen and cleanup	28.3
Other flushing water	0.00

Total commercial volume	33.0 ac-ft/year
-------------------------	-----------------

TOTAL DIVERSION VOLUME REQUIREMENT	54.5 AC-FT/YR
------------------------------------	---------------

Consumptive Use

Lagoon evaporation	21.11
Animal milk, excretion, & metabolism	20.2
Parlor and holding pen cleanup	0.50
Crop consumptive use on land application	9.4

Total consumptive use	51.2 ac-ft/year
-----------------------	-----------------

Percent of diversion volume consumed	94.0 %
--------------------------------------	--------

Annual crop consumptive use - IDWR allowable	3.0 afa
--	---------

Equivalent irrigated acres	17.1 acres
----------------------------	------------

Diversion volume to acres conversion factor	3.19 ac-ft/ac
---	---------------

WARRANTY DEED

For Value Received

FRANK W. VEENSTRA, JR. AND TRICIA L. VEENSTRA, Husband and Wife

the grantor s, do hereby grant, bargain, sell and convey unto

FRANK W. VEENSTRA AND MARY JANE VEENSTRA, Husband and Wife

the grantees , whose current address is

2729-A South 1600 East
Wendell, Idaho 83355

the following described premises, in Gooding County Idaho, to-wit:

Township 7 South, Range 14, East of the Boise Meridian, Gooding County, Idaho

Section 32: SE~~1~~SE~~4~~

SUBJECT TO:

1. A Mortgage to secure an indebtedness in the original principal sum of \$48,000.00, and any other amounts and/or obligations secured thereby, recorded January 5, 1981, as Instrument No. 87079, records of Gooding County, Idaho.

Mortgagor: Ernest Hegi and Carla Hegi, Husband and Wife

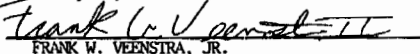
Mortgagee: Loren Hoagland and Helen Hoagland, Husband and Wife

WHICH GRANTEES HEREIN ASSUME AND AGREE TO PAY ACCORDING TO THE TERMS THEREOF.

TO HAVE AND TO HOLD the said premises, with their appurtenances unto the said Grantees, their heirs and assigns forever. And the Grantor s do hereby covenant to and with the said Grantees , that they are the owner s in fee simple of said premises; that they are free from all encumbrances except current year's taxes, levies and assessments and except reservations, restrictions and easements of record and easements visible upon the premises,

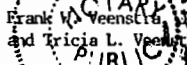
and that they will warrant and defend the same from all lawful claims whatsoever.

Dated: July 29, 1988

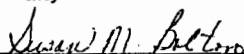

 FRANK W. VEENSTRA, JR.


 TRICIA L. VEENSTRA

STATE OF IDAHO, COUNTY OF Gooding
 On this 29th day of July, 1988,
 before me, a Notary Public, and for said State, personally appeared


 Frank W. Veenstra, Jr.
 and Tricia L. Veenstra

known to me to be the persons whose names are
 subscribed to the within instrument, and acknowledged to me
 that they executed the same.



Notary Public

Residing at Gooding, Idaho
 Comm. Expires 10/16/92

STATE OF IDAHO, COUNTY OF Gooding
 I hereby certify that this instrument was filed for record at the request of

of FIRST AMERICAN TITLE

at 2 minutes past 7 o'clock A.M.,
 this 7 day of Jan
 19 93, in my office, and duly recorded in Book
 of Deeds at page

JOHN A. MYERS

Ex-Officio Recorder

By 

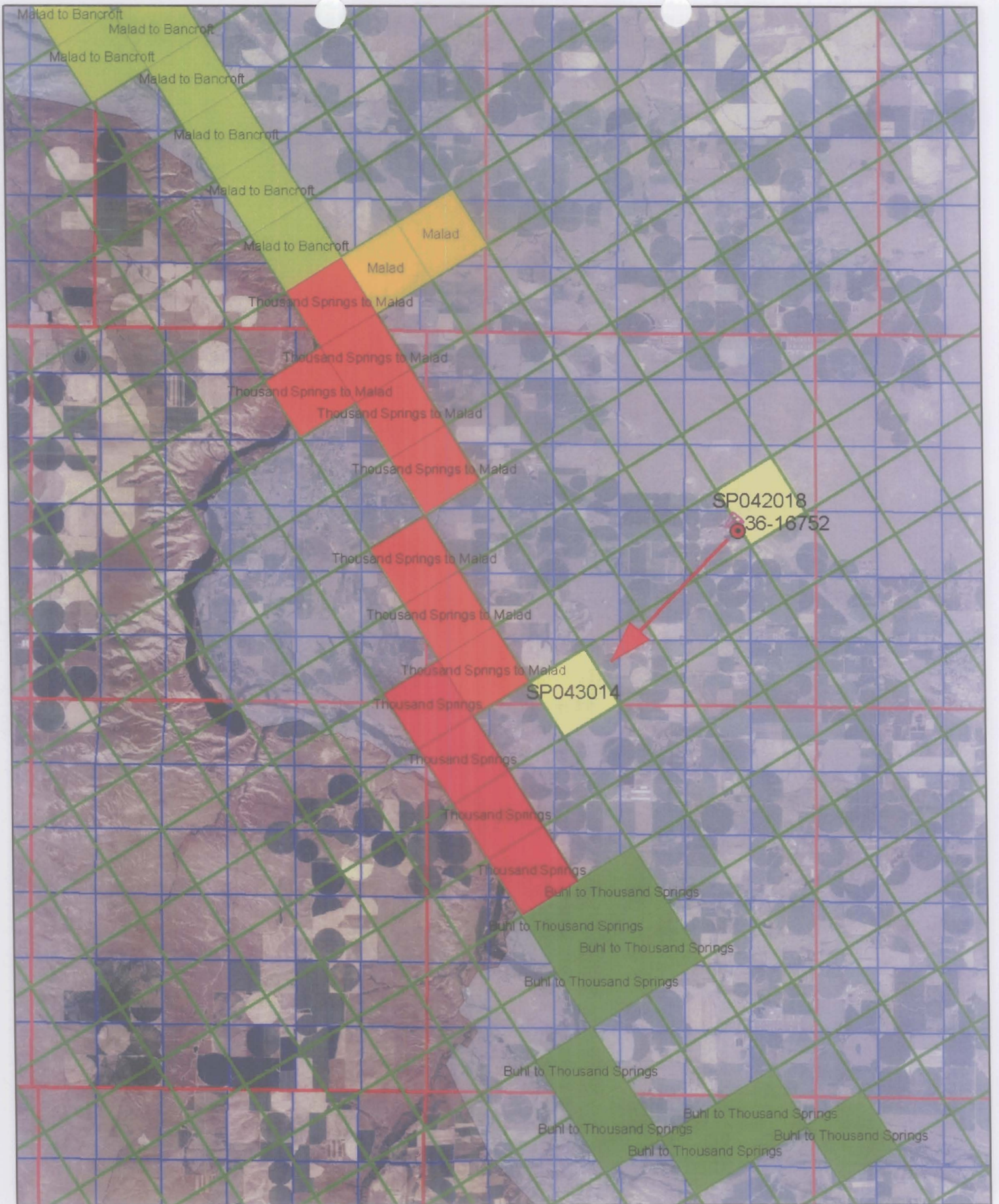
Deputy.

Fees \$ 3.00
 Mail to:

151211

INSTRUMENT NO.

First American Title Company of Idaho



Veenstra Trnsf Mitigation Exhibit



0 1 2 4 Miles

Exhibit 1 - Step by Step Process for Evaluating Mitigation Requirements - New Trnsf Memo 24

ESPA Transfer Tool

	Pre-Existing*		Proposed - Transient**		Proposed - Stead State***		Increase in Reach Depletion	
	ac-ft/tri	ac-ft/yr	ac-ft/tri	ac-ft/yr	ac-ft/tri	ac-ft/yr	ac-ft/tri	ac-ft/yr
Ashton to Rexburg:	0.0	0.1	0.0	0.1	0.0	0.0	0.0	-0.1
Heise to Shelley:	0.0	0.1	0.0	0.1	0.0	0.0	0.0	-0.1
Shelley to Near Blackfoot	0.3	0.8	0.2	0.6	0.1	0.3	-0.2	-0.5
Near Blackfoot to Neeley:	0.9	2.8	0.7	2.0	0.3	1.0	-0.6	-1.8
Neeley to Minidoka:	0.2	0.7	0.2	0.6	0.1	0.3	-0.2	-0.5
Devil's Washbowl to Buhl:	5.3	16.0	2.7	8.0	2.4	7.3	-2.9	-8.7
Buhl to 1000 Springs:	6.2	18.5	4.9	14.8	4.8	14.5	-1.3	-4.0
1000 Springs:	6.0	18.0	8.4	25.2	8.4	25.1	2.3	7.0
1000 Springs to Malad:	0.7	2.2	0.8	2.4	0.8	2.3	0.0	0.1
Malad:	4.2	12.6	1.2	3.5	1.1	3.4	-3.1	-9.2
Malad to Bancroft:	0.1	0.4	0.0	0.1	0.0	0.1	-0.1	-0.3
Sum:	24.1	24.1	19.1	57.4	18.1	54.3	-6	-18

*Preexisting depletion at time of transfer; value obtained from ESPA Trnsf Model "Total Effect w/out Transfer"

**Maximum model predicted increase in depletion; values obtained from time step w/ largest depletion value in the ESPA Trnsf Model "Total Effect w/ Transfer"

***Model predicted increase in depletion at future steady state condition; values obtained from last time step of the ESPA Trnsf Model "Total Effect w/ Transfer"

Step 1: Check to determine if the maximum increase in depletion to a single reach due to the conditions proposed by the transfer, including increases during the transient state, is greater than 2 ac-ft/trimester.

If increase is greater than 2 ac-ft/trimester mitigation may be required. If increase is less than 2 ac-ft/trimester than mitigation will not be required for the reach in question.

$$\text{Eqn 1: Increase} = (D_{\text{trnsf, max}} - D_{\text{pre}})/3$$

If Increase > 2 ac-ft then 'mitigate' (1), else 'no mitigation' (0)

	Value*	Check 1 - 2 ac-ft/trimester Mitigation Req'd?	
Ashton to Rexburg:	0.0	NO MITIGATION	0
Heise to Shelley:	0.0	NO MITIGATION	0
Shelley to Near Blackfoot	0.1	NO MITIGATION	0
Near Blackfoot to Neeley:	0.4	NO MITIGATION	0
Neeley to Minidoka:	0.1	NO MITIGATION	0
Devil's Washbowl to Buhl:	0.9	NO MITIGATION	0
Buhl to 1000 Springs:	2.9	MITIGATION	1
1000 Springs:	6.4	MITIGATION	1
1000 Springs to Malad:	0.5	NO MITIGATION	0
Malad:	-0.2	NO MITIGATION	0
Malad to Bancroft:	0.0	NO MITIGATION	0

*Obtained by using Eqn. 1

Step 2: Check to determine if the maximum increase in depletion to a single reach due to the conditions proposed by the transfer, at the steady state condition, is greater than the preexisting condition by 10.0%.

If increase is greater than 10% mitigation may be required. If increase is less than 10% than mitigation will not be required for the reach in question.

$$\text{Eqn 2: \% Increase} = 100 * (D_{\text{trnsf, ss}} / D_{\text{pre}} - 1)$$

If % Increase > 10% of Preexisting then 'mitigate' (1) else 'no mitigation' (0)

	Value*	Check 2 - 10% Dep. Increase Mitigation Req'd?	
Ashton to Rexburg:	0%	NO MITIGATION	0
Heise to Shelley:	0%	NO MITIGATION	0
Shelley to Near Blackfoot	0%	NO MITIGATION	0
Near Blackfoot to Neeley:	0%	NO MITIGATION	0
Neeley to Minidoka:	0%	NO MITIGATION	0
Devil's Washbowl to Buhl:	0%	NO MITIGATION	0
Buhl to 1000 Springs:	0%	NO MITIGATION	0
1000 Springs:	39%	MITIGATION	1
1000 Springs to Malad:	4%	NO MITIGATION	0
Malad:	0%	NO MITIGATION	0
Malad to Bancroft:	0%	NO MITIGATION	0

*Obtained by using Eqn. 2

Step 3: Check to determine if the depletion to a single reach due to the conditions proposed by the transfer, at the steady state condition, is greater than 10% of the total anticipated depletions to the Snake River.

If increase in depletions to the reach in question is greater than 10% of the total depletions to the River, mitigation may be required. If increase is less than 10% of the total, then mitigation will not be required for the reach in question.

$$\text{Eqn 3: \% Increase} = 100 * (D_{\text{trnsf, ss}} / \sum D_{\text{trnsf, ss}})$$

If Increase to Reach > 10% of Total Increase Then 'mitigate' (1), else 'no mitigation' (0)

	Value*	Check 3 - 10% of Total Dep. Mitigation Req'd?	
Ashton to Rexburg:	0.1%	NO MITIGATION	0
Heise to Shelley:	0.1%	NO MITIGATION	0
Shelley to Near Blackfoot	0.5%	NO MITIGATION	0
Near Blackfoot to Neeley:	1.8%	NO MITIGATION	0
Neeley to Minidoka:	0.5%	NO MITIGATION	0
Devil's Washbowl to Buhl:	13.4%	MITIGATION	1
Buhl to 1000 Springs:	26.8%	MITIGATION	1
1000 Springs:	46.2%	MITIGATION	1
1000 Springs to Malad:	4.3%	NO MITIGATION	0
Malad:	6.2%	NO MITIGATION	0
Malad to Bancroft:	0.2%	NO MITIGATION	0

*Obtained by using Eqn. 3

Step 4: If each check (checks 1 - 3) determined that mitigation is required than the applicant is required to mitigate for the full value of increased depletion to the reach in question, as determined by the model.

If any of the checks (checks 1 - 3) determine that mitigation is not required, than the applicant is not required to mitigate.

If sum of mitigation check indicators = 3 Then 'mitigation required', else 'no mitigation required'

Ashton to Rexburg:	No Mitigation Required
Heise to Shelley:	No Mitigation Required
Shelley to Near Blackfoot	No Mitigation Required
Near Blackfoot to Neeley:	No Mitigation Required
Neeley to Minidoka:	No Mitigation Required
Devil's Washbowl to Buhl:	No Mitigation Required
Buhl to 1000 Springs:	No Mitigation Required
1000 Springs:	19.1 ac-ft/yr of Mitigation Required
1000 Springs to Malad:	No Mitigation Required
Malad:	No Mitigation Required
Malad to Bancroft:	No Mitigation Required

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ENTER STARTING DATE FOR SIMULATION. THEN PUSH "UPDATE DATES" BUTTON

TRANSFER NO:

YEAR

1958

TRANSFER NAME:

SEASON

SPRING

Veenstra Dairy

ENTER CELL LOCATIONS:

'TO' CELL

'FROM1' CELL

'FROM2' CELL

'FROM3' CELL

36-16752

4/29/1958

72.4 AFA

ROW
COLUMN

43

42

Transferring

54.3

Mitigation WR

0.00

Mitigation

0.00

TRIMESTER OF ACTIVITY	TO WELL Projected Use AF/TRIMESTER	FROM1 WELL		FROM2 WELL		FROM3 WELL	
		With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER	With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER	With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER
SPR 1972	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SUM 1972	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 1972	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SPR 1973	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SUM 1973	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 1973	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SPR 1974	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SUM 1974	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 1974	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SPR 1975	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SUM 1975	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 1975	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SPR 1976	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SUM 1976	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 1976	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SPR 1977	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SUM 1977	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 1977	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SPR 1978	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SUM 1978	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 1978	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SPR 1979	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SUM 1979	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 1979	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SPR 1980	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SUM 1980	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 1980	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SPR 1981	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SUM 1981	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 1981	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SPR 1982	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SUM 1982	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 1982	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SPR 1983	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SUM 1983	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 1983	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SPR 1984	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SUM 1984	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 1984	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SPR 1985	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SUM 1985	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 1985	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SPR 1986	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SUM 1986	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 1986	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SPR 1987	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SUM 1987	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 1987	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SPR 1988	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SUM 1988	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 1988	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SPR 1989	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SUM 1989	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 1989	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SPR 1990	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SUM 1990	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 1990	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SPR 1991	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SUM 1991	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 1991	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SPR 1992	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SUM 1992	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 1992	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SPR 1993	0.0	24.1	24.1	0.0	0.0	0.0	0.0

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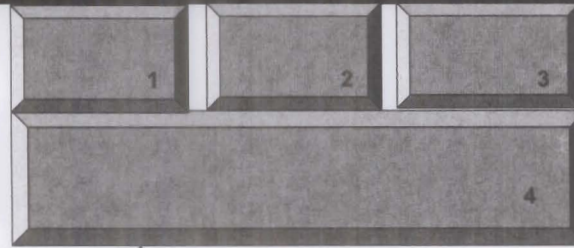
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ENTER STARTING DATE FOR SIMULATION. THEN PUSH "UPDATE DATES" BUTTON

TRANSFER NO:

YEAR 1958
SEASON SPRING

TRANSFER NAME:
Veenstra Dairy



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SOUTHERN REGION

ENTER CELL LOCATIONS:

	'TO' CELL	'FROM1' CELL	'FROM2' CELL	'FROM3' CELL
ROW	43	42		
COLUMN	14	18		

36-16752 4/29/1958 72.4 AFA
Transferring 54.3
Mitigation WR 0.00
Mitigation 0.00

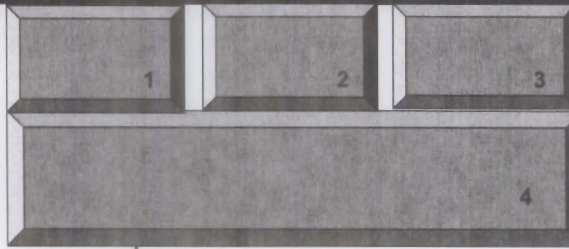
TRIMESTER OF ACTIVITY	TO WELL Projected Use AF/TRIMESTER	FROM1 WELL		FROM2 WELL		FROM3 WELL	
		With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER	With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER	With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER
SUM 1993	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 1993	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SPR 1994	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SUM 1994	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 1994	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SPR 1995	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SUM 1995	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 1995	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SPR 1996	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SUM 1996	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 1996	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SPR 1997	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SUM 1997	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 1997	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SPR 1998	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SUM 1998	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 1998	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SPR 1999	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SUM 1999	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 1999	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SPR 2000	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SUM 2000	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 2000	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SPR 2001	0.0	24.1	24.1	0.0	0.0	0.0	0.0
SUM 2001	0.0	24.1	24.1	0.0	0.0	0.0	0.0
WIN 2001	0.0	24.1	24.1	0.0	0.0	0.0	0.0
	18.1	24.1	24.1	0.0	0.0	0.0	0.0
	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2002	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2003	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2003	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2003	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2004	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2004	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2004	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2005	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2005	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2005	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2006	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2006	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2006	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2007	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2007	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2007	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2008	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2008	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2008	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2009	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2009	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2009	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2010	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2010	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2010	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2011	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2011	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2011	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2012	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2012	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2012	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2013	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2013	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2013	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2014	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2014	18.1	0.0	24.1	0.0	0.0	0.0	0.0

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DEPT. OF WATER RESOURCES
SOUTHERN REGION

ENTER STARTING DATE FOR SIMULATION. THEN PUSH "UPDATE DATES" BUTTON

TRANSFER NO:

YEAR: 1958 TRANSFER NAME:

SEASON: SPRING Veenstra Dairy

ENTER CELL LOCATIONS:

	'TO' CELL	'FROM1' CELL	'FROM2' CELL	'FROM3' CELL			
ROW	43	42			36-16752	4/29/1958	72.4 AFA
COLUMN	14	18					

Transferring 54.3
Mitigation WR 0.00
Mitigation 0.00

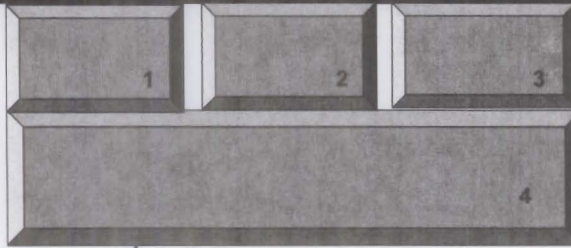
TRIMESTER OF ACTIVITY	TO WELL Projected Use AF/TRIMESTER	FROM1 WELL		FROM2 WELL		FROM3 WELL	
		With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER	With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER	With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER
WIN 2014	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2015	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2015	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2015	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2016	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2016	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2016	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2017	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2017	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2017	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2018	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2018	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2018	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2019	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2019	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2019	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2020	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2020	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2020	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2021	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2021	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2021	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2022	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2022	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2022	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2023	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2023	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2023	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2024	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2024	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2024	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2025	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2025	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2025	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2026	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2026	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2026	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2027	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2027	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2027	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2028	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2028	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2028	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2029	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2029	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2029	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2030	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2030	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2030	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2031	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2031	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2031	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2032	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2032	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2032	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2033	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2033	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2033	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2034	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2034	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2034	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2035	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2035	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2035	18.1	0.0	24.1	0.0	0.0	0.0	0.0

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ENTER STARTING DATE FOR SIMULATION. THEN PUSH "UPDATE DATES" BUTTON

TRANSFER NO:

YEAR 1958
SEASON SPRING

TRANSFER NAME:
Veenstra Dairy

RECEIVED
NOV 23 2009
DEPT. OF WATER RESOURCES
SOUTHERN REGION

ENTER CELL LOCATIONS:

	TO CELL	FROM1 CELL	FROM2 CELL	FROM3 CELL
ROW	43	42		
COLUMN	14	18		

36-16752

4/29/1958

72.4 AFA

Transferring 54.3
Mitigation WR 0.00
Mitigation 0.00

TRIMESTER OF ACTIVITY	TO WELL Projected Use AF/TRIMESTER	FROM1 WELL		FROM2 WELL		FROM3 WELL	
		With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER	With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER	With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER
SPR 2036	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2036	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2036	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2037	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2037	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2037	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2038	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2038	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2038	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2039	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2039	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2039	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2040	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2040	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2040	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2041	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2041	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2041	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2042	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2042	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2042	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2043	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2043	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2043	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2044	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2044	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2044	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2045	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2045	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2045	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2046	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2046	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2046	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2047	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2047	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2047	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2048	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2048	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2048	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2049	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2049	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2049	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2050	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2050	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2050	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2051	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2051	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2051	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2052	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2052	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2052	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2053	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2053	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2053	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2054	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2054	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2054	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2055	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2055	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2055	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SPR 2056	18.1	0.0	24.1	0.0	0.0	0.0	0.0
SUM 2056	18.1	0.0	24.1	0.0	0.0	0.0	0.0
WIN 2056	18.1	0.0	24.1	0.0	0.0	0.0	0.0

Impact by Reach (AF/Trimester)

WR No.	Div. Rate (CFS)	Con. Vol. (AF)	No. of Irr. Acres	Priority Date	POD Location	Dedicated Vol. AF/A FT	Model Node
Transfer: Proposed Steady State Impacts following Transfer							
36-16752	0.37	72.4	18.1	4/29/1958	SENE02377SR14E	54.3	SP042018
36-16752	0.37	72.4	18.1	4/29/1958		54.3	SP043014
Transfer: Worst Case Transient State Impacts following Transfer							
36-16752	0.37	72.4	18.1	4/29/1958	SENE02377SR14E	54.3	SP042018
36-16752	0.37	72.4	18.1	4/29/1958	0	54.3	SP043014

Transfer: Worst Case Transient State Impacts following Transfer

[illegible]

Steady State Analysis [

Mitigation Check 1 - >10% of Total:
Mitigation Check 2: > 2 AF/T:
Mitigation Check 3 - >10% of Historical:
Mitigation Required?:
Mitigation Vol. Req'd (ac-ft):

Transient State Analysis

Mitigation Check 1 - >10% of Total:
Mitigation Check 2: > 2 AF/T:
Mitigation Check 3 - >10% of Historical:
Mitigation Required?:
Mitigation Vol. Req'd (ac-ft):

Steady State Summary of Modified Stream Depletions Following Transfer(s)
Impact by Reach (AF/Trimester)

	Ashion to Flexburg	Heise to Shelley	Nr Bickit Shelley	Nr Bickit Neeley	Neeley to Mindoka	Dev. Wbl. Buhl	Buhl to Kspr	Kspr Malad	Malad Bancroft
1a	0.0	0.0	-0.1	-0.4	-0.1	-1.6	0.2	3.8	-2.0
3a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1b	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3b	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4b	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5b	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3c	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4f	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3d	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4g	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3e	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3f	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4d	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4e	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3g	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4c	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5c	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Summary:	0.0	0.0	-0.1	-0.4	-0.1	-1.6	0.0	3.8	-2.0

Transient State Summary of Modified Stream Depletions Following Transfer(s)
Impact by Reach (AF/Trimester)

	Ashion to Flexburg	Heise to Shelley	Nr Bickit Shelley	Nr Bickit Neeley	Neeley to Mindoka	Dev. Wbl. Buhl	Buhl to Kspr	Kspr Malad	Malad Bancroft
1a	0.0	0.0	0.0	-0.2	0.0	-1.4	0.3	3.9	-2.0
3a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1b	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3b	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4b	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5b	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3c	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4f	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3d	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4g	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3e	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3f	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4d	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4e	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3g	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4c	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5c	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Carry out one way analysis. If reach depletions go up, it is a debit, if they go down, it is a credit. Sum all debits, only where mitigation is required (dark yellow), and all credits (light yellow). Mitigation is required for the full amount of the summed values if greater than zero.

Steady state analysis represents permanent mitigation requirements at future steady state (or last timestep from the ESPAM Transfer Tool model run).

Transient state analysis represents mitigation requirements for the worst or maximum time step in the model run.

Evaluation of transient state mitigation requirement is not comprehensive across all time steps. Instead this evaluation finds the maximum stream depletion following the start of the transfer and looks at depletion amounts from that time step. In many instances this depletion is greater than the depletion associated with the steady state condition or final time step. This evaluation is merely an indicator of whether transient depletions must be considered, not an indicator of all transient impacts.

Evaluation of Permanent Mitigation Efforts (non-use, acreage consolidation) in Addition to Off-Setting Transfer Benefits - Steady State Evaluation Only

Set Aside 1 (Non-Use/Desiccation):

WR No.	Div. Rate (CFS)	Con. Vol. (AFA)	No. of Irr. Acres	Priority Date	POD Location	Dedicated Vol. AFA/ AFT	Model Node
Non-Use: Proposed Steady State Impacts following Change							
35-16752	0.37	72.4	18.1	4/29/1958	0	18.1 6.0	SP042018
35-16752	0.37	72.4	18.1	4/29/1958	0	18.1 6.0	SP042018
Non-Use 1: Worst Case Transient State Impacts following Change							
35-16752	0.37	72.4	18.1	4/29/1958	0	18.1 6.0	SP042018
35-16752	0.37	72.4	18.1	4/29/1958	0	18.1 6.0	SP042018

Steady State Analysis

Mitigation Check 1 - > 10% of Total:
Mitigation Check 2 - > 2 ac-ft/yr:
Mitigation Check 3 - > 10% of Historical:
Mitigation Required?:
Mitigation Vol. Req'd (ac-ft):

2.1%
0.0
-99.1%
NO
0.0

1.9%
0.0
-99.3%
NO
0.0

11.3%
-0.1
-99.4%
NO
-0.1

35.7%
-0.2
-99.5%
NO
-0.2

11.8%
-0.1
-99.4%
NO
-0.1

20.3%
-1.3
-100.0%
NO
-1.3

7.3%
-1.5
-100.0%
NO
-1.5

4.6%
-1.5
-100.0%
NO
-1.5

0.5%
-0.2
-100.0%
NO
-0.2

4.2%
-1.0
-100.0%
NO
-1.0

0.2%
0.0
-100.0%
NO
0.0

Impact by Reach (AFT/Trimester)

Ashion to Flexburg	Heise to Shelley	Shelley to Nr Bickft	Nr Bickft To Neeley	Neeley to Mindoka	Dev. Wbl. To Buhl	Buhl to Kspr	Kspr to Malad	Malad to Bancroft
0.0	0.0	0.1	0.2	0.1	1.3	1.5	0.2	1.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.1	0.2	0.1	1.3	1.5	0.2	1.0
0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0

Re-evaluation of overall mitigation requirements per reach, Steady State Only (Sum of reach debits only where mitigation is required and credits)

Steady State Summary of Modified Stream Depletions Following Transfer(s)

Impact by Reach (AFT/Trimester)

Ashion to Flexburg	Heise to Shelley	Shelley to Nr Bickft	Nr Bickft To Neeley	Neeley to Mindoka	Dev. Wbl. To Buhl	Buhl to Kspr	Kspr to Malad	Malad to Bancroft
0.0	0.0	-0.1	-0.4	-0.1	-1.6	0.0	3.8	0.0
0.0	0.0	-0.1	-0.2	-0.1	-1.3	-1.5	-0.2	-1.0
0.0	0.0	-0.2	-0.6	-0.2	-2.9	-1.5	-0.2	-3.1

Total 1-Way Transfer Depletions:
Total Mitigation Efforts:

0.0
0.0

0.0
0.0

-0.1
-0.2

-0.4
-0.6

-0.1
-0.2

-1.6
-2.9

0.0
-1.5

3.8
2.4

-0.2
-0.2

-1.0
-3.1

0.0
-0.1