

JUN 12 2017

DEPARTMENT OF
WATER RESOURCESSTATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

WATER SUPPLY BANK RENTAL AGREEMENT No. 168

RECEIVED

JUN 06 2017

DEPT OF WATER RESOURCES
SOUTHERN REGION

This is to certify that:

GEORGE KELLEY
PO BOX 25
ALBION, ID 83311

filed an application to rent water from the Water Supply Bank ("Bank"). The Idaho Water Resource Board ("Board"), being authorized to operate a Bank and to contract by and through the Director of the Idaho Department of Water Resources ("Director, Department") for rental of water from the Bank, agrees to rent water as follows:

Summary of Water Rights or Portions Rented from the Bank

Water Right No.	Priority Date	Source	Diversion Rate (CFS)	Diversion Volume (AF)	Acres (AC)
45-2746	5/9/1966	GROUND WATER	1.96	781.4	210.0
Combined Rental Totals			1.96	781.4	210.0

Term of Rental: This rental shall take effect when all parties have signed it and shall continue in effect until December 31, 2021

Annual Rental Fee:

2017:	\$13,283.80
2018:	\$15,628.00
2019:	\$15,628.00
2020:	\$15,628.00
2021:	\$15,628.00

The full fee for the rental of the above-described right(s) is \$13,283.80 for 2017 and \$15,628.00 per year for years 2018 - 2021. The rental fee includes an administrative fee of \$1,328.38 for 2017 and \$1,562.80 per year for years 2018 - 2021.

An annual payment shall be received by the Department on or before December 31 each year preceding the use of the rented water rights. The agreement will be void if payment is not received by the due date in a given year. Rental fees are non-refundable. To voluntarily terminate the agreement early, notify the Department in writing prior to the rental fee due date.

Total Water Use Authorized Under Rental Agreement [Click here to enter text.](#)

Beneficial Use	Diversion Rate (CFS)	Diversion Volume (AF)	Acres (AC)
IRRIGATION	1.96	781.4	196.0
Combined Total	1.96	781.4	196.0

** The authorized water usage reflects a reduction from the water right elements rented, to account for consolidation of the right on less acres to increase rate of diversion of 0.01 cfs per acre.*

Detailed water right conditions are attached.

The undersigned renter agrees to use the water rented under this agreement in accordance with the Water Supply Bank rules and in compliance with the limitations and conditions of use described in this agreement:

Having determined that this agreement satisfied the provisions of Idaho Code § 42-1763 and IDAPA 37.02.03.030 (Water Supply Bank Rule 30), for the rental and use of water under the terms and condition herein provided, and none other, I hereby execute this Rental Agreement on behalf of the Idaho Water Resource Board.

By Brian Patton Date 6/12/2017
BRIAN PATTON, Acting Administrator
Idaho Water Resource Board

Rental approved by IDWR Ch. Webster Date 6-12-2017

WATER SUPPLY BANK RENTAL AGREEMENT No. 168

WATER USE DETAILS

LOCATION OF POINT(S) OF DIVERSION

GROUND WATER NENE Sec. 35, Twp 11s, Rge 24e, CASSIA County

Beneficial Use Diversion Rate Volume
IRRIGATION 1.96 CFS 781.40 AF

BENEFICIAL USE & SEASON OF USE

Water Right No. From To Diversion Rate
45-2746 4/1 10/31 1.96 CFS

RENTERS PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
11S	24E	35													1.0				1.0
11S	24E	36					30.0	31.0	30.0	29.0	33.0	33.0	3.5	3.8		1.0	0.7		195.0

Total Acres: 196.0

RENTAL AGREEMENT CONDITIONS OF ACCEPTANCE

1. The use of water under this agreement shall be subject to the provisions of Idaho Code § 42-1766.
2. Rental of the specified right from the bank does not, in itself, confirm the validity of the right or any elements of the water right, or improve the status of the right including the notion of resumption of use. It does not preclude the opportunity for review of the validity of this water right in any other department application process.
3. Use of water under this agreement shall not prejudice any action of the Department in its consideration of an application for transfer or permit filed by the applicant for this same use.
4. Renter agrees to comply with all applicable state and federal laws while using water under this agreement.
5. Renter agrees to hold the Board, the Director and the state of Idaho harmless from all liability on account of negligent acts of the renter while using water.
6. Renter acknowledges and agrees that the Director may terminate authorization for the use of a water right based on a water right's priority date.
7. Failure of the renter to comply with the conditions of this agreement is cause for the Director to rescind approval of the rental agreement.
8. This right when combined with all other rights shall provide no more than .02 cfs per acre nor more than 4 af per acre for the lands listed.
9. The use of water for irrigation under this right may begin as early as March 15 and may continue to as late as November 15, provided other elements of the right are not exceeded. The use of water before April 1 and after October 31 under this remark is subordinate to all water rights having no subordinated early or late irrigation use and a priority date earlier than the date a partial decree is entered for this right.
10. The following rights are diverted through point(s) of diversion described above: 45-4084 and 45-4236.

11. Use of water under this agreement 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. 140.
12. This rental agreement does not authorize the construction of a well.
13. The renter must diligently pursue a permanent water right to provide for the uses authorized under this rental agreement.
14. This right does not grant any right-of-way or easement across the land of another.



FOR OFFICE USE ONLY:

Receipt amount: \$13,283.80

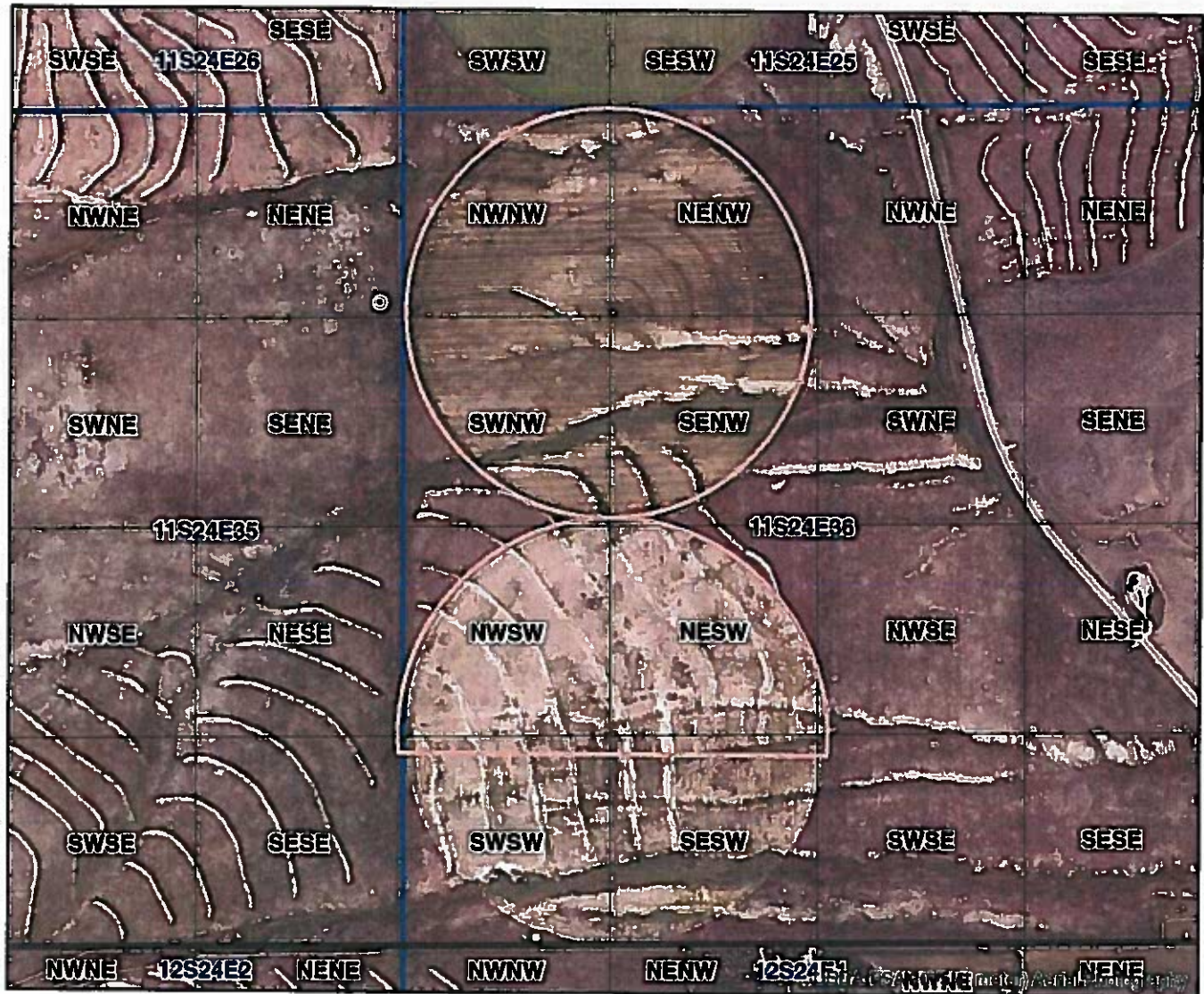
Date: 6/6/2017

Receipt No.: S036164 By: DM

Idaho Water Resource Board
Water Supply Bank Rental Agreement No. 168

Effective until December 31, 2021

This map depicts the rental place of use pursuant to the rental agreement and is attached to the agreement solely for illustrative purposes.



- ⊙ Authorized Rental Point of Diversion
- Authorized Rental Place of Use
- Townships
- PLS Sections
- Quarter Quarters



0 0.25 0.5 Miles

STATE OF IDAHO
WATER RESOURCE BOARD

RECEIVED

NOV 16 2016

DEPARTMENT OF
WATER RESOURCES

App # 66

APPLICATION TO RENT WATER
FROM THE BOARD'S WATER SUPPLY BANKApplicant Name: George Kelley

Is this application being submitted with a lease application as a lease/rental package?

Yes ☐ No ☒

If yes, specify companion water rights in Section 4

This application must be completed according to the minimum requirement checklist below. This checklist is part of the rental application and must be included with the rental application. Applications that do not meet the minimum requirements will not be placed in the processing queue and may be returned until all minimum requirements have been met.

Rental applications should be submitted well in advance of the desired start date for the use of rental water. Rental applications may be processed as early as November 1 of the year prior to the intended use of rental water. Any rental application received on or before November 1 for use in the next year will be assigned a received date of November 1. Rental applications submitted more than one year in advance of the proposed start date for the use of rental water will not be accepted and will be returned to applicants. Rental applications may be returned to applicants if the desired start date for the use of rental water cannot be accommodated by the Water Supply Bank. Rental requests will not be accepted once the rental season of use period has concluded.

One rental application per beneficial use of water. For multiple beneficial uses of water, separate rental requests should be submitted for each unique beneficial use of water. One rental application can be submitted if you propose to rent water from multiple sources.

For additional instructions on completing a rental application, visit the Bank's website at http://idwr.idaho.gov/water_supply_bank.

MINIMUM REQUIREMENT CHECKLIST

Check All Items as Either Attached (Yes) or Not Applicable (N/A)

Yes

- ☒ Completed *Application to Rent Water from the Board's Water Supply Bank*
- ☒ Confirmation that this form has been printed single sided, per requirement of the Water Supply Bank

Attachment N/A Yes

- 2 ☒ A map showing the proposed point(s) of diversion, place(s) of use, and water diversion and distribution systems proposed to be used with your rental request
- 3A ☐ ☒ Detailed information on a proposed use of rental water
- 3F ☒ ☐ Authorization from the owner/operator of the rental point(s) of diversion
- 3H ☒ ☐ Water modeling to account for the impacts of the rental request
- 3J ☒ ☐ Documents justifying a rate of flow greater than 0.02 cfs/acre
- 3K ☒ ☐ Authorization from the owner/operator of the property at the proposed rental place(s) of use
- 4B ☐ ☒ Explanation of how the rental water will sufficiently accomplish your rental purposes
- 4C ☒ ☐ Explanation of consumptive use amounts for water rights experiencing a change in nature of use

Department Use Only – Proposed Water Right(s)

**STATE OF IDAHO
WATER RESOURCE BOARD**

Application to Rent Water (Continued)

1. CONTACT INFORMATION

A. Applicant George Kelley

Mailing Address P.O. Box 25, Albion, Idaho 83311

Street City State Zip Code

Email Address Phone Number 208-673-5364

B. Is this application being completed by an authorized representative on behalf of the applicant? Yes ☒ No ☐
If yes, representatives (includes company employees if the applicant is a corporation, as well as legal counsel or consultants) should provide their information below if they desire to be included on correspondence with the rental applicant.

Representative Paul L. Arrington Professional Title Attorney

Organization Barker Rosholt & Simpson Relationship to Applicant Attorney

Mailing Address 195 River Vista Place, Suite 204, Twin Falls, Idaho 83301

Email Address pla@idahowaters.com Phone Number 208-733-0700

2. MAP

Create a map of the proposed point(s) of diversion, place(s) of use and water diversion, delivery and distribution systems. Make sure the rental place of use is outlined and annotated with legal land descriptions (Township, Range, Section and Quarter-Quarters) or with GPS coordinates. For irrigation purposes, mark the number of acres you desire to irrigate. Attach the map to this application and label it Attachment 2.

3. DESCRIPTION OF PROPOSED USE FOR RENTAL WATER

A. Describe why you desire to rent water and provide a detailed description of your proposed use. If the proposed use is not for irrigation, describe in detail how you determined the amount of rental water required. If the space below is insufficient, attach additional sheets as required and label them Attachment 3A:

Water will be used to allow for complete irrigation under existing pivots. Water will be commingled with Applicant's existing water rights to complete pivots.

B. Enter the desired and/or minimum rates of flow, volume, or irrigable acres requested for your rental purposes:

Desired Rate (Cubic Feet/Second)	Desired Volume (Acre-Foot)	Minimum Rate* (Cubic Feet/Second)	Minimum Volume* (Acre-Foot)	Desired Acres (if applicable)
CFS	AF	CFS	AF	291 AC

* Sometimes water rights provide an exceptionally low rate per acre and/or low volume per acre. This section is meant to establish an acceptable range of water sufficient for your proposed water use. Please see question 4B and complete if necessary.

C. This section must be completed in full. Enter the proposed start date and latest possible start date for using rental water as well as the number of years you would like to rent water. The latest possible start is the latest possible date by which you would be willing to pay for a rental and be able to benefit from utilizing rental water.

Desired Start Date (month/day/year)	Latest Possible Start Date (month/day/year)	*Mark Desired Rental Duration (Calendar Years)					**Applicant's preference if rental application cannot be processed prior to the latest possible start?	
4/15/2016-2017	5/15/2016-2017	☐ 1	☐ 2	☐ 3	☐ 4	☒ 5	☒ Process application as soon as possible	☐ Return application to applicant

* The number of years permissible for a rental is subject to the lease contract duration for the water right(s) being rented.

** Per Idaho Code 42-201, it is unlawful to divert or use water without a valid water right. Water Supply Bank rental applicants are not authorized to utilize rental water prior to the execution of an approved rental agreement. Rental requests may be returned to applicants if no water is available from the Bank to fulfill a rental request.

See email from Rep

1.23

STATE OF IDAHO
WATER RESOURCE BOARD

Application to Rent Water (Continued)

- D. Describe your water distribution system and how rental water will be delivered from the point(s) of diversion (POD) to the proposed place of use (POU):

Water is pumped from the well and piped to a sprinkler system.

- E. Describe the physical type (pump, headgate, etc.) and location of the POD from which rental water is proposed to be diverted:

POD Description	Water Source	Other Water Rights Diverted from this POD
11S 24E 35, NE NE	Groundwater	45-4084 & 45-4236

If the POD(s) above are located where water is turned into a canal, lateral or ditch, or if they are located on your property but are serviced by water that is delivered via a canal, lateral or ditch, your rental request must include documented authorization from all relevant canal companies, irrigation districts and/or water delivery entities, confirming that they consent to your diversion of water from their system.

- F. Has documented consent from all relevant water delivery entities been obtained? Yes ☐ N/A ☒
If yes, include documented consent as Attachment 3F.

- G. Do any POD(s) identified in Question 3E divert from a water source that may require water modeling? Yes ☐ No ☒
Refer to the Water Modeling Requirements Information Sheet to determine if a rental POD may require water modeling.

- H. Has water modeling been provided with your rental request? Yes ☐ N/A ☒
If yes, label modeling Attachment 3 H.
Rental applications that require modeling will be returned if modeling is not provided.

- I. Specify the desired beneficial use of water and the requested season of use or number of acres required:

- ☒ Irrigation 291 (number of acres) Duration: Subject to IDWR standard seasons of use
☐ Commercial from: _____ (mm/dd) to: _____ (mm/dd)
☐ Stockwater from: _____ (mm/dd) to: _____ (mm/dd)
☐ Industrial from: _____ (mm/dd) to: _____ (mm/dd)
☐ Other: _____ from: _____ (mm/dd) to: _____ (mm/dd)

- J. For irrigation uses, do you propose to divert water at a rate greater than 0.02 cfs/acre? N/A ☐ Yes ☐ No ☒
If yes, justify the rate of flow and attach any supporting documents as Attachment 3J. Justification may include information on soil composition, conveyance losses, crop type, irrigation systems, public access areas, etc. A rate of 0.03 cfs/acre is permissible for irrigation of 5 acres or less.

- K. Do you own the land at the proposed rental place of use (POU)? Yes ☒ No ☐
If no, attach documentation from the POU owner/operator confirming your authorization to use the POU and label it Attachment 3K.

- L. List all other water rights and sources of water at the rental place of use for the same purpose, including privately owned water rights and water received from a municipal supplier, an irrigation district, a canal company or any other water delivery entity. Explain why additional water is required:

See E. above. Existing water rights do not cover entire pivot system. Additional water is needed to cover all acres.

**STATE OF IDAHO
WATER RESOURCE BOARD**

Application to Rent Water (Continued)

4. RENTAL REQUESTS FOR SPECIFIC WATER RIGHTS

A. Are you requesting to rent specific water rights?

Yes ☐ No ☒

If yes, specify below the elements of the water rights you are requesting to rent. If no, continue to Question 4B.

Important Information: Diversion rates and volumes sought for rent must be proportionate to the per acre diversion rates and per acre volume limits of the water right under lease contract to the Water Supply Bank. Prior to completing this section, applicants should review all water right lease contracts and any active rental agreements to determine which elements of a water right are available to satisfy a rental request. Lease and rental documents are searchable via [IDWR's website](#).

Water rights identified below must either already be leased to the Bank or a lease proposal should accompany this rental request. Rental requests for water rights not yet leased to the Bank will be returned if companion lease applications are not provided with the rental request. For leased rights featuring combined limits, rentals must be consistent with combined diversion rate, volume or acre limits. Combined limits should be listed on a row below water right numbers.

Water Right Elements Leased to Water Supply Bank					Leased totals, minus water right elements involved in active rental agreements, equals water right elements available for rent	Water Supply Bank Rental Request		
Water Right Number (leave blank if sub-total of combined limits)	Nature of Use	Diversion Rate (CFS)	Volume (AF)	Acres (AC)		Diversion Rate (CFS)	Volume (AF)	Acres (AC)
<i>Applicants must ensure the requested rate per acre and volume per acre do not exceed the rate per acre and volume per acre limits of water rights leased to the Water Supply Bank</i>					TOTAL			
						CFS	AF	AC

**Attach multiple copies of this page if space above is insufficient to list all water rights requested to be rented on this application.*

B. If water right conditions, combined limits, or the sum of all water right elements being requested provide an unconventional duty of water (e.g., an unusually low rate per acre or volume per acre for irrigation use), explain how your proposed rental will sufficiently accomplish your intended purposes. Attach a separate page if space is insufficient and label it Attachment 4B:

Applicant will irrigate what he can with the water provided.

C. Does your rental request propose to change the nature of use for any water right(s) being rented?

Yes ☐ No ☒

If yes, explain how the water right(s) will be converted to new uses. Include the historic, consumptive use amounts for the water right being rented if you have it, as well as the new consumptive use amount for your proposed beneficial use. If space below is insufficient, attach a separate page and label it Attachment 4C:

STATE OF IDAHO
WATER RESOURCE BOARD

Application to Rent Water (Continued)

5. ADDITIONAL INFORMATION

- A. Is this the first time that rental water is being requested for this purpose at the rental place of use? Yes ☐ No ☒

If no, list previous rental requests/agreements and explain why you have not secured a permanent water right for your needs:
Applicant has attempted to purchase additional water rights by speaking with neighbors and others
but has not been able to find any water for purchase.

- B. Have you or do you intend to submit an application for permit or transfer proposing a similar use as this rental? Yes ☐ No ☒

If yes, describe:

- C. Was this rental application submitted in response to a Notice of Violation (NOV) or a pending NOV? Yes ☐ No ☒

If yes, describe the date and location of the NOV.

- D. Additional Information

DECLARATION

I hereby assert that 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. I understand that if this rental application is approved, it will be subject to the provisions of Section 42-1766, Idaho Code and all applicable state and federal laws. I understand that the submission of a rental application provides no guarantee for approval of a rental agreement. I also understand that, per Idaho Code 42-201, it is unlawful to divert or use water without a valid water right and that I am not authorized to utilize water as proposed in this application prior to the execution of an approved rental agreement.

George Kelley
Signature of Applicant

George Kelley
Printed Name of Applicant

11-11-16
Date

Signature of Representative

Printed Name of Representative

Date

Mail to:

Idaho Department of Water Resources
P.O. Box 83720
Boise, ID 83720-0098



State of Idaho

DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

June 13, 2017

GEORGE KELLEY
PO BOX 25
ALBION ID 83311

**RE: RENTAL OF WATER FROM THE WATER SUPPLY BANK
WATER RIGHT NO. 45-2746**

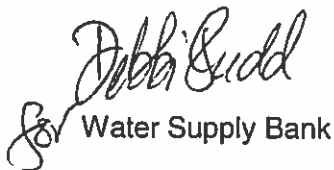
Dear Renter:

Please find enclosed a receipt in the amount of **\$13,283.80** and a copy of a fully executed Water Supply Bank Rental Agreement in connection with the rental of 781.4 acre-feet of water for irrigation of 196.0 acres during 2017. Upon receipt of this fully executed agreement, you are authorized to divert water in compliance with the conditions of water use described in the agreement.

Pursuant to the Water Supply Bank Rules, 90% or \$11,955.42 of the rental fee will be paid to the lessor(s) and 10% or \$1,328.38 will be retained by the Department to offset administrative costs.

If you have any questions, please contact this office at (208) 287-4800.

Sincerely,


Debbie Budd
For Water Supply Bank

Enclosures: Receipt No. S036164
Rental Agreement (copy)

c: Sascha Marston – Fiscal
Corey Skinner – IDWR Southern Regional Office
Brian Higgs – State Water District No. 140
Paul Arrington
Cherie Palmer - IDWR Compliance Bureau E2016-960



State of Idaho

DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

June 6, 2017

GEORGE KELLEY
PO BOX 25
ALBION ID 83311

RE: **APPLICATION TO RENT WATER FROM THE WATER SUPPLY BANK
WATER RIGHT NO. 45-2746**

*****TIME SENSITIVE RESPONSE REQUIRED*****

Dear Applicant:

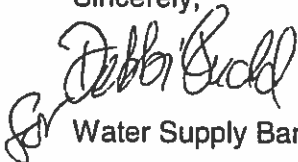
The Department of Water Resources acknowledges receipt of your application to rent water from the Water Supply Bank. **I have enclosed a Water Supply Bank Rental Agreement for your review and signature.** Upon signature and return of the original agreement, together with the rental fee described below, the Department will also sign the original agreement and return an executed copy to you. Execution of the agreement and compliance with the conditions of approval authorize diversion and use of water as provided in the agreement.

A rental fee of \$13,283.80 was calculated based on the current rental rate of \$17.00 per acre-foot times a diversion volume of 781.4 acre-feet. An annual payment shall be received by the Department prior to the execution of this agreement and prior to January 1 in all subsequent years for the duration of the rental period. The agreement will be void if payment is not received prior to the due date in a given year. If you would like to terminate the agreement prior to the end of the rental period, you must submit written notice of your intent to the Department at least 30 days prior to the rental fee due date.

Please send a check for \$13,283.80 made payable to the Idaho Department of Water Resources, together with the signed rental agreement, within 14 days so I can complete processing. Pursuant to the Water Supply Bank Rules, 90% or \$11,955.42 of the rental fee will be paid to the lessor(s) and 10% or \$1,328.38 will be retained by the Department to offset administrative costs.

If you have any questions, please contact this office at (208) 287-4800.

Sincerely,



Water Supply Bank

Enclosure

c: IDWR Front Desk
Paul Arrington – Barker Rosholt & Simpson

MEMORANDUM

To: Right 45-2746
From: Sandra Thiel
Date: June 1, 2017
Re: Review & Analysis of George Kelley's Application to Rent Water from the State Water Supply Bank

PURPOSE/NARRATIVE:

On November 16, 2016, Paul Arrington submitted a rental on George Kelley's behalf. The proposed point-of-diversion is an existing well that provides water for rights 45-4084 and 45-4236. That well is identified in WMIS as A0016835. The application proposed to rent water for five years to irrigate 291 acres in sections 25 and 36, of T11S R24E. The Department issued notice of violation E2016-960 for the place of use.

In January 2017, the Department approved a rental for rights 1-10443, 45-11969, 45-13998 and 45-14000 to cover 51.2 acres. In April Simplot Co. submitted a lease will cover the remaining acres. Mr. Kelley rent right 45-2746 in the past. However, it only provides 0.009 cfs per acre. I requested information to describe how their pivot could operate with such a low rate per acre. (see attached documents for the pivot summary)

According to the information provided by Paul Arrington the pivot flows are 0.22 and 0.23 inches per day or 600 gpm each. They need to cover two pivots for 140.1 and 142.5 acres. The end gun acres are 94.8 and 90.9 respectively. Without the end guns the pivots are 121.7 and 124.7 acres. If Mr. Kelley removed his end guns he would require water for 246.4 acres. Right 45-2746 can only provide 1.96 cfs, 781.4 af and 210 acre. The rental will be limited to irrigation of 196 acres.

According to the information provided by Mr. Kelley's representative Paul Arrington, they can operate their system at 600 gallons per minute. Based on this information the pivot flows for the full 140.1 and 142.5 acres, including end guns, are 0.22 and 0.23 inches per day. Mr. Kelley is trying to cover three pivots. Between his first rental of 51.2 acres and his existing right, one of the pivots is covered. This rental is intended to cover as much of the two remaining pivots as possible.

Given the water right limitations I asked Mr. Arrington to identify the acres they plan to irrigate. On May 22 he respond that they plan to irrigate 120 acres of the center pivot and 76 acres of the south pivot. The place of use received enforcement action E2016-960.

AUTHORITY TO FILE: According to the 2016 Cassia County taxlot, George Bill Kelley owns the proposed place-of-use. Mr. George Kelley signed the application.

WATER RIGHT VALIDITY: Right 45-2746 was leased into the Bank in 2005 and has remained in the Bank. Forfeiture is not an issue.

INJURY TO OTHER WATER RIGHTS: No injury is apparent. Modeling found that no mitigation is required for this right. Lease and rental fall within the Trust Water Area.

ENLARGEMENT OF USE: No enlargement is evident through the rental.

LOCAL PUBLIC INTEREST: Review staff has no information to suggest this application is inconsistent with the local public interest. According to Paul Arrington, Mr. Kelley continues to search for water rights to fill his needs. Currently none are available.

BENEFICIAL USE/CONSERVATION OF WATER RESOURCES: The rental appears consistent with the conservation of water resources in Idaho.

DEPARTMENT STAFF OR WATERMASTER COMMENTS: Neither the region nor the water master responded with concerns.

Thiel, Sandra

From: Paul Arrington <pla@idahowaters.com>
Sent: Monday, May 22, 2017 12:12 PM
To: Thiel, Sandra
Subject: RE: George Kelley

Their priority is the norther pivot (about 106 acres). They will irrigate that with the 51.2 acres under the prior water bank rental and their 57 acres of water rights.

They will irrigate 120 acres on the center pivot and then 76 acres on the south pivot. They will work with the Water Master to identify the specific acres on the south pivot (likely the east side of that pivot).

Paul L. Arrington

Barker Rosholt & Simpson, LLP

208-733-0700 – Office

208-404-9436 – Cell

208-735-2444 – Fax

CONFIDENTIALITY NOTICE: This e-mail and its attachments are confidential and may be privileged. If you believe this e-mail has been sent to you in error, please notify the sender immediately and delete this email. Do not deliver, distribute or copy this transmission.

From: Thiel, Sandra [mailto:Sandra.Thiel@idwr.idaho.gov]
Sent: Thursday, May 18, 2017 11:01 AM
To: Paul Arrington <pla@idahowaters.com>
Subject: RE: George Kelley

Hello, Thank you for providing the sprinkler information. As I mentioned in my previous email the right available for rent provides 0.009 cfs per acre. 4.28 and 4.21 gallons per minute are 0.0095 and 0.0094 respectively. Currently there is 210 acres to rent. At 0.01 cfs per acre the right will provide 196 acres. Can you identify which 196 acres Mr. Kelley plans to irrigate? I will pursue the rental based on the 196 acres.

Sandra Beer Thiel

Idaho Department of Water Resources

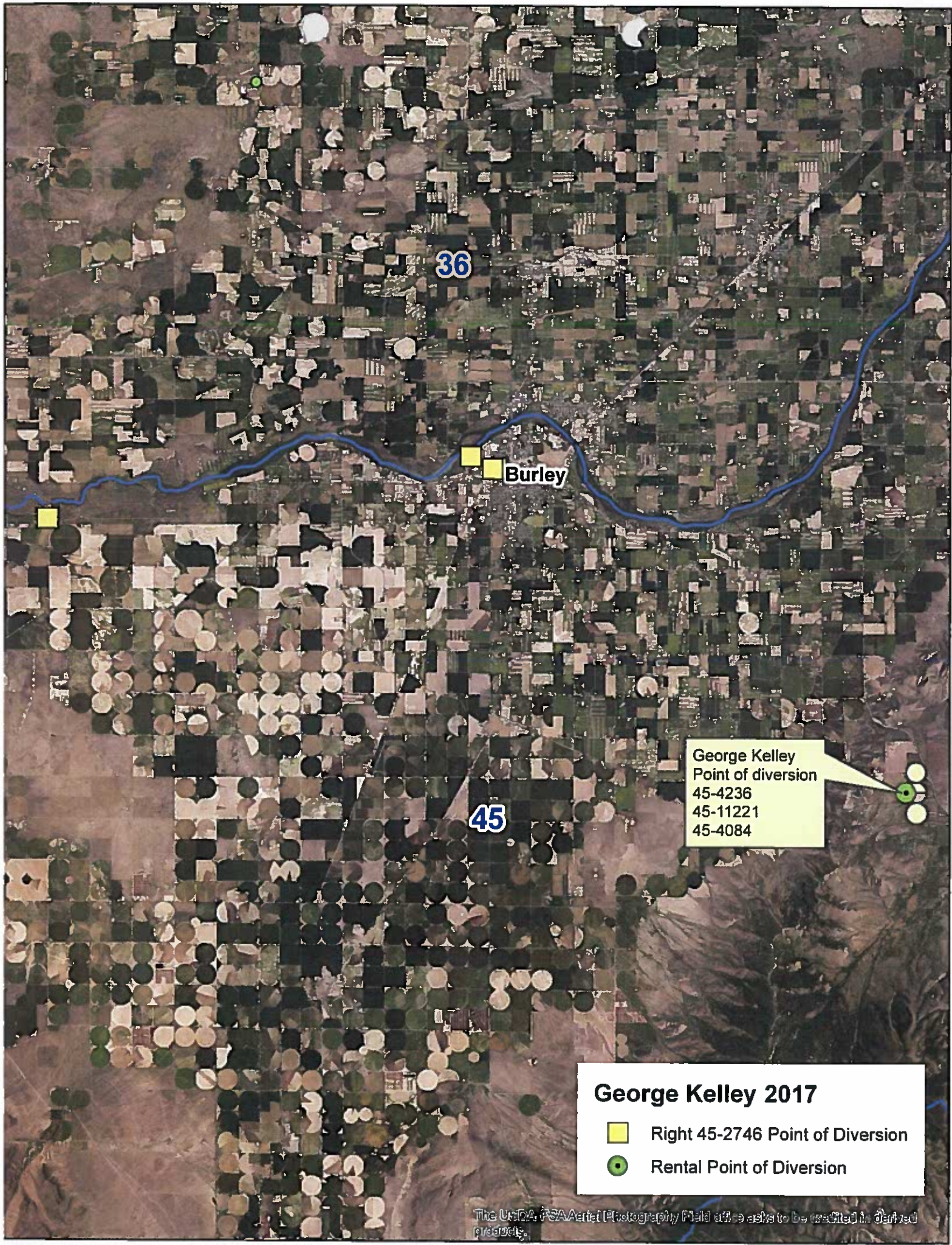
322 East Front Street

Boise, Idaho 83720-0098

(208)287-4881

sandra.thiel@idwr.idaho.gov

From: Paul Arrington [mailto:pla@idahowaters.com]
Sent: Monday, May 15, 2017 11:32 AM
To: Thiel, Sandra <Sandra.Thiel@idwr.idaho.gov>
Cc: Paul Arrington <pla@idahowaters.com>
Subject: RE: George Kelley



36

Burley

45

George Kelley
Point of diversion
45-4236
45-11221
45-4084

George Kelley 2017

-  Right 45-2746 Point of Diversion
-  Rental Point of Diversion

ENHANCED GROUND-WATER RIGHTS TRANSFER

SITY OF IDAHO - IDAHO WATER RESOURCES RESEARCH INSTITUTE

IDAHO DEPA

color are
r user entries

RTING DATE FOR

N. THEN PUSH
ATES" BUTTON

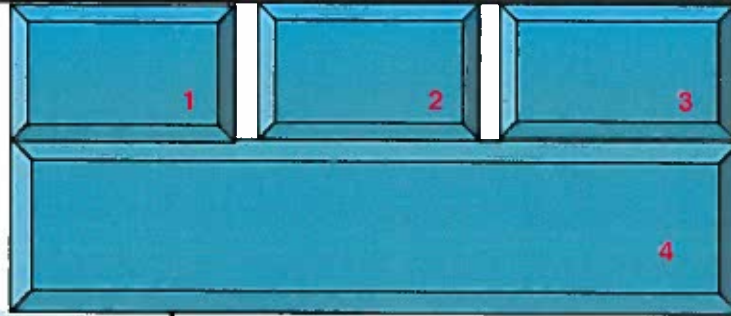
TRANSFER NO:

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TRANSFER NAME:

SUMMER

Kelley2



L LOCATIONS:

'TO' CELL

'FROM1' CELL

'FROM2' CELL

'FROM3' CELL

94

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TO WELL

FROM1 WELL

FROM2 WELL

FROM3 WELL

Projected Use
AF/TRIMESTER

With Transfer
AF/TRIMESTER

Without Transfer
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One-Way Analysis of Independent Transfers

New Water Right (GModelo):

WR No.	Div Rate (CFS)	Con. Vol. (AFA)	No. of Irr. Acres	Priority Date	POD Location	Dedicated Vol. AFA / AFT	Model Node
Transfer 1: Proposed Steady State Impacts following Transfer							
???	???	275.6	68.9	1/1/1960	8S26E-3	275.6 91.9	SP082075
???	???	275.6	68.9	1/1/1960	8S26E-3	275.6 91.9	SP088066
Transfer 1: Worst Case Transient State Impacts following Transfer							
???	???	275.6	68.9	1/1/1960	8S26E-3	275.6 91.9	SP082075
???	???	275.6	68.9	1/1/1960	8S26E-3	275.6 91.9	SP088066

Steady State Analysis

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

Transient State Analysis

Mitigation Check 1 - > 10% of Historical:
Mitigation Check 2: > 2.01 AFT/
Mitigation Required?:
Mitigation Vol. Req'd (ac-ft):

Road M6

Not Used

Impact by Reach (AF/T trimester)

Ashton to Rexburg	Hesse to Shelley	Nr Bickft to Shelley	Nr Bickft to Neeley	Neeley to Minkoka	Dev. Wtd. To Buidl	Kspr to Kspr	Kspr to Malad	Malad to Bancroft
4.09	12.08	36.34	116.16	37.24	34.12	15.94	10.05	9.18
4.09	12.07	36.34	116.15	37.24	34.12	15.94	10.05	9.18
4.09	12.08	36.34	116.16	37.24	34.12	15.94	10.05	9.18
4.09	12.07	36.34	116.15	37.24	37.45	16.84	10.60	9.65

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

Mitigation Check 1 - > 10% of Historical:
Mitigation Check 2: > 2.01 AFT/
Mitigation Required?:
Mitigation Vol. Req'd (ac-ft):



Valley Dealer

Sprinkler Shop Valley/Paul
375 W 100 S
Paul, ID 83347-9999
UNITED STATES

Customer

George Kelley
PO BOX 25
ALBION, ID 83311-0025
USA

Dealer No.

00006494

Field Name

SN 743090

Parent Order No.

Sprinkler Order No. cmckelleygeorgesN74309

0

Plant Idaho DC

Dealer PO

Order Date 05/11/2017

Load Date 05/12/2017

Method Of Shipment UPSG

8 Span Valley Standard Pivot 8000

Machine Flow 600 (GPM)

Pivot Pressure 24 (PSI)

Parent Order No

Dealer Sprinkler Shop Valley/Paul

Sprinkler Order No cmeckelleygeorgesN743090

Customer George Kelley

Field Name SN 743090

Valley Standard Pivot 8000 Machine Summary

Span and Overhang				
Model	Qty	Length (ft)	Pipe O.D. (in)	Coupler Spacing (in)
8000	8	160.0	6 5/8	108
8000	1	18.0	6 5/8	110
		D. U. Qty Profile Tire 18 Standard 14.9 x 24 High Float		

Messages

Caution:
1. Endgun - The SR101 has been discontinued. Please use the Komet Twin 101 Ultra.
Dealer:
None

Sprinkler - Available Outlets

Sprinkler Configuration		Range (ft)
Valley U-Pipe 6(in) Galvanized 3/4 M NPT x 3/4 F NPT		Outlets 4,36,1
Valley Galvanized Drop Variable Length 102(in) Ground Ctr		
Nelson Regulator Blue Threaded 15(PST) 3/4 F NPT		
Nelson R3000 D6 - Red 3/4 M NPT ASSY		



Field Area

140.1 (Ac) Total
121.7 (Ac) Pivot 360°
18.4 (Ac) EG on 100%
1299.0 (ft) Machine Length
94.8 (ft) End Gun Radius

Flow

600 (GPM)
4.28 (GPM per Acre)
0.23 (in per day) App Rate
0.078 (in) App Depth @ 100%
79.6 (GPM) End Gun

Pressure

24 (PSI) Pivot Pressure
Calculated Pressure
0.0 (ft) Highest Elevation
0.0 (ft) Lowest Elevation

LRDU Drive Train

68 RPM Center Drive @ 60 Hz freq.
14.9 x 24 High Float Tire
52:1 Wheel GB Ratio, LRDU Disc
8.2 Hrs/360° @ 100% 16.50 (Ft per Min)

Sprinkler - Available Outlets

Sprinkler Configuration		Range (ft)
Valley U-Pipe 6(in) Galvanized 3/4 M NPT x 3/4 F NPT		Outlets 37,144
Valley Galvanized Drop Variable Length 102(in) Ground Ctr 146,147		
Nelson Regulator Blue Threaded 15(PST) 3/4 F NPT		
Nelson D3000 Fine Flat 30 - Yellow 3/4 M NPT		



Parent Order No

Dealer Sprinkler Shop Valley/Paul

Sprinkler Order No cmckelleygeorgeSN743090

Customer George Kelley

Field Name SN 743090

Valley Standard Pivot 8000 Machine Summary

Pressure Loss

Pipe Length (ft)	Pipe I.D. (in)	Pipe Finish	Loss (PSI)
1299.0	6.42	Galvanized	5.5
Total =			5.5

End Gun(s) & Booster Pump Information



Primary End Gun
Komet SR101 End Gun
0.63 Nozzle
Berkeley 2 HP Booster Pump

Span Flow

Span Number	Irrigated Length (ft)	Area (Ac)	Rqd (GPM)	Act (GPM)	Rqd (GPM per Acre)	Act (GPM per Acre)	% Deviation
1	136.1	1.8	7.7	11.0	4.21	6.02	43.0
2	160.0	5.6	23.4	23.3	4.21	4.20	-0.2
3	160.0	9.3	38.9	39.3	4.21	4.24	0.8
4	160.0	12.9	54.5	54.2	4.21	4.19	-0.5
5	160.0	16.6	70.0	70.1	4.21	4.21	0.1
6	160.0	20.3	85.6	85.9	4.21	4.22	0.3
7	160.0	24.0	101.1	100.8	4.21	4.19	-0.4
8	159.8	27.7	116.5	116.6	4.21	4.21	0.1
O/H	18.1	3.4	15.0	14.7	4.44	4.37	-1.7
EG	94.8	18.4	78.9	79.6	4.28	4.32	1.0
Totals		140		595.5			
Drain Sprinkler			7.4	7.7			
Total Machine Flow			603.2	1.34			

Advanced Options

Drain Sprinkler = Senninger Directional
Last Sprinkler Coverage = 1 ft
Sprinkler Coverage Length = 1300 ft
Use Last Coupler= YES
Minimum Mainline Pressure = 6 PSI

Shipping Options

Ship Drop Hardware
Ship Endgun Nozzle
Do not ship Endgun & Hardware
Do not ship Endgun Valve / Nozzle Valve Hardware
Do not ship Boosterpump Hardware

Parent Order No

Dealer Sprinkler Shop Valley/Paul
Customer George Kelley
Field Name SN 743090

Sprinkler Order No cmckelleygeorgeSN743090

Valley Standard Pivot 8000 Machine Sprinkler Chart

Cpl No	Dist From Pivot (ft)	Spk No	Dist Last Spk (ft)	Nozzle Size	Color	Spk Model	Wear Pad	Drop Length (in)	Regulator	Line (PSI)	Spk (PSI)	Rqd (GPM)	Act (GPM)
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1	5.4			Gauge						24.0			
2	14.4			Plug									
3	23.4			Plug									

Sprinkler : Nelson Rotator Assembly



4	32.4	1		14	Lime	R3000	D6 - Red	66	Blue Threaded 15L	23.3	16.5	0.3	1.4
5	41.4			Plug									
6	49.9	2		14	Lime	R3000	D6 - Red	72	Blue Threaded 15L	23.0	16.4	0.5	1.4
7	58.3			Plug									
8	66.8	3		14	Lime	R3000	D6 - Red	78	Blue Threaded 15L	22.7	16.4	0.7	1.4
9	75.3			Plug									
10	84.3	4		14	Lime	R3000	D6 - Red	78	Blue Threaded 15L	22.6	16.3	0.9	1.3
11	93.3			Plug									
12	102.3	5		14	Lime	R3000	D6 - Red	78	Blue Threaded 15L	22.5	16.3	1.1	1.3
13	111.3			Plug									
14	120.2	6		14	Lime	R3000	D6 - Red	72	Blue Threaded 15L	22.5	16.2	1.3	1.3
15	129.2			Plug									
16	138.2	7		15	Lime/Lavender	R3000	D6 - Red	66	Blue Threaded 15L	22.6	16.1	1.5	1.6
17	147.2			Plug									
18	156.2	8		16	Lavender	R3000	D6 - Red	54	Blue Threaded 15L	22.8	16.1	1.7	1.8

Tower Number : 1 Soan Length(ft) : 159.8

19	165.5			Plug									
20	174.5	9		17	Lavender/Gray	R3000	D6 - Red	60	Blue Threaded 15L	22.5	16.0	1.9	2.0
21	183.5			Plug									
22	192.5	10		17	Lavender/Gray	R3000	D6 - Red	72	Blue Threaded 15L	22.1	16.0	2.1	2.0
23	201.5			Plug									
24	210.0	11		18	Gray	R3000	D6 - Red	72	Blue Threaded 15L	21.8	15.9	2.2	2.2
25	218.4			Plug									
26	226.8	12		19	Gray/Turquoise	R3000	D6 - Red	78	Blue Threaded 15L	21.6	15.9	2.4	2.5
27	235.3			Plug									
28	244.3	13		19	Gray/Turquoise	R3000	D6 - Red	78	Blue Threaded 15L	21.5	15.8	2.6	2.5

Parent Order No

Dealer Sprinkler Shop Valley/Paul

Sprinkler Order No cmckelleygeorgesn743090

Customer George Kelley
Field Name SN 743090

Valley Standard Pivot 8000 Machine Sprinkler Chart

Cpl No	Dist From Pivot (ft)	Spk No	Dist Last Spk (ft)	Nozzle Size	Color	Spk Model	Wear Pad	Drop Length (in)	Regulator	Line (PSI)	Spk (PSI)	Rqd (GPM)	Act (GPM)
29	253.3	14	18.0	Plug 21	Turg/Yellow	R3000	D6 - Red	78	Blue Threaded 15L	21.4	15.7	2.9	3.0
30	262.3	15	17.9	Plug 21	Turg/Yellow	R3000	D6 - Red	72	Blue Threaded 15L	21.4	15.7	3.1	3.0
31	271.3	16	18.0	Plug 22	Yellow	R3000	D6 - Red	66	Blue Threaded 15L	21.6	15.6	3.3	3.3
32	280.2	17	18.0	Plug 19	Gray/Turquoise	R3000	D6 - Red	54	Blue Threaded 15L	21.8	15.8	2.6	2.5
33	289.2	18	9.3	16	Lavender	D3000 Fine	Yellow	60	Blue Threaded 15L	21.7	16.0	1.8	1.8
34	298.2	19	9.0	17	Lavender/Gray	D3000 Fine	Yellow	60	Blue Threaded 15L	21.5	16.0	1.8	2.0
35	307.2	20	9.0	17	Lavender/Gray	D3000 Fine	Yellow	66	Blue Threaded 15L	21.3	16.0	1.9	2.0
36	316.2	21	9.0	16	Lavender	D3000 Fine	Yellow	72	Blue Threaded 15L	21.1	16.0	1.9	1.8
37	325.5	22	9.0	17	Lavender/Gray	D3000 Fine	Yellow	72	Blue Threaded 15L	20.9	16.0	1.9	2.0
38	334.5	23	8.5	17	Lavender/Gray	D3000 Fine	Yellow	78	Blue Threaded 15L	20.8	16.0	1.9	2.0
39	343.5	24	8.4	16	Lavender	D3000 Fine	Yellow	78	Blue Threaded 15L	20.7	16.0	1.9	1.8
40	352.5	25	8.4	17	Lavender/Gray	D3000 Fine	Yellow	78	Blue Threaded 15L	20.6	16.0	2.0	2.0
41	361.5	26	8.5	18	Gray	D3000 Fine	Yellow	78	Blue Threaded 15L	20.5	15.9	2.1	2.2
42	370.0	27	9.0	18	Gray	D3000 Fine	Yellow	78	Blue Threaded 15L	20.5	15.9	2.2	2.2
43	378.4	28	9.0	18	Gray	D3000 Fine	Yellow	78	Blue Threaded 15L	20.4	15.9	2.3	2.2
44	386.8	29	9.0	18	Gray	D3000 Fine	Yellow	78	Blue Threaded 15L	20.4	15.9	2.3	2.2
45	395.3	30	9.0	19	Gray/Turquoise	D3000 Fine	Yellow	72	Blue Threaded 15L	20.5	15.8	2.3	2.5
46	404.3	31	8.9	19	Gray/Turquoise	D3000 Fine	Yellow	72	Blue Threaded 15L	20.5	15.8	2.4	2.5
47	413.3	32	9.0	19	Gray/Turquoise	D3000 Fine	Yellow	72	Blue Threaded 15L	20.5	15.8	2.5	2.5
48	422.3	33	9.0	19	Gray/Turquoise	D3000 Fine	Yellow	66	Blue Threaded 15L	20.6	15.8	2.5	2.5
49	431.3	34	9.0	19	Gray/Turquoise	D3000 Fine	Yellow	60	Blue Threaded 15L	20.7	15.8	2.6	2.5
50	440.2	35	9.0	20	Turquoise	D3000 Fine	Yellow	60	Blue Threaded 15L	20.9	15.8	2.6	2.8
51	449.2	36	9.3	20	Turquoise	D3000 Fine	Yellow	60	Blue Threaded 15L	20.8	15.8	2.7	2.8
52	458.2	37	9.0	19	Gray/Turquoise	D3000 Fine	Yellow	60	Blue Threaded 15L	20.6	15.8	2.7	2.5
53	467.2	38	9.0	19	Gray/Turquoise	D3000 Fine	Yellow	60	Blue Threaded 15L	20.7	15.8	2.6	2.5
54	476.2	39	9.0	20	Turquoise	D3000 Fine	Yellow	60	Blue Threaded 15L	20.9	15.8	2.6	2.8
55	485.6	40	9.3	20	Turquoise	D3000 Fine	Yellow	60	Blue Threaded 15L	20.8	15.8	2.7	2.8
56	494.6	41	9.0	19	Gray/Turquoise	D3000 Fine	Yellow	60	Blue Threaded 15L	20.6	15.8	2.7	2.5

Sprinkler : Nelson Spray



Tower Number : 3 Span Length(ft) : 160.0

Parent Order No

Dealer Sprinkler Shop Valley/Paul

Sprinkler Order No cmckelleygeorgeSN743090

Customer George Kelley

Field Name SN 743090

Valley Standard Pivot 8000 Machine Sprinkler Chart

Cpl No	Dist From Pivot	Spk No	Dist Last Spk	Nozzle Size	Color	Spk Model	Wear Pad	Drop Length (in)	Regulator	Line (PSI)	Spk (PSI)	Rqd (GPM)	Act (GPM)
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57	503.6	38	9.0	20	Turquoise	D3000 Fine	Yellow	66	Blue Threaded 15L	20.4	15.7	2.8	2.7
58	512.6	39	9.0	20	Turquoise	D3000 Fine	Yellow	72	Blue Threaded 15L	20.2	15.7	2.8	2.7
59	521.6	40	9.0	20	Turquoise	D3000 Fine	Yellow	72	Blue Threaded 15L	20.0	15.7	2.8	2.7
60	530.1	41	8.5	20	Turquoise	D3000 Fine	Yellow	78	Blue Threaded 15L	19.9	15.7	2.7	2.7
61	538.5	42	8.4	20	Turquoise	D3000 Fine	Yellow	78	Blue Threaded 15L	19.8	15.7	2.8	2.7
62	546.9	43	8.4	20	Turquoise	D3000 Fine	Yellow	78	Blue Threaded 15L	19.7	15.7	2.8	2.7
63	555.4	44	8.5	21	Turq/Yellow	D3000 Fine	Yellow	78	Blue Threaded 15L	19.6	15.6	3.0	3.0
64	564.4	45	9.0	22	Yellow	D3000 Fine	Yellow	78	Blue Threaded 15L	19.6	15.6	3.1	3.3
65	573.4	46	9.0	21	Turq/Yellow	D3000 Fine	Yellow	78	Blue Threaded 15L	19.6	15.6	3.1	3.0
66	582.4	47	9.0	22	Yellow	D3000 Fine	Yellow	78	Blue Threaded 15L	19.6	15.6	3.2	3.3
67	591.4	48	9.0	22	Yellow	D3000 Fine	Yellow	78	Blue Threaded 15L	19.6	15.6	3.2	3.3
68	600.3	49	8.9	22	Yellow	D3000 Fine	Yellow	72	Blue Threaded 15L	19.6	15.6	3.3	3.3
69	609.3	50	9.0	22	Yellow	D3000 Fine	Yellow	72	Blue Threaded 15L	19.7	15.6	3.3	3.3
70	618.3	51	9.0	22	Yellow	D3000 Fine	Yellow	66	Blue Threaded 15L	19.8	15.5	3.4	3.3
71	627.3	52	9.0	22	Yellow	D3000 Fine	Yellow	60	Blue Threaded 15L	19.9	15.5	3.4	3.3
72	636.3	53	9.0	23	Yellow/Red	D3000 Fine	Yellow	60	Blue Threaded 15L	20.1	15.5	3.5	3.6

Tower Number : 4 Span Length(ft) : 160.0

73	645.6	54	9.3	23	Yellow/Red	D3000 Fine	Yellow	60	Blue Threaded 15L	20.0	15.5	3.6	3.6
74	654.6	55	9.0	23	Yellow/Red	D3000 Fine	Yellow	60	Blue Threaded 15L	19.8	15.4	3.6	3.6
75	663.6	56	9.0	23	Yellow/Red	D3000 Fine	Yellow	66	Blue Threaded 15L	19.6	15.4	3.6	3.6
76	672.6	57	9.0	24	Red	D3000 Fine	Yellow	72	Blue Threaded 15L	19.4	15.4	3.7	3.9
77	681.6	58	9.0	23	Yellow/Red	D3000 Fine	Yellow	72	Blue Threaded 15L	19.3	15.5	3.6	3.6
78	690.1	59	8.5	23	Yellow/Red	D3000 Fine	Yellow	78	Blue Threaded 15L	19.2	15.5	3.5	3.6
79	698.5	60	8.4	23	Yellow/Red	D3000 Fine	Yellow	78	Blue Threaded 15L	19.1	15.5	3.6	3.6
80	706.9	61	8.4	23	Yellow/Red	D3000 Fine	Yellow	78	Blue Threaded 15L	19.0	15.4	3.6	3.6
81	715.4	62	8.5	24	Red	D3000 Fine	Yellow	78	Blue Threaded 15L	18.9	15.4	3.8	3.9
82	724.4	63	9.0	24	Red	D3000 Fine	Yellow	78	Blue Threaded 15L	18.9	15.4	4.0	3.9
83	733.4	64	9.0	24	Red	D3000 Fine	Yellow	78	Blue Threaded 15L	18.9	15.3	4.0	3.9
84	742.4	65	9.0	25	Red/White	D3000 Fine	Yellow	78	Blue Threaded 15L	18.9	15.3	4.1	4.2
85	751.4	66	9.0	25	Red/White	D3000 Fine	Yellow	78	Blue Threaded 15L	18.9	15.3	4.1	4.2
86	760.3	67	8.9	24	Red	D3000 Fine	Yellow	72	Blue Threaded 15L	19.0	15.3	4.1	3.9
87	769.3	68	9.0	25	Red/White	D3000 Fine	Yellow	72	Blue Threaded 15L	19.1	15.3	4.2	4.2
88	778.3	69	9.0	25	Red/White	D3000 Fine	Yellow	66	Blue Threaded 15L	19.2	15.3	4.3	4.2

Parent Order No

Dealer Sprinkler Shop Valley/Paul

Sprinkler Order No cmckelleygeorgeSN743090

Customer George Kelley

Field Name SN 743090

Valley Standard Pivot 8000 Machine Sprinkler Chart

Cpl No	Dist From Pivot	Spk No	Dist Last Spk	Nozzle Size	Color	Spk Model	Wear Pad	Drop Length (in)	Regulator	Line (PSI)	Spk (PSI)	Rqd (GPM)	Act (GPM)
89	787.3	70	9.0	25	Red/white	D3000 Fine	Yellow	60	Blue Threaded 15L	19.3	15.3	4.3	4.2
90	796.3	71	9.0	26	white	D3000 Fine	Yellow	60	Blue Threaded 15L	19.4	15.3	4.4	4.6
Tower Number : 5 Span Length(ft) : 160.0													
91	805.6	72	9.3	26	white	D3000 Fine	Yellow	60	Blue Threaded 15L	19.4	15.3	4.5	4.6
92	814.6	73	9.0	26	white	D3000 Fine	Yellow	60	Blue Threaded 15L	19.2	15.3	4.5	4.6
93	823.6	74	9.0	26	white	D3000 Fine	Yellow	66	Blue Threaded 15L	19.0	15.3	4.5	4.6
94	832.6	75	9.0	26	white	D3000 Fine	Yellow	72	Blue Threaded 15L	18.9	15.3	4.5	4.6
95	841.6	76	9.0	25	Red/white	D3000 Fine	Yellow	72	Blue Threaded 15L	18.7	15.3	4.5	4.2
96	850.1	77	8.5	25	Red/white	D3000 Fine	Yellow	78	Blue Threaded 15L	18.6	15.3	4.4	4.2
97	858.6	78	8.4	26	white	D3000 Fine	Yellow	78	Blue Threaded 15L	18.5	15.3	4.4	4.6
98	867.0	79	8.4	26	white	D3000 Fine	Yellow	78	Blue Threaded 15L	18.4	15.3	4.5	4.6
99	875.5	80	8.5	26	white	D3000 Fine	Yellow	78	Blue Threaded 15L	18.4	15.3	4.7	4.6
100	884.5	81	9.0	27	White/Blue	D3000 Fine	Yellow	78	Blue Threaded 15L	18.4	15.3	4.8	4.9
101	893.5	82	9.0	27	White/Blue	D3000 Fine	Yellow	78	Blue Threaded 15L	18.4	15.3	4.9	4.9
102	902.5	83	9.0	27	White/Blue	D3000 Fine	Yellow	78	Blue Threaded 15L	18.4	15.3	4.9	4.9
103	911.5	84	9.0	27	White/Blue	D3000 Fine	Yellow	78	Blue Threaded 15L	18.4	15.3	5.0	4.9
104	920.4	85	8.9	27	White/Blue	D3000 Fine	Yellow	72	Blue Threaded 15L	18.5	15.2	5.0	4.9
105	929.4	86	9.0	27	White/Blue	D3000 Fine	Yellow	72	Blue Threaded 15L	18.6	15.2	5.1	4.9
106	938.4	87	9.0	26	Blue	D3000 Fine	Yellow	66	Blue Threaded 15L	18.7	15.2	5.1	5.3
107	947.4	88	9.0	28	Blue	D3000 Fine	Yellow	60	Blue Threaded 15L	18.8	15.2	5.2	5.3
108	956.4	89	9.0	28	Blue	D3000 Fine	Yellow	60	Blue Threaded 15L	19.0	15.2	5.3	5.3
Tower Number : 6 Span Length(ft) : 160.0													
109	965.7	90	9.3	28	Blue	D3000 Fine	Yellow	60	Blue Threaded 15L	19.0	15.2	5.4	5.3
110	974.7	91	9.0	28	Blue	D3000 Fine	Yellow	60	Blue Threaded 15L	18.8	15.2	5.3	5.3
111	983.7	92	9.0	28	Blue	D3000 Fine	Yellow	66	Blue Threaded 15L	18.6	15.2	5.4	5.3
112	992.7	93	9.0	28	Blue	D3000 Fine	Yellow	72	Blue Threaded 15L	18.5	15.2	5.4	5.3
113	1001.7	94	9.0	28	Blue	D3000 Fine	Yellow	72	Blue Threaded 15L	18.3	15.2	5.3	5.3
114	1010.2	95	8.5	28	Blue	D3000 Fine	Yellow	78	Blue Threaded 15L	18.2	15.2	5.2	5.3
115	1018.6	96	8.4	27	White/Blue	D3000 Fine	Yellow	78	Blue Threaded 15L	18.2	15.2	5.2	4.9
116	1027.0	97	8.4	28	Blue	D3000 Fine	Yellow	78	Blue Threaded 15L	18.1	15.2	5.3	5.3
117	1035.5	98	8.5	28	Blue	D3000 Fine	Yellow	78	Blue Threaded 15L	18.1	15.2	5.5	5.3
118	1044.5	99	9.0	29	Blue/Dark Brown	D3000 Fine	Yellow	78	Blue Threaded 15L	18.0	15.2	5.7	5.7
119	1053.5	100	9.0	29	Blue/Dark Brown	D3000 Fine	Yellow	78	Blue Threaded 15L	18.0	15.2	5.8	5.7

Parent Order No

Dealer Sprinkler Shop Valley/Paul

Sprinkler Order No cmckelleygeorgeSN743090

Customer George Kelley

Field Name SN 743090

Valley Standard Pivot 8000 Machine Sprinkler Chart

Cpl No	Dist From Pivot	Spk No	Dist Last Spk	Nozzle Size	Color	Spk Model	Wear Pad	Drop Length (in)	Regulator	Line (PSI)	Spk (PSI)	Rqd (GPM)	Act (GPM)
120	1062.5	101	9.0	30	Dark Brown	D3000 Fine	Yellow	78	Blue Threaded 15L	18.1	15.2	5.8	6.1
121	1071.5	102	9.0	29	Blue/Dark Brown	D3000 Fine	Yellow	78	Blue Threaded 15L	18.1	15.2	5.8	5.7
122	1080.4	103	8.9	30	Dark Brown	D3000 Fine	Yellow	72	Blue Threaded 15L	18.2	15.2	5.9	6.1
123	1089.4	104	9.0	29	Blue/Dark Brown	D3000 Fine	Yellow	72	Blue Threaded 15L	18.3	15.2	6.0	5.7
124	1098.4	105	9.0	30	Dark Brown	D3000 Fine	Yellow	66	Blue Threaded 15L	18.4	15.1	6.0	6.1
125	1107.4	106	9.0	30	Dark Brown	D3000 Fine	Yellow	60	Blue Threaded 15L	18.6	15.1	6.1	6.1
126	1116.4	107	9.0	30	Dark Brown	D3000 Fine	Yellow	60	Blue Threaded 15L	18.7	15.1	6.2	6.1
1121.1 Tower Number : 7 Span Length(ft) : 160.0													
127	1125.7	108	9.3	31	Dk Brown/Orange	D3000 Fine	Yellow	60	Blue Threaded 15L	18.7	15.1	6.3	6.4
128	1134.7	109	9.0	30	Dark Brown	D3000 Fine	Yellow	60	Blue Threaded 15L	18.5	15.1	6.2	6.1
129	1143.7	110	9.0	31	Dk Brown/Orange	D3000 Fine	Yellow	66	Blue Threaded 15L	18.4	15.1	6.2	6.4
130	1152.7	111	9.0	30	Dark Brown	D3000 Fine	Yellow	72	Blue Threaded 15L	18.2	15.1	6.3	6.1
131	1161.7	112	9.0	30	Dark Brown	D3000 Fine	Yellow	72	Blue Threaded 15L	18.1	15.1	6.2	6.1
132	1170.2	113	8.5	30	Dark Brown	D3000 Fine	Yellow	78	Blue Threaded 15L	18.0	15.1	6.0	6.1
133	1178.6	114	8.4	30	Dark Brown	D3000 Fine	Yellow	78	Blue Threaded 15L	18.0	15.1	6.0	6.1
134	1187.1	115	8.4	30	Dark Brown	D3000 Fine	Yellow	78	Blue Threaded 15L	17.9	15.1	6.1	6.1
135	1195.6	116	8.5	31	Dk Brown/Orange	D3000 Fine	Yellow	78	Blue Threaded 15L	17.9	15.1	6.4	6.4
136	1204.6	117	9.0	31	Dk Brown/Orange	D3000 Fine	Yellow	78	Blue Threaded 15L	17.9	15.1	6.6	6.4
137	1213.6	118	9.0	31	Dk Brown/Orange	D3000 Fine	Yellow	78	Blue Threaded 15L	17.9	15.1	6.6	6.4
138	1222.6	119	9.0	32	Orange	D3000 Fine	Yellow	78	Blue Threaded 15L	17.9	15.1	6.7	6.9
139	1231.6	120	9.0	32	Orange	D3000 Fine	Yellow	78	Blue Threaded 15L	18.0	15.1	6.7	6.9
140	1240.5	121	8.9	31	Dk Brown/Orange	D3000 Fine	Yellow	72	Blue Threaded 15L	18.1	15.1	6.7	6.4
141	1249.5	122	9.0	32	Orange	D3000 Fine	Yellow	72	Blue Threaded 15L	18.2	15.1	6.8	6.9
142	1258.5	123	9.0	32	Orange	D3000 Fine	Yellow	66	Blue Threaded 15L	18.3	15.1	6.9	6.9
143	1267.5	124	9.0	32	Orange	D3000 Fine	Yellow	60	Blue Threaded 15L	18.5	15.1	6.9	6.9
144	1276.5	125	9.0	32	Orange	D3000 Fine	Yellow	60	Blue Threaded 15L	18.7	15.1	6.9	6.9
145	1280.2				B.P.								
1280.9 Tower Number : 8 Span Length(ft) : 159.8													
146	1285.2	126	8.8	32	Orange	D3000 Fine	Yellow	54	Blue Threaded 15L	18.7	15.1	7.0	6.9
147	1294.4	127	9.2	34	Dark Green	D3000 Fine	Yellow	60	Blue Threaded 15L	18.5	15.0	8.0	7.8

Sprinkler : Seeminger Spray

Parent Order No

Dealer Sprinkler Shop Valley/Paul
Customer George Kelley
Field Name SN 743090

Sprinkler Order No cmckelleygeorgeSN743090

Valley Standard Pivot 8000 Machine Sprinkler Chart

Cpl No	Dist From Pivot	Spk No	Dist Last Spk	Nozzle Size	Color	Spk Model	Wear Pad	Drop Length (In)	Regulator	Line (PSI)	Spk (PSI)	Rqd (GPM)	Act (GPM)
148	1298.0	128		16	Orange					18.3	18.3	7.4	7.7
	1299.0			Overhang	Span Length(ft)	: 18.1							
----- Sprinkler : Komet Endgun ----- 													
149	1299.0	129		0.63		SR101				18.3	50.8	78.9	79.6

Primary Endgun Arc Settings: Forward Angle: 45 Reverse Angle: 85

603.1

Dealer Sprinkler Shop Valley/Paul
Customer George Kelley
Field Name SN 743090



Sprinkler Order No cmckelleygeorgesSN743090
Parent Order No

Valley Standard Pivot 8000 Percent Timer Data

Setup Information - Valley Computer Control Panel Water Application Constants: Minimum Application = 0.078 (in) Hours Per Revolution = 8.2

Based on IN

IN Per 360 degrees	Pivot % Timer	Hours Per 360 degrees
0.078	100.0	8.2
0.10	77.6	10.6
0.20	38.8	21.1
0.30	25.9	31.7
0.40	19.4	42.3
0.50	15.5	52.9
0.60	12.9	63.6
0.70	11.1	73.9
0.80	9.7	84.5
0.90	8.6	95.3
1.00	7.8	105.1
1.25	6.2	132.3
1.50	5.2	157.7

Based on % Timer

Pivot % Timer	IN Per 360 degrees	Hours Per 360 degrees
100.0	0.078	8.2
90.0	0.09	9.1
80.0	0.10	10.3
70.0	0.11	11.7
60.0	0.13	13.7
50.0	0.16	16.4
45.0	0.17	18.2
40.0	0.19	20.5
35.0	0.22	23.4
30.0	0.26	27.3
25.0	0.31	32.8
20.0	0.39	41.0
17.5	0.44	46.9
15.0	0.52	54.7
12.5	0.62	65.6
10.0	0.78	82.0
7.5	1.03	109.3
5.0	1.55	164.0

Field Area

140.1 (Ac) Total
121.7 (Ac) Pivot 360°
18.4 (Ac) EG on 100%
1299.0 (ft) Machine Length
94.8 (ft) End Gun Radius

Flow

600 (GPM)
4.28 (GPM per Acre)
0.23 (in per day) App Rate
0.078 (in) App Depth @ 100%
79.6 (GPM) End Gun

Pressure

24 (PSI) Pivot Pressure
Calculated Pressure
0.0 (ft) Highest Elevation
0.0 (ft) Lowest Elevation

LRDU Drive Train

68 RPM Center Drive @ 60 Hz freq.
14.9 x 24 High Float Tire
52:1 Wheel GB Ratio, LRDU Dist 1280.9 (ft)
8.2 Hrs/360 @ 100% (16.50) (Ft per Min)

Disclaimer

The information presented in the attached Percent Timer Report is based on variables which cannot be totally controlled by Valmont (including, but not limited to: pivot pressure, inside pipeline surface, end gun throw, end gun arc setting, tire slippage, tire pressure, field slopes, soil variations, sprinkler package installation, well capacity, center drive motor voltage, center drive motor frequency, climatic conditions and other elements and circumstances beyond Valmont's reasonable control). Valmont recommends monitoring the machine for at least one pass through field to obtain an accurate rotation time.



Valley Dealer

Sprinkler Shop Valley/Paul
375 W 100 S
Paul, ID 83347-9999
UNITED STATES

Customer

George Kelley
PO BOX 25
ALBION, ID 83311-0025
USA

Dealer No.

00006494

Field Name

SN 2297793

Parent Order No.

Sprinkler Order No. cmckelleygeorgesN22979

3

Plant Idaho DC

Dealer PO

Order Date 05/11/2017

Load Date 05/12/2017

Method Of Shipment UPSG

8 Span Valley Standard Pivot 8000

Machine Flow 600 (GPM)

Pivot Pressure 24 (PSI)

Parent Order No

Dealer Sprinkler Shop Valley/Paul
Customer George Kelley
Field Name SN 2297793

Sprinkler Order No emkelleygeorgSN229793

Valley Standard Pivot 8000 Machine Summary

Span and Overhang			
Model	Qty	Pipe Length (ft)	O.D. (in)
6000	6	164.0	6 5/8
6000	2	146.0	6 5/8
6000	1	36.0	6
		Coupler Spacing (in)	D. U. Profile Tire
		110	18 Standard 14.9 x 24 High Float
		110	16 Standard 14.9 x 24 High Float
		110	6

Messages

Caution:
None

Dealer:
None

Sprinkler - Available Outlets

Sprinkler Configuration		Range (ft)
Valley U-Pipe 6(in) Galvanized 3/4 M NPT x 3/4 F NPT		Outlets 4,36,1
Valley Galvanized Drop Variable Length 102(in) Ground Clr		
Nelson Regulator Blue Threaded 15(PST) 3/4 F NPT		
Nelson R3000 D6 - Red 3/4 M NPT ASSY		



Field Area

142.5 (Ac) Total
124.7 (Ac) Pivot 360°
17.8 (Ac) EG on 100%
1314.7 (ft) Machine Length
90.9 (ft) End Gun Radius

Flow

600 (GPM)
4.21 (GPM per Acre)
0.22 (in per day) App Rate
0.075 (in) App Depth @ 100%
74.0 (GPM) End Gun

Pressure

24 (PSI) Pivot Pressure
Calculated Pressure
0.0 (ft) Highest Elevation
0.0 (ft) Lowest Elevation

LRDU Drive Train

68 RPM Center Drive @ 60 Hz freq.
14.9 x 24 High Float Tire
52:1 Wheel GB Ratio, LRDU Dist
8.1 Hrs/360° @ 100% 16.50 (Ft per Min)

Sprinkler - Available Outlets

Sprinkler Configuration		Range (ft)
Valley U-Pipe 6(in) Galvanized 3/4 M NPT x 3/4 F NPT		Outlets 37,140
Valley Galvanized Drop Variable Length 102(in) Ground Clr		142,143
Nelson Regulator Blue Threaded 15(PST) 3/4 F NPT		145,146
Nelson D3000 Fine Flat 30 - Yellow 3/4 M NPT		



Parent Order No

Dealer Sprinkler Shop Valley/Paul

Sprinkler Order No cmckelleygeorgeSN229793

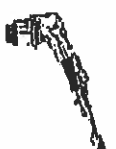
Customer George Kelley
Field Name SN 2297793

Valley Standard Pivot 8000 Machine Summary

Pressure Loss

Pipe Length (ft)	Pipe I.D. (in)	Pipe Finish	C-Factor	Loss (PSI)
1278.5	6.41	Galvanized	150	5.3
36.2	5.79	Galvanized	150	0.6
Total =				5.9

End Gun(s) & Booster Pump Information

	Primary End Gun Nelson SR100 End Gun 0.6 Nozzle Berkeley 2 HP Booster Pump
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Span Flow

Span Number	Irrigated Length (ft)	Area (Ac)	Rqd (GPM)	Act (GPM)	Rqd (GPM per Acre)	Act (GPM per Acre)	% Deviation
1	140.4	1.9	7.9	11.0	4.15	5.74	38.3
2	164.3	5.8	24.3	24.1	4.15	4.13	-0.5
3	164.3	9.7	40.5	40.7	4.15	4.18	0.5
4	164.3	13.6	56.6	56.6	4.15	4.15	-0.1
5	164.3	17.5	72.8	72.8	4.15	4.15	-0.0
6	164.3	21.4	89.0	89.2	4.15	4.16	0.2
7	146.2	22.3	92.8	92.4	4.15	4.13	-0.5
8	146.2	25.4	105.6	106.0	4.15	4.17	0.4
O/H	36.2	6.8	28.9	28.5	4.27	4.21	-1.5
EG	90.9	17.8	75.0	74.0	4.21	4.15	-1.3
Totals		142.2		595.3			
Drain Sprinkler			7.3	7.6			
Total Machine Flow			602.9	1.34			

Advanced Options

Drain Sprinkler = Sennlinger Directional
Last Sprinkler Coverage = 1 ft
Sprinkler Coverage Length = 1315.7 ft
Use Last Coupler= YES
Minimum Mainline Pressure = 6 PSI

Shipping Options

Ship Drop Hardware
Ship Endgun Nozzle
Ship Endgun & Hardware
Do not ship Endgun Valve / Nozzle Valve Hardware
Do not ship Boosterpump Hardware

Parent Order No

Dealer Sprinkler Shop Valley/Paul

Sprinkler Order No cmckelleygeorgeSN229793

Customer George Kelley

Field Name SN 2297793

Valley Standard Pivot 8000 Machine Sprinkler Chart

Cpl No	Dist From Pivot (ft)	Spk No	Dist Last Spk (ft)	Nozzle Size	Color	Spk Model	Wear Pad	Drop Length (in)	Regulator	Line (PSI)	Spk (PSI)	Rqd (GPM)	Act (GPM)
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1 4.6 Gauge
2 13.7 Plug
3 22.9 Plug

24.0

Sprinkler : Nelson Rotator Assembly

4	32.1	1	14	Time	R3000	D6 - Red	66	Blue Threaded 15L	23.3	16.4	0.4	1.4
5	41.1	Plug										
6	50.3	2	14	Time	R3000	D6 - Red	72	Blue Threaded 15L	22.9	16.4	0.6	1.4
7	59.4	Plug										
8	68.6	3	14	Time	R3000	D6 - Red	78	Blue Threaded 15L	22.6	16.4	0.8	1.4
9	77.7	Plug										
10	86.9	4	14	Time	R3000	D6 - Red	78	Blue Threaded 15L	22.5	16.3	0.9	1.3
11	95.8	Plug										
12	105.0	5	14	Time	R3000	D6 - Red	78	Blue Threaded 15L	22.4	16.3	1.1	1.3
13	114.1	Plug										
14	123.2	6	14	Time	R3000	D6 - Red	72	Blue Threaded 15L	22.4	16.2	1.3	1.3
15	132.3	Plug										
16	141.5	7	15	Time/Lavender	R3000	D6 - Red	66	Blue Threaded 15L	22.6	16.1	1.5	1.6
17	150.7	Plug										
18	159.8	8	16	Lavender	R3000	D6 - Red	54	Blue Threaded 15L	22.8	16.1	1.8	1.8
19	168.9	Plug										
20	178.1	9	17	Lavender/Gray	R3000	D6 - Red	60	Blue Threaded 15L	22.5	16.0	2.0	2.0
21	187.2	Plug										
22	196.4	10	18	Gray	R3000	D6 - Red	72	Blue Threaded 15L	22.0	16.0	2.2	2.2
23	205.5	Plug										
24	214.6	11	18	Gray	R3000	D6 - Red	78	Blue Threaded 15L	21.7	15.9	2.3	2.2
25	223.8	Plug										
26	232.9	12	19	Gray/Turquoise	R3000	D6 - Red	78	Blue Threaded 15L	21.4	15.8	2.6	2.5
27	242.0	Plug										
28	251.2	13	20	Turquoise	R3000	D6 - Red	78	Blue Threaded 15L	21.3	15.8	2.7	2.8

Tower Number : 1 Span Length(ft) : 163.3

Parent Order No

Dealer Sprinkler Shop Valley/Paul

Sprinkler Order No cmckelleygeorgsSN229793

Customer George Kelley

Field Name SN 2297793

Valley Standard Pivot 8000 Machine Sprinkler Chart

Cpl No	Dist From Pivot (ft)	Spk No	Dist Last Spk (ft)	Nozzle Size	Color	Spk Model	Wear Pad	Drop Length (in)	Regulator	Line (PSI)	Spk (PSI)	Rqd (GPM)	Act (GPM)
29	260.1	14	18.1	Plug 21	Turg/Yellow	R3000	D6 - Red	78	Blue Threaded 15L	21.3	15.7	2.9	3.0
30	269.3	15	18.3	Plug 22	Yellow	R3000	D6 - Red	72	Blue Threaded 15L	21.3	15.6	3.1	3.3
31	278.4	16	18.3	Plug 22	Yellow	R3000	D6 - Red	66	Blue Threaded 15L	21.5	15.6	3.3	3.3
32	287.6	17	18.3	Plug 22	Yellow	R3000	D6 - Red	54	Blue Threaded 15L	21.7	15.8	2.6	2.5
33	296.7	18	18.3	Plug 22	Yellow	R3000	D6 - Red	54	Blue Threaded 15L	21.7	15.8	2.6	2.5
34	305.9	19	18.3	Plug 22	Yellow	R3000	D6 - Red	54	Blue Threaded 15L	21.7	15.8	2.6	2.5
35	315.0	20	18.3	Plug 22	Yellow	R3000	D6 - Red	54	Blue Threaded 15L	21.7	15.8	2.6	2.5
36	324.1	21	18.3	Plug 22	Yellow	R3000	D6 - Red	54	Blue Threaded 15L	21.7	15.8	2.6	2.5
37	333.3	22	18.3	Plug 22	Yellow	R3000	D6 - Red	54	Blue Threaded 15L	21.7	15.8	2.6	2.5
38	342.4	23	18.3	Plug 22	Yellow	R3000	D6 - Red	54	Blue Threaded 15L	21.7	15.8	2.6	2.5
39	351.6	24	18.3	Plug 22	Yellow	R3000	D6 - Red	54	Blue Threaded 15L	21.7	15.8	2.6	2.5
40	360.7	25	18.3	Plug 22	Yellow	R3000	D6 - Red	54	Blue Threaded 15L	21.7	15.8	2.6	2.5
41	369.8	26	18.3	Plug 22	Yellow	R3000	D6 - Red	54	Blue Threaded 15L	21.7	15.8	2.6	2.5
42	379.0	27	18.3	Plug 22	Yellow	R3000	D6 - Red	54	Blue Threaded 15L	21.7	15.8	2.6	2.5
43	388.1	28	18.3	Plug 22	Yellow	R3000	D6 - Red	54	Blue Threaded 15L	21.7	15.8	2.6	2.5
44	397.3	29	18.3	Plug 22	Yellow	R3000	D6 - Red	54	Blue Threaded 15L	21.7	15.8	2.6	2.5
45	406.4	30	18.3	Plug 22	Yellow	R3000	D6 - Red	54	Blue Threaded 15L	21.7	15.8	2.6	2.5
46	415.5	31	18.3	Plug 22	Yellow	R3000	D6 - Red	54	Blue Threaded 15L	21.7	15.8	2.6	2.5
47	424.5	32	18.3	Plug 22	Yellow	R3000	D6 - Red	54	Blue Threaded 15L	21.7	15.8	2.6	2.5
48	433.6	33	18.3	Plug 22	Yellow	R3000	D6 - Red	54	Blue Threaded 15L	21.7	15.8	2.6	2.5
49	442.8	34	18.3	Plug 22	Yellow	R3000	D6 - Red	54	Blue Threaded 15L	21.7	15.8	2.6	2.5
50	451.9	35	18.3	Plug 22	Yellow	R3000	D6 - Red	54	Blue Threaded 15L	21.7	15.8	2.6	2.5
51	461.0	36	18.3	Plug 22	Yellow	R3000	D6 - Red	54	Blue Threaded 15L	21.7	15.8	2.6	2.5
52	470.2	37	18.3	Plug 22	Yellow	R3000	D6 - Red	54	Blue Threaded 15L	21.7	15.8	2.6	2.5
53	479.3	38	18.3	Plug 22	Yellow	R3000	D6 - Red	54	Blue Threaded 15L	21.7	15.8	2.6	2.5
54	488.5	39	18.3	Plug 22	Yellow	R3000	D6 - Red	54	Blue Threaded 15L	21.7	15.8	2.6	2.5
55	497.6	40	18.3	Plug 22	Yellow	R3000	D6 - Red	54	Blue Threaded 15L	21.7	15.8	2.6	2.5
56	506.8	41	18.3	Plug 22	Yellow	R3000	D6 - Red	54	Blue Threaded 15L	21.7	15.8	2.6	2.5

Sprinkler : Nelson Spray



Tower Number : 2 Span Length(ft) : 164.3

37	333.3	18	9.1	16	Lavender	D3000 Fine	Yellow	60	Blue Threaded 15L	21.7	16.0	1.8	1.8
38	342.4	19	9.1	17	Lavender/Gray	D3000 Fine	Yellow	60	Blue Threaded 15L	21.4	16.0	1.9	2.0
39	351.6	20	9.1	17	Lavender/Gray	D3000 Fine	Yellow	66	Blue Threaded 15L	21.2	16.0	1.9	2.0
40	360.7	21	9.2	17	Lavender/Gray	D3000 Fine	Yellow	72	Blue Threaded 15L	21.0	16.0	2.0	2.0
41	369.8	22	9.1	17	Lavender/Gray	D3000 Fine	Yellow	72	Blue Threaded 15L	20.8	16.0	2.0	2.0
42	379.0	23	9.2	17	Lavender/Gray	D3000 Fine	Yellow	78	Blue Threaded 15L	20.6	15.9	2.1	2.0
43	388.1	24	9.1	18	Gray	D3000 Fine	Yellow	78	Blue Threaded 15L	20.5	15.9	2.1	2.2
44	397.3	25	9.1	18	Gray	D3000 Fine	Yellow	78	Blue Threaded 15L	20.4	15.9	2.2	2.2
45	406.4	26	9.1	18	Gray	D3000 Fine	Yellow	84	Blue Threaded 15L	20.3	15.9	2.2	2.2
46	415.5	27	9.2	18	Gray	D3000 Fine	Yellow	84	Blue Threaded 15L	20.3	15.9	2.3	2.2
47	424.5	28	8.9	18	Gray	D3000 Fine	Yellow	78	Blue Threaded 15L	20.3	15.9	2.3	2.2
48	433.6	29	9.2	19	Gray/Turquoise	D3000 Fine	Yellow	78	Blue Threaded 15L	20.3	15.8	2.4	2.5
49	442.8	30	9.1	19	Gray/Turquoise	D3000 Fine	Yellow	78	Blue Threaded 15L	20.3	15.8	2.4	2.5
50	451.9	31	9.1	19	Gray/Turquoise	D3000 Fine	Yellow	72	Blue Threaded 15L	20.3	15.8	2.5	2.5
51	461.0	32	9.1	19	Gray/Turquoise	D3000 Fine	Yellow	72	Blue Threaded 15L	20.4	15.8	2.5	2.5
52	470.2	33	9.2	19	Gray/Turquoise	D3000 Fine	Yellow	66	Blue Threaded 15L	20.5	15.8	2.6	2.5
53	479.3	34	9.1	20	Turquoise	D3000 Fine	Yellow	60	Blue Threaded 15L	20.6	15.7	2.6	2.7
54	488.5	35	9.1	20	Turquoise	D3000 Fine	Yellow	60	Blue Threaded 15L	20.7	15.8	2.7	2.8
55	497.6	36	9.1	20	Turquoise	D3000 Fine	Yellow	60	Blue Threaded 15L	20.7	15.7	2.7	2.8
56	506.8	37	9.1	20	Turquoise	D3000 Fine	Yellow	60	Blue Threaded 15L	20.5	15.7	2.8	2.7

Tower Number : 3 Span Length(ft) : 164.3

Parent Order No

Dealer Sprinkler Shop Valley/Paul
Customer George Kelley
Field Name SN 2297793

Sprinkler Order No cmckelleygeorgeSN229793

Valley Standard Pivot 8000 Machine Sprinkler Chart

Cpl No	Dist From Pivot (ft)	Spk No	Dist Last Spk (ft)	Nozzle Size	Color	Spk Model	Wear Pad	Drop Length (in)	Regulator	Line (Psi)	Spk (Psi)	Rqd (GPM)	Act (GPM)
57	515.9	38	9.1	20	Turquoise	D3000 Fine	Yellow	66	Blue Threaded 15L	20.2	15.7	2.8	2.7
58	525.1	39	9.2	20	Turquoise	D3000 Fine	Yellow	72	Blue Threaded 15L	20.0	15.7	2.9	2.7
59	534.1	40	9.1	21	Turg/Yellow	D3000 Fine	Yellow	72	Blue Threaded 15L	19.9	15.7	2.9	3.0
60	543.3	41	9.2	21	Turg/Yellow	D3000 Fine	Yellow	78	Blue Threaded 15L	19.7	15.6	3.0	3.0
61	552.5	42	9.1	21	Turg/Yellow	D3000 Fine	Yellow	78	Blue Threaded 15L	19.6	15.6	3.0	3.0
62	561.6	43	9.1	21	Turg/Yellow	D3000 Fine	Yellow	78	Blue Threaded 15L	19.5	15.6	3.1	3.0
63	570.7	44	9.1	22	Yellow	D3000 Fine	Yellow	84	Blue Threaded 15L	19.5	15.6	3.1	3.3
64	579.9	45	9.2	22	Yellow	D3000 Fine	Yellow	84	Blue Threaded 15L	19.4	15.6	3.1	3.3
65	588.8	46	8.9	22	Yellow	D3000 Fine	Yellow	78	Blue Threaded 15L	19.4	15.6	3.2	3.3
66	598.0	47	9.2	22	Yellow	D3000 Fine	Yellow	78	Blue Threaded 15L	19.4	15.6	3.3	3.3
67	607.1	48	9.1	22	Yellow	D3000 Fine	Yellow	78	Blue Threaded 15L	19.4	15.6	3.3	3.3
68	616.3	49	9.1	22	Yellow	D3000 Fine	Yellow	72	Blue Threaded 15L	19.5	15.6	3.4	3.3
69	625.4	50	9.1	22	Yellow	D3000 Fine	Yellow	72	Blue Threaded 15L	19.5	15.5	3.4	3.3
70	634.5	51	9.2	23	Yellow/Red	D3000 Fine	Yellow	66	Blue Threaded 15L	19.7	15.5	3.5	3.6
71	643.7	52	9.1	23	Yellow/Red	D3000 Fine	Yellow	80	Blue Threaded 15L	19.8	15.5	3.5	3.6
72	652.8	53	9.1	23	Yellow/Red	D3000 Fine	Yellow	60	Blue Threaded 15L	19.9	15.5	3.6	3.6
Tower Number : 4 Span Length(ft) : 164.3													
73	661.9	54	9.1	23	Yellow/Red	D3000 Fine	Yellow	60	Blue Threaded 15L	19.9	15.5	3.6	3.6
74	671.1	55	9.1	23	Yellow/Red	D3000 Fine	Yellow	60	Blue Threaded 15L	19.7	15.4	3.7	3.6
75	680.2	56	9.1	24	Red	D3000 Fine	Yellow	66	Blue Threaded 15L	19.5	15.4	3.7	3.9
76	689.4	57	9.2	24	Red	D3000 Fine	Yellow	72	Blue Threaded 15L	19.3	15.4	3.8	3.9
77	698.5	58	9.1	23	Yellow/Red	D3000 Fine	Yellow	72	Blue Threaded 15L	19.1	15.4	3.8	3.6
78	707.7	59	9.2	24	Red	D3000 Fine	Yellow	78	Blue Threaded 15L	19.0	15.4	3.9	3.9
79	716.8	60	9.1	24	Red	D3000 Fine	Yellow	78	Blue Threaded 15L	18.9	15.4	3.9	3.9
80	725.9	61	9.1	24	Red	D3000 Fine	Yellow	78	Blue Threaded 15L	18.8	15.3	4.0	3.9
81	735.0	62	9.1	25	Red/White	D3000 Fine	Yellow	84	Blue Threaded 15L	18.7	15.3	4.0	4.2
82	744.2	63	9.2	24	Red	D3000 Fine	Yellow	84	Blue Threaded 15L	18.7	15.3	4.0	3.9
83	753.1	64	8.9	25	Red/White	D3000 Fine	Yellow	78	Blue Threaded 15L	18.7	15.3	4.1	4.2
84	762.3	65	9.2	25	Red/White	D3000 Fine	Yellow	78	Blue Threaded 15L	18.7	15.3	4.2	4.2
85	771.4	66	9.1	25	Red/White	D3000 Fine	Yellow	78	Blue Threaded 15L	18.7	15.3	4.2	4.2
86	780.6	67	9.1	25	Red/White	D3000 Fine	Yellow	72	Blue Threaded 15L	18.8	15.3	4.3	4.2
87	789.7	68	9.1	25	Red/White	D3000 Fine	Yellow	72	Blue Threaded 15L	18.9	15.3	4.3	4.2
88	798.9	69	9.2	26	White	D3000 Fine	Yellow	66	Blue Threaded 15L	19.0	15.3	4.4	4.6

Parent Order No

Dealer Sprinkler Shop Valley/Paul

Sprinkler Order No cmckelleygeorgesN229793

Customer George Kelley

Field Name SN 229793

Valley Standard Pivot 8000 Machine Sprinkler Chart

Cpl No	Dist From Pivot (ft)	Spk No	Dist Last Spk (ft)	Nozzle Size	Color	Spk Model	Wear Pad	Drop Length (in)	Regulator	Line (PSI)	Spk (PSI)	Rqd (GPM)	Act (GPM)
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89	808.0	70	9.1	25	Red/White	D3000 Fine	Yellow	60	Blue Threaded 15L	19.1	15.3	4.4	4.2
90	817.2	71	9.1	26	White	D3000 Fine	Yellow	60	Blue Threaded 15L	19.3	15.3	4.5	4.6
Tower Number : 5 Span Length(ft) : 164.3													

91	826.3	72	9.1	26	White	D3000 Fine	Yellow	60	Blue Threaded 15L	19.3	15.3	4.5	4.6
92	835.4	73	9.1	26	White	D3000 Fine	Yellow	60	Blue Threaded 15L	19.1	15.3	4.6	4.6
93	844.6	74	9.1	26	White	D3000 Fine	Yellow	66	Blue Threaded 15L	18.9	15.3	4.6	4.6
94	853.7	75	9.2	26	White	D3000 Fine	Yellow	72	Blue Threaded 15L	18.7	15.3	4.7	4.6
95	862.8	76	9.1	27	White/Blue	D3000 Fine	Yellow	72	Blue Threaded 15L	18.5	15.3	4.7	4.9
96	872.0	77	9.2	26	White	D3000 Fine	Yellow	78	Blue Threaded 15L	18.4	15.3	4.8	4.6
97	881.1	78	9.1	27	White/Blue	D3000 Fine	Yellow	78	Blue Threaded 15L	18.3	15.3	4.8	4.9
98	890.3	79	9.1	27	White/Blue	D3000 Fine	Yellow	78	Blue Threaded 15L	18.2	15.3	4.9	4.9
99	899.4	80	9.1	27	White/Blue	D3000 Fine	Yellow	84	Blue Threaded 15L	18.2	15.3	4.9	4.9
100	908.5	81	9.2	27	White/Blue	D3000 Fine	Yellow	84	Blue Threaded 15L	18.2	15.3	4.9	4.9
101	917.5	82	8.9	27	White/Blue	D3000 Fine	Yellow	78	Blue Threaded 15L	18.2	15.2	5.0	4.9
102	926.6	83	9.2	28	Blue	D3000 Fine	Yellow	78	Blue Threaded 15L	18.2	15.2	5.1	5.3
103	935.8	84	9.1	27	White/Blue	D3000 Fine	Yellow	78	Blue Threaded 15L	18.2	15.2	5.1	4.9
104	944.9	85	9.1	28	Blue	D3000 Fine	Yellow	72	Blue Threaded 15L	18.3	15.2	5.2	5.3
105	954.0	86	9.1	28	Blue	D3000 Fine	Yellow	72	Blue Threaded 15L	18.4	15.2	5.2	5.3
106	963.2	87	9.2	28	Blue	D3000 Fine	Yellow	66	Blue Threaded 15L	18.5	15.2	5.3	5.3
107	972.3	88	9.1	28	Blue	D3000 Fine	Yellow	60	Blue Threaded 15L	18.7	15.2	5.3	5.3
108	981.5	89	9.1	28	Blue	D3000 Fine	Yellow	60	Blue Threaded 15L	18.9	15.2	5.4	5.3
Tower Number : 6 Span Length(ft) : 164.3													

109	990.6	90	9.1	28	Blue	D3000 Fine	Yellow	60	Blue Threaded 15L	18.9	15.2	5.4	5.3
110	999.8	91	9.1	28	Blue	D3000 Fine	Yellow	60	Blue Threaded 15L	18.7	15.2	5.5	5.3
111	1008.9	92	9.1	29	Blue/Dark Brown	D3000 Fine	Yellow	66	Blue Threaded 15L	18.5	15.2	5.5	5.7
112	1018.1	93	9.2	28	Blue	D3000 Fine	Yellow	72	Blue Threaded 15L	18.4	15.2	5.6	5.3
113	1027.2	94	9.1	29	Blue/Dark Brown	D3000 Fine	Yellow	72	Blue Threaded 15L	18.2	15.2	5.6	5.7
114	1036.3	95	9.2	29	Blue/Dark Brown	D3000 Fine	Yellow	72	Blue Threaded 15L	18.2	15.2	5.7	5.7
115	1045.5	96	9.1	29	Blue/Dark Brown	D3000 Fine	Yellow	78	Blue Threaded 15L	18.1	15.2	5.7	5.7
116	1054.6	97	9.1	29	Blue/Dark Brown	D3000 Fine	Yellow	78	Blue Threaded 15L	18.1	15.2	5.8	5.7
117	1063.7	98	9.1	29	Blue/Dark Brown	D3000 Fine	Yellow	78	Blue Threaded 15L	18.0	15.2	5.8	5.7
118	1072.9	99	9.2	30	Dark Brown	D3000 Fine	Yellow	78	Blue Threaded 15L	18.1	15.2	5.9	6.1
119	1082.0	100	9.1	30	Dark Brown	D3000 Fine	Yellow	72	Blue Threaded 15L	18.1	15.2	5.9	6.1

Parent Order No

Dealer Sprinkler Shop Valley/Paul

Sprinkler Order No cmckelleygeorgesN229793

Customer George Kelley

Field Name SN 2297793

Valley Standard Pivot 8000 Machine Sprinkler Chart

Cpl No	Dist From Pivot (ft)	Spk No	Dist Last Spk (ft)	Nozzle Size	Color	Spk Model	Wear Pad	Drop Length (in)	Regulator	Line (PSI)	Spk (PSI)	Rqd (GPM)	Act (GPM)
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120	1091.2	101	9.1	30	Dark Brown	D3000 Fine	Yellow	72	Blue Threaded 15L	18.2	15.2	6.0	6.1
121	1100.3	102	9.1	29	Blue/Dark Brown	D3000 Fine	Yellow	72	Blue Threaded 15L	18.2	15.2	6.0	5.7
122	1109.4	103	9.2	30	Dark Brown	D3000 Fine	Yellow	66	Blue Threaded 15L	18.4	15.1	6.1	6.1
123	1118.6	104	9.1	30	Dark Brown	D3000 Fine	Yellow	60	Blue Threaded 15L	18.5	15.1	6.1	6.1
124	1127.7	105	9.1	30	Dark Brown	D3000 Fine	Yellow	60	Blue Threaded 15L	18.7	15.1	6.2	6.1

1132.3 Tower Number : 7 Span Length(ft) : 146.2

125	1136.9	106	9.1	31	Dk Brown/Orange	D3000 Fine	Yellow	60	Blue Threaded 15L	18.6	15.1	6.2	6.4
126	1146.0	107	9.1	31	Dk Brown/Orange	D3000 Fine	Yellow	60	Blue Threaded 15L	18.5	15.1	6.3	6.4
127	1155.1	108	9.1	30	Dark Brown	D3000 Fine	Yellow	66	Blue Threaded 15L	18.3	15.1	6.3	6.1
128	1164.3	109	9.2	31	Dk Brown/Orange	D3000 Fine	Yellow	72	Blue Threaded 15L	18.2	15.1	6.4	6.4
129	1173.4	110	9.1	31	Dk Brown/Orange	D3000 Fine	Yellow	72	Blue Threaded 15L	18.1	15.1	6.4	6.4
130	1182.6	111	9.2	31	Dk Brown/Orange	D3000 Fine	Yellow	72	Blue Threaded 15L	18.0	15.1	6.5	6.4
131	1191.7	112	9.1	31	Dk Brown/Orange	D3000 Fine	Yellow	78	Blue Threaded 15L	17.9	15.1	6.5	6.4
132	1200.9	113	9.1	31	Dk Brown/Orange	D3000 Fine	Yellow	78	Blue Threaded 15L	17.9	15.1	6.6	6.4
133	1210.0	114	9.1	32	Orange	D3000 Fine	Yellow	78	Blue Threaded 15L	17.9	15.1	6.6	6.9
134	1219.1	115	9.2	31	Dk Brown/Orange	D3000 Fine	Yellow	78	Blue Threaded 15L	17.9	15.1	6.7	6.4
135	1228.3	116	9.1	32	Orange	D3000 Fine	Yellow	72	Blue Threaded 15L	18.0	15.1	6.7	6.9
136	1237.4	117	9.1	32	Orange	D3000 Fine	Yellow	72	Blue Threaded 15L	18.0	15.1	6.8	6.9
137	1246.5	118	9.1	32	Orange	D3000 Fine	Yellow	72	Blue Threaded 15L	18.1	15.1	6.8	6.9
138	1255.7	119	9.2	32	Orange	D3000 Fine	Yellow	66	Blue Threaded 15L	18.2	15.1	6.9	6.9
139	1264.8	120	9.1	32	Orange	D3000 Fine	Yellow	60	Blue Threaded 15L	18.4	15.1	6.9	6.9
140	1274.0	121	9.1	32	Orange	D3000 Fine	Yellow	60	Blue Threaded 15L	18.6	15.1	6.9	6.9

B.P.

1278.5 Tower Number : 8 Span Length(ft) : 146.2

142	1282.9	122	9.0	32	Orange	D3000 Fine	Yellow	54	Blue Threaded 15L	18.6	15.1	7.0	6.9
143	1292.1	123	9.2	32	Orange	D3000 Fine	Yellow	60	Blue Threaded 15L	18.4	15.1	7.0	6.9
144	1295.6			Plug									
145	1301.0	124	8.9	32	Orange	D3000 Fine	Yellow	66	Blue Threaded 15L	18.3	15.1	7.1	6.9
146	1310.2	125	9.2	34	Dark Green	D3000 Fine	Yellow	72	Blue Threaded 15L	18.1	15.0	8.0	7.8

Sprinkler : Semlinger Spray



147	1313.7	126		16	Orange	Directional				17.9	17.9	7.3	7.6
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Parent Order No

Dealer Sprinkler Shop Valley/Paul

Sprinkler Order No cmckelleygeorgeSN229793

Customer George Kelley

Field Name SN 2297793

Valley Standard Pivot 8000 Machine Sprinkler Chart

Cpl No	Dist From Pivot	Spk No	Dist Last Spk (ft)	Nozzle Size	Color	Spk Model	Wear Pad	Drop Length (in)	Regulator	Line (PSI)	Spk (PSI)	Rqd (GPM)	Act (GPM)
1314.7				Overhang					Span Length(ft) : 36.2				
----- Sprinkler : Nelson Endgun -----													
148	1314.7	127		0.6		SR100						17.9	51.0 75.0 74.0

Primary Endgun Arc Settings: Forward Angle: 45 Reverse Angle: 85

602.8

Dealer Sprinkler Shop Valley/Paul
Customer George Kelley
Field Name SN 2297793



Sprinkler Order No cmckelleygeorgesN229793
Parent Order No

Valley Standard Pivot 8000 Percent Timer Data

Setup Information - Valley Computer Control Panel Water Application Constants: Minimum Application = 0.075 (in) Hours Per Revolution = 8.1

Based on IN

IN Per 360 degrees	Pivot % Timer	Hours Per 360 degrees
0.075	100.0	8.1
0.10	75.4	10.7
0.20	37.7	21.5
0.30	25.1	32.3
0.40	18.8	43.1
0.50	15.1	53.6
0.60	12.6	64.3
0.70	10.8	75.0
0.80	9.4	86.2
0.90	8.4	96.4
1.00	7.5	108.0
1.25	6.0	135.0
1.50	5.0	162.0

Based on % Timer

Pivot % Timer	IN Per 360 degrees	Hours Per 360 degrees
100.0	0.075	8.1
90.0	0.08	9.0
80.0	0.09	10.1
70.0	0.11	11.6
60.0	0.13	13.5
50.0	0.15	16.2
45.0	0.17	18.0
40.0	0.19	20.3
35.0	0.22	23.1
30.0	0.25	27.0
25.0	0.30	32.4
20.0	0.38	40.5
17.5	0.43	46.3
15.0	0.50	54.0
12.5	0.60	64.8
10.0	0.75	81.0
7.5	1.00	108.0
5.0	1.51	162.0

Field Area

142.5 (Ac) Total
124.7 (Ac) Pivot 360°
17.8 (Ac) EG on 100%
1314.7 (ft) Machine Length
90.9 (ft) End Gun Radius

Flow

600 (GPM)
4.21 (GPM per Acre)
0.22 (in per day) App Rate
0.075 (in) App Depth @ 100%
74.0 (GPM) End Gun

Pressure

24 (PSI) Pivot Pressure
Calculated Pressure
0.0 (ft) Highest Elevation
0.0 (ft) Lowest Elevation

LRDU Drive Train

68 RPM Center Drive @ 60 Hz freq.
14.9 x 24 High Float Tire
52:1 Wheel GB Ratio, LRDU Dist 1278.5 (ft)
8.1 Hrs/360 @ 100% (16.50) (ft per Min)

Disclaimer

The information presented in the attached Percent Timer Report is based on variables which cannot be totally controlled by Valmont (including, but not limited to, pivot pressure, inside pipeline surface, end gun throw, end gun arc setting, tire slippage, tire pressure, field slopes, soil variations, sprinkler package installation, well capacity, center drive motor voltage, center drive motor frequency, climatic conditions and other elements and circumstances beyond Valmont's reasonable control). Valmont recommends monitoring the machine for at least one pass through field to obtain an accurate rotation time.