

Wasco County SWCD Cost Share Program Application

ATTENTION: It is the responsibility of the applicant/landowner to obtain any required permits for the project being cost shared. If you need assistance contact the SWCD office.

Applicant Name Dan Van Vactor

Address [REDACTED]

Phone & E [REDACTED]

PROJECT DESCRIPTION Please include a detailed map of the project area, photos and budget to summarize expenses.

12 Digit HUC: 170703060907

SWCD LRP Priority Ranking#

NRCS Practice Code: Irrigation System

NRCS Practice: 443

Is this project Ag Water Quality Related? YES ODA Management Area: LD

Is this project part of a Farm Bill program or receiving any other Cost Share? YES or NO *

1. Project Proposal – Please describe the resource concern, what will be done & who will do the work. *(additional space on reverse side if needed)*

This project proposal is to replace 2 wheel lines with a 3-4 tower pivot on 33 acres of hay ground. The landowner has worked with NRCS on project designs, soils, slope, as well as flow rate and schedule. The water savings estimator and quote from Kern's irrigation is attached.

2. Describe how this project will address the resource concern or provide an overall benefit that this project will provide to the watershed.

This project will provide efficient water application on 33 acres of hay ground. The water is conveyed to the current system through 4" mainline, gravity fed with a 10HP pump out of Highland Ditch. The new system will provide an annual water savings estimate of 36.3% and increase the system efficiency from 54% to 85%.

Estimated Total Cost: \$ 58,606

Project Start Date: August 2026

Amount Requested: \$ 7,500

Completion Date: Spring 2027

(50%, UP TO \$7,500) Budget space is provided on reverse side

Print Dan Van Vactor

Sign Dan Van Vactor

Applicant

Date July 2, 2026

Landowner Signature (if different than the applicant)

THIS SECTION TO BE COMPLETED BY SWCD STAFF

Staff Review mgr tech adm Recommend: Fund Not Fund Board Action: Approved / Denied

Date:

* we will also seek the \$20,000 grant if it is available.

D. Van Vactor – Pivot

Before Photos





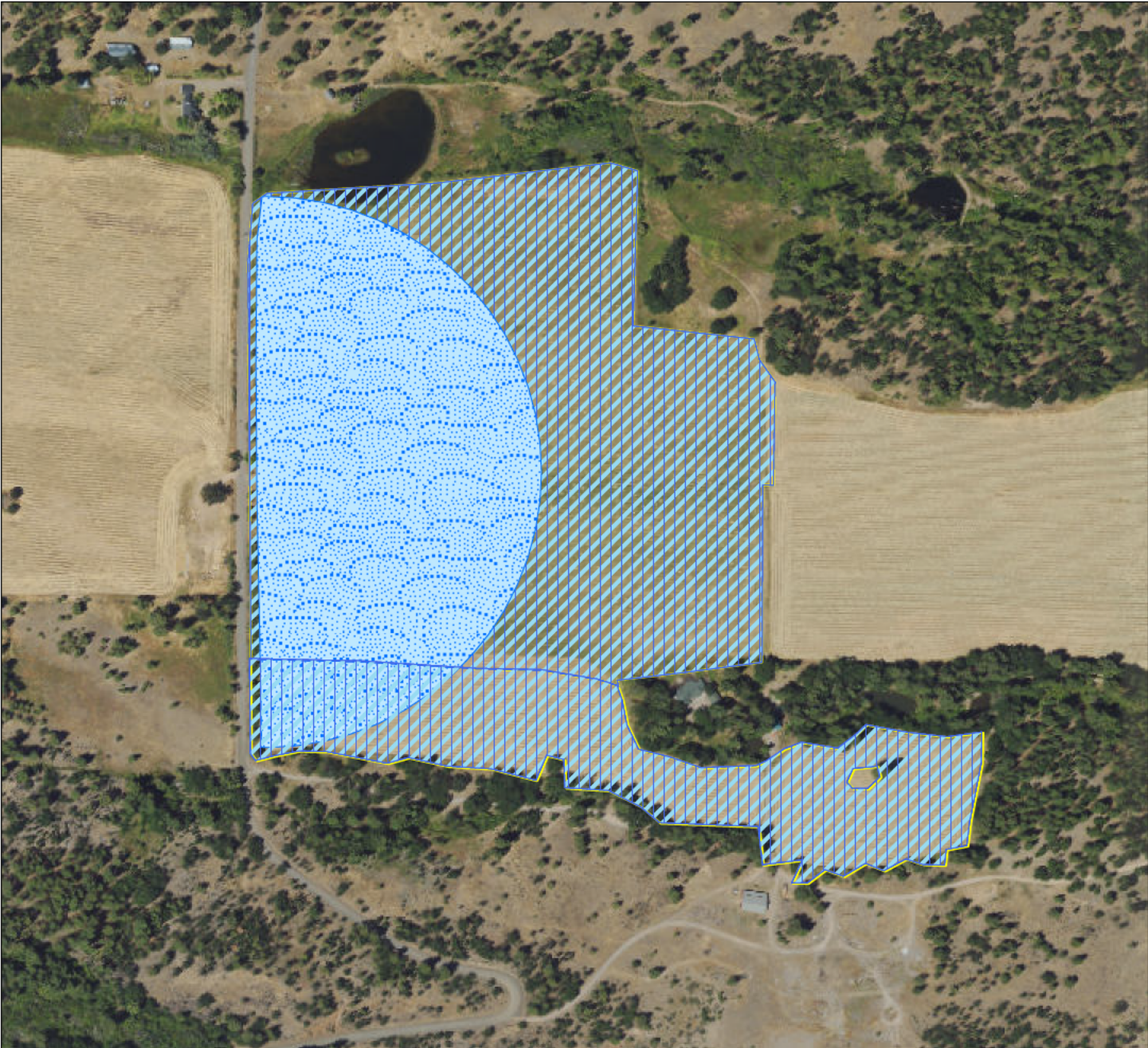




Conservation Plan Map

Client(s): DANIEL E VAN VACTOR
Wasco County, Oregon

Assisted By: MICHAEL CISTULLI
THE DALLES SERVICE CENTER



0 376
Feet

Prepared with assistance from USDA-Natural Resources Conservation Service

Conservation Practice Polygons

Sprinkler System (442)

Irrigation Water Management (449)

Practice Schedule PLUs



This Customer Irrigation System Proposal is presented to DAN VANVACTOR (Customer) by KERNS BROTHERS LLC (Dealer) and the prices quoted herein shall be effective as of December 19, 2024.

Customer Information

DAN VANVACTOR
Morrow Rd
Wamic, Oregon 97063, USA

Center Pivot 1 (631' pivot)

Dealer Information

PO#:

KERNS BROTHERS LLC
76944 TOWER ROAD
BOARDMAN, OR 97818, USA
541 969 1708



System Information									
System Type:		Center Pivot			Model:		E2065-G / 57 "		
System GPM:		409.0 GPM			System Length:		631 '		
Max. System GPM:		405.9 GPM			Min. System GPM:		304.3 GPM		
Elevation:		0 '			System Area:		28.9 acres		
Top of Inlet Pressure:		37.2 PSI			End Gun Area:		5.30 acres		
End Pressure:		35.0 PSI			Total Area:		38.84 acres		
Hours to Apply 1":		43.0 Hours							

Span Information									
No.	Type	Length	Ext.	Spacing	Wheel Trk	Tire Size	PSI Loss	Cable	
1	E2065	156 '	N	57 "	158 '	11 x 22.5-G Recaps	0.6	10C/#12/0 s	
2	E2065	156 '	N	57 "	314 '	11 x 22.5-G Recaps	0.5	10C/#12/0 s	
3	E2065	156 '	N	57 "	470 '	11 x 22.5-G Recaps	0.3	10C/#12/0 s	
4	E2065	137 '	N	57 "	607 '	11 x 22.5-G Recaps	0.1	10C/#12/0 s	
EB	E2060	23 '	N	57 "	631 '		0.6		

Standard Features

- ▲ High Tensile Strength Steel utilized in all structural components for maximum durability
- ▲ High Tensile Strength Steel lets Reinke reduce tower weight considerably, reducing drive train stress and repair expense
- ▲ High Tensile Strength Steel provides highest strength to weight ratio in the industry
- ▲ Friction reducing full sweep elbows reduces your pumping cost
- ▲ Fully gusseted 18 inch pivot bearing increases bearing life
- ▲ Pivot Flex Joint relieves stress and improves pivot bearing life
- ▲ Stainless Steel riser gasket seat maintains positive seal, reducing repair expense
- ▲ Simple, easy to understand controls makes your Reinke easy to operate
- ▲ Adjustable Main Control Panel mount insures a location convenient for you
- ▲ Eye level pressure gauge provides convenient, accurate readings
- ▲ Computer designed sprinkler packages insure uniform water application for maximum yields
- ▲ Reinke Heavy Duty Wheel Gear designed especially for the demands of irrigation
- ▲ Centering ring on gearbox prevents lug bolt breakage
- ▲ Driveline Shields protect you and your family
- ▲ Reinke Irrigation Duty Motors provide years of reliable service
- ▲ Insulated Tower Boxes protect electrical components from condensation
- ▲ Exclusive mechanical safety interlock prevents access to inside of tower boxes without shutting off the electrical power
- ▲ Double Jacketed Span Cables for extra safety and long cable life
- ▲ Unique V-Ring pipe flange seal reduces your pumping and maintenance costs
- ▲ Reinke Internal Flex Joint increases the life of rubber boots reducing repair costs
- ▲ High strength single tower legs protect your systems water-pipe by absorbing the stress associated with uneven terrain
- ▲ End Booms are supported with truss rods (not only cable) for more stability

System Components

Qty	Description
1	▲ PIVOT CENTER, GALVANIZED
1	▲ RISER PIPE-LONG-8" DIA.-EII
1	▲ JOINT PIVOT E2065
1	▲ MOUNTS-MCP STD HEIGHT PVT CTR
1	▲ RPM BASIC MAIN CONTROL PANEL
1	▲ FUSE OPTION 20 AMP-MCP
1	▲ COLLECTOR REEL-10 RING
1	▲ WIRE-MCP #12-15 1/2' STD PVT
1	▲ CAM WHEEL SWITCH MOUNT ASSEMBLY
1	▲ EN MANUAL OPR-PVT/SAC W/BASIC
3	▲ SPANS, 156', 6 5/8" DIA., GALVANIZED PIPE, 57" OUTLET SPACING
3	▲ JOINT SPAN E2065
3	▲ CONDUIT CLIP PKG 156'-57"
1	▲ SPAN CABLE/12-156' PVT SPAN-E
2	▲ SPAN CBL/12-156' INT/END SPN-E
1	▲ SPANS, 137', 6 5/8" DIA., GALVANIZED PIPE, 57" OUTLET SPACING
1	▲ LAST TWR TOP E2065
1	▲ CONDUIT CLIP PKG 137'-57"
1	▲ SPAN CBL/12-137' INT/END SPN-E
1	▲ SIGN-W/BRACKET REINKE
1	▲ END BOOM, 23', GALVANIZED PIPE
1	▲ CONDUIT CLIP PKG 23' EB 57"
4	▲ TOWER ASSEMBLY, GALVANIZED, STANDARD PROFILE
4	▲ C-X COUPLER/TWR-E-EII
4	▲ HELICAL CENTER DRIVE-STD SPEED-EII
2	▲ TOWER BOX-A-E60-US MOTOR
1	▲ TOWER BOX-B-E60-US MOTOR
1	▲ TOWER BOX-C-E60-US MOTOR
1	▲ INSTALL-DOC WARR US/CANADA
1	▲ WATER PRESSURE GAUGE 0-100#
58	▲ NELSON O3030 STD BLACK W/WT
2	▲ PIPE JNT COMPOUND 4 OZ TRU-BLU

Upgrades

Qty	Description
1	▲ GASKET 8 INCH PIVOT TRIPLE LIP
4	▲ TIRE OPTION, 11 X 22.5 RECAP TIRES-TUBELESS, GALVANIZED WHEELS, 1 FORWARD, 1 REVERSED
4	▲ REINKE GEAR 1016-NON TOW

Options	
Qty	Description
1	▲ BOTTOM ELBOW-8 TO 6 5/8" REDUCING-SAE
1	▲ UL CERTIFICATION-MCP
1	▲ END GUN, NELSON SR100 WITH TAPERED NOZZLE
1	▲ REINKE VALVE FOR USE W/BP
1	▲ ELECT END GUN SW ASY-STD PIVOT
1	▲ END GUN TUBING KIT-23 FT EB
1	▲ BOOSTER PUMP, END GUN, 2 HP
1	▲ BOX-CTRL 2HP BP PS
1	▲ LIGHT ASSEMBLY, PIVOT CENTER, STANDARD
58	▲ NELSON ALLFLO 15# FXST
58	▲ GOOSENECK-3/4MNPTX3/4B-SGL-180
58	▲ ADAPTER-MALE X HOSE BARB-GRAY
116	▲ SCREW CLAMP FOR 3/4" IPS HOSE
2	▲ HOSE-3/4 PVC IPS 250' BLUE

Investment	
Total List Price	\$62,857.40
Discount	\$18,731.51
Customer Price	\$44,125.89
Installation	\$6,481.00
Freight	\$5,500.00
+ Pivot Pad	\$2,500.00
Miscellaneous Items	\$0.00
Price	\$58,606.89
- Trade-In	\$0.00
Sub-Total	\$58,606.89
Sales Tax (%)	\$0.00
Total Price	\$58,606.89
Down Payment	\$5,860.69
Due on Delivery	\$46,885.52
Due on Installation	\$5,860.69

Payment Terms

Payment shall be as indicated above. Prices subject to change without notice. If Customer requests changes in the system or delays progress of the manufacture or shipment of the system, the system price shall be adjusted to reflect increases caused thereby. In addition, the system price is subject to revision due to increases in material and labor costs during the period from the date of this purchase order until completion of manufacture of the system.

Purchase of the system described above will be subject to the Terms and Conditions of the Irrigation System Purchase Agreement between the Dealer and the Customer, including but not limited to the Reinke Irrigation Systems Warranty. This document is considered CONFIDENTIAL and may not be reproduced in part or in totality without the expressed written permission of the Dealer, REINKE MANUFACTURING COMPANY, INC. or its associates.

Reinke Irrigation Systems have a standard two (2) year limited warranty and extended warranties on certain primary components as listed below:

Water Pipe

- ▲ V-Ring Seal
Twenty-Five (25) years
- ▲ Span Joint Water Hose (Boots)
Ten (10) years
- ▲ Structural failure due to corrosion
Twenty (20) years
 - ◆ Galvanized Steel
 - ◆ Aluminium
 - ◆ Poly-Lined
 - ◆ CN+
 - ◆ Stainless Steel

Drive Train

- ▲ Wheel Drive Gears
 - ◆ Reinke 10/16: Ten (10) years or 16,000 hours of operation, whichever shall occur first.
 - ◆ Standard Duty: Ten (10) years or 10,000 hours of operation, whichever shall occur first.
 - ◆ Moderate Duty: Six (6) years or 6,000 hours of operation, whichever shall occur first.
- ▲ Center Drive Gear Motors
Eight (8) years or 8,000 hours of operation, whichever shall occur first.

Structural Components

- ▲ Manufactured directly by Reinke Manufacturing Co., Inc.
Five (5) years

Precision Technology

- ▲ RPM Advanced Panel
Five (5) years
- ▲ RPM Advanced Plus™ Panel
Five (5) years
- ▲ RPM Touch Screen Panel
Five (5) years
- ▲ RPM Connect™ Panel
Five (5) years
- ▲ Navigator™ EOS GPS
Five (5) years
- ▲ Remote Management Products
Two (2) years

Note: Certain conditions and/or exclusions apply. This summary is subject to the entire warranty provisions of the attached Reinke New Irrigation System Limited Warranty.

REINKE MANUFACTURING CO., INC. LIMITED WARRANTY (U.S. & CANADA)

NEW IRRIGATION SYSTEM LIMITED WARRANTY

Reinke Manufacturing Co., Inc. (Reinke) warrants to the U.S. or Canadian owner (Owner) of the Irrigation System (as hereinafter defined) purchased from Reinke or Reinke's authorized dealer (Dealer) and properly registered in Reinke's records as required in Section A.1 below that the Irrigation System manufactured by Reinke will be free from performance or longevity affecting defect in materials and workmanship for the periods specified below, with the stated warranty period beginning as of the date set forth in the Irrigation System's serial number (the "Effective Date"), provided that the Irrigation System is properly maintained and used as designed and that this Limited Warranty is not void due to one or more of the warranty exclusions set forth herein. This Limited Warranty shall apply ONLY to the following Reinke equipment (collectively defined as the "Irrigation System"):

- 1) All new Reinke Irrigation Systems are warranted for a period of two (2) years from the Effective Date, excluding auxiliary or supplemental equipment described in Section B of this Limited Warranty, and except as otherwise provided in the following paragraphs 2) through 7) below;
- 2) All Reinke RPM Touch Screen, Advanced, Advanced Plus and Connect main control panel assemblies (excluding panel options), as well as Navigator EOS (end of system) GPS are warranted for a period of five (5) years from the Effective Date;
- 3) All Irrigation System structural components directly manufactured by Reinke are warranted for a period of five (5) years from the Effective Date;
- 4) Reinke center drive gear motors are warranted for a period of eight (8) years from the Effective Date or 8,000 hours of operation, whichever shall occur first;
- 5) Reinke wheel drive gears are warranted for a period of ten (10) years from the Effective Date or 10,000 hours of operation, whichever shall occur first, with the exception of Reinke "10/16" wheel drive gears which are warranted for a period of ten (10) years from the Effective Date or 16,000 hours of operation, whichever shall occur first; and Reinke "moderate duty" wheel drive gears which are warranted for a period of six (6) years from the Effective Date or 6,000 hours of operation, whichever shall occur first; PROVIDED, HOWEVER, THAT THE FOREGOING LIMITED WARRANTY SHALL NOT APPLY TO GEAR FAILURE CAUSED IN WHOLE OR IN PART BY A FAILURE TO MAINTAIN THE PROPER GEAR BOX LEVEL OF AN APPROVED LUBRICANT NECESSARY FOR THE PROPER FUNCTIONING OF SUCH GEARS;
- 6) Reinke span joint water hose (boots) are warranted for a period of ten (10) years from the Effective Date;
- 7) Reinke's exclusive V-ring water pipe seals are warranted for a period of twenty five (25) years from the Effective Date; and
- 8) Subject to the Corrosion Exclusion, the following types of water pipe are warranted against perforation exceeding 1/8 (one eighth) inch in diameter caused solely by corrosion for the following time periods:
 - a) Poly-lined steel, aluminum and stainless steel water pipe are each warranted for a period of twenty (20) years from the Effective Date with pipe replaced during the first ten (10) years of the limited warranty at no charge to the Owner, and pipe replaced from year eleven (11) through twenty (20) following such Effective Date on a pro-rated basis. The Owner shall be allowed a credit on the price of replacement pipe as provided in the Reinke parts price list current as of the date the limited warranty claim is submitted with the amount of pro-rated credit to be based on a factor, the numerator of which shall be the number of years remaining in the second ten (10) years of the original limited warranty period, and the denominator of which shall be twenty (20).
 - b) Galvanized high strength steel and CN+ water pipe are each warranted for a period of twenty (20) years from the Effective Date on a pro-rated basis with the amount of pro-rated credit

to be based on a factor, the numerator of which shall be the number of years remaining in the original limited warranty period, and the denominator of which shall be twenty (20).

Upon prior written notice to the Owner, Reinke reserves the right to exclude specified geographic areas from this Limited Warranty against corrosion damage. The Limited Warranty for water pipe types set forth above shall not apply to damage or loss caused in whole or in part by the lack of adhesion of paint on interior surfaces of water pipe or fittings.

CORROSION EXCLUSION

The foregoing Limited Warranty shall not apply to the following:

- 1) Poly-lined steel water pipe damaged by corrosion caused in whole or in part by gases entrained in irrigation water.
- 2) Aluminum water pipe damaged by corrosion caused in whole or in part by (i) wastewater, sludge, livestock manure or any corrosion-causing chemicals in irrigation water, (ii) gases entrained in irrigation water, (iii) acidity of water, as measured by a pH level of 5.0 or less or 8.0 or more, (iv) concentrations of sulfates in water of 500 P.P.M. or greater, (v) concentrations of chlorides in water of 350 P.P.M. or greater, (vi) a Langlier Saturation Index (LSI) of less than 0, or (vii) alteration of the pH level of irrigation water.
- 3) Stainless steel water pipe damaged by corrosion caused in whole or in part by: (i) gases entrained in irrigation water, (ii) corrosion-causing chemicals or abrasive materials in irrigation water, (iii) acidity of water, as measured by a pH level of 3.0 or less or 10.0 or more, (iv) concentrations of sulfates in the irrigation water of 1,000 P.P.M. or greater (v) concentration of chlorides in the irrigation water of 600 P.P.M. or greater, (vi) a LSI of less than -0.3, or (vii) alteration in the pH level of irrigation water.
- 4) Galvanized high strength steel or CN+ water pipe damaged by corrosion caused in whole or in part by: (i) wastewater, sludge, livestock manure or any corrosion-causing chemicals in irrigation water, (ii) gases entrained in irrigation water, (iii) acidity of water, as measured by the pH level of the following intensities (a) for galvanized high strength steel water pipe, a pH of 6.0 or less or 8.5 or more, and (b) for CN+ water pipe, a pH of 5.5 or less or 8.5 or more, (iv) concentrations of sulfates of 250 P.P.M. or greater for galvanized high strength steel water pipe and 300 P.P.M. or greater for CN+ water pipe, (v) concentrations of chlorides of 250 P.P.M. or greater for galvanized high strength steel water pipe and CN+ water pipe, (vi) a LSI less than 1.0 for galvanized high strength steel water pipe or a LSI less than 0.3 for CN+ water pipe, or (vii) alteration of the pH level of irrigation water.

A. CONDITIONS TO CLAIM WARRANTY BENEFITS

If the Irrigation System is found to have a performance or longevity affecting defect in materials or workmanship and such defect is within the coverage of this Limited Warranty, such defective component shall be repaired or replaced, at Reinke's sole option, provided the following conditions are met:

- 1) A completed warranty registration card, signed by both the Owner (or an authorized representative) and a Dealer, is returned to the Dealer Support Department at Reinke Manufacturing Co., Inc., P.O. Box 566, Deshler, Nebraska 68340, U.S.A. within sixty (60) days of the date of delivery of the Irrigation System to the Owner or the transfer of ownership of the Irrigation System to a new Owner.
- 2) The claimed performance or longevity affecting defect is discovered within the warranty time periods indicated above.
- 3) The Irrigation System and any covered components have at all times been installed, maintained and operated within specified design criteria pursuant to the guidelines and directives set forth in the Reinke System Owners/Operators Manual and all other Reinke published specifications. THIS WARRANTY SHALL NOT APPLY IF THE IRRIGATION SYSTEM HAS IN ANY WAY BEEN TAMPERED WITH, ALTERED, REPAIRED OR REPLACED BY ANYONE OTHER THAN REINKE OR A DEALER.

REINKE MANUFACTURING CO., INC. LIMITED WARRANTY (U.S. & CANADA)

4) Reinke makes no warranty for any Irrigation System component that has been (i) damaged by accident, acts of God, corrosion, the elements, abuse, misuse, misapplication, malicious mischief, vandalism, riots, wars, improper installation, neglect, design, or lack of proper and reasonable maintenance or (ii) modified in connection with the installation of any parts or accessories on the Irrigation System. Reinke makes no warranty for damage to the Irrigation System or any component thereof caused by alterations to the Irrigation System or such component which are not performed in conformity with Reinke's specifications.

All warranties described herein are for parts only F.O.B. Deshler, Nebraska, U.S.A. No labor or freight allowance is included. Owner shall be solely responsible for payment of all customs duties, importation fees, VAT or other like charges, including, but not limited to, Reinke's return shipment costs. To be entitled to benefits under this Limited Warranty, Owner must provide notice in writing to a Dealer within thirty (30) days after the failure is discovered or reasonably should have been discovered by Owner, and the Owner shall, at Owner's cost, deliver the component of the Irrigation System to a Dealer for performance of any repairs or replacements within sixty (60) days after the performance or longevity affecting defect is reported or such shorter time frame as may be required by Reinke. Any repairs or replacements of any component of the Irrigation System not performed by Reinke or a Dealer shall void this Limited Warranty.

B. TERMS AND CONDITIONS

The Irrigation System covered by this warranty is sold subject to Reinke's Limited Warranty only. The Irrigation System manufactured by Reinke shall be subject to this Limited Warranty, which the Dealer extends to the Owner of the Irrigation System. The selling Dealer or any other Dealer has no authority to make any modifications or changes to the terms and conditions hereof or to make any other representation, warranty, condition or promise on behalf of Reinke. Reinke makes no warranty covering the repair and replacement of a defect in workmanship and materials in auxiliary or supplemental equipment not directly manufactured by Reinke or on parts or components which may wear out, including but not limited to generators, engines, batteries, clutches, electric drag cords, oil seals, bearings, paint, decals, tires or tubing. Any warranties for such auxiliary or supplemental equipment, parts or components will be those offered by the respective supplier or manufacturer of the equipment, part or component (third-party warranties). Owner shall be solely responsible for compliance with the terms and conditions of any and all third-party warranties. Nothing in this Limited Warranty shall expand, enlarge upon or alter in any way, the third-party warranties. Tire warranties are expressly excluded from this Limited Warranty.

C. LIMITATIONS OF LIABILITY

REINKE AND OWNER AGREE THAT, IN CONSIDERATION OF THE LIMITED WARRANTY EXPRESSED HEREIN, ALL OTHER WARRANTIES OTHER THAN TITLE, EITHER EXPRESS OR IMPLIED, WHETHER ARISING UNDER LAW OR IN EQUITY, INCLUDING WITHOUT LIMITATION, THE WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXCLUDED. FURTHER, THE LIMITED WARRANTY EXPRESSED HEREIN IS MADE SOLELY TO THE OWNER OF THE IRRIGATION SYSTEM AND NOT TO ANY LESSOR OR LESSEE OF THE IRRIGATION SYSTEM DESCRIBED HEREIN. NO WARRANTIES, EXPRESSED OR IMPLIED, OF FITNESS OR MERCHANTABILITY ARE MADE OR ARISE WITH RESPECT TO USED EQUIPMENT, AUXILIARY OR SUPPLEMENTAL EQUIPMENT PURCHASED FROM THIRD PARTY MANUFACTURERS, OR ANY AND ALL PARTS, ACCESSORIES, GOODS AND EQUIPMENT MANUFACTURED BY THIRD PARTIES THAT ARE USED WITH, OR INCORPORATED IN, THE IRRIGATION SYSTEM.

NOTWITHSTANDING ANY OTHER PROVISIONS OF THIS LIMITED WARRANTY, IN NO EVENT SHALL REINKE OR ITS DEALER BE LIABLE, WHETHER ARISING UNDER CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHERWISE, FOR LOSS OF USE OF THE IRRIGATION SYSTEM; ANTICIPATED BUSINESS OR PROFITS (INCLUDING ANTICIPATED LEASE PAYMENTS); CROP DAMAGES; TRANSPORTATION, TOWING OR RELATED EXPENSES DUE TO REPAIRS, NON-OPERATION, REDUCED OPERATION OR INCREASED EXPENSE OF OPERATION; COST OF PURCHASED OR LEASED REPLACEMENT EQUIPMENT; COSTS DUE TO DELAYS OR DEFAULTS IN MAKING DELIVERY OR INSTALLATION OF THE IRRIGATION SYSTEM, REPLACEMENT EQUIPMENT OR ANY COMPONENT THEREOF; COST OF MONEY; LOSS OF USE OF CAPITAL OR REVENUE; LOSS OF OWNER'S TIME; OR FOR ANY CONSEQUENTIAL, INDIRECT, SPECIAL, PUNITIVE OR INCIDENTAL LOSS OR DAMAGE OF ANY NATURE ARISING AT ANY TIME OR FROM ANY CAUSE WHATSOEVER ARISING OUT OF OR IN CONNECTION WITH THE IRRIGATION SYSTEM OR THE USE THEREOF OR ARISING OUT OF A BREACH OF THE PURCHASE CONTRACT OR ANY WARRANTIES ARISING THEREFROM, WHETHER SUCH CLAIMS ARE MADE BY THE ORIGINAL OWNER OR ANY SUBSEQUENT OWNER, LESSOR OR LESSEE OF THE IRRIGATION SYSTEM, OR ANY RELATED SUCCESSOR IN INTEREST THERETO. MANUFACTURER DISCLAIMS ALL LIABILITY FOR ANY MODIFICATIONS MADE TO THE IRRIGATION SYSTEM FROM THE TIME IT LEAVES MANUFACTURER'S CUSTODY. NO CLAIM BY OWNER OF ANY KIND SHALL BE GREATER IN AMOUNT THAN THE NET PURCHASE PRICE OF THE IRRIGATION SYSTEM.

This Limited Warranty and the Limitations of Liability set forth herein shall be governed by and construed in accordance with the laws of the State of Nebraska, U.S.A. exclusive of choice of law rules. In the event any one or more of the provisions contained in this Limited Warranty and Limitations of Liability shall for any reason be held to be invalid, void or unenforceable in any respect, such invalid, void or unenforceable provision shall not in any way affect any other provision herein, but this Limited Warranty and Limitations of Liability shall be construed as if such invalid, void or unenforceable provision had never been contained herein. The limitations and exclusions may not be allowed by some states or provinces, and if, notwithstanding the choice of law provision contained herein, the law of such state or province applies, such limitations and exclusions shall not apply to the extent of applicable state or provincial law.

Water Savings Estimator for Irrigation System Planning and Ranking

Applicant: **Dan Van Vactor**
Farm/Tract ID: **604/1636**
Date: **10/28/24**

County: **Wasco**
Field ID: **14**
Evaluator: **Emily**

Climatic Region: **Region11** East Slope of Mt. Hood

Crop Rotation	EXISTING		PLANNED	
	Annual	Peak	Annual	Peak
	Net Irrig Req (in)	ET Rate (in/day)	Net Irrig Req (in)	ET Rate (in/day)
Year 1:	Alfalfa Hay 28.6	0.27	Alfalfa Hay 28.6	0.27
Year 2:	Alfalfa Hay 28.6	0.27	Alfalfa Hay 28.6	0.27
Year 3:	Alfalfa Hay 28.6	0.27	Alfalfa Hay 28.6	0.27
Year 4:	Alfalfa Hay 28.6	0.27	Alfalfa Hay 28.6	0.27
Year 5:	Alfalfa Hay 28.6	0.27	Alfalfa Hay 28.6	0.27
	Average: 28.6		Average: 28.6	
	Alternative NIR Value:		Alternative NIR Value:	

Water right (ac-in/ac):

Application System Predominant Soil: **Loam**

Existing Application System: **Hand/Wheel Line > 15 yr**

Planned Application System: **Center-Pivot**

Application System

Conveyance System Predominant Soil: **Loam**

Existing Conveyance System: **Pipeline**

Planned Conveyance System: **No Change**

Conveyance System

Planned Level of IWM: **Non-intense**

IWM

Estimated EXISTING water use: **52.4 acre-in/acre**

Estimated PLANNED water use: **33.4 acre-in/acre**

Annual Water Savings Estimate: **19.0 acre-in/acre**

Annual Water Savings Estimate: **36.3%**

Total Annual Water Savings Acres: **30**

Estimated savings for this field ONLY: **47.6 acre-ft**

Estimated Water Savings

	Existing System	Planned System
System Efficiency:	54%	85%
Quality Criteria Potential Efficiency:	66%	85%
Quality Criteria Met?	Yes	Yes

Quality Criteria