



**Water Solutions, Inc.**

August 11, 2016

Oregon Water Resources Department  
Attn: Water Right Permit Extensions  
725 Summer Street NE, Suite A  
Salem, OR 97301-1266

Re: Extension of Time Submittal  
Permit S-51017 –Madison Ranches, Inc.

Enclosed is an application requesting an extension of time for water right permit S-51017. Several permit amendments have modified the original permit. The permit amendments that added additional permit conditions are T-8857 and T-10768. Included in the package of information as proof of water use are the summary sheets for the Madison Farms Annual Irrigation Reports. We are also providing documentation of fish screening and the 2015 Progress Report form for S-51017. If any additional information is necessary, please do not hesitate to contact us.

We have included an estimate application for reimbursement authority to expedite the application processing.

If you have any questions, please call me at 503-239-8799 ext. 104.

Sincerely,

A handwritten signature in black ink, appearing to read "Jason Melady", with a long, sweeping underline.

Jason Melady, RG, CWRE  
Project Hydrogeologist  
GSI Water Solutions, Inc.

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

Attachments: Extension Reimbursement Authority Estimate Application  
Extension of Time Application  
Check in the amount of \$700

---

55 SW Yamhill Street, Suite 400 Portland, OR 97204 P: 503.239.8799 F: 503.239.8940 info@gsiwatersolutions.com www.gsiwatersolutions.com

**Application for Extension of Time for a Water Right Permit  
(NON-Municipal/NON Quasi-Municipal water Use)**



**Oregon Water Resources Department**  
725 Summer Street NE, Suite A  
Salem Oregon 97301  
(503) 986-0900  
www.wrd.state.or.us

**Criteria for a Permit Extension of Time**

**The Department can accept requests for an extension of time on permits to (1) complete construction, and/or to (2) apply water to beneficial use.**

**In order to approve a permit extension request the Department must be able to find:**

**1) Construction has begun:**

**A. For Groundwater Permits**

Construction of the well began within 5 years of the date the permit was issued or by the actual construction date specified in the permit.

**B. For Surface Water or Reservoir Permits**

Construction of the water system began within 5 years of the date the permit was issued or by the actual construction date specified in the permit.

**The Department will also confirm that:**

- 2) A required fish screen, fish passage or fish by-pass device was installed before or prior to diversion of any water. An exception to the need to confirm installation prior to diversion of any water would be a waiver submitted to the Department from ODFW stating that a fish screen, fish passage or fish by-pass device was not required, provided your permit allows for a waiver.**

**If you have questions, please call the Department at (503)-986-0900 and ask to speak with a permit extension specialist.**

RECEIVED BY OWRD

AUG 15 2016

**Instructions are in Attachment A.**

SALEM, OR



Before submitting your Application for Extension of Time, make sure the following items are included:

- This completed Application for Extension of Time.
- Statutory fee of \$575.
- Signature page (Second page of this Application for Extension of Time).
- All supporting documentation and/or evidence referenced in the Application for Extension of Time.

**MAIL COMPLETED APPLICATION  
along with the Supporting documents and/ or evidence**

**\$575 STATUTORY FEE TO:**

**Water Resources Department  
Attn: Water Right Permit Extensions  
725 Summer Street NE, Suite A  
Salem, Oregon 97301**



**GENERAL TIPS:**

- Permit holders of **municipal or quasi-municipal water use permits DO NOT use this form**. The correct form is APPLICATION FOR EXTENSION OF TIME FOR MUNICIPAL AND QUASI-MUNICIPAL WATER USE PERMITS, available at the following link:  
[http://www.oregon.gov/owrd/PUBS/docs/forms/fillable\\_muni\\_quasi\\_ext\\_app\\_form\\_2014.doc](http://www.oregon.gov/owrd/PUBS/docs/forms/fillable_muni_quasi_ext_app_form_2014.doc)
- Request the reasonable amount of time necessary to fully complete construction of the water project and/or to fully use the permitted quantity of water under the terms and conditions of your permit. Should this request be approved, it will be OWRD's expectation that you will complete your project within the new time period allowed. Future extensions may not be granted.
- A separate APPLICATION FOR EXTENSION OF TIME must be submitted for each permit. OAR 690-315-0020(2).
- An instruction sheet, INSTRUCTIONS FOR COMPLETING AN APPLICATION FOR EXTENSION OF TIME FOR A WATER RIGHT PERMIT (Attachment A), provides details that will help you answer each question on the application. Permit extensions are evaluated under OAR Chapter 690, Division 315. These rules may be viewed at:  
[http://arcweb.sos.state.or.us/pages/rules/oars\\_600/oar\\_690/690\\_315.html](http://arcweb.sos.state.or.us/pages/rules/oars_600/oar_690/690_315.html)
- You may provide OWRD with any additional information or evidence that will aid us in making our decision. Please note that OWRD may require other information that is necessary to evaluate the application. OAR 315-0020(3)(n).

RECEIVED BY OWRD

AUG 15 2016

- After careful review of the Application for Extension of Time, you may contact OWRD at (503) 986-0900, to ask questions and request assistance from a Permit Extensions Specialist in the Water Rights Services Division.
- An Application for an Extension of Time will be reviewed for completeness. OWRD will return any incomplete or deficient applications to the applicant. OAR 690-315-0040(1)(a).

**Reference Materials Needed to Complete this Application:**

- **The water right permit.** If needed, a copy of the water right permit can be downloaded from the Department's Website at <http://apps.wrd.state.or.us/apps/wr/wrinfo/> (using the link to the Water Rights Information System (WRIS). Or, a copy of the permit (or other documents) may be requested by water right application number from the Water Rights Division at 503-986-0900 (copy fees will apply).
- **Documentation which demonstrates compliance with permit conditions** (for example, well construction logs; static water level measurement reports; annual water use reports; ODFW fish screen certification; a plan to monitor the effect of water use on ground water aquifers utilized under the permit; etc.).

**Questions to complete this application for an Extension of Time**

Please see the instruction sheet to help you answer these questions.

**1. Beginning Construction within required deadlines.** OAR 690-315-0020(3)(d)

**For Groundwater Permits - NOT APPLICABLE**

**Has construction of the point of appropriation (well) authorized under this permit begun?**

Yes  No

**Date construction began:**

**Details of construction and attach documentation:**

**For Surface/Reservoir Permit**

**Has construction of the water system begun?**  Yes  No

**Date construction began:** March, 1989 (see previous extension application)

**Details of construction and attach documentation:** Construction began in March 1989. Since the last time extension, approximately 7.5 miles of main line, 8 pumps and 11 center pivots have been installed. A total of 9,615 acres are now under irrigation. Of this, 7,567 acres are for primary irrigation and 2,047 acres are for supplementary irrigation. See attached documentation for place of use and irrigation records.

RECEIVED BY OWRD

Revised 5/25/2016  
AUG 15 2016

OAD 690-315-0020(3)(A)(e)(A)

2. Permits typically contain standard or special conditions that must be fully satisfied to lawfully develop and use permitted water. Review the permit subject to this extension to identify which of the conditions listed in the 2<sup>nd</sup> column are contained within it. Using the extra row labeled "other" to specify any other additional conditions specified in a final order approving a permit amendment or prior extension of time. In the 1<sup>st</sup> column check the box for each condition (row) identified as relevant. In the 3<sup>rd</sup> column check "Yes" if you have completed or met the permit condition. Check "No" if the condition is not yet satisfied. In the 4<sup>th</sup> column, give the date when the condition was satisfied or will be satisfied. Attach any pertinent documentation. Note: a pump test condition does not need to be addressed here however; you must submit the results of the test to the Department for approval prior to certification.

CHART-A

Permit Conditions in this Permit		Have Completed or Met?	Date satisfied/ or will be satisfied
Checkbox	Ground water Check those included on this permit		
<input type="checkbox"/>	Installation of a meter/totalizing flow meter	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A
<input type="checkbox"/>	Submittal of annual water usage report	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A
<input type="checkbox"/>	Submittal of initial static water level measurement	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A
<input type="checkbox"/>	Submittal of annual static water level measurements in the month required	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A
<input type="checkbox"/>	Submittal of Seven consecutive static water level measurements in the month required	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A
<input type="checkbox"/>	Special well construction standards	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A
<input type="checkbox"/>	Submittal of a monitoring plan	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A
<input type="checkbox"/>	Other (Specify):	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A
<input type="checkbox"/>	Other (Specify):	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A
<input type="checkbox"/>	Other (Specify):	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A
<b>Surface Water or Reservoir</b>			
<input checked="" type="checkbox"/>	Installation of a meter/ totalizing flow meter/ in-line meter	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(See below)
<input type="checkbox"/>	Installation a staff gauge	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A
<input checked="" type="checkbox"/>	Installation of a fish screen	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	February 2016
<input type="checkbox"/>	Installation of a fish by-pass device	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A
<input type="checkbox"/>	Installation of a fish passage	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A
<input type="checkbox"/>	Installation of an outlet gate/pipe/ conduit	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A
<input type="checkbox"/>	Submittal of a letter from ODFW that fish screen, fish by-pass device, and or fish passage is not required	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A; Fish passage is required
<input type="checkbox"/>	Submit as-built plans and specification	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A
<input type="checkbox"/>	Submittal of a letter from an engineer prior to storage	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A
<input checked="" type="checkbox"/>	Other (Specify): Annual reports submitted to OWRD	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Yearly
<input checked="" type="checkbox"/>	Other (Specify): The permittee does not have permission to trespass on lands not owned by the permittee.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Ongoing
<input checked="" type="checkbox"/>	Other (Specify): Checkpoint condition for 10/1/2015	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2016

AUG 15 2016

A flow meter was installed at POD 1 on 3/1/1991. Flow meters installed at POD 2, where the water enters the farm system, where the water leaves the North Farm area toward Lamb-Weston/South farm, where water enters the Lamb-Weston effluent system and where water enters the South Farm on 5/21/2002. A flow meter was installed at the first pump station where water enters the Madison property from POD 3 in November 1997.

**If you have NOT complied with Permit conditions, explain the reasons why and indicate a date certain, when you will be in compliance.**

[OAR 690-315-0020(3)(e)]

**3. Provide evidence of physical work made toward completion of the water system, and of progress made toward making beneficial use of water within the permitted time period (CHART-B); and if applicable, within the time period of the most recent extension granted (CHART-C). CHART-B (below) must be completed for all Application for Extension of Time requests. Use chronological order.** (this does NOT include planning, formulating a business plan, securing financing, letting contracts, purchasing but not installing equipment, surveying, clearing land, or planting crops)

**CHART-B**

<b>DATE</b>	<b>WORK ACCOMPLISHED BEFORE PERMIT WAS ISSUED</b> <i>List any work done before the permit was issued – eg. well drilled.</i>	<b>COST*</b>
Pre 1/1990	Had developed 500 acres for which this permit provides supplemental irrigation	\$1.4 Million
<b>DATE</b>	<b>WORK ACCOMPLISHED AFTER PERMIT WAS ISSUED</b> <b>and PRIOR TO DATE SPECIFIED IN PERMIT</b> <b>FOR COMPLETE APPLICATION OF WATER</b> <i>List work/actions done during the permitted time period.</i>	<b>COST*</b>
7/3/1990	Date the permit was signed - find date above signature on last page of permit.	
7/3/1990 to 7/5/1991	Installed 18 pivots and 22 miles of main line. Irrigating a total of 2,250 acres (primary and supplemental).	\$2.5 Million
7/5/1991	Date the Permit specified "Actual Construction Work" shall begin (A-Date)	
7/5/1991 to 10/1/1993	Installed an additional 5 pivots and main line. Irrigating another 640 acres (total now 2,900 acres primary and supplemental)	\$0.7 Million
10/1/1993	Date the permit specified complete application of water to the use shall be made- all permits contain this date.	
<b>DATE</b>	<b>WORK ACCOMPLISHED AFTER the date the permit specified complete application of water</b> <b>COMPLETE ONLY IF THIS IS YOUR 1st APPLICATION FOR AN EXTENSION OF TIME:</b> <i>List work done after the date specified in the permit for complete application of water up to the date of this Application for Extension of Time.</i>	<b>COST*</b>
	Not applicable. This is not the first extension	N/A
<b>Total Cost for Chart-B</b>		<b>\$4.6 Million</b>

\* If exact cost is not known, you must provide your best estimate.

RECEIVED BY OWRD

Revised 5/26/2016  
AUG 13 2016

Application for an Extension of time for a Permit

Page 6 of 1

SALEM, OR  
Attachment A

7/117

4. If this is not your 1st Application for Extension of Time request, fill out CHART-C below in addition to CHART-B above. Use chronological order.

**CHART-C**

DATE	<b>WORK ACCOMPLISHED DURING THE LAST EXTENSION PERIOD</b> <i>List all work done during the last authorized extension period.</i>	COST*
10/1/2010	"Extended From" date for complete application of water used in the 1 <sup>st</sup> (or the most recent) Application for Extension of Time.	
10/2010 to 10/2011	Installed approximately 8 miles of mainline, one booster pump and one generator.	\$979,643
2/2012 to 3/2013	Installed mainline, pivots, pumps for four pivots and irrigated an additional 480 acres.	\$415,902
3/2013 to 5/2013	Installed 3,300 ft of 30-inch mainline.	\$355,915
1/2014 to 4/2014	Installed pivots (3), mainline and cluster and irrigated an additional 375 acres.	\$522,656
12/2014 to 3/2015	Installed pivot, mainline and booster pump.	\$148,597
3/2015 to 7/2015	New pump station and trash screen.	\$738,643
10/1/2015	"Extended To" date for complete application of water resulting from the 1 <sup>st</sup> (or the most recent) Application for Extension of Time.	
DATE	<b>WORK ACCOMPLISHED AFTER THE LAST EXTENSION PERIOD EXPIRED</b> <i>List all work done after the last authorized date for complete application of water up to the date of this Application for Extension of Time.</i>	COST*
<b>Total Cost of Chart-C</b>		<b>\$3,161,356</b>

\* If exact cost is not known, you must provide your best estimate. [OAR 690-315-0020(3)(f)]

5. Cost of project to date: Approximately \$3.2 million since last extension.  
 (The total combined cost from CHART-B and CHART-C) [OAR 690-315-0020(f)]

RECEIVED BY OWRD

AUG 15 2016

[OAR 690-315-0020(3)(e)(B)]

SALEM, OR

Provide evidence of the maximum rate (or duty, if applicable) of water diverted for beneficial use under this permit and/or prior extensions of time (if any) made to date.

TIP: Report the rate used to date. Unless full beneficial use has been made, this rate will be less than the rate authorized on the permit.



**6. For Surface Water Permit Extensions (e.g. S-XXXX or R-XXXX):**

*TIP: Report the rate in the same units of measurement as specified in the permit.*

Maximum rate used to date = 33.42 cfs (cubic feet per second) or,

Maximum rate used to date = \_\_\_\_\_ gpm (gallons per minute) or,

Acre-feet stored to date = \_\_\_\_\_ AF

**7. For Ground Water Permit Extensions (e.g. G-XXXX): NOT APPLICABLE**

*TIP: Include information from ALL wells that pertain to this permit, including drilled wells not currently used.*

**CHART-D**

Well # as identified on Permit	Water User's Well #	Has this well been drilled?	IF DRILLED					
			Well Log Number e.g. MORR 50473	Well Tag Number e.g. # 27565 or A/A	Is the actual drilled location authorized in this permit or on a permit amendment? (See 8 below)	Maximum instantaneous rate used to date from this well - under this permit only (CFS or GPM)	Is this well authorized or utilized under any OTHER water rights?	If yes, provide the Permit, Certificate, or Transfer No.
		Yes <input type="checkbox"/> No <input type="checkbox"/>			Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>	- -
		Yes <input type="checkbox"/> No <input type="checkbox"/>			Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>	- -
		Yes <input type="checkbox"/> No <input type="checkbox"/>			Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>	- -
		Yes <input type="checkbox"/> No <input type="checkbox"/>			Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>	- -
Total instantaneous rate from all wells utilized under this permit								

**8. If the drilled location of a well is not authorized on this permit, please specify its location below, or provide a map showing its location. NOT APPLICABLE**

Has or will a Permit Amendment Application been/be filed? Yes  No

If a Permit Amendment Application has been filed: Transfer No. T-\_\_\_\_\_

Well # \_\_\_\_\_ Actual location: \_\_\_\_\_ Well # \_\_\_\_\_ Actual location: \_\_\_\_\_

[OAR 690-315-0020(3)(e)(C)]

**9. Provide the total number of acres irrigated to date under this permit (if applicable).**

List by year, the number of acres irrigated each year since permit issuance, and provide a copy of the application map identifying the acres irrigated.

RECEIVED BY OWRD

Revised 5/25/2016  
AUG 15 2016

Application for an Extension of time for a Permit

Page 8 of 1

SALEM, OR  
Attachment A

9/117

Total acres irrigated to date: 9,615 acres (7,567 acres primary; 2,047 acres supplementary)  
 8,645 acres irrigated by 2010 (date of last time extension); 9,615 acres irrigated by 2015.

**Ground Water Permits:** Please specify which wells are being utilized for this irrigation. **NOT APPLICABLE**

Well # \_\_\_\_\_ Acres \_\_\_\_\_      Well # \_\_\_\_\_ Acres \_\_\_\_\_  
 Well # \_\_\_\_\_ Acres \_\_\_\_\_      Well # \_\_\_\_\_ Acres \_\_\_\_\_

[OAR 690-315-0020(3)(i)(j)]

10. Provide a summary of your future plans and schedule to complete the construction of the water system, and/or apply water to full beneficial use under the terms and conditions of the permit.

CHART-E

APPROXIMATE DATE RANGE (projected)	WORK OR ACTION TO BE ACCOMPLISHED (projected)	ESTIMATED COST (projected)
7/2016 to 10/2020	Install roughly 40,000 ft of mainline, 11 new pivots, and 8 new pumps/boosters.	\$4.3 Million
Year: 2020	Date intend to apply water to full beneficial use under the terms and conditions of this permit.	
<b>Total Cost</b>		<b>\$4.3 Million</b>

[OAR 690-315-0020(3)(g)]

11. Estimated remaining cost to complete the project: \$4.3 Million  
 (The total cost from CHART-E)

[OAR 690-315-0020(3)(h)]

12. Describe the reasons why the construction was not completed, and/or water was not beneficially used within permit time limits. Provide supporting information for the reason(s) that best fits your circumstances. Include any additional unforeseen events and/or other governmental regulation or requirements.  
Economic conditions in this area have required that capital improvements be phased in rather than completed all at once. Development was also delayed by the Columbia Improvement District/Port of Morrow alluvial well deal falling through. As a result, additional time is need to complete the development of this permit.

**13. Justify the time requested to complete the project and/or apply the water to full beneficial use.** Include any other information or evidence to establish that the requested amount of time is sufficient and that you will be able to complete the project within the amount of time requested.

During the past extension period (2010 to 2015), significant progress has been made toward the development of this permit. Several upgrades have been made to the water system, including connecting to POD #3 through the Hermiston Generating plant.

A contract with the Port of Morrow is still being developed. This agreement will allow for diversion from the Columbia River to be used for irrigation. Plans are in place to install the infrastructure necessary to irrigate the acreage remaining on Permit S-51017. Therefore, the requested extension of time until 2020 is both reasonable and necessary.

[OAR 690-315-0020(3)(m)(n)]

**14. Provide any other information you wish OWRD to consider while evaluating your Application for Extension of Time.**

---

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

**Attach permit, and documentation to the application.**

**RECEIVED BY OWRD**

**AUG 15 2016**

**SALEM, OR**

**Attachment 1**  
**Water Right Permit**  
*Time Extension for Permit S-51017*

---

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

STATE OF OREGON

COUNTY OF MORROW

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

KENT R. AND SHANNON K. MADISON  
HCR 70, BOX 301  
ECHO, OREGON 97826

503-376-8347

to use the waters of COLUMBIA RIVER, a tributary of PACIFIC OCEAN, for IRRIGATION OF 7597.9 ACRES AND SUPPLEMENTAL IRRIGATION OF 2047.3 ACRES.

This Permit is issued approving Application 70272. The date of priority is APRIL 2, 1990. The use is limited to not more than 33.42 CUBIC FEET PER SECOND, or its equivalent in case of rotation, measured at the point of diversion from the source.

The point of diversion is located as follows:

LOT 7 (NE 1/4 NW 1/4), SECTION 2, T 4 N, R 25 E, W.M.; 150 FEET SOUTH AND 2990 FEET WEST FROM NE CORNER, SECTION 2.

The amount of water used for irrigation, together with the amount secured under any other right existing for the same lands, shall be limited to ONE-FORTIETH of one cubic foot per second per acre, or its equivalent for each acre irrigated and shall be further limited to a diversion of not to exceed 4.5 acre-feet per acre for each acre irrigated during the period from March 1 to November 1 each year. It is further limited to a diversion of not to exceed 1.5 acre-feet per acre irrigated during the period from November 2 to the end of February, provided the use of water shall not exceed 4.5 acre-feet for each acre irrigated in any one year. The quantity of water allowed herein, together with any other existing right from this point of diversion shall not exceed the current capacity of the diversion system.

The use allowed herein may be made any time when water can be put to beneficial use by irrigation, either for immediate crop growth or for forecast requirements to raise the soil moisture to field capacity in the soil profile to be utilized by plant growth in the subsequent growing season.

In the interest of conserving limited ground water and Butter Creek water supplies, the use of waters described as supplemental irrigation may be exercised at times when water is available at the primary source, provided the total quantity diverted from all sources of supply does not exceed the limitation allowed herein. Lands listed as being supplemental irrigation may be considered as primary irrigation if at time of final proof it is determined no primary right exists for these lands.

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

A description of the proposed place of use under this Permit is as follows:

*T-9672 APO (Temp) V.60 p.509*

*T-857A AUC-100* NE 1/4 NW 1/4  
NW 1/4 NW 1/4

PRIMARY	SUPPLEMENTAL
6.0 ACRES	40.0 ACRES
SECTION 1	34.0 ACRES

TOWNSHIP 2 NORTH, RANGE 27 EAST, W.M.

AMENDED by special order

V. 54 pg. 49

Application 70272

Water Resources Department

PERMIT 51017

RECEIVED BY QWRD

AUG 15 2016

SALEM, OR

Attachment A  
7540 AMENDED V 59 p 20

T-9672 T 306 14/117

NE 1/4 NE 1/4 8.0 ACRES  
 SW 1/4 NE 1/4 22.0 ACRES  
 SE 1/4 NE 1/4 38.0 ACRES  
 SE 1/4 NW 1/4 3.0 ACRES  
 NE 1/4 SW 1/4 38.0 ACRES  
 NW 1/4 SW 1/4 30.0 ACRES  
 SW 1/4 SW 1/4 40.0 ACRES  
 SE 1/4 SW 1/4 40.0 ACRES  
 NE 1/4 SE 1/4 40.0 ACRES  
 NW 1/4 SE 1/4 40.0 ACRES  
 SW 1/4 SE 1/4 40.0 ACRES  
 SE 1/4 SE 1/4 40.0 ACRES  
 SECTION 1

SE 1/4 SW 1/4 30.0 ACRES  
 SW 1/4 SE 1/4 40.0 ACRES  
 SECTION 2

NE 1/4 NE 1/4 40.0 ACRES  
 NW 1/4 NE 1/4 40.0 ACRES  
 SW 1/4 NE 1/4 40.0 ACRES  
 SE 1/4 NE 1/4 40.0 ACRES  
 NE 1/4 NW 1/4 40.0 ACRES  
 NW 1/4 NW 1/4 40.0 ACRES  
 SW 1/4 NW 1/4 40.0 ACRES  
 SE 1/4 NW 1/4 40.0 ACRES  
 NE 1/4 SW 1/4 40.0 ACRES  
 NW 1/4 SW 1/4 40.0 ACRES  
 SW 1/4 SW 1/4 40.0 ACRES  
 SE 1/4 SW 1/4 40.0 ACRES  
 NE 1/4 SE 1/4 40.0 ACRES  
 NW 1/4 SE 1/4 40.0 ACRES  
 SW 1/4 SE 1/4 40.0 ACRES  
 SE 1/4 SE 1/4 40.0 ACRES  
 SECTION 11

NE 1/4 NE 1/4 40.0 ACRES  
 NW 1/4 NE 1/4 40.0 ACRES  
 SW 1/4 NE 1/4 40.0 ACRES  
 SE 1/4 NE 1/4 40.0 ACRES  
 NE 1/4 NW 1/4 40.0 ACRES  
 NW 1/4 NW 1/4 40.0 ACRES  
 SW 1/4 NW 1/4 40.0 ACRES  
 SE 1/4 NW 1/4 40.0 ACRES  
 NE 1/4 SW 1/4 40.0 ACRES  
 NW 1/4 SW 1/4 40.0 ACRES  
 SW 1/4 SW 1/4 40.0 ACRES  
 SE 1/4 SW 1/4 40.0 ACRES  
 NE 1/4 SE 1/4 40.0 ACRES  
 NW 1/4 SE 1/4 40.0 ACRES  
 SECTION 12

NE 1/4 NE 1/4 40.0 ACRES  
 NW 1/4 NE 1/4 40.0 ACRES  
 SW 1/4 NE 1/4 40.0 ACRES  
 SE 1/4 NE 1/4 40.0 ACRES  
 NE 1/4 NW 1/4 40.0 ACRES  
 NW 1/4 NW 1/4 40.0 ACRES  
 SW 1/4 NW 1/4 40.0 ACRES  
 SE 1/4 NW 1/4 40.0 ACRES  
 NE 1/4 SW 1/4 30.0 ACRES  
 NW 1/4 SW 1/4 40.0 ACRES  
 SW 1/4 SW 1/4 40.0 ACRES  
 NE 1/4 SE 1/4 40.0 ACRES  
 NW 1/4 SE 1/4 40.0 ACRES  
 SW 1/4 SE 1/4 40.0 ACRES  
 SE 1/4 SE 1/4 40.0 ACRES  
 SECTION 13

RECEIVED BY OWRD  
 AUG 15 2016  
 SALEM, OR

NE 1/4 NE 1/4 40.0 ACRES  
NW 1/4 NE 1/4 40.0 ACRES  
SW 1/4 NE 1/4 40.0 ACRES  
SE 1/4 NE 1/4 40.0 ACRES  
NE 1/4 NW 1/4 40.0 ACRES  
NW 1/4 NW 1/4 40.0 ACRES  
SW 1/4 NW 1/4 40.0 ACRES  
SE 1/4 NW 1/4 40.0 ACRES  
NE 1/4 SW 1/4 40.0 ACRES  
NW 1/4 SW 1/4 40.0 ACRES  
SE 1/4 SW 1/4 40.0 ACRES  
NE 1/4 SE 1/4 40.0 ACRES  
NW 1/4 SE 1/4 40.0 ACRES  
SE 1/4 SE 1/4 40.0 ACRES  
SECTION 14

NE 1/4 NW 1/4 40.0 ACRES  
NW 1/4 NW 1/4 40.0 ACRES  
SW 1/4 NW 1/4 40.0 ACRES  
SE 1/4 NW 1/4 40.0 ACRES  
SECTION 15

NE 1/4 NE 1/4 40.0 ACRES  
NW 1/4 NE 1/4 40.0 ACRES  
SW 1/4 NE 1/4 40.0 ACRES  
SE 1/4 NE 1/4 40.0 ACRES  
NE 1/4 NW 1/4 40.0 ACRES  
NW 1/4 NW 1/4 40.0 ACRES  
SW 1/4 NW 1/4 40.0 ACRES  
SE 1/4 NW 1/4 40.0 ACRES  
NE 1/4 SW 1/4 40.0 ACRES  
NW 1/4 SW 1/4 40.0 ACRES  
SW 1/4 SW 1/4 40.0 ACRES  
SE 1/4 SW 1/4 40.0 ACRES  
NE 1/4 SE 1/4 40.0 ACRES  
NW 1/4 SE 1/4 40.0 ACRES  
SW 1/4 SE 1/4 40.0 ACRES  
SE 1/4 SE 1/4 40.0 ACRES  
SECTION 16

NE 1/4 NE 1/4 40.0 ACRES  
NW 1/4 NE 1/4 40.0 ACRES  
SW 1/4 NE 1/4 40.0 ACRES  
SE 1/4 NE 1/4 40.0 ACRES  
NE 1/4 NW 1/4 40.0 ACRES  
SE 1/4 NW 1/4 40.0 ACRES  
NE 1/4 SW 1/4 40.0 ACRES  
SW 1/4 SW 1/4 40.0 ACRES  
SE 1/4 SW 1/4 40.0 ACRES  
NE 1/4 SE 1/4 40.0 ACRES  
NW 1/4 SE 1/4 40.0 ACRES  
SW 1/4 SE 1/4 40.0 ACRES  
SE 1/4 SE 1/4 40.0 ACRES  
SECTION 23

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR



NE 1/4 NE 1/4	40.0 ACRES	
NW 1/4 NE 1/4	40.0 ACRES	
SW 1/4 NE 1/4	37.0 ACRES	3.0 ACRES
SE 1/4 NE 1/4	32.9 ACRES	7.1 ACRES
NE 1/4 SE 1/4		40.0 ACRES
NW 1/4 SE 1/4		40.0 ACRES
SW 1/4 SE 1/4		40.0 ACRES
SE 1/4 SE 1/4		40.0 ACRES

SECTION 24

NE 1/4 NE 1/4		40.0 ACRES
NW 1/4 NE 1/4		40.0 ACRES
SW 1/4 NE 1/4	18.4 ACRES	21.6 ACRES
SE 1/4 NE 1/4	19.6 ACRES	20.4 ACRES
NE 1/4 NW 1/4	3.8 ACRES	36.2 ACRES
NW 1/4 NW 1/4	37.3 ACRES	2.7 ACRES
SW 1/4 NW 1/4	37.6 ACRES	2.4 ACRES
SE 1/4 NW 1/4	5.4 ACRES	34.6 ACRES
NE 1/4 SW 1/4	40.0 ACRES	
NW 1/4 SW 1/4	40.0 ACRES	
SW 1/4 SW 1/4	40.0 ACRES	
SE 1/4 SW 1/4	40.0 ACRES	
NE 1/4 SE 1/4	2.0 ACRES	38.0 ACRES
NW 1/4 SE 1/4	34.0 ACRES	6.0 ACRES
SW 1/4 SE 1/4	14.0 ACRES	26.0 ACRES
SE 1/4 SE 1/4		40.0 ACRES

SECTION 25

NE 1/4 NE 1/4	40.0 ACRES	
NW 1/4 NE 1/4	40.0 ACRES	
SW 1/4 NE 1/4	40.0 ACRES	
SE 1/4 NE 1/4	40.0 ACRES	
NE 1/4 NW 1/4	40.0 ACRES	
NW 1/4 NW 1/4	40.0 ACRES	
SW 1/4 NW 1/4	40.0 ACRES	
SE 1/4 NW 1/4	40.0 ACRES	
NE 1/4 SW 1/4	40.0 ACRES	
NW 1/4 SW 1/4	40.0 ACRES	
SW 1/4 SW 1/4	40.0 ACRES	
SE 1/4 SW 1/4	40.0 ACRES	
NE 1/4 SE 1/4	40.0 ACRES	
NW 1/4 SE 1/4	40.0 ACRES	
SW 1/4 SE 1/4	40.0 ACRES	
SE 1/4 SE 1/4	40.0 ACRES	

SECTION 26

NE 1/4 NE 1/4	40.0 ACRES	
NW 1/4 NE 1/4	40.0 ACRES	
SW 1/4 NE 1/4	40.0 ACRES	
SE 1/4 NE 1/4	40.0 ACRES	
NE 1/4 NW 1/4	40.0 ACRES	
NW 1/4 NW 1/4	40.0 ACRES	
SW 1/4 NW 1/4	40.0 ACRES	
SE 1/4 NW 1/4	40.0 ACRES	
NE 1/4 SW 1/4	40.0 ACRES	
NW 1/4 SW 1/4	40.0 ACRES	
NE 1/4 SE 1/4	40.0 ACRES	
NW 1/4 SE 1/4	40.0 ACRES	
SW 1/4 SE 1/4	40.0 ACRES	
SE 1/4 SE 1/4	40.0 ACRES	

SECTION 34

RECEIVED BY OWRD  
 AUG 15 2016  
 SALEM, OR

NE 1/4 NW 1/4 40.0 ACRES  
 NW 1/4 NW 1/4 40.0 ACRES  
 SW 1/4 NW 1/4 40.0 ACRES  
 SE 1/4 NW 1/4 40.0 ACRES  
 SECTION 35

NE 1/4 NE 1/4 40.0 ACRES  
 NW 1/4 NE 1/4 40.0 ACRES  
 SW 1/4 NE 1/4 40.0 ACRES  
 SE 1/4 NE 1/4 40.0 ACRES  
 NE 1/4 NW 1/4 30.0 ACRES 10.0 ACRES  
 NW 1/4 NW 1/4 40.0 ACRES  
 SW 1/4 NW 1/4 36.0 ACRES 4.0 ACRES  
 SE 1/4 NW 1/4 40.0 ACRES  
 NE 1/4 SW 1/4 40.0 ACRES  
 NW 1/4 SW 1/4 26.0 ACRES 14.0 ACRES  
 SW 1/4 SW 1/4 19.0 ACRES 21.0 ACRES  
 SE 1/4 SW 1/4 40.0 ACRES  
 NE 1/4 SE 1/4 40.0 ACRES  
 NW 1/4 SE 1/4 40.0 ACRES  
 SW 1/4 SE 1/4 40.0 ACRES  
 SE 1/4 SE 1/4 4.0 ACRES 36.0 ACRES

SECTION 36

TOWNSHIP 3 NORTH, RANGE 27 EAST, W.M.

NE 1/4 NW 1/4 40.4 ACRES  
 NW 1/4 NW 1/4 32.0 ACRES  
 SW 1/4 NW 1/4 32.3 ACRES  
 SE 1/4 NW 1/4 40.0 ACRES  
 NE 1/4 SW 1/4 40.0 ACRES  
 NW 1/4 SW 1/4 32.5 ACRES  
 SW 1/4 SW 1/4 32.7 ACRES  
 SE 1/4 SW 1/4 40.0 ACRES  
 SECTION 6

NE 1/4 NW 1/4 40.0 ACRES  
 NW 1/4 NW 1/4 33.0 ACRES  
 SW 1/4 NW 1/4 33.3 ACRES  
 SE 1/4 NW 1/4 40.0 ACRES  
 NE 1/4 SW 1/4 40.0 ACRES  
 NW 1/4 SW 1/4 33.8 ACRES  
 SW 1/4 SW 1/4 34.3 ACRES  
 SE 1/4 SW 1/4 40.0 ACRES  
 SECTION 7

SW 1/4 NE 1/4 3.0 ACRES  
 SE 1/4 NW 1/4 37.0 ACRES  
 NE 1/4 SW 1/4 25.0 ACRES  
 NW 1/4 SW 1/4 40.0 ACRES  
 SW 1/4 SW 1/4 40.0 ACRES  
 SE 1/4 SW 1/4 12.0 ACRES  
 SECTION 17

SE 1/4 NE 1/4 40.0 ACRES  
 NE 1/4 NW 1/4 40.0 ACRES  
 NW 1/4 NW 1/4 35.3 ACRES  
 SW 1/4 NW 1/4 34.8 ACRES  
 SE 1/4 NW 1/4 38.0 ACRES  
 NE 1/4 SW 1/4 20.0 ACRES  
 NW 1/4 SW 1/4 40.0 ACRES  
 SW 1/4 SW 1/4 35.2 ACRES  
 SE 1/4 SW 1/4 28.5 ACRES 11.5 ACRES  
 NE 1/4 SE 1/4 4.0 ACRES 36.0 ACRES  
 SW 1/4 SE 1/4 40.0 ACRES  
 SE 1/4 SE 1/4 40.0 ACRES  
 SECTION 18

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

NE 1/4 NE 1/4	40.0 ACRES	
NW 1/4 NE 1/4	1.9 ACRES	38.1 ACRES
SW 1/4 NE 1/4		40.0 ACRES
SE 1/4 NE 1/4	40.0 ACRES	
NE 1/4 NW 1/4	3.8 ACRES	36.2 ACRES
NW 1/4 NW 1/4	34.7 ACRES	0.7 ACRES
SW 1/4 NW 1/4	35.7 ACRES	
SE 1/4 NW 1/4	0.6 ACRES	39.4 ACRES
NE 1/4 SW 1/4		40.0 ACRES
NW 1/4 SW 1/4		36.0 ACRES
SW 1/4 SW 1/4		33.0 ACRES
SE 1/4 SW 1/4		22.0 ACRES
NE 1/4 SE 1/4	8.0 ACRES	31.0 ACRES
NW 1/4 SE 1/4	40.0 ACRES	
SW 1/4 SE 1/4	0.6 ACRES	39.4 ACRES
SE 1/4 SE 1/4	4.2 ACRES	28.8 ACRES

SECTION 19

NE 1/4 NW 1/4	2.0 ACRES	
NW 1/4 NW 1/4	36.0 ACRES	
SW 1/4 NW 1/4	15.0 ACRES	
NW 1/4 SW 1/4		7.0 ACRES

SECTION 20

NE 1/4 NE 1/4		18.9 ACRES
NW 1/4 NE 1/4		40.0 ACRES
SW 1/4 NE 1/4		39.0 ACRES
SE 1/4 NE 1/4		5.0 ACRES
NW 1/4 NW 1/4		16.0 ACRES
SW 1/4 NW 1/4		38.0 ACRES
SE 1/4 NW 1/4		40.0 ACRES
NE 1/4 SW 1/4		40.0 ACRES
NW 1/4 SW 1/4	1.1 ACRES	36.0 ACRES
SW 1/4 SW 1/4	0.9 ACRES	36.4 ACRES
SE 1/4 SW 1/4		40.0 ACRES
NE 1/4 SE 1/4	40.0 ACRES	
NW 1/4 SE 1/4	26.2 ACRES	13.8 ACRES
SW 1/4 SE 1/4	40.0 ACRES	
SE 1/4 SE 1/4	40.0 ACRES	

SECTION 30

NE 1/4 NW 1/4		22.0 ACRES
NW 1/4 NW 1/4		38.0 ACRES
SW 1/4 NW 1/4		39.0 ACRES
SE 1/4 NW 1/4		3.0 ACRES
NW 1/4 SW 1/4	8.1 ACRES	18.6 ACRES
SW 1/4 SW 1/4		7.5 ACRES

SECTION 31

TOWNSHIP 3 NORTH, RANGE 28 EAST, W.M.

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

Diversion screening facilities shall be designed, installed, and operated to Oregon Department of Fish and Wildlife specifications.

Actual construction work shall begin on or before July 5, 1991, and shall be completed on or before October 1, 1992. Complete application of the water to the use shall be made on or before October 1, 1993.

*10-1-93*  
*10-1-95, 10-1-96*

During the development phase of this project, the permit holder shall provide a report to the Department on or about January 30 each year, including an analysis of project efficiencies, water use and crop yields.

Failure to comply with any of the provisions of this permit may result in action including, but not limited to restrictions on the use, civil penalties, or cancellation of the permit.

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

The use of water allowed herein may be made only at times when sufficient water is available to satisfy all prior rights, including rights for maintaining instream flows.

Issued this date, July 3, 1990.

/s/ WILLIAM H. YOUNG  
Water Resources Department  
William H. Young  
Director

BC 45

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

Application 70272  
Basin 7  
70272.SB

Water Resources Department  
Volume 3A Columbia River & Misc.

PERMIT 51017  
District 5

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

**Attachment 2**  
**Previous Time Extension Application**  
*Time Extension for Permit S-51017*

---



November 29, 2010

Oregon Water Resources Department  
North Mall Office Building  
725 Summer Street NE, Suite A  
Salem, OR 97301-1266

Re: Extension of Time Submittal  
Permit S-51017 – Kent Madison

Enclosed is an application requesting an extension of time for water right permit S-51017. Several permit amendments have modified the original permit. The three permit amendments that added additional permit conditions are T-8857 and T-10768. Included in the package of information as proof of water use are the summary sheets for the Madison Farms Annual Irrigation Reports. If any additional information is necessary, please do not hesitate to contact us.

We have included an estimate application for reimbursement authority to expedite the application processing.

If you have any questions, please call me at 503-239-8799 ext. 104.

Sincerely,

A handwritten signature in black ink, appearing to read "JM", is written over a light blue horizontal line.

Jason Melady, RG, CWRE  
Project Hydrogeologist  
GSI Water Solutions, Inc.

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

Attachments: Extension of Time Application



**OREGON WATER RESOURCES DEPARTMENT  
EXTENSION REIMBURSEMENT AUTHORITY  
ESTIMATE APPLICATION**



*ORS 536.055 authorizes the Oregon Water Resources Department to expedite or enhance regulatory processes voluntarily requested under the agreement.*

*The purpose of this application is to obtain estimates of the cost and time required to process a Water Right Extension Request. There is a non-refundable application fee of \$125.00 per request.*

<u>REQUEST</u>	<u>TYPE</u>	<u>FILE NUMBER</u>	
<input checked="" type="checkbox"/>	Extension Request	Application Number	<u>S-70272</u>
		Permit Number	<u>S-51017</u>

	<u>Applicant Information</u>	<u>Applicant's Representative/Contact</u>
Name:	Kent Madison	Jason Melady
Title (optional):		
Address:	29299 Madison Road Echo, OR 97826	55 SW Yamhill Street, Suite 400 Portland, OR 97204
Phone:	(541) 376-8107	(503) 239-8799
E-Mail Address:	kentmadison@eoni.com	jmelady@gsiws.com

I certify that I (check one):

- have previously filed an application for Extension of Time for a Water Right Permit.
- am attaching the application for Extension of Time for a Water Right Permit and have included the appropriate application fee.

I understand the following:

- That upon receipt of my non-refundable application fee in the amount of **\$ 125.00**, OWRD will, within fourteen (14) days, notify me in writing of the estimates of cost and time frame for the expedited service.
- That this fee covers the reimbursement authority staff to evaluate and provide the estimate for processing of the request.
- That upon receiving the estimate I may agree or decline to enter into a formal contract to pay the estimated cost in advance to initiate the expedited service.
- An incomplete or inaccurate application for Extension of Time for a Water Right Permit may delay the process and increase the cost to process my request.
- Expedited processing does not guarantee a favorable review of my request.

You may request a one-hour conference with OWRD staff. The conference would only occur after you have signed the contract and paid the estimated cost of processing your application. Please indicate your preference (check one):

- I do not want to schedule a one-hour conference with OWRD staff.
- I want to schedule a one-hour conference with OWRD staff to discuss my project. I understand that I will be billed for this time, and that it may affect my total costs.

Send completed Application and payment to:  
Oregon Water Resources Department  
Extension Reimbursement Authority Program  
725 Summer St. NE, Suite A  
Salem, OR 97301-1271

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

I certify that I am the (check one):

- Applicant  Applicant's Representative  Other (Please specify) \_\_\_\_\_

Name: Kent Madison

Signature:

**OWRD USE ONLY: Reimbursement Authority Number: R11 \_\_\_\_\_ 11**



**Oregon Water Resources Department**  
 725 Summer Street NE, Suite A  
 Salem Oregon 97301  
 (503) 986-0900  
 www.wrd.state.or.us

**Application for  
 Extension of Time  
 for a Water Right Permit  
 (Non-Municipal / Non-Quasi-municipal Water Use)**

TO THE DIRECTOR OF THE OREGON WATER RESOURCES DEPARTMENT

*A separate extension application must be submitted for each permit as per  
 OAR 690-315-0020(2).*

*This application and a summary of review criteria and procedures that are generally applicable to this  
 application are available at <http://www.wrd.state.or.us/OWRD/PUBS/forms.shtml>.*

**I, Kent Madison**

NAME OF PERMIT HOLDER [OAR 690-315-0020(1) and (3)(a)]

29299 Madison Road  
 ADDRESS

CITY Echo

STATE OR

ZIP 97826

541-376-8107  
 PHONE

kmadison@eoni.com  
 E-MAIL ADDRESS

**the permit holder of:** Application Number S-70272

Permit Number S-51017  
 [OAR 690-315-0020(3)(b)]

**do hereby request that the time in which to:**

complete construction (of diversion/appropriation works and/or purchase and installation of the equipment necessary to the use of water), which time now expires on October 1, 2010, be extended to October 1, 2015,

N/A (Check this box if the permit does not specify a date by when construction must be completed.)

**and/or the time in which to:**

X apply water to full beneficial use under the terms and conditions of the permit, which time now expires on October 1, 2010, be extended to October 1, 2015.

RECEIVED BY OWRD

AUG 15 2016  
 Attachment A



**Before submitting your Application for Extension of Time, make sure the following items are included:**

- This completed Application for Extension of Time.
- Statutory fee of \$500.
- Signature page (last page of this Application for Extension of Time).
- All supporting documentation and/or evidence referenced in the Application for Extension of Time.

**MAIL COMPLETED APPLICATION**

**along with the**

**\$500 STATUTORY FEE TO:**

**Water Resources Department  
Attn: Water Right Permit Extensions  
725 Summer Street NE, Suite A  
Salem, Oregon 97301**

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR



**GENERAL TIPS:**

- Permit holders of municipal or quasi-municipal water use permits DO NOT use this form. The correct form is *Application for Extension of Time for Municipal and Quasi-Municipal Water Use Permits*, available at the following link:  
<http://www.wrd.state.or.us/OWRD/PUBS/forms.shtml#other>
- Request the reasonable amount of time necessary to fully complete the water construction project and/or to fully use the permitted quantity of water under the terms and conditions of your permit. Should this request be approved, it will be OWRD's expectation that you will complete your project within the new time period allowed. Future extensions may not be granted.
- A separate Application for Extension of Time must be submitted for each permit. OAR 690-315-0020(2).
- An instruction sheet (Instructions for Filling Out Extension of Time Application for Permits) provides details that will help you answer each question on the application. Permit extensions are evaluated under OAR Chapter 690, Division 315. These rules may be viewed at:  
<http://www.wrd.state.or.us/OWRD/LAW/index.shtml>.

- You may provide OWRD with any additional information or evidence that will aid us in making our decision. Please note that OWRD may require other information that is necessary to evaluate the application. OAR 315-0020(3)(n).
- After careful review of the Application for Extension of Time, you may contact OWRD at (503) 986-0900, to ask questions and request assistance from a Permit Extensions Specialist in the Water Rights and Adjudications Division.
- Once an Application for Extension of Time is received by OWRD, it will be reviewed for completeness. OWRD will return any incomplete or deficient applications to the applicant. OAR 690-315-0040(1)(a).

**Reference Materials Needed to Complete this Application:**

- The water right permit. If needed, a copy of the water right permit can be downloaded from the Department's Website at <http://www.wrd.state.or.us> (find the link to the Water Rights Information System (WRIS). Or, a copy of the permit (or other documents) may be requested by water right application number from the Water Rights Division at 503-986-0900 (copy fees will apply).
- Documentation which demonstrates compliance with permit conditions (for example, well construction logs; static water level measurement reports; annual water use reports; ODFW fish screen certification; a plan to monitor the effect of water use on ground water aquifers utilized under the permit; etc.).

**Answer the Following Questions to Complete this Application for Extension of Time**

[OAR 690-315-0020(3)(d)]

1. **Did the actual construction of the water system/well drilling begin within the time specified in the permit?**    x Yes     No



*TIP:    Not all permits specify a date by which construction was to begin.*

**Date construction began is:** March, 1989

**Details of construction:** Construction began in March 1989, since then 30 miles of main line, 44 pumps and 62 center pivots have been completed. A total of 8,645 acres are now under irrigation.

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

2. Permits typically contain standard or special conditions that must be satisfied to lawfully develop and use permitted water. In the development of this water right, have you satisfied the conditions contained in your permit?  Yes *For the original permit.*  No *Please note there is a recent transfer (T-10768) adding another POD that impacts the permit conditions.*

2-A) Describe how you have complied with each condition contained in the original permit [and, if applicable, each condition contained in any order approving a permit amendment and/or a final order approving a prior extension of time]. Include the date when the condition was satisfied.



**TIP:** The instruction sheet for the Application for Extension of Time provides an explanation of the typical conditions that must be addressed in this question.

### CHART-A

Condition No.**	Date Satisfied	Describe How Permit Condition Has Been Satisfied
Permit 51017 - A	2/1/2008	POD 1 screened, presumed ODFW Approved (see attached letter)
Permit 51017 - B	Yearly	Annual Reports (see attached 2005-2009 reports, prior reports submitted with preceding extension of time applications)
T-8857 Cb	3/1/1991	Meter at POD 1 (CID Canal – Madison Pump).
T-8857 Ca	5/21/2002	Meter at POD 2 (Lamb Weston – Amsted Pipe)
T-8857 C	5/21/2002	Meter at point water enters farm system
T-8857 Cc	5/21/2002	Meter at point water leaves North Farm area toward Lamb-Weston/South Farm
T-8857 Cd	5/21/2002	Meter at point water enters Lamb-Weston effluent system
T-8857 Ce	5/21/2002	Meter at point water from Lamb-Weston plant enter South Farm

\*\* **Condition No:** Hand-number each condition on a copy of your permit (and, if applicable, permit amendment and prior extension).

2-B) If you have NOT complied with all applicable conditions, explain the reasons why and indicate with a date certain (in the near future) when compliance will occur.

### CHART-B

Condition No.**	Date Will Comply	Explain Why Each Permit Condition Has NOT Been Satisfied
T-10768 Ea, Eb	Prior to 10/1/2015	Use of POD 3 was approved in Sept. 2010 (T-10768) so there has not been time to meet these conditions.
T-8857-D	N/A	Fish screen for POD 2 (Amsted Pump Station) is not applicable because the POD is a radial collector well and not a direct surface water diversion.

\*\* **Condition No:** Hand-number each condition on a copy of your permit (and, if applicable, permit amendment and prior extension).

RECEIVED BY OWRD

AUG 15 2016

3. Provide evidence of physical progress made toward completion of the water system, and of progress made toward making beneficial use of water within the permitted time period (CHART-C); and if applicable, within the time period of the most recent extension granted (CHART-D).

3-A) CHART-C (below) must be completed for all Application for Extension of Time requests. Use chronological order.

**CHART-C**

<b>DATE</b>	<b>WORK ACCOMPLISHED BEFORE PERMIT WAS ISSUED</b> <i>List any work done before the permit was issued - eg. well drilled.</i>	<b>COST*</b>
Pre 7/1990	Had developed 500 acres for which this permit provides supplemental irrigation.	\$ 1.4 mil

<b>DATE</b>	<b>WORK ACCOMPLISHED AFTER PERMIT WAS ISSUED and PRIOR TO DATE SPECIFIED IN PERMIT FOR COMPLETE APPLICATION OF WATER</b> <i>List work/actions done during the permitted time period.</i>	<b>COST*</b>
7/3/1990	Date the permit was signed -	
7/3/1990 to 7/5/1991	Installed 18 pivots and 22 miles of main line. Irrigating a total of 2,250 acres (primary & suppl.)	\$2.5 mil
7/5/1991	Date the permit specified "Actual Construction Work" shall begin ("A-Date") - not all permits contain this date.	
7/5/1991 to 10/1/1993	Installed an additional 5 pivots and main line. Irrigating another 650 acres (total now 2,900 acres primary & suppl.)	\$ .7 mil
10/1/1993	Date the permit specified complete application of water to the use shall be made ("C-Date") - all permits contain this date.	

**CHART-C (continued)**

<b>DATE</b>	<b>WORK ACCOMPLISHED AFTER "C-DATE"</b> <b><u>COMPLETE ONLY IF THIS IS YOUR 1st APPLICATION FOR EXTENSION OF TIME:</u></b> <i>List work done after the date specified in the permit for complete application of water up to the date of this Application for Extension of Time.</i>	<b>COST*</b>
	RECEIVED BY OWRD	
	AUG 15 2016	
<b>SALEM, OR</b>		<b>Total Cost for Chart-C \$4.6 mil</b>

\* If exact cost is not known, you must provide your best estimate.

3-B) If this is not your 1st Application for Extension of Time request, fill out CHART-D below (in addition to CHART-C above). Use chronological order.

### CHART-D

DATE	WORK ACCOMPLISHED DURING THE LAST EXTENSION PERIOD <i>List all work done during the last authorized extension period.</i>	COST*
10/1/1996	"Extended From" date for complete application of water used in the 1 <sup>st</sup> (or the most recent) Application for Extension of Time.	
10/1/1993 to 10/1/2005	Installed 33 pivots and additional main line. Irrigated an additional 5,130 acres (total irrigation is now 8,030 acres primary & suppl.).	\$14.3 mil
		RECEIVED BY OWRD
		AUG 15 2016
	Note: This date range appears to incorporate two extensions.	
		SALEM, OR
10/1/2005	"Extended To" date for complete application of water resulting from the 1 <sup>st</sup> (or the most recent) Application for Extension of Time.	

### CHART-D (Continued)

DATE	WORK ACCOMPLISHED AFTER THE LAST EXTENSION PERIOD EXPIRED <i>List all work done after the last authorized date for complete application of water up to the date of this Application for Extension of Time.</i>	COST*
10/1/2005 to 10/1/2010	Installed 6 pivots and additional main line. Irrigating an additional 615 acres (total irrigation is 8,645 acres primary & suppl.)	\$ .95 mil
<b>Total Cost of Chart-D</b>		<b>\$15.25 mil</b>

\* If exact cost is not known, you must provide your best estimate.

[OAR 690-315-0020(3)(f)]

4. Cost of project to date: \$19.85 mil  
(The total combined cost from CHART-C and CHART-D)

5. Provide evidence of the maximum rate (or duty, if applicable) of water diverted for beneficial use under this permit and/or prior extensions of time (if any) made to date.



**TIP:** Report the rate used to date. Unless full beneficial use has been made, this rate will be less than the rate authorized on the permit.

5-A) For Surface Water Permit Extensions (e.g. S-XXXX or R-XXXX):



**TIP:** Report the rate in the same units of measurement as specified in the permit.

Maximum rate used to date = 33.42 cfs (cubic feet per second) or,

Maximum rate used to date = \_\_\_\_\_ gpm (gallons per minute) or,

Acre-feet stored to date = \_\_\_\_\_ AF

5-B) For Ground Water Permit Extensions (e.g. G-XXXX):



**TIP:** Include information from ALL wells that pertain to this permit, including drilled wells not currently used.

**CHART-E**

Well # as identified on Permit	Water User's Well #	Has this well been drilled?	IF DRILLED					
			Well Log Number e.g. MORR 50473	Well Tag Number e.g. # 27566 or N/A	Is the actual drilled location authorized on this permit or on a permit amendment? (See 5-C below)	Maximum instantaneous rate used from this well -- under this permit only (CFS or GPM)	Is this well authorized or utilized under additional water rights?	If yes, provide the Permit, Certificate, or Transfer No.
		Yes <input type="checkbox"/> No <input type="checkbox"/>			Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>	- -
		Yes <input type="checkbox"/> No <input type="checkbox"/>			Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>	- -
		Yes <input type="checkbox"/> No <input type="checkbox"/>			Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>	- -
		Yes <input type="checkbox"/> No <input type="checkbox"/>			Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>	- -
<b>Total instantaneous rate from all wells utilized under this permit</b>								

5-C) If the drilled location of a well is not authorized on this permit, please specify its location below, or provide a map showing its location. Has or will a permit amendment application been/be filed? Yes  No

If a Permit Amendment Application has been filed: Transfer No. T-\_\_\_\_\_

Well # \_\_\_\_\_: Actual location: \_\_\_\_\_

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

Well #\_\_\_\_: Actual location: \_\_\_\_\_

[OAR 690-315-0020(3)(e)(C)]

6. Provide the total number of acres irrigated to date under this permit (if applicable).

Total acres irrigated to date: 8,645

Ground Water Permits: Please specify which wells are being utilized for this irrigation.

Well #\_\_\_\_ Acres\_\_\_\_ Well #\_\_\_\_ Acres\_\_\_\_

Well #\_\_\_\_ Acres\_\_\_\_ Well #\_\_\_\_ Acres\_\_\_\_

[OAR 690-315-0020(3)(j)]

7. Provide a summary of your future plans and schedule to complete the construction of the water system, and/or apply water to full beneficial use under the terms and conditions of the permit.

### CHART-F

APPROXIMATE DATE RANGE (projected)	WORK OR ACTION TO BE ACCOMPLISHED (projected)	ESTIMATED COST (projected)
10/1/2010 to 10/1/2015	Finish development of remaining acres.	\$ 2.1 mil
10/1/2010 to 10/1/2015	Construct delivery system from recently approved POD #3.	\$ .12 mil
Year:	Date intend to apply water to full beneficial use under the terms and conditions of this permit.	
<b>Total Cost</b>		<b>\$2.22 mil</b>

[OAR 690-315-0020(3)(g)]

8. Estimated remaining cost to complete the project: \$2.22 mil  
(The total cost from CHART-F)

[OAR 690-315-0020(3)(h)]

9. List the reasons why the project was not constructed, and/or water was not beneficially used within permit time limits. Provide supporting information for the reason(s) that best fits your circumstances (A, B, C or D).

9-A) The project is of a size and scope that was originally planned to be phased in over a time frame longer than the one allowed in the permit.

RECEIVED BY OWRD

This is true, this is a very large project.

AUG 15 2016

AUG 15 2016

SALEM, OR

- 9-B) **The financial resources needed to develop the project precluded completion of the project within authorized time frames.**

Economic conditions in this area in the last five to ten years have required that capital improvements be phased in rather than all completed at one time.

- 9-C) **Good faith attempts to comply with permit conditions and/or acquire permits from other agencies, or otherwise comply with government regulations, delayed completion of the project.**

Anticipated development was based on receiving water from the Lamb Weston potato processing plant and blow-down water from the Hermiston and Umatilla Co-Gen plants. Development of those sources was delayed (see previous extension) and so our development has been delayed. Adding the additional POD (T-10768) should help overcome this constraint.

- 9-D) **Acts of God or other unforeseen events delayed full development of the water system and use of water within the authorized time frames.**

The financial downturn occurring after 9/11/2001 and recent economic recession has limited ability to obtain loans which has contributed to the delay in final development of the project.

[OAR 690-315-0020(3)(k)]

10. **Justify the time requested to complete the project and/or apply the water to full beneficial use.**

The scope of the project is large, relies on other projects (potato processing and blow-down water), and there have been unforeseen economic changes in the region. These combined factors have delayed complete development. In addition, as noted below, the beneficial use goal is to have water available to all 9,645.2 acres. This will benefit the aquifer in the Butter Creek area. The addition of POD #3 should allow completion of this goal with less reliance on third party schedules that are out of our control.

11. **Provide any other information you wish OWRD to consider while evaluating your Extension of Time Application.**

The permit allows for 7,597.9 acres of primary irrigation and 2047.3 acres of supplemental irrigation with the condition that the use of waters described as supplemental may be exercised at times when water is available at the primary source (as long as no enlargement). In addition, lands listed as supplemental may be considered primary if at time of final proof it is determined no primary right exists for these lands. Therefore, the goal of full beneficial use is to have the system able to deliver water to all 9,645.2 acres.



**I am the permit holder, or have authorization from the permit holder, to apply for an extension of time under this permit. I understand that false or misleading statements in this extension application are grounds for OWRD to suspend processing of the request and/or reason to deny the extension.**

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

## **Instructions for Filling Out Extension of Time Application For Water Right Permits**

The following instructions are numbered to correspond with the APPLICATION FOR EXTENSION OF TIME. Each question is shown in italics, followed by guidance that may help you respond to the question. When reviewing these instructions, it will be helpful to have a copy of your water right permit at hand.

If needed, a copy of the water right permit can be downloaded from the Department's Website at <http://www.wrd.state.or.us> (find the link to the Water Rights Information System (WRIS). Or, a copy of the permit (or other documents) may be requested by water right application number from the Water Rights Division at 503-986-0900 (copy fees will apply).

1. *Did the actual construction of the water system /well drilling begin within the time specified in the permit? [yes/no]*

*Date construction began is:* \_\_\_\_\_

*Details of construction:* \_\_\_\_\_

The following information will help you answer these questions.

**Actual Construction** - any physical work performed toward completion of the water system which demonstrates the water right permit holder's good faith and intention to complete the project with reasonable diligence. Actual construction does not include planning a diversion system, formulating a business plan, securing financing, letting contracts, purchasing but not installing equipment, or surveying. OAR 690-315-0020(3)(d)(A)and(B).

Each water right permit contains specific dates by which permit holders are to have completed a certain level of development of the right. Generally, these dates appear toward the end of a permit. Among the dates that may be cited are the following:

- A. **A-date:** Actual construction work shall begin on or before [date certain];
- B. **B-date:** Construction shall be completed on or before [date certain];
- C. **C-date:** Complete application of the water shall be made on or before [date certain]

For convenience, these are often referred to as the “A-date”, “B-date”, and “C-date”, respectively. Not all permits will include all three dates. Some newer permits may not include a “B-date,” and even more recent permits may not include an “A-date”. However, all permits should include a “C-date”.

By statute, if the “A-date” is specified in a permit, a permit extension cannot be granted when there is no evidence of actions taken to begin **actual construction** by that date” with a few exceptions (permits for municipal use or projects requiring federal hydropower licenses). Permit extensions may be granted for both the B-date and C-date.

If the permit specifies an “A-date” it is very important to have written confirmation in the OWRD’s official water right file that **actual construction** began on or before that “A-date”. In submitting such confirmation, give dated details of all **actual construction** work completed prior to the “A-date” stipulated in the permit.

The beginning of actual construction for a ground water permit can usually be verified on a well log; use the “Work started” date listed on the well log. Well Logs can be accessed through the Department’s Website at [http://apps2.wrd.state.or.us/apps/gw/well\\_log/Default.aspx](http://apps2.wrd.state.or.us/apps/gw/well_log/Default.aspx)

2. ***Permits typically contain standard or special conditions that must be satisfied to lawfully develop and use permitted water. In the development of this water right, have you satisfied the conditions contained in your permit? [yes/no]***

2-A) ***Describe how you have complied with each condition contained in the original permit [and, if applicable, each condition contained in any order approving a permit amendment and/or a final order approving a prior extension of time]. Include the date when the condition was satisfied.***

Depending on the vintage of the water right permit issued by OWRD, the location of the conditions on the permit may vary. Most, but not all, permits issued before 1990, did not include conditions. If these permits contained conditions they would generally appear on the permit just above the State Engineer’s or Water Resources Director’s signature. In the early 1990’s conditions became more common. Conditions associated with the point of diversion or point of appropriation might be listed immediately following the description of the point of diversion or appropriation. Conditions associated with the place of use, might be listed immediately following the description of the place of use. From the mid-1990’s to present, conditions may be listed under separate subtitles in the permit such as “Measurement, Recording, and Reporting Conditions” or “Standard Conditions.”

Conditions may have been added to the permit as result of an approved Permit Amendment or a Final Order approving a prior extension of time. These added conditions are binding on the original permit, and must also be also addressed in this extension request.

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

Conditions requiring a written response in the extension of time application include those which:

- Stipulate a specific date by which the permit holder was to have accomplished a specific action, such as a condition that requires plans and specifications for a reservoir, a groundwater monitoring plan or some other document which "...shall be submitted...within (for example) *two* years of permit issuance."
- Are triggered by the use of water, but do not stipulate a specific date. These conditions represent a milestone in development of the project and use of water, such as the permit holder "shall install...a water meter or other suitable measuring device approved by the Director...before any use of water begins." Another common condition triggered by the use of water is that "fish screens are to be installed according to Oregon Department of Fish and Wildlife specifications."



**TIP:** Any supporting documentation submitted to demonstrate compliance with time-sensitive permit conditions or any conditions from prior permit extension(s) must be clearly referenced and may include, but is not limited to: well construction logs; static water level measurement reports, annual water use reports; and/or a plan to monitor the effect of water use on ground water aquifers utilized under the permit.

*If needed, you may contact the OWRD for assistance in identifying and/or interpreting which conditions in the water permit are pertinent to the extension application.*

In responding to question 2-A) on the application:

- Step (1) Hand-number each condition on a copy of your permit. Refer to each condition in Chart-A by this number (place the number in the column "**Condition No.**"). Submit the hand-numbered copy of the permit along with the application.
  - Step (2) List all pertinent permit conditions in Chart-A, and explain how you have complied with them ("**Describe How Permit Condition Has Been Satisfied**").
  - Step (3) Indicate the date the condition was met ("**Date Satisfied**").
  - Step (4) Repeat steps (1), (2), and (3) for any conditions contained in any order approving a permit amendment and/or prior final order for an approved extension of time.
- 2-B) If you have NOT complied with all applicable conditions, explain the reasons why and indicate a date certain, when, in the near future, you will be in compliance.**

If a permit holder is not in compliance with time-sensitive conditions, OWRD may take one of three actions:

1. Suspend processing of the application until the permit holder complies with them; or
2. Establish time certain performance deadlines by which the conditions must be complied with and include them as conditions on the extension order; or
3. Deny the permit extension.

RECEIVED BY OWRD

AUG 15 2016

NAUPEM OR  
35/117

If you are considering applying for a permit extension and you are not in compliance with time-sensitive conditions, you may want to hold off filing the extension application until you have complied with the conditions. If you are not in compliance, but wish to proceed with the extension application, you should explain how, and the dates by which, you will comply with the conditions in Chart-B. If the extension is allowed, OWRD will likely not grant much time (less than one year) for the permit holder to comply with time-sensitive conditions.

In responding to question 2-B) on the application:

Step (1) Hand-number each condition on a copy of your permit. Refer to each condition in Chart-B by this number (place the number in the column "**Condition No.**"). Submit the hand-numbered copy of the permit along with the application.

Step (2) List all pertinent permit conditions in Chart-A, and explain why you have not complied with them ("**Explain Why Each Permit Condition Has NOT Been Satisfied**").

Step (3) Indicate the date the condition will be met ("**Date Will Comply**").

Step (4) Repeat steps (1), (2), and (3) for any conditions contained in any order approving a permit amendment and/or prior final order for an approved extension of time.

3. ***Provide evidence of physical progress made toward completion of the water system, and of progress made toward making beneficial use of water within the permitted time period (CHART-C); and if applicable, within the time period of the most recent extension granted (CHART-D).***

**Permitted Time Period** - period of time between the date when the permit was signed *and* the date specified in the permit for complete application of water

**Time Period of the Previous Extension**

*For 2nd Application for Extension of Time* - period of time between the date specified in the permit for complete application of water and the new "extended to date" for complete application of water specified in the 1st approved extension.

*For 3<sup>rd</sup>, or 4<sup>th</sup>, or . . . n<sup>th</sup>, Application for Extension of Time* - period of time between the "extended from date" for complete application of water and the "extended to date" for complete application of water specified in the most recently approved extension.

**3-A) CHART-C (below) must be completed for all Application for Extension of Time requests. Use chronological order.**

Chart-C must be filled out by all applicants regardless of how many extensions have been granted in the past. List all materials and equipment purchases made within the applicable time period, the system components installed and components brought into use within the time period. Identify costs by each line item to assist in responding to Question 4 on the application for extension.

**3-B) If this is not your 1st Application for Extension of Time request, fill out CHART -D below (in addition to CHART-C above). Use chronological order.**

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

Chart-D must be filled out by all applicants who have been granted an extension in the past (that is, this is your 2<sup>nd</sup>, 3<sup>rd</sup>, or 4<sup>th</sup>, etc. request) List all materials and equipment purchases made within the applicable time period, the system components installed and components brought into use within the time period. Identify costs by each line item to assist in responding to Question 4 on the application for extension.

**4. Cost of project to date \_\_\_\_\_.**

Indicate the amount invested in developing the water use system to date. This will be a total of the costs indicated on Chart-C and Chart-D from Question 3. If exact cost is not known, you must provide your best estimate.

**5. Provide evidence of the maximum rate (or duty, if applicable) of water diverted for beneficial use under this permit and/or prior extensions of time (if any) made to date.**

A permit authorizes a specific rate of water that may be used within the terms and conditions of the permit. (For example a permit may authorize the use of 1.5 cubic feet per second (cfs) of water for irrigation of 60 acres. In this example 1.5 cfs is the specified authorized rate in the permit). The Department is asking you to report the portion of the full authorized rate you have beneficially used to date. (In this example, if a maximum of 30 acres has been placed under irrigation, the portion of the rate beneficially used to date would (likely) be 0.75 cfs).

**5-A) For Surface Water Permit Extensions (e.g. S-XXXX or R-XXXX):**

Surface water permits are those where the source of water is a river, stream, lake, pond, or reservoir, etc. Report the rate (not the volume) of water you are beneficially using under permit in cubic feet per second (CFS) or gallons per minute (GPM). Only if you are using stored water under a reservoir permit (e.g. R-XXXX), may you indicate the volume used which is reported in acre-feet (AF).

**5-B) For Ground Water Permit Extensions (e.g. G-XXXX):**

Ground water permits are those where the source of water is a well. Some permits authorize the use of water from more than one well. Fill out Chart-E with information for a single well, or if applicable, for multiple wells. Give information about all the well(s) listed on your permit, even if not yet drilled; or if drilled, even if it is not being used for some reason.

- 1<sup>st</sup> Column: For each well authorized on the permit, indicate the Well # or the well name that is listed on the permit.
- 2<sup>nd</sup> Column: If naming system you use is different than what is listed on the permit, indicate the Well # or well name you use for each of the wells.
- 3<sup>rd</sup> Column: Enter a yes or no for each well listed on the permit, indicating whether or not it has been drilled yet.

The following columns relate only to wells which have been already drilled.

- 4<sup>th</sup> Column: Enter the Well Log Number for each well. Typically this is a four letter prefix (of the county) followed by 3 to 5 digits.

RECEIVED BY TOWARD

AUG 15 2016

SALEM, OR

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

5<sup>th</sup> Column: Enter the Well Tag Number for each well (typically 5 digits). Not all wells have been assigned a well tag number.

*Note: Well Log Numbers and Well Tag ID Numbers can be accessed through the Department's Website at [http://apps2.wrd.state.or.us/apps/gw/well\\_log/Default.aspx](http://apps2.wrd.state.or.us/apps/gw/well_log/Default.aspx)*

6<sup>th</sup> Column: The Department is asking if the actual location of each well is same as where the permit authorizes the location of that specific well. If the actual location is not the same as the authorized location, a permit amendment may be necessary in order to receive approval for use of the well in a new location. If the actual location of any well is different from its authorized location, then Question 5-C) must also be completed. *Questions about permit amendments may be directed to the Transfer Division of the Department.*

7<sup>th</sup> Column: Report the rate (not the volume) of water being utilized under this permit from each well. Give the rate in cubic feet per second (CFS) or gallons per minute (GPM). If more than one well is listed on the permit, than add the rates from each individual well and enter the sum in the last box in this column for the "Total instantaneous rate from all wells utilized under this permit."

8<sup>th</sup> Column: Enter a yes or no for each well listed on the permit, indicating if this well is authorized under any other water right(s).

9<sup>th</sup> Column: If a well is authorized under any other water right(s), provide the Permit Number(s), or Certificate Number(s) or Transfer Number(s) of each water right also listing that well.

**5-C) If the drilled location of a well is not authorized on this permit, please specify its location below, or provide a map showing its location. Has or will a permit amendment application been/be filed? Yes \_\_\_ No \_\_\_**

**If a Permit Amendment Application has been filed: Transfer No. T-\_\_\_\_\_**

**Well # \_\_\_\_\_ : Actual location \_\_\_\_\_**

**Well # \_\_\_\_\_ : Actual location \_\_\_\_\_**

If yes is marked for any well in the 6<sup>th</sup> Column of Chart-E, this question (5-C) must be answered. For each well that is drilled in a location NOT authorized on the permit, report its actual location (for example: 300 Feet North and 520 Feet East from SW Corner, Section 6, Township 40 South, Range 10 East, W.M.), or provide a map with the actual well(s) location(s) clearly marked.

In rare cases, a permit amendment may have been filed prior to the extension application being filed. If this is the case, please provide the transfer number that was assigned to this permit amendment request. (e.g. T-10351). Current department policy provides that if a permit amendment is needed for which the 'C-date' has passed, a Final Order approving an extension of time must be received before the Department accepts the permit amendment application. A

RECEIVED BY OWRD

permit amendment can only be granted if the 'C-date' specified in the permit or a new 'C-date' granted in approved extension has not expired.

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

6. **Provide the total number of acres irrigated to date under this permit (if applicable).**

**Total acres irrigated to date:** \_\_\_\_\_

**Ground Water Permits: Please specify which wells are being utilized for this irrigation.**

**Well #** \_\_\_\_\_ **Acres** \_\_\_\_\_ **Well #** \_\_\_\_\_ **Acres** \_\_\_\_\_

**Well #** \_\_\_\_\_ **Acres** \_\_\_\_\_ **Well #** \_\_\_\_\_ **Acres** \_\_\_\_\_

If your permit authorizes irrigation, indicate the maximum number of acres you have irrigated under this permit.

If you have a ground water permit which authorizes the use of more than one well, or you are using more than one well for irrigation under this permit, please specify which wells are being utilized, and how many acres are being irrigated from that well.

7. **Provide a summary of your future plans and schedule to complete the construction of the water system, and/or apply water to full beneficial use under the terms and conditions of the permit.**

Fill out Chart-F, making your best estimate of the future time line and costs for work necessary to complete construction and/or apply water to full beneficial use under the terms and conditions of the permit.

8. **Estimated remaining cost to complete the project** \_\_\_\_\_.

Indicate your estimate of the remaining investment necessary to fully construct the system and put water to beneficial use. This will be a total of the costs indicated in Chart-F from Question 7.

9. **List the reasons why the project was not constructed, and/or water was not beneficially used within permit time limits. Provide supporting information for the reason(s) that best fits your circumstances (9-A, 9-B, 9-C, and/or 9-D).**

It may be appropriate to respond in more than one category. Respond in category 9-D) if the reasons for delay do not fit in any other category.

**9-A) The project is of a size and scope that was originally planned to be phased in over a time frame longer than the one allowed in the permit.**

Useful supporting information might include an excerpt from a business plan or a phasing schedule showing how the project is to be fully developed and water applied in increments. The supporting information can be simple and straightforward. This information would also be useful in evaluating the time needed to complete the project and beneficially use water.

For group domestic permits, historic population and employment information, growth forecasts and/or build-out status, including total number of residential units and other uses built, the number remaining to be built and absorption rates should be identified.

RECEIVED BY SALEM, OR  
AUG 15 2016



**9-B) *The financial resources needed to develop the project precluded completion of the project within authorized time frames.***

If financing was critical to development of the project, indicate the contract number, financing entity, date when you originally applied for financing and date the financing agreement was executed. It is not necessary to submit a copy of the agreement nor to disclose the terms of the agreement. If cash flow is a constraint to developing the project, develop a phasing plan indicating the investments made annually to date and estimated annual investments anticipated until the project is completed and water applied.

**9-C) *Good faith attempts to comply with permit conditions and/or acquire permits from other agencies, or otherwise comply with government regulations, delayed completion of the project.***

If it was necessary to obtain specific permits (land use approvals, wetland fill and removal permits, individual waste disposal system, or other water quality permits, etc.) to proceed with work under the water right permit, indicate the permits, date permit applications were filed, and date permits were issued by the appropriate authorities. If delays were caused by a general need to comply with government requirements, including specific conditions of the water right permit or other permits, provide a brief explanation of the requirements and, the good faith effort and general timeframes involved in complying with those requirements that delayed development of the water project under the permit.

**9-D) *Acts of God or other unforeseen events delayed full development of the water system and use of water within the authorized time frames.***

Natural disasters, severe weather, grave illnesses or death suffered by permit holders, family members, and business partners may be among the legitimate reasons that permit holders have not fully developed water systems and made beneficial use of water within permit timeframes. Supporting documentation to submit may include a list of the specific system or site damage caused by natural disasters or severe weather and the amount of delay and financial impact resulting from necessary repairs. For family illnesses and the like, a simple statement should be made indicating whether or not illness/accidents may have resulted in death or hospitalization and if resulting legal or ongoing health care/rehabilitation programs have affected the ability to complete the project authorized by the permit.

If there are other reasons for the delay that are not "Acts of God" and don't fit in categories A, B, and C, list them in this subsection and provide supporting information and estimates of the delay caused by the unforeseen events.

**10. *Justify the time requested to complete the project and/or apply the water to full beneficial use.***

A justification should integrate information from Items 2, 3-A, 3-B, 7 and 9 of this Application for Extension of Time, but may include any other information or evidence to establish that the requested amount of time is reasonable. This can be a summary of why you need the amount of time you have requested.

RECEIVED BY OWRD

**11. Provide any other information you wish the OWRD to consider while evaluating the extension of time application.**

This is your opportunity to include any other information you want the OWRD to have when considering your extension request.

***Signature Box:***

**The application must be signed by the permit holder of record, or an authorized agent of the permit holder of record.**

**If there are multiple permit holders of record for a single permit, only one permit holder of record needs to sign the extension application.**

**If you are not the permit holder(s) of record, but should be, you will need to request an assignment of the water right permit into your name(s).**

If the prior permit holder is available for a signature you may request an assignment using the form available at this link:

[http://www1.wrd.state.or.us/pdfs/req\\_assign.pdf](http://www1.wrd.state.or.us/pdfs/req_assign.pdf)

If the prior permit holder is absent, you may request an assignment by proof of land ownership using the form available at this link:

[http://www1.wrd.state.or.us/pdfs/req\\_assign2.pdf](http://www1.wrd.state.or.us/pdfs/req_assign2.pdf)

RECEIVED BY OWRD  
AUG 15 2016  
SALEM, OR

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

## Conditions from Permit Amendments

Extension of Time Application

Permit S-51017

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

NE 1/4 NE 1/4	40.0 ACRES	
NW 1/4 NE 1/4	1.9 ACRES	38.1 ACRES
SE 1/4 NE 1/4		40.0 ACRES
SE 1/4 NE 1/4	40.0 ACRES	
NE 1/4 NW 1/4	3.8 ACRES	36.2 ACRES
NW 1/4 NW 1/4	34.7 ACRES	0.7 ACRE
SW 1/4 NW 1/4	35.7 ACRES	
SE 1/4 NW 1/4	0.6 ACRE	39.4 ACRES
NE 1/4 SW 1/4		40.0 ACRES
NW 1/4 SW 1/4		36.0 ACRES
SW 1/4 SW 1/4		33.0 ACRES
SE 1/4 SW 1/4		22.0 ACRES
NE 1/4 SE 1/4	8.0 ACRES	31.0 ACRES
NW 1/4 SE 1/4	40.0 ACRES	
SW 1/4 SE 1/4	0.6 ACRE	39.4 ACRES
SE 1/4 SE 1/4	4.2 ACRES	28.8 ACRES

SECTION 19

NE 1/4 NW 1/4	2.0 ACRES	
NW 1/4 NW 1/4	36.0 ACRES	
SW 1/4 NW 1/4	15.0 ACRES	
NW 1/4 SW 1/4		7.0 ACRES

SECTION 20

NE 1/4 NE 1/4		18.9 ACRES
NW 1/4 NE 1/4		40.0 ACRES
SW 1/4 NE 1/4		39.0 ACRES
SE 1/4 NE 1/4		5.0 ACRES
NW 1/4 NW 1/4		16.0 ACRES
SW 1/4 NW 1/4		38.0 ACRES
SE 1/4 NW 1/4		40.0 ACRES
NE 1/4 SW 1/4		40.0 ACRES
NW 1/4 SW 1/4	1.1 ACRES	36.0 ACRES
SW 1/4 SW 1/4	0.9 ACRE	36.4 ACRES
SE 1/4 SW 1/4		40.0 ACRES
NE 1/4 SE 1/4	40.0 ACRES	
NW 1/4 SE 1/4	26.2 ACRES	13.8 ACRES
SW 1/4 SE 1/4	40.0 ACRES	
SE 1/4 SE 1/4	40.0 ACRES	

SECTION 30

NE 1/4 NW 1/4		22.0 ACRES
NW 1/4 NW 1/4		38.0 ACRES
SW 1/4 NW 1/4		39.0 ACRES
SE 1/4 NW 1/4		3.0 ACRES
NW 1/4 SW 1/4	8.1 ACRES	18.6 ACRES
SW 1/4 SW 1/4		7.5 ACRES

SECTION 31

TOWNSHIP 3 NORTH, RANGE 28 EAST, W.M.

Diversion screening facilities shall be designed, installed, and operated to Oregon Department of Fish and Wildlife specifications.

Actual construction work shall begin on or before July 5, 1991, and shall be completed on or before October 1, 1992. Complete application of the water to the use shall be made on or before October 1, 1993.

10-1-93  
10-1-95, 10-1-96

RECEIVED BY DWRD

AUG 15 2016

SALEM, OR

TIME  
Extension  
condition  
No

A

TIME  
Extension  
Condition  
No

B

During the development phase of this project, the permit holder shall provide a report to the Department on or about January 30 each year, including an analysis of project efficiencies, water use and crop yields.

Failure to comply with any of the provisions of this permit may result in action including, but not limited to restrictions on the use, civil penalties, or cancellation of the permit.

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

The use of water allowed herein may be made only at times when sufficient water is available to satisfy all prior rights, including rights for maintaining instream flows.

Issued this date, July 3, 1990.

BC45

/s/ WILLIAM H. YOUNG  
Water Resources Department  
William H. Young  
Director

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

Application 70272  
Basin 7  
70272.SB

Water Resources Department  
Volume 3A Columbia River & Misc.

PERMIT 51017  
District 5

T-8857

2. The water user shall install and maintain headgates, in-line flow meters, weirs, or other suitable devices for measuring and recording the quantity of water diverted under this permit. The type and plans of the headgates and measuring devices must be approved by the Department prior to beginning construction and shall be installed under the general supervision of the Department.

TIME EXTENSION

CONDITIONS  
NO

The measuring and recording devices shall be located:

a. At the proposed additional point of diversion from the Columbia River, and,

b. At the point where Columbia River water under this permit enters the permit holder's farm system, and,

c. At the point where Columbia River water under this permit leaves North Farm area toward Lamb-Weston plant and South Farm, and,

d. At the point where the Columbia River water under this permit enters the Lamb-Weston plant effluent disposal system, and,

e. At the points where both pipelines carrying Columbia River water under this permit from Lamb-Weston plant area enter South Farm.

4. The water user shall allow the watermaster access to the measuring devices; provided however, where the measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

5. The former place of use shall no longer be irrigated as a part of this water right.

6. All other terms and conditions of the permit remain the same.

7. The water user shall install and maintain a fish screen or fish by-pass device. The type and plans of the screen or by-pass device must be approved by the Oregon Department of Fish and Wildlife prior to beginning of construction and shall be installed under the supervision of the Department of Fish and Wildlife.

T-8857.PKS

RECEIVED BY OWRD

Page 24 of 25 Special Order Volume 56, Page 388.

AUG 15 2016

SALEM, OR

Permit 51017, in the name of KENT R. AND SHANNON K. MADISON, is amended as described herein.

WITNESS the signature of the Water Resources Director, affixed           **MAY 21 2002**          

  
\_\_\_\_\_  
Paul R. Cleary

AUG 15 2016

SALEM, OR

T-10768

2. Prior to water use from the proposed additional point of diversion, the permittee shall install meters or other suitable measuring devices as approved by the Director. The permittee shall maintain the meters or measuring devices in good working order, and shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.

TIME EXTENSION  
CONDITION  
NO.

3. The measuring and recording devices shall be located:

- a. At the proposed additional point of diversion from the Columbia River, and,
- b. At the point where Columbia River water under this permit enters the permit holder's farm water delivery system.

Ea

4. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice

5. Water shall be acquired from the same surface water source as the original point of diversion.

6. Diversion screening facilities shall be designed, installed, and operated to Oregon Department of Fish and Wildlife specifications.

Eb

7. Approval of this permit amendment does not grant the permittee permission to trespass on lands not owned by the permittee.

8. All other terms and conditions of Permit S-51017 remain the same.

9. Permit S-51017, in the names of KENT R. AND SHANNON K. MADISON, is amended as described herein.

Dated at Salem, Oregon this 15 day of September, 2010.

  
Phillip C. Ward, Director

Mailing Date: SEP 16 2010

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR



# Annual Irrigation Reports

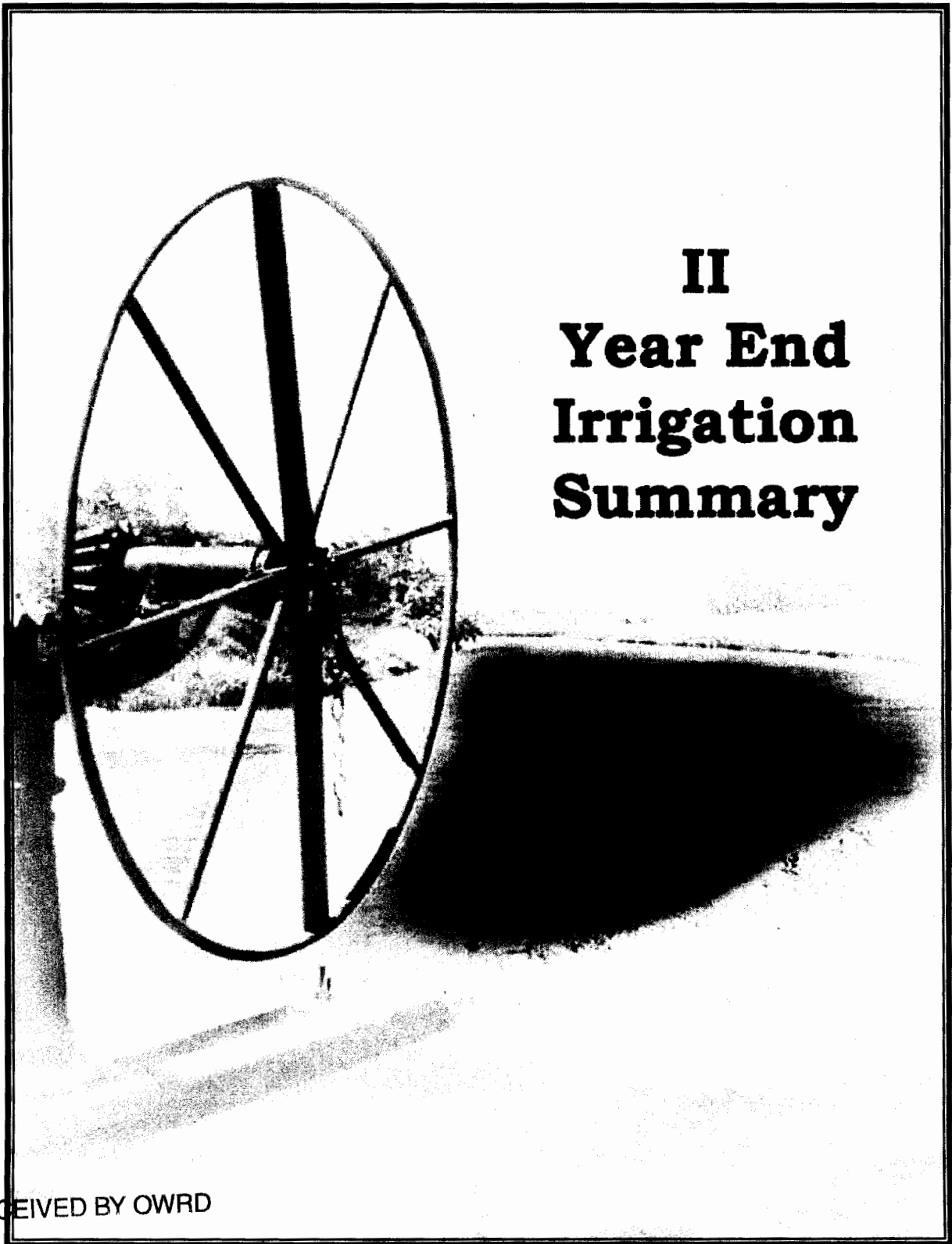
Extension of Time Application

Permit S-51017

**RECEIVED BY OWRD**

**AUG 15 2016**

**SALEM, OR**



## **II Year End Irrigation Summary**

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

Irrigation Summary Report

Date: 11/1/2004 - 10/31/2005

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
HG-044-1	2005	Alfalfa	357	27.95	5.56	22.39	26.34	30.90
KMF-067-1	2005	Alfalfa	217	27.65	3.49	24.16	28.42	27.30
KMF-068-1	2005	Alfalfa	193	22.60	2.37	20.23	23.80	24.50
KMF-083-1	2005	Alfalfa	189	21.40	2.24	19.16	22.54	23.80
KMF-090-1	2005	Alfalfa	175	29.90	1.75	28.15	33.12	23.80
KMF-091-1	2005	Alfalfa	217	23.55	3.49	20.06	23.60	21.80
KMF-094-1	2005	Alfalfa	217	20.35	3.49	16.86	19.84	19.60
LW-001-1	2006	Alfalfa	364	30.65	5.06	25.59	30.11	31.70
LW-004-3	2003	Alfalfa	350	31.60	5.44	26.16	30.77	35.30
LW-008-1	2005	Alfalfa	364	25.05	5.67	19.38	22.80	29.50
LW-011-1	2005	Alfalfa	364	29.45	5.67	23.78	27.97	35.00
LW-014-1	2005	Alfalfa	364	24.60	5.06	19.54	22.99	27.70
LW-018-1	2005	Alfalfa	364	37.05	5.06	31.99	37.64	40.10
LW-025-1	2005	Alfalfa	364	31.00	5.67	25.33	29.80	33.30
LW-033-1	2005	Alfalfa	364	39.10	5.67	33.43	39.33	44.60
LW-034-1	2005	Alfalfa	364	31.65	5.67	25.98	30.56	37.50
LW-037-1	2005	Alfalfa	336	18.75	5.32	13.43	15.80	22.80
LW-038-1	2005	Alfalfa	329	21.35	5.01	16.34	19.22	25.10
LW-039-1	2005	Alfalfa	364	19.85	5.67	14.18	16.68	24.80
LW-041-1	2005	Alfalfa	350	16.36	5.44	10.92	12.84	19.30
LW-052-1	2005	Alfalfa	364	47.50	6.45	41.05	48.29	49.90
LW-054-1	2005	Alfalfa	364	39.05	6.45	32.60	38.35	42.60
LW-056-1	2005	Alfalfa	364	39.85	6.45	33.40	39.29	43.50
LW-089-3	2005	Alfalfa	193	26.75	2.37	24.38	28.68	29.90
LW-093-1	2005	Alfalfa	364	13.20	5.67	7.53	8.86	16.80
<b>Alfalfa Average</b>			<b>314</b>	<b>27.85</b>	<b>4.81</b>	<b>23.04</b>	<b>27.11</b>	<b>30.44</b>
LW-053-1	2005	Alfalfa	157	2.20	3.28	0.00	0.00	4.80
<b>Cover Alfalfa Average</b>			<b>157</b>	<b>2.20</b>	<b>3.28</b>	<b>0.00</b>	<b>0.00</b>	<b>4.80</b>
LW-003-4	2005	Beans	84	21.95	0.19	21.76	25.60	18.80
<b>Beans Average</b>			<b>84</b>	<b>21.95</b>	<b>0.19</b>	<b>21.76</b>	<b>25.60</b>	<b>18.80</b>
HG-048-1	2005	Canola	171	8.50	3.20	5.30	6.23	6.00
LW-006-1	2005	Canola	259	16.60	4.95	11.65	13.70	21.20
LW-009-1	2005	Canola	224	15.35	4.08	11.27	13.26	18.10
LW-012-1	2005	Canola	287	14.40	4.96	9.44	11.10	18.90
LW-015-1	2005	Canola	199	11.22	4.46	6.76	7.95	10.60
LW-036-1	2005	Canola	336	14.50	5.32	9.18	10.80	18.00
LW-042-1	2005	Canola	329	17.65	5.01	12.64	14.87	20.60
<b>2005 Canola Average</b>			<b>258</b>	<b>14.03</b>	<b>4.57</b>	<b>9.46</b>	<b>11.13</b>	<b>16.20</b>
LW-017-2	2006	Canola	42	4.10	0.67	3.43	4.04	3.30
LW-023-2	2006	Canola	35	3.20	0.66	2.54	2.99	2.40
<b>2006 Canola Average</b>			<b>39</b>	<b>3.65</b>	<b>0.67</b>	<b>2.99</b>	<b>3.52</b>	<b>2.85</b>
LW-055-1	2005	Grass Seed	364	28.70	6.45	22.25	26.18	30.70
LW-051-1	2005	Grass Seed	364	30.85	5.67	25.18	29.62	33.20
<b>Grass Seed Average</b>			<b>364</b>	<b>29.78</b>	<b>6.06</b>	<b>23.72</b>	<b>27.90</b>	<b>31.95</b>
LW-004-1	2005	Grass Seed	182	8.55	3.45	5.10	6.00	8.70
<b>Cover Grass Seed Average</b>			<b>182</b>	<b>8.55</b>	<b>3.45</b>	<b>5.10</b>	<b>6.00</b>	<b>8.70</b>

RECEIVED BY OWRD

AUG 15 2016

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
HG-043-3	2005	Corn	119	16.15	0.78	15.37	18.08	15.70
HG-048-2	2005	Corn	154	20.45	1.01	19.44	22.87	18.70
KMF-026-1	2005	Corn	124	17.45	0.62	16.83	19.80	18.00
LW-004-2	2005	Corn	147	23.00	1.56	21.44	25.22	25.00
LW-013-2	2005	Corn	147	21.80	1.56	20.24	23.81	21.50
LW-015-2	2005	Corn	137	17.25	0.83	16.42	19.32	18.30
LW-032-4	2005	Corn	105	11.90	0.54	11.36	13.36	14.30
LW-032-6	2005	Corn	186	19.75	2.22	17.53	20.62	22.40
LW-035-3	2005	Corn	105	15.40	0.61	14.79	17.40	17.00
LW-053-1	2005	Corn	144	29.60	1.69	27.91	32.84	27.80
<b>Corn Average</b>			<b>137</b>	<b>19.28</b>	<b>1.14</b>	<b>18.13</b>	<b>21.33</b>	<b>19.87</b>
LW-002-1	2005	Cover-grain	101	3.50	1.76	1.74	2.05	3.20
LW-013-1	2005	Cover-grain	157	4.35	3.01	1.34	1.57	6.20
LW-035-1	2005	Cover-grain	108	1.55	1.87	0.00	0.00	2.60
LW-089-1	2005	Cover-grain	91	1.65	1.87	0.00	0.00	2.50
<b>2005 Cover-grain Average</b>			<b>120</b>	<b>10.76</b>	<b>1.71</b>	<b>9.13</b>	<b>10.74</b>	<b>11.31</b>
LW-010-2	2006	Cover-grain	84	3.20	0.71	2.49	2.93	0.00
LW-012-2	2006	Cover-grain	7	3.25	0.11	3.14	3.69	0.10
LW-049-2	2006	Cover-grain	84	2.50	0.69	1.81	2.13	0.00
<b>2006 Cover-grain Average</b>			<b>94</b>	<b>3.85</b>	<b>1.47</b>	<b>2.46</b>	<b>2.89</b>	<b>3.24</b>
HG-046-2	2005	New Alfalfa	28	1.40	0.55	0.85	1.00	1.40
LW-002-4	2005	New Alfalfa	95	17.40	0.72	16.68	19.62	13.70
LW-006-2	2005	New Alfalfa	98	6.30	0.72	5.58	6.56	5.40
LW-009-2	2005	New Alfalfa	137	11.25	0.97	10.28	12.09	11.20
LW-019-3	2006	New Alfalfa	14	1.85	0.23	1.62	1.91	0.80
LW-020-2	2005	New Alfalfa	28	3.25	0.35	2.90	3.41	1.70
<b>New Alfalfa Average</b>			<b>67</b>	<b>6.91</b>	<b>0.59</b>	<b>6.32</b>	<b>7.43</b>	<b>5.70</b>
LW-002-2	2005	No Crop	6	0.40	0.00	0.40	0.47	0.50
LW-003-2	2005	No Crop	10	0.10	0.01	0.09	0.11	0.50
LW-032-2	2005	No Crop	3	0.00	0.00	0.00	0.00	0.00
LW-089-2	2005	No Crop	17	1.35	0.03	1.32	1.55	1.20
<b>No Crop Average</b>			<b>9</b>	<b>0.46</b>	<b>0.01</b>	<b>0.45</b>	<b>0.53</b>	<b>0.55</b>
KMF-022-1	2005	Pasture	238	0.00	3.77	0.00	0.00	2.00
KMF-024-1	2005	Pasture	238	0.00	3.77	0.00	0.00	6.10
KMF-026-1	2005	Pasture	91	3.75	2.87	0.88	1.04	3.80
KMF-027-1	2005	Pasture	238	0.00	3.77	0.00	0.00	4.00
<b>Pasture Average</b>			<b>201</b>	<b>0.94</b>	<b>3.55</b>	<b>0.22</b>	<b>0.26</b>	<b>3.98</b>
HG-043-2	2005	Peas	74	11.15	2.34	8.81	10.36	11.70
KMF-Lewis-1	2005	Peas	46	9.20	1.41	7.79	9.16	8.80
LW-002-3	2005	Peas	77	12.90	2.03	10.87	12.79	12.70
LW-003-3	2005	Peas	77	12.05	2.34	9.71	11.42	11.80
LW-032-3	2005	Peas	70	11.05	2.08	8.97	10.55	12.00
LW-035-2	2005	Peas	77	12.40	2.60	9.80	11.53	12.40
LW-040-2	2005	Peas	60	10.05	1.33	8.72	10.26	11.10
<b>Peas Average</b>			<b>69</b>	<b>11.26</b>	<b>2.02</b>	<b>9.24</b>	<b>10.87</b>	<b>11.50</b>
HG-047-2	2005	Potatoes	98	19.60	0.43	19.17	22.55	19.10
LW-005-2	2005	Potatoes	88	23.65	0.50	23.15	27.24	24.20
LW-007-2	2005	Potatoes	81	22.95	0.37	22.58	26.56	23.20
LW-016-2	2005	Potatoes	73	25.90	0.85	25.05	29.47	22.10
LW-019-2	2005	Potatoes	108	33.95	1.03	32.92	38.73	30.40
SLW-021-2	2005	Potatoes	84	25.25	0.51	24.74	29.11	21.60
LW-050-2	2005	Potatoes	102	21.50	0.52	20.98	24.68	22.60
<b>Potatoes Average</b>			<b>91</b>	<b>24.69</b>	<b>0.60</b>	<b>24.08</b>	<b>28.33</b>	<b>23.31</b>

RECEIVED BY OWRD

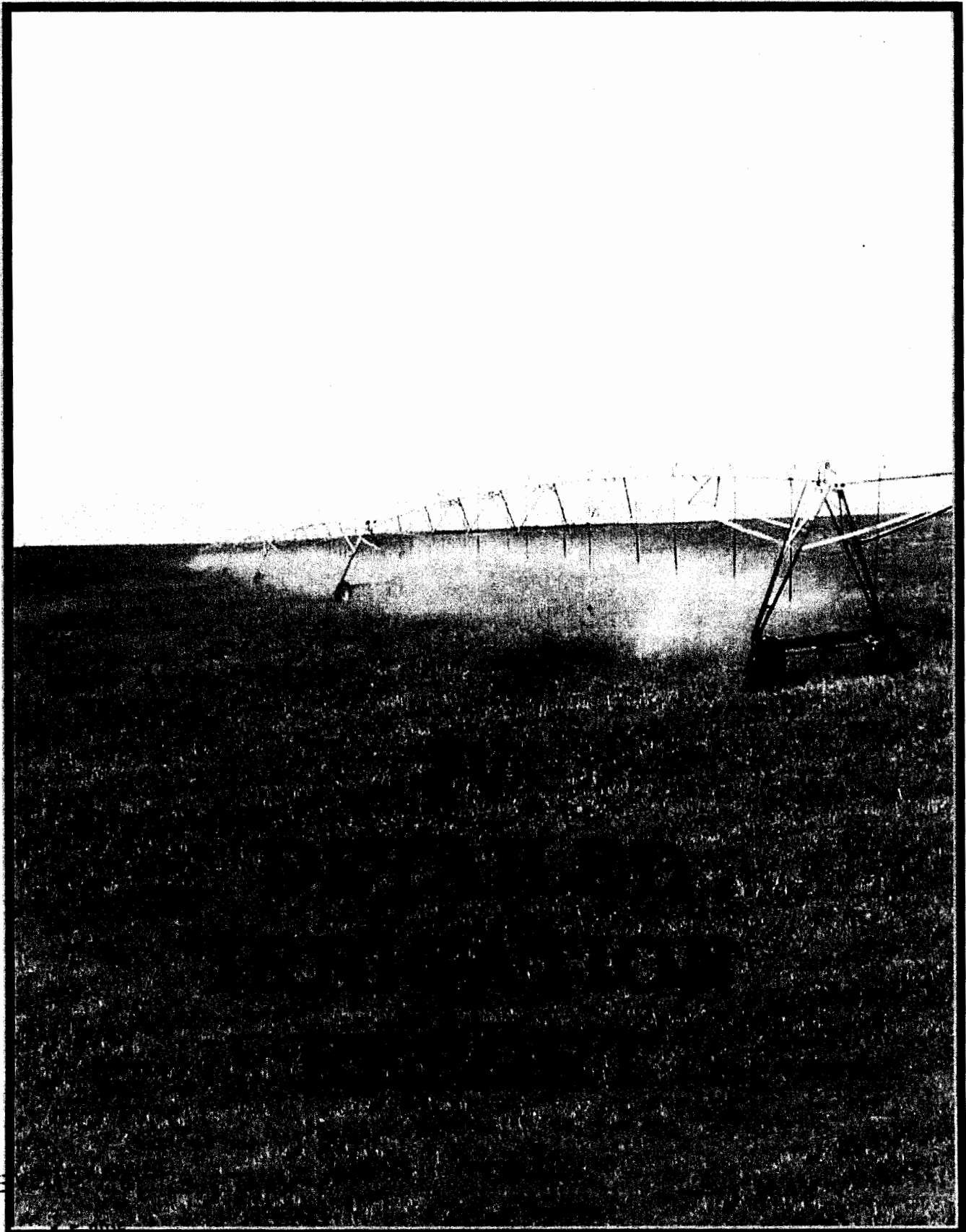
AUG 15 2016

SALEM, OR

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
HG-043-1	2005	Stubble	112	2.00	1.87	0.13	0.15	1.80
LW-007-1	2005	Stubble	31	0.40	0.53	0.00	0.00	1.00
LW-050-2	2005	Stubble	21	0.00	0.37	0.00	0.00	0.30
LW-003-1	2005	Stubble	91	1.40	1.87	0.00	0.00	1.70
LW-032-1	2005	Stubble	84	1.35	1.76	0.00	0.00	1.70
LW-032-5	2005	Stubble	101	1.60	1.87	0.00	0.00	1.80
LW-040-1	2005	Stubble	133	1.55	1.91	0.00	0.00	3.30
LW-040-3	2005	Stubble	84	1.30	0.19	1.11	1.31	0.00
<b>Stubble Average</b>			<b>99</b>	<b>1.44</b>	<b>1.52</b>	<b>0.22</b>	<b>0.26</b>	<b>1.70</b>
LW-005-1	2005	Stubble-Pot	154	4.60	3.00	1.60	1.88	4.40
LW-007-1	2005	Stubble-Pot	126	3.90	2.48	1.42	1.67	4.30
LW-016-1	2005	Stubble-Pot	133	2.60	1.85	0.75	0.88	4.80
LW-019-1	2005	Stubble-Pot	136	2.10	2.01	0.09	0.10	3.50
LW-021-1	2005	Stubble-Pot	136	1.55	2.01	0.00	0.00	2.90
LW-050-1	2005	Stubble-Pot	119	4.10	2.25	1.85	2.18	4.80
<b>2005 Stubble-Pot Average</b>			<b>134</b>	<b>3.14</b>	<b>2.27</b>	<b>0.95</b>	<b>1.12</b>	<b>4.12</b>
LW-004-4	2006	Stubble-Pot	7	2.45	0.11	2.34	2.75	0.90
LW-013-3	2006	Stubble-Pot	28	0.60	0.35	0.25	0.29	0.00
LW-015-3	2006	Stubble-Pot	7	0.30	0.11	0.19	0.22	0.30
LW-035-4	2006	Stubble-Pot	14	0.25	0.23	0.02	0.02	0.20
LW-042-2	2006	Stubble-Pot	7	1.55	0.11	1.44	1.69	0.30
<b>Stubble-Pot Average</b>			<b>13</b>	<b>1.03</b>	<b>0.18</b>	<b>0.85</b>	<b>0.99</b>	<b>0.34</b>
HG-045-1	2005	Winter Wheat	357	17.80	5.56	12.24	14.40	21.30
HG-046-1	2005	Winter Wheat	269	18.95	4.71	14.24	16.75	19.50
HG-047-1	2005	Winter Wheat	168	5.90	3.29	2.61	3.07	5.20
HG-112-1	2005	Winter Wheat	346	4.00	5.31	0.00	0.00	5.90
KMF-074-1	2005	Winter Wheat	245	12.75	4.82	7.93	9.33	14.00
KMF-078-1	2005	Winter Wheat	116	13.70	2.91	10.79	12.69	16.00
KMF-082-1	2005	Winter Wheat	245	11.90	4.82	7.08	8.33	13.20
KMF-084-1	2005	Winter Wheat	245	10.70	4.82	5.88	6.92	12.20
KMF-087-1	2005	Winter Wheat	119	7.40	2.92	4.48	5.27	11.20
KMF-092-1	2005	Winter Wheat	119	13.10	2.92	10.18	11.98	14.10
LW-010-1	2005	Winter Wheat	273	18.25	4.95	13.30	15.64	22.30
LW-017-1	2005	Winter Wheat	256	20.20	4.58	15.62	18.37	19.40
LW-020-1	2005	Winter Wheat	287	13.90	4.96	8.94	10.52	19.60
LW-023-1	2005	Winter Wheat	301	16.95	4.98	11.97	14.08	21.80
LW-049-1	2005	Winter Wheat	262	21.05	4.12	16.93	19.92	24.40
<b>2005 Winter Wheat Average</b>			<b>241</b>	<b>13.77</b>	<b>4.38</b>	<b>9.48</b>	<b>11.15</b>	<b>16.01</b>
LW-016-3	2006	Winter Wheat	21	2.15	0.17	1.98	2.33	1.40
LW-021-3	2006	Winter Wheat	21	3.10	0.28	2.82	3.32	1.70
LW-036-2	2006	Winter Wheat	14	2.40	0.23	2.17	2.55	0.70
LW-037-2	2006	Winter Wheat	14	1.55	0.23	1.32	1.55	1.60
LW-038-2	2006	Winter Wheat	14	2.40	0.23	2.17	2.55	1.30
LW-040-4	2006	Winter Wheat	21	3.85	0.28	3.57	4.20	1.40
<b>2006 Winter Wheat Average</b>			<b>18</b>	<b>2.58</b>	<b>0.24</b>	<b>2.34</b>	<b>2.75</b>	<b>1.35</b>

RECEIVED BY OWRD

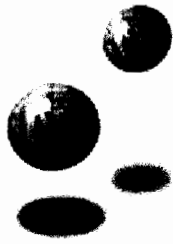
AUG 15 2016



RECE

AUG 15 2008

SALEM, OR  
Attachment A



# IRZ CONSULTING, LLC

## Sample Irrigation Report With Explanation

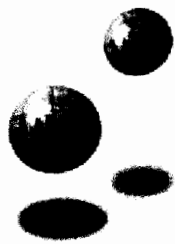
Column 1      Column 2      Column 3      Column 4      Column 5      Column 6      Column 7      Column 8

<u>Date</u>	<u>Days Between Readings</u>	<u>Irrigation</u>	<u>Rain</u>	<u>Net Irrigation</u>	<u>Gross Irrigation</u>	<u>Measured ET</u>	<u>% Available Water Root Zone</u>
5/21/2004	-	5.30	0.01	5.29	5.88	0.00	80%
5/27/2004	6	0.40	0.40	0.00	0.00	0.30	83%
6/3/2004	7	0.70	0.04	0.66	0.73	0.80	80%
6/10/2004	7	1.50	1.05	0.45	0.50	0.90	100%
6/17/2004	7	0.90	0.00	0.90	1.00	1.00	97%
6/24/2004	7	2.20	0.02	2.18	2.42	2.50	87%
7/1/2004	7	1.80	0.00	1.80	2.00	1.80	87%
7/8/2004	7	3.00	0.00	3.00	3.33	3.10	83%
7/15/2004	7	2.10	0.00	2.10	2.33	2.20	80%
7/22/2004	7	2.10	0.00	2.10	2.33	2.10	80%
7/29/2004	7	2.15	0.00	2.15	2.39	2.20	80%
8/5/2004	7	2.00	0.00	2.00	2.22	2.00	80%
8/12/2004	7	1.50	0.01	1.49	1.66	1.40	83%
8/20/2004	8	1.00	0.00	1.00	1.11	1.10	80%
Totals:	91	26.65	1.53	25.12	27.91	21.40	-

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR



# IRZ CONSULTING, LLC

## Sample Irrigation Report With Explanation

- Column 1** (DATE): The day the field was monitored.
- Column 2** (DAYS BETWEEN READINGS): The interval between soil moisture readings.
- Column 3** (IRRIGATION): The total amount of water collected in the rain gauge. This amount includes rainfall.
- Column 4** (RAIN): The measured amount of natural precipitation collected at the nearest automated weather station.
- Column 5** (NET IRRIGATION): The amount of water applied that reached the plant. This is achieved by subtracting rain (Column 4) from irrigation (Column 3).
- Column 6** (GROSS IRRIGATION): This is the total amount of water applied. This is calculated using an eighty five percent efficiency. The amount is achieved by dividing net irrigation (Column 5) by eighty five percent.
- Column 7** (MEASURED ET): Measured Crop Evapotranspiration. This is a calculation using the irrigation (Column 3) and the change in soil moisture of the root zone.
- Column 8** (% AVAILABLE WATER ROOT ZONE): The total amount of moisture accessible to the plant at the time the soil measurement was taken. This is the range of soil moisture between field capacity and wilting point.

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR



IRZ Consulting, LLC

Irrigation Summary Report

Date: 11/1/2005 - 10/31/2006

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
001-1	2006	Alfalfa	140	5.80	5.60	0.20	0.24	9.50
002-1	2006	Alfalfa	361	43.42	11.27	32.15	37.82	48.20
006-1	2006	Alfalfa	361	36.29	11.27	25.02	29.44	39.50
008-1	2006	Alfalfa	360	31.76	11.26	20.50	24.12	37.60
009-1	2006	Alfalfa	361	36.90	11.27	25.63	30.15	43.10
011-1	2006	Alfalfa	333	32.65	10.32	22.33	26.27	36.50
014-1	2006	Alfalfa	166	21.75	2.90	18.85	22.18	22.40
014-1	2005	Alfalfa	172	10.60	7.60	3.00	3.53	14.30
018-1	2006	Alfalfa	326	33.15	10.32	22.83	26.86	36.80
019-1	2006	Alfalfa	361	35.56	11.27	24.29	28.58	42.20
020-1	2006	Alfalfa	361	21.91	11.27	10.64	12.52	26.00
025-1	2006	Alfalfa	137	5.90	5.60	0.30	0.35	7.80
026-1	2006	Alfalfa	194	24.90	3.69	21.21	24.95	29.80
033-1	2006	Alfalfa	319	42.80	10.17	32.63	38.39	44.80
034-1	2006	Alfalfa	361	30.16	11.27	18.89	22.22	34.70
039-1	2006	Alfalfa	324	18.70	10.32	8.38	9.86	22.40
044-1	2006	Alfalfa	308	34.35	9.95	24.40	28.71	35.80
046-1	2006	Alfalfa	357	35.05	11.07	23.98	28.21	36.50
052-1	2006	Alfalfa	361	40.05	11.09	28.96	34.07	43.70
054-1	2006	Alfalfa	361	46.12	11.09	35.03	41.21	49.80
056-1	2006	Alfalfa	361	36.10	11.09	25.01	29.42	39.80
068-1	2006	Alfalfa	238	26.00	5.88	20.12	23.67	32.10
078-1	2006	Alfalfa	178	43.55	3.66	39.89	46.93	49.60
083-1	2006	Alfalfa	238	30.10	5.88	24.22	28.49	31.10
087-1	2006	Alfalfa	178	20.55	3.66	16.89	19.87	22.80
089-1	2006	Alfalfa	361	33.05	11.27	21.78	25.62	38.50
090-1	2006	Alfalfa	238	25.40	5.88	19.52	22.96	29.90
093-1	2006	Alfalfa	151	11.75	6.59	5.16	6.07	10.80
093-1	2006	Alfalfa	188	14.85	3.90	10.95	12.88	16.70
<b>2006 Alfalfa Average</b>			<b>281</b>	<b>28.59</b>	<b>8.50</b>	<b>20.10</b>	<b>23.64</b>	<b>32.16</b>
016-1	2007	Alfalfa	41	1.45	1.09	0.36	0.42	3.30
048-1	2007	Alfalfa	11	0.15	0.04	0.11	0.13	0.30
<b>2007 Alfalfa Average</b>			<b>26</b>	<b>0.80</b>	<b>0.57</b>	<b>0.24</b>	<b>0.28</b>	<b>1.80</b>
055-1	2007	Bluegrass	74	9.15	1.18	7.97	9.38	9.30
<b>2007 Bluegrass Average</b>			<b>74</b>	<b>9.15</b>	<b>1.18</b>	<b>7.97</b>	<b>9.38</b>	<b>9.30</b>
017-1	2006	Canola	361	24.21	11.27	12.94	15.22	28.50
023-1	2006	Canola	256	22.80	10.12	12.68	14.92	27.30
048-1	2006	Canola	159	11.75	4.53	7.22	8.49	15.40
<b>2006 Canola Average</b>			<b>259</b>	<b>19.59</b>	<b>8.64</b>	<b>10.95</b>	<b>12.88</b>	<b>23.73</b>
005-1	2007	Canola	41	2.55	1.09	1.46	1.72	3.00
007-1	2007	Canola	28	0.95	0.95	0.00	0.00	1.00
022-1	2007	Canola	28	2.35	0.95	1.40	1.65	1.70
027-1	2007	Canola	28	1.55	0.95	0.60	0.71	0.40
037-1	2007	Canola	41	3.10	1.09	2.01	2.36	3.70
038-1	2007	Canola	56	4.75	1.14	3.61	4.25	4.80
040-1	2007	Canola	21	0.90	0.77	0.13	0.15	0.70
041-1	2007	Canola	41	2.05	1.09	0.96	1.13	2.10
047-1	2007	Canola	34	1.45	0.95	0.50	0.59	0.40
050-1	2007	Canola	41	2.75	1.09	1.66	1.95	2.70
<b>2007 Canola Average</b>			<b>36</b>	<b>2.24</b>	<b>1.01</b>	<b>1.23</b>	<b>1.45</b>	<b>2.05</b>

RECEIVED BY OWRD

AUG 15 2016

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
010-1	2006	Field Corn	122	12.70	1.22	11.48	13.51	13.30
024-1	2006	Corn	122	13.30	2.46	10.84	12.75	15.20
032-1	2006	Corn	4	0.25	0.20	0.05	0.06	0.20
<b>Corn Average</b>			<b>83</b>	<b>8.75</b>	<b>1.29</b>	<b>7.46</b>	<b>8.77</b>	<b>9.57</b>
010-1	2006	Cover-grain	30	0.85	0.41	0.44	0.52	1.00
010-1	2006	Cover-grain	88	7.55	4.97	2.58	3.04	5.80
012-1	2006	Cover-grain	109	8.15	5.15	3.00	3.53	7.80
045-1	2006	Cover-grain	126	8.35	5.27	3.08	3.62	6.90
049-1	2006	Cover-grain	112	9.65	5.15	4.50	5.29	8.40
<b>Cover-grain Average</b>			<b>93</b>	<b>6.91</b>	<b>4.19</b>	<b>2.72</b>	<b>3.20</b>	<b>5.98</b>
003-1	2006	Tall Fescue	360	33.99	11.26	22.73	26.74	37.50
051-1	2006	Grass Seed	330	28.10	11.26	16.84	19.81	32.00
055-1	2006	Bluegrass	256	25.05	9.88	15.17	17.85	29.10
Lewis-1-1	2006	Grass Seed	214	33.85	5.55	28.30	33.29	33.80
<b>2006 Grass Seed Average</b>			<b>290</b>	<b>30.25</b>	<b>9.49</b>	<b>20.76</b>	<b>24.42</b>	<b>33.10</b>
049-1	2006	Lima Beans	97	19.95	0.31	19.64	23.11	20.30
053-1	2006	Lima Beans	97	22.10	0.46	21.64	25.46	22.60
<b>Lima Beans Average</b>			<b>97</b>	<b>21.03</b>	<b>0.39</b>	<b>20.64</b>	<b>24.29</b>	<b>21.45</b>
011-1	2007	No crop	3	0.00	0.02	0.00	0.00	0.10
014-1	2007	No Crop	3	0.00	0.02	0.00	0.00	0.10
018-1	2007	No Crop	3	0.00	0.02	0.00	0.00	0.20
023-1	2007	No Crop	13	2.20	0.16	2.04	2.40	0.10
044-1	2007	No Crop	13	1.65	0.16	1.49	1.75	0.00
045-1	2007	No crop	13	4.10	0.16	3.94	4.64	0.30
<b>2007 No Crop Average</b>			<b>8</b>	<b>1.33</b>	<b>0.09</b>	<b>1.25</b>	<b>1.47</b>	<b>0.13</b>
022-1	2006	Pasture	171	6.47	4.66	1.81	2.13	9.30
024-1	2006	Pasture	70	3.47	2.27	1.20	1.41	4.80
027-1	2006	Pasture	166	3.37	4.66	0.00	0.00	6.60
<b>Pasture Average</b>			<b>136</b>	<b>4.44</b>	<b>3.86</b>	<b>1.00</b>	<b>1.18</b>	<b>6.90</b>
010-1	2006	Peas	82	9.70	4.22	5.48	6.45	10.60
012-1	2006	Peas	202	15.14	4.78	10.36	12.19	17.70
045-1	2006	Peas	54	4.80	2.24	2.56	3.01	4.50
049-1	2006	Peas	87	8.70	4.22	4.48	5.27	10.10
053-1	2006	Peas	90	10.00	3.66	6.34	7.46	11.60
074-1	2006	Peas	75	11.09	2.53	8.56	10.07	15.30
082-1	2006	Peas	59	6.78	2.50	4.28	5.04	9.50
084-1	2006	Peas	59	8.37	2.50	5.87	6.91	9.90
092-1	2006	Peas	38	13.75	2.30	11.45	13.47	11.80
<b>Peas Average</b>			<b>83</b>	<b>9.81</b>	<b>3.22</b>	<b>6.60</b>	<b>7.76</b>	<b>11.22</b>
001-1	2006	Potatoes	88	24.15	2.47	21.68	25.51	23.60
004-1	2006	Potatoes	81	20.25	2.46	17.79	20.93	20.10
013-1	2006	Potatoes	88	23.50	2.47	21.03	24.74	23.90
015-1	2006	Potatoes	109	24.30	2.47	21.83	25.68	24.50
025-1	2006	Potatoes	130	26.35	2.66	23.69	27.87	26.60
032-1	2006	Potatoes	130	20.94	1.35	19.59	23.05	22.10
035-1	2006	Potatoes	109	16.85	2.47	14.38	16.92	16.10
042-1	2006	Potatoes	81	20.35	1.16	19.19	22.58	21.50
043-1	2006	Potatoes	101	25.10	2.42	22.68	26.68	24.60
048-2	2006	Potatoes	122	22.17	2.46	19.71	23.19	23.20
<b>Potatoes Average</b>			<b>104</b>	<b>22.40</b>	<b>2.24</b>	<b>20.16</b>	<b>23.72</b>	<b>22.62</b>
043-1	2006	Stubble	119	5.70	5.19	0.51	0.60	6.90
048-1	2006	Stubble	112	10.80	4.98	5.82	6.85	9.40
053-1	2006	Stubble	88	4.60	5.19	0.00	0.00	4.90
053-1	2006	Stubble	6	0.00	0.00	0.00	0.00	0.30
<b>2006 Stubble Average</b>			<b>81</b>	<b>5.28</b>	<b>3.84</b>	<b>1.58</b>	<b>1.86</b>	<b>5.38</b>
049-1	2007	Stubble	13	0.45	0.16	0.29	0.34	0.20
<b>2007 Stubble Average</b>			<b>13</b>	<b>0.45</b>	<b>0.16</b>	<b>0.29</b>	<b>0.34</b>	<b>0.20</b>

AUG 15 2016

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
004-1	2006	Stubble-Pot	112	7.35	5.15	2.20	2.59	10.30
013-1	2006	Stubble-Pot	123	5.65	5.39	0.26	0.31	6.50
015-1	2006	Stubble-Pot	144	6.80	6.24	0.56	0.66	11.20
032-1	2006	Stubble-Pot	117	6.65	6.51	0.14	0.16	6.70
035-1	2006	Stubble-Pot	151	7.50	6.59	0.91	1.07	6.90
042-1	2006	Stubble-Pot	147	6.40	6.24	0.16	0.19	9.30
<b>Stubble-Pot Average</b>			<b>132</b>	<b>6.73</b>	<b>6.02</b>	<b>0.71</b>	<b>0.83</b>	<b>8.48</b>
005-1	2006	Winter Wheat	290	25.43	10.12	15.31	18.01	30.30
007-1	2006	Winter Wheat	283	29.35	10.12	19.23	22.62	33.00
016-1	2006	Winter Wheat	291	32.58	10.13	22.45	26.41	37.40
021-1	2006	Winter Wheat	361	30.19	11.27	18.92	22.26	35.70
025-1	2006	Winter Wheat	3	0.00	0.02	0.00	0.00	0.20
036-1	2006	Winter Wheat	319	22.80	10.17	12.63	14.86	28.50
037-1	2006	Winter Wheat	263	16.10	10.12	5.98	7.04	18.10
038-1	2006	Winter Wheat	298	18.70	10.13	8.57	10.08	23.60
040-1	2006	Winter Wheat	284	19.64	10.13	9.51	11.19	24.10
041-1	2006	Winter Wheat	290	16.79	10.12	6.67	7.85	21.20
047-1	2006	Winter Wheat	294	24.05	9.93	14.12	16.61	27.70
050-2	2006	Winter Wheat	276	29.43	10.11	19.32	22.73	31.00
067-1	2006	Winter Wheat	133	8.95	4.65	4.30	5.06	9.20
091-1	2006	Winter Wheat	133	8.70	4.65	4.05	4.76	15.60
094-1	2006	Winter Wheat	126	10.85	4.52	6.33	7.45	17.80
<b>2006 Winter Wheat Average</b>			<b>243</b>	<b>19.57</b>	<b>8.41</b>	<b>11.16</b>	<b>13.13</b>	<b>23.56</b>
001-1	2007	Winter Wheat	3	0.00	0.02	0.00	0.00	0.10
004-1	2007	Winter Wheat	20	0.80	0.77	0.03	0.04	0.60
012-1	2007	Winter Wheat	20	0.35	0.77	0.00	0.00	0.50
013-1	2007	Winter Wheat	20	0.50	0.77	0.00	0.00	0.50
033-1	2007	Winter Wheat	20	0.35	0.77	0.00	0.00	0.80
035-1	2007	Winter Wheat	20	0.65	0.77	0.00	0.00	0.60
039-1	2007	Winter Wheat	3	0.05	0.02	0.03	0.04	0.00
042-1	2007	Winter Wheat	20	1.05	0.77	0.28	0.33	0.80
043-1	2007	Winter Wheat	3	0.00	0.02	0.00	0.00	0.10
<b>2007 Winter Wheat Average</b>			<b>14</b>	<b>0.42</b>	<b>0.52</b>	<b>0.04</b>	<b>0.05</b>	<b>0.44</b>

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR



# Irrigation Reports 2007

Irrigation summary reports provide net irrigation, gross irrigation, and measured ET rates for individual crops along with the crops averages for comparison.

Irrigation reports also provide net irrigation, gross irrigation, and measured ET rates for individual crops on a weekly basis.



RECEIVED BY OWRD

AUG 15 2007

SALEM, OR

## Serving Agri-Business Since 1984

Irrigation Summary Report

Date: 01-01-07 - 12-31-07

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
002-1	2007	Alfalfa	265	37.05	4.59	32.46	38.19	40.90
005-1	2007	Alfalfa	131	8.75	4.06	4.69	5.52	7.80
006-1	2006	Alfalfa	272	31.25	4.83	26.42	31.08	35.20
008-1	2006	Alfalfa	104	3.45	2.67	0.78	0.92	4.90
009-1	2006	Alfalfa	258	30.30	4.58	25.72	30.26	33.30
013-1	2007	Alfalfa	117	7.20	4.01	3.19	3.75	7.50
016-1	2007	Alfalfa	363	32.15	8.55	23.60	27.76	36.50
019-1	2006	Alfalfa	363	27.00	8.55	18.45	21.71	29.30
020-1	2006	Alfalfa	237	13.41	4.53	8.88	10.45	17.20
021-1	2007	Alfalfa	160	13.90	4.13	9.77	11.49	15.00
023-1	2007	Alfalfa	117	7.60	4.01	3.59	4.22	8.30
026-1	2007	Alfalfa	189	13.54	3.04	10.50	12.35	15.60
034-1	2006	Alfalfa	272	25.65	4.83	20.82	24.49	29.50
035-1	2007	Alfalfa	117	6.35	4.01	2.34	2.75	6.90
040-1	2007	Alfalfa	223	9.10	5.23	3.87	4.55	12.20
042-1	2007	Alfalfa	117	8.15	4.01	4.14	4.87	7.80
043-1	2007	Alfalfa	124	6.55	4.02	2.53	2.98	6.20
046-1	2006	Alfalfa	251	18.75	4.54	14.21	16.72	23.00
048-1	2007	Alfalfa	265	10.10	4.59	5.51	6.48	14.10
048-1	2007	Alfalfa	91	2.95	3.72	0.00	0.00	3.50
052-1	2006	Alfalfa	125	7.25	2.74	4.51	5.31	8.70
054-1	2006	Alfalfa	125	9.05	2.74	6.31	7.42	10.70
056-1	2006	Alfalfa	125	4.70	2.74	1.96	2.31	5.80
068-1	2007	Alfalfa	238	16.35	4.06	12.29	14.46	20.40
078-1	2007	Alfalfa	231	15.85	4.04	11.81	13.89	20.10
083-1	2007	Alfalfa	238	18.75	4.06	14.69	17.28	19.70
087-1	2007	Alfalfa	238	13.55	4.06	9.49	11.16	18.70
089-1	2007	Alfalfa	363	26.35	8.55	17.80	20.94	30.60
090-1	2007	Alfalfa	238	18.05	4.06	13.99	16.46	22.90
<b>Alfalfa Average</b>			<b>205</b>	<b>15.28</b>	<b>4.47</b>	<b>10.84</b>	<b>12.75</b>	<b>17.67</b>
005-1	2007	Canola	202	9.20	4.42	4.78	5.62	13.90
007-1	2007	Canola	279	10.75	4.88	5.87	6.91	15.80
017-1	2006	Canola	44	0.85	1.17	0.00	0.00	1.30
022-1	2007	Canola	91	5.64	1.97	3.67	4.32	7.90
027-1	2007	Canola	91	4.15	1.97	2.18	2.56	7.40
037-1	2007	Canola	251	8.00	4.54	3.46	4.07	12.10
038-1	2007	Canola	244	9.65	4.53	5.12	6.02	14.80
040-1	2007	Canola	83	2.20	2.13	0.07	0.08	2.90
041-1	2007	Canola	188	7.35	4.37	2.98	3.51	11.70
047-1	2007	Canola	230	9.35	4.49	4.86	5.72	12.80
050-1	2007	Canola	48	0.90	1.18	0.00	0.00	2.40
507-1	2007	Canola	112	7.95	2.61	5.34	6.28	10.40
<b>Canola Average</b>			<b>155</b>	<b>6.33</b>	<b>3.19</b>	<b>3.19</b>	<b>3.76</b>	<b>9.45</b>
008-1	2007	Corn	168	10.75	2.13	8.62	10.14	14.40
<b>Corn Average</b>			<b>168</b>	<b>10.75</b>	<b>2.13</b>	<b>8.62</b>	<b>10.14</b>	<b>14.40</b>
010-1	2007	Field Corn	119	11.95	0.53	11.42	13.44	13.80
010-1	2006	Field Corn	104	3.00	2.67	0.33	0.39	4.50
024-1	2007	Field Corn	112	10.55	0.48	10.07	11.85	12.50
049-1	2007	Field Corn	182	15.55	3.69	11.86	13.95	18.00
052-1	2007	Field Corn	105	19.90	0.31	19.59	23.05	20.10
054-1	2007	Field Corn	105	13.30	0.31	12.99	15.28	14.60
056-1	2007	Field Corn	105	8.26	0.31	7.95	9.35	10.30
<b>Field Corn Average</b>			<b>119</b>	<b>11.79</b>	<b>1.19</b>	<b>10.60</b>	<b>12.47</b>	<b>13.40</b>
050-1	2007	Lima Beans	87	23.65	0.23	23.42	27.55	20.80
051-1	2007	Lima Beans	87	27.80	0.23	27.57	32.44	26.60
055-1	2007	Lima Beans	87	28.90	0.22	28.68	33.74	26.90
<b>Lima Beans Average</b>			<b>87</b>	<b>26.78</b>	<b>0.23</b>	<b>26.56</b>	<b>31.24</b>	<b>24.77</b>

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR  
6/1/17

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
011-1	2007	no crop	69	1.05	1.74	0.00	0.00	2.30
014-1	2007	no crop	62	1.15	1.50	0.00	0.00	3.00
018-1	2007	no crop	76	1.10	1.76	0.00	0.00	2.70
023-1	2007	no crop	37	0.45	0.51	0.00	0.00	1.70
036-1	2007	no crop	76	1.55	1.76	0.00	0.00	1.90
044-1	2007	no crop	76	1.30	1.76	0.00	0.00	1.90
045-1	2007	no crop	41	1.10	0.98	0.12	0.14	1.70
no crop Average			62	1.10	1.43	0.02	0.02	2.17
011-1	2007	Norkotah	111	18.95	1.22	17.73	20.86	21.10
018-1	2007	Norkotah	111	19.25	1.22	18.03	21.21	21.10
036-1	2007	Norkotah	82	16.30	1.17	15.13	17.80	17.30
044-1	2007	Norkotah	69	14.80	0.25	14.55	17.12	16.50
045-1	2007	Norkotah	83	7.40	0.31	7.09	8.34	9.00
Norkotah Average			91	15.34	0.83	14.51	17.07	17.00
017-1	2007	Peas	187	10.10	2.81	7.29	8.58	13.50
021-1	2007	Peas	52	13.20	1.14	12.06	14.19	12.50
050-1	2007	Peas	75	10.45	1.69	8.76	10.31	11.30
051-1	2007	Peas	146	15.39	3.32	12.07	14.20	16.70
055-1	2007	Peas	146	12.15	2.81	9.34	10.99	13.90
067-1	2007	Peas	45	12.50	1.14	11.36	13.36	13.90
091-1	2007	Peas	45	11.55	1.14	10.41	12.25	13.00
094-1	2007	Peas	52	12.10	1.14	10.96	12.89	13.00
Peas Average			94	12.18	1.90	10.28	12.10	13.48
012-1	2007	Ranger	90	24.95	1.17	23.78	27.98	26.20
014-1	2007	Ranger	83	23.05	1.15	21.90	25.76	23.90
Ranger Average			87	24.00	1.16	22.84	26.87	25.05
053-1	2007	Ryegrass	363	43.83	7.76	36.07	42.44	47.30
Ryegrass Average			363	43.83	7.76	36.07	42.44	47.30
023-1	2007	Shepody	76	19.70	1.12	18.58	21.86	20.40
Shepody Average			76	19.70	1.12	18.58	21.86	20.40
049-1	2007	Stubble	97	1.55	2.37	0.00	0.00	3.10
Stubble Average			97	1.55	2.37	0.00	0.00	3.10
003-1	2006	Tall Fescue	209	25.40	4.43	20.97	24.67	29.10
Tall Fescue Average			209	25.40	4.43	20.97	24.67	29.10
001-1	2007	Winter Wheat	209	12.84	4.43	8.41	9.89	17.90
004-1	2007	Winter Wheat	223	13.44	4.47	8.97	10.55	18.40
012-1	2007	Winter Wheat	69	1.25	1.74	0.00	0.00	2.10
013-1	2007	Winter Wheat	202	15.38	4.42	10.96	12.89	20.50
015-1	2007	Winter Wheat	209	22.40	4.43	17.97	21.14	27.10
021-1	2006	Winter Wheat	90	1.75	2.18	0.00	0.00	3.90
025-1	2006	Winter Wheat	209	17.80	4.43	13.37	15.73	22.40
032-1	2007	Winter Wheat	195	11.00	4.38	6.62	7.79	15.80
033-1	2007	Winter Wheat	202	14.15	4.42	9.73	11.45	19.40
035-1	2007	Winter Wheat	202	12.40	4.42	7.98	9.39	17.80
039-1	2007	Winter Wheat	27	1.30	0.44	0.86	1.01	2.10
039-1	2007	Winter Wheat	172	10.30	3.98	6.32	7.44	16.00
042-1	2007	Winter Wheat	209	11.10	4.43	6.67	7.85	16.10
043-1	2007	Winter Wheat	195	12.77	4.38	8.39	9.87	17.80
074-1	2007	Winter Wheat	117	11.05	2.60	8.45	9.94	16.20
082-1	2007	Winter Wheat	117	19.25	2.60	16.65	19.59	23.60
084-1	2007	Winter Wheat	117	18.40	2.60	15.80	18.59	21.60
092-1	2007	Winter Wheat	117	12.95	2.60	10.35	12.18	17.90
093-1	2007	Winter Wheat	328	20.20	6.62	13.58	15.98	26.20
Winter Wheat Average			169	12.62	3.66	9.00	10.59	16.99

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR



## Irrigation Application Monitoring

Irrigation application is monitored by using a rain gauge, flow meter, or hour meter.

Summary reports provide net irrigation, gross irrigation, and measured ET rates for individual fields along with the crops averages for comparison.



**Serving Agri-Business Since 1984**

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR



Irrigation Summary Report for 01-01-08 - 12-31-08

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
016-1	2008	Alfalfa	298	32.65	4.39	28.26	33.25	35.00
019-1	2008	Alfalfa	306	37.20	4.71	32.49	38.22	40.30
068-1	2008	Alfalfa	231	21.76	2.32	19.44	22.87	24.90
074-1	2008	Alfalfa	182	21.33	1.56	19.77	23.26	25.80
082-1	2008	Alfalfa	193	23.62	1.60	22.02	25.91	27.30
083-1	2008	Alfalfa	231	30.25	2.32	27.93	32.86	31.70
084-1	2008	Alfalfa	182	20.89	1.56	19.33	22.74	25.30
090-1	2008	Alfalfa	231	23.98	2.32	21.66	25.48	27.50
092-1	2008	Alfalfa	182	21.64	1.56	20.08	23.62	25.90
<b>Alfalfa Average</b>			<b>226</b>	<b>25.92</b>	<b>2.48</b>	<b>23.44</b>	<b>27.58</b>	<b>29.30</b>
052-1	2008	Beans	94	17.55	0.33	17.22	20.26	17.70
056-1	2008	Beans	101	19.18	0.53	18.65	21.94	19.20
<b>Beans Average</b>			<b>97</b>	<b>18.37</b>	<b>0.43</b>	<b>17.94</b>	<b>21.10</b>	<b>18.45</b>
001-1	2008	Canola	249	15.08	4.03	11.05	13.00	17.60
004-1	2008	Canola	249	18.41	4.03	14.38	16.92	21.40
022-1	2008	Canola	32	2.05	0.34	1.71	2.01	1.50
026-1	2008	Canola	126	15.25	1.82	13.43	15.80	16.90
033-1	2008	Canola	256	15.42	4.03	11.39	13.40	19.40
096N-1	2008	Canola	32	3.93	0.34	3.59	0.04	2.40
097-1	2008	Canola	32	4.50	0.34	4.16	0.05	2.40
<b>Canola Average</b>			<b>139</b>	<b>10.66</b>	<b>2.13</b>	<b>8.53</b>	<b>8.75</b>	<b>11.66</b>
032-1	2008	Fescue	207	17.32	3.89	13.43	15.80	20.10
<b>Fescue Average</b>			<b>207</b>	<b>17.32</b>	<b>3.89</b>	<b>13.43</b>	<b>15.80</b>	<b>20.10</b>
025-1	2008	Field Corn	119	24.45	0.70	23.75	27.94	24.50
051-1	2008	Field Corn	136	22.35	1.23	21.12	24.85	20.60
054-1	2008	Field Corn	129	23.50	1.07	22.43	26.39	23.40
<b>Field Corn Average</b>			<b>128</b>	<b>23.43</b>	<b>1.00</b>	<b>22.43</b>	<b>26.39</b>	<b>22.83</b>
002-1	2008	no crop	67	2.44	2.07	0.37	0.44	3.50
003-1	2008	no crop	60	1.64	2.07	0.00	0.00	2.60
006-1	2008	no crop	67	1.64	2.07	0.00	0.00	2.80
008-1	2008	no crop	22	1.16	1.38	0.00	0.00	1.10
009-1	2008	no crop	81	2.04	2.64	0.00	0.00	3.70
034-1	2008	no crop	95	2.22	2.76	0.00	0.00	3.60
046-1	2008	no crop	102	2.55	2.79	0.00	0.00	4.20

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR



Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
093-1	2008	no crop	19	1.05	1.38	0.00	0.00	1.20
<b>no crop Average</b>			<b>64</b>	<b>1.84</b>	<b>2.15</b>	<b>0.05</b>	<b>0.05</b>	<b>2.84</b>
009-1	2008	Norkotah	84	17.25	0.96	16.29	19.16	17.70
010-1	2008	Norkotah	91	20.45	1.05	19.40	22.82	20.50
020-1	2008	Norkotah	77	16.85	0.43	16.42	19.32	17.30
034-1	2008	Norkotah	112	24.35	0.86	23.49	27.64	24.60
046-1	2008	Norkotah	98	20.37	0.43	19.94	23.46	19.50
049-1	2008	Norkotah	80	16.58	0.16	16.42	19.32	15.20
<b>Norkotah Average</b>			<b>90</b>	<b>19.31</b>	<b>0.65</b>	<b>18.66</b>	<b>21.95</b>	<b>19.13</b>
008-1	2008	Peas	97	8.60	1.53	7.07	8.32	9.50
052-1	2008	Peas	103	10.35	1.30	9.05	10.65	11.80
056-1	2008	Peas	103	11.07	1.30	9.77	11.49	12.10
<b>Peas Average</b>			<b>101</b>	<b>10.01</b>	<b>1.38</b>	<b>8.63</b>	<b>10.15</b>	<b>11.13</b>
002-1	2008	Ranger	105	26.88	1.10	25.78	30.33	27.20
003-1	2008	Ranger	147	29.90	1.45	28.45	33.47	30.60
<b>Ranger Average</b>			<b>126</b>	<b>28.39</b>	<b>1.28</b>	<b>27.12</b>	<b>31.90</b>	<b>28.90</b>
053-1	2008	Ryegrass	270	27.64	4.28	23.36	27.48	30.60
<b>Ryegrass Average</b>			<b>270</b>	<b>27.64</b>	<b>4.28</b>	<b>23.36</b>	<b>27.48</b>	<b>30.60</b>
006-1	2008	Shepody	84	20.20	0.96	19.24	22.64	20.20
<b>Shepody Average</b>			<b>84</b>	<b>20.20</b>	<b>0.96</b>	<b>19.24</b>	<b>22.64</b>	<b>20.20</b>
024-1	2008	Spring Wheat	88	10.40	1.10	9.30	10.94	13.70
087-1	2008	Spring Wheat	77	14.21	1.06	13.15	15.47	15.20
<b>Spring Wheat Average</b>			<b>82</b>	<b>12.31</b>	<b>1.08</b>	<b>11.23</b>	<b>13.21</b>	<b>14.45</b>
008-1	2008	Stubble	0	0.00	0.00	0.00	0.00	0.00
010-1	2008	Stubble	74	3.09	2.55	0.54	0.64	4.30
036-1	2008	Stubble	14	0.00	0.00	0.00	0.00	0.20
051-1	2008	Stubble	95	2.35	2.76	0.00	0.00	4.20
052-1	2008	Stubble	32	1.30	1.91	0.00	0.00	1.70
054-1	2008	Stubble	67	1.50	2.26	0.00	0.00	2.90
056-1	2008	Stubble	35	1.30	2.04	0.00	0.00	1.70
<b>Stubble Average</b>			<b>45</b>	<b>1.36</b>	<b>1.65</b>	<b>0.08</b>	<b>0.09</b>	<b>2.14</b>
008-1	2008	Sweet Corn	84	13.35	0.50	12.85	15.12	11.70
<b>Sweet Corn Average</b>			<b>84</b>	<b>13.35</b>	<b>0.50</b>	<b>12.85</b>	<b>15.12</b>	<b>11.70</b>
007-1	2008	Winter Wheat	249	18.22	4.03	14.19	16.69	24.00

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
011-1	2008	Winter Wheat	228	20.03	3.98	16.05	18.88	23.30
014-1	2008	Winter Wheat	235	22.30	4.03	18.27	21.49	26.50
017-1	2008	Winter Wheat	242	19.64	4.03	15.61	18.36	24.00
018-1	2008	Winter Wheat	242	20.09	4.03	16.06	18.89	23.60
020-1	2008	Winter Wheat	88	2.39	2.72	0.00	0.00	4.00
022-1	2008	Winter Wheat	119	9.98	1.81	8.17	9.61	12.30
025-1	2008	Winter Wheat	88	4.24	2.72	1.52	1.79	5.60
027-1	2008	Winter Wheat	119	3.79	1.81	1.98	2.33	6.80
028-1	2008	Winter Wheat	125	8.88	1.80	7.08	8.33	12.30
036-1	2008	Winter Wheat	200	14.90	3.89	11.01	12.95	20.80
037-1	2008	Winter Wheat	249	10.34	4.03	6.31	7.42	13.90
045-1	2008	Winter Wheat	214	17.00	3.89	13.11	15.42	22.00
055-1	2008	Winter Wheat	221	30.85	3.98	26.87	31.61	34.00
067-1	2008	Winter Wheat	132	14.03	1.82	12.21	14.36	14.80
078-1	2008	Winter Wheat	132	17.90	1.82	16.08	18.92	22.50
091-1	2008	Winter Wheat	132	18.83	1.82	17.01	20.01	22.90
094-1	2008	Winter Wheat	132	14.03	1.82	12.21	14.36	17.60
096N-1	2008	Winter Wheat	125	12.80	1.81	10.99	0.13	16.90
097-1	2008	Winter Wheat	125	6.17	1.81	4.36	0.05	9.50
<b>Winter Wheat Average</b>			<b>169</b>	<b>14.32</b>	<b>2.88</b>	<b>11.45</b>	<b>12.58</b>	<b>17.87</b>

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR



## Irrigation Application Monitoring

Irrigation application is monitored by using a rain gauge, flow meter, or hour meter.

Summary reports provide net irrigation, gross irrigation, and measured ET rates for individual fields along with the crops averages for comparison.



RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

**Serving Agri-Business Since 1984**



Customer: **Lamb Weston**  
 Farm: **Madison Farm**

**Irrigation Summary Report**

Date: **1/01/2009 - 12/31/2009**

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
005-1	2009	Alfalfa	258	24.16	3.97	20.19	23.75	27.40
012-1	2009	Alfalfa	359	25.68	7.14	18.54	21.81	30.60
013-1	2009	Alfalfa	359	19.20	7.14	12.06	14.18	23.90
015-1	2009	Alfalfa	258	21.77	3.97	17.80	20.95	25.80
021-1	2009	Alfalfa	359	27.50	7.14	20.36	23.96	31.60
023-1	2009	Alfalfa	251	22.47	3.97	18.50	21.77	24.80
035-1	2009	Alfalfa	363	18.80	7.56	11.24	13.22	22.40
036-1	2009	Alfalfa	363	14.69	7.56	7.13	8.39	20.60
038-1	2009	Alfalfa	241	9.00	3.94	5.06	5.95	12.60
040-1	2009	Alfalfa	363	14.32	7.56	6.76	7.95	19.60
041-1	2009	Alfalfa	234	9.00	3.78	5.22	6.14	12.80
042-1	2009	Alfalfa	363	23.37	7.56	15.81	18.60	28.00
043-1	2009	Alfalfa	363	16.51	7.56	8.95	10.53	20.50
045-1	2009	Alfalfa	363	30.55	7.56	22.99	27.05	34.30
047-1	2009	Alfalfa	363	16.51	7.56	8.95	10.53	21.00
048-1	2009	Alfalfa	363	17.52	7.56	9.96	11.72	21.30
089-1	2009	Alfalfa	283	16.60	4.93	11.67	13.73	21.10
093-1	2009	Alfalfa	363	18.65	7.56	11.09	13.05	26.20
<b>Alfalfa Average</b>			<b>326</b>	<b>19.24</b>	<b>6.33</b>	<b>12.90</b>	<b>15.18</b>	<b>23.58</b>
044-1	2009	Beans	73	19.39	0.32	19.07	22.44	17.40
053-1	2009	Beans	80	21.50	0.36	21.14	24.87	22.30
054-1	2009	Beans	89	23.05	0.36	22.69	26.69	23.90
<b>Beans Average</b>			<b>81</b>	<b>21.31</b>	<b>0.35</b>	<b>20.97</b>	<b>24.67</b>	<b>21.20</b>
014-1	2009	Canola	174	10.50	3.63	6.87	8.08	15.30
039-1	2009	Canola	56	1.52	1.23	0.29	0.34	2.20
<b>Canola Average</b>			<b>115</b>	<b>6.01</b>	<b>2.43</b>	<b>3.58</b>	<b>4.21</b>	<b>8.75</b>
018-1	2009	Corn	143	26.60	1.56	25.04	29.46	28.10
<b>Corn Average</b>			<b>143</b>	<b>26.60</b>	<b>1.56</b>	<b>25.04</b>	<b>29.46</b>	<b>28.10</b>
018-1	2009	Cover-grain	94	5.95	2.47	3.48	4.09	7.40
<b>Cover-grain Average</b>			<b>94</b>	<b>5.95</b>	<b>2.47</b>	<b>3.48</b>	<b>4.09</b>	<b>7.40</b>
003-1	2009	Field Corn	115	21.04	0.53	20.51	24.13	20.60
011-1	2009	Field Corn	133	19.05	0.61	18.44	21.69	18.60
039-1	2009	Field Corn	136	14.24	0.54	13.70	16.12	17.40
051-1	2009	Field Corn	133	16.42	0.61	15.81	18.60	18.50
052-1	2009	Field Corn	126	19.10	0.58	18.52	21.79	18.40
<b>Field Corn Average</b>			<b>129</b>	<b>17.97</b>	<b>0.57</b>	<b>17.40</b>	<b>20.47</b>	<b>18.70</b>
001-1	2009	No Crop	66	2.24	1.76	0.48	0.56	3.70
003-1	2009	No Crop	101	3.73	2.50	1.23	1.45	6.10
004-1	2009	No Crop	66	2.17	1.76	0.41	0.48	4.00
007-1	2009	No Crop	87	2.29	2.35	0.00	0.00	4.40
011-1	2009	No Crop	94	3.39	2.47	0.92	1.08	5.90
016-1	2009	No Crop	94	2.99	2.47	0.52	0.61	4.60
017-1	2009	No Crop	46	1.18	0.84	0.34	0.40	2.60
019-1	2009	No Crop	32	1.05	0.53	0.52	0.61	2.50
025-1	2009	No Crop	59	1.72	1.65	0.07	0.08	3.60
037-1	2009	No Crop	101	2.46	2.50	0.00	0.00	4.40
<b>No Crop Average</b>			<b>75</b>	<b>2.32</b>	<b>1.88</b>	<b>0.45</b>	<b>0.53</b>	<b>4.18</b>

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR



Customer: **Lamb Weston**  
 Farm: **Madison Farm**

**Irrigation Summary Report**

Date: **1/01/2009 - 12/31/2009**

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
007-1	2009	Norkotah	94	25.74	0.43	25.31	29.78	22.90
016-1	2009	Norkotah	98	26.55	0.53	26.02	30.61	21.20
017-1	2009	Norkotah	78	26.69	0.42	26.27	30.91	23.30
019-1	2009	Norkotah	101	31.05	0.43	30.62	36.02	24.60
<b>Norkotah Average</b>			<b>93</b>	<b>27.51</b>	<b>0.45</b>	<b>27.06</b>	<b>31.83</b>	<b>23.00</b>
033-1	2009	Peas	91	13.09	1.28	11.81	13.89	14.70
037-1	2009	Peas	101	8.89	0.43	8.46	9.95	9.10
053-1	2009	Peas	63	9.59	1.60	7.99	9.40	10.10
054-1	2009	Peas	63	9.33	1.60	7.73	9.09	9.60
<b>Peas Average</b>			<b>80</b>	<b>10.23</b>	<b>1.23</b>	<b>9.00</b>	<b>10.58</b>	<b>10.88</b>
001-1	2009	Ranger	108	29.30	0.53	28.77	33.85	23.60
004-1	2009	Ranger	112	27.00	0.51	26.49	31.16	25.30
<b>Ranger Average</b>			<b>110</b>	<b>28.15</b>	<b>0.52</b>	<b>27.63</b>	<b>32.51</b>	<b>24.45</b>
032-1	2009	Ryegrass	216	14.87	3.86	11.01	12.95	18.70
050-1	2009	Ryegrass	227	28.33	4.28	24.05	28.29	32.00
<b>Ryegrass Average</b>			<b>222</b>	<b>21.60</b>	<b>4.07</b>	<b>17.53</b>	<b>20.62</b>	<b>25.35</b>
025-1	2009	Shepody	91	28.19	0.50	27.69	32.58	24.30
<b>Shepody Average</b>			<b>91</b>	<b>28.19</b>	<b>0.50</b>	<b>27.69</b>	<b>32.58</b>	<b>24.30</b>
033-1	2009	Stubble	53	1.54	1.14	0.40	0.47	2.60
051-1	2009	Stubble	59	1.97	1.65	0.32	0.38	3.00
052-1	2009	Stubble	87	2.19	2.09	0.10	0.12	3.70
053-1	2009	Stubble	32	1.05	0.43	0.62	0.73	2.20
<b>Stubble Average</b>			<b>58</b>	<b>1.69</b>	<b>1.33</b>	<b>0.36</b>	<b>0.43</b>	<b>2.88</b>
055-1	2009	Tall Fescue	223	18.35	3.69	14.66	17.25	22.00
056-1	2009	Tall Fescue	188	24.03	3.56	20.47	24.08	26.20
<b>Tall Fescue Average</b>			<b>206</b>	<b>21.19</b>	<b>3.63</b>	<b>17.57</b>	<b>20.67</b>	<b>24.10</b>
002-1	2009	Winter Wheat	192	13.77	4.10	9.67	11.38	19.10
004-1	2009	Winter Wheat	56	1.52	1.82	0.00	0.00	2.50
006-1	2009	Winter Wheat	199	18.55	4.10	14.45	17.00	23.40
008-1	2009	Winter Wheat	206	18.32	4.10	14.22	16.73	26.10
009-1	2009	Winter Wheat	199	12.74	4.10	8.64	10.16	17.70
010-1	2009	Winter Wheat	206	16.68	4.10	12.58	14.80	21.50
020-1	2009	Winter Wheat	181	9.65	3.63	6.02	7.09	15.10
034-1	2009	Winter Wheat	206	15.59	4.10	11.49	13.52	21.10
038-1	2009	Winter Wheat	46	1.35	0.84	0.51	0.60	1.60
041-1	2009	Winter Wheat	73	2.75	1.87	0.88	1.04	3.40
044-1	2009	Winter Wheat	35	1.17	0.70	0.47	0.55	2.10
046-1	2009	Winter Wheat	206	11.61	4.10	7.51	8.84	16.80
049-1	2009	Winter Wheat	199	15.36	4.10	11.26	13.25	20.90
<b>Winter Wheat Average</b>			<b>154</b>	<b>10.70</b>	<b>3.20</b>	<b>7.52</b>	<b>8.84</b>	<b>14.72</b>

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR



Customer: **Madison Farms**

**Irrigation Summary Report**

Date: **1/01/2009 - 12/31/2009**

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
027-1	2009	Alfalfa	185	11.35	2.90	8.45	9.94	15.40
067-1	2009	Alfalfa	147	16.51	1.64	14.87	17.49	22.40
068-1	2009	Alfalfa	196	17.70	2.74	14.96	17.60	21.10
074-1	2009	Alfalfa	196	13.07	2.74	10.33	12.15	16.60
082-1	2009	Alfalfa	196	17.58	2.74	14.84	17.46	21.90
083-1	2009	Alfalfa	185	19.21	2.62	16.59	19.52	22.70
084-1	2009	Alfalfa	196	14.60	2.74	11.86	13.95	20.40
089-1	2009	Alfalfa	283	16.70	4.93	11.77	13.85	21.20
090-1	2009	Alfalfa	182	6.53	2.64	3.89	4.58	14.40
091-1	2009	Alfalfa	129	13.20	1.56	11.64	13.69	17.50
092-1	2009	Alfalfa	189	2.00	2.74	0.00	0.00	9.50
094-1	2009	Alfalfa	129	5.21	0.54	4.67	5.49	10.90
<b>Alfalfa Average</b>			<b>184</b>	<b>12.81</b>	<b>2.54</b>	<b>10.32</b>	<b>12.14</b>	<b>17.83</b>
022-1	2009	Canola	119	9.34	2.40	6.94	8.16	11.90
024-1	2009	Canola	126	9.10	2.40	6.70	7.88	12.10
028-1	2009	Canola	133	7.15	2.50	4.65	5.47	11.60
096N-1	2009	Canola	126	7.37	2.40	4.97	0.06	10.40
097-1	2009	Canola	126	6.28	2.40	3.88	0.05	9.20
112-1	2009	Canola	56	1.60	0.24	1.36	1.60	3.40
<b>Canola Average</b>			<b>114</b>	<b>6.81</b>	<b>2.06</b>	<b>4.75</b>	<b>3.87</b>	<b>9.77</b>
078-1	2009	Peas	56	14.75	0.43	14.32	16.85	15.70
087-1	2009	Peas	56	12.80	1.47	11.33	13.33	13.10
<b>Peas Average</b>			<b>56</b>	<b>13.78</b>	<b>0.95</b>	<b>12.83</b>	<b>15.09</b>	<b>14.40</b>
026-1	2009	Winter Wheat	147	15.35	2.45	12.90	15.18	17.70
<b>Winter Wheat Average</b>			<b>147</b>	<b>15.35</b>	<b>2.45</b>	<b>12.90</b>	<b>15.18</b>	<b>17.70</b>

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

**Point of Diversion #1 Fish Screen Documentation**

**Extension of Time Application**

**Permit S-51017**

**RECEIVED BY OWRD**

**AUG 15 2016**

**SALEM, OR**



November 26<sup>th</sup>, 2010

Kent Madison  
29299 Madison Rd  
Echo, Oregon 97826

RE: Columbia Improvement District's Columbia River Pumping Station.

Kent:

As you are aware, the Columbia Improvement District (CID) and Boardman Tree Farm (BTF) had a major project during January and February of 2008 to install new fish screens at the Columbia River Pumping Station they jointly own. The new screens were installed to meet the current National Marine Fisheries Service (NMFS) fish screening standards. Both NMFS and the Oregon Department of Fish and Wildlife (ODFW) reviewed and improved the plans. And as the first project of its size and scope, ODFW provided a \$300,000 grant which covered approximately 10% of the total cost. This grant from ODFW was paid in full. And after the project was completed, two ODFW employees visited the site and inspected the system in operation.

Neither our office nor CID has a final inspection notice from the ODFW. But the system has been fully operational for three years now. And since the ODFW released the full amount of their grant we assumed they had signed off on the project as complete in 2008. I have contacted ODFW several times in the last two weeks requesting confirmation of this, but have yet to receive anything in writing.

If others have further questions regarding this subject they can contact me directly. My office number is (541) 567-0252 and my e-mail address is [paul@irz.com](mailto:paul@irz.com).

Sincerely,

Paul Wattenburger, PE

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR



**Attachment 3**  
**Conditions from Permit Amendments**  
*Time Extension for Permit S-51017*

---

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

NE 1/4 NE 1/4	40.0 ACRES	
NW 1/4 NE 1/4	1.9 ACRES	38.1 ACRES
SW 1/4 NE 1/4		40.0 ACRES
SE 1/4 NE 1/4	40.0 ACRES	
NE 1/4 NW 1/4	3.8 ACRES	36.2 ACRES
NW 1/4 NW 1/4	34.7 ACRES	0.7 ACRE
SW 1/4 NW 1/4	35.7 ACRES	
SE 1/4 NW 1/4	0.6 ACRE	39.4 ACRES
NE 1/4 SW 1/4		40.0 ACRES
NW 1/4 SW 1/4		36.0 ACRES
SW 1/4 SW 1/4		33.0 ACRES
SE 1/4 SW 1/4		22.0 ACRES
NE 1/4 SE 1/4	8.0 ACRES	31.0 ACRES
NW 1/4 SE 1/4	40.0 ACRES	
SW 1/4 SE 1/4	0.6 ACRE	39.4 ACRES
SE 1/4 SE 1/4	4.2 ACRES	28.8 ACRES
SECTION 19		

NE 1/4 NW 1/4	2.0 ACRES	
NW 1/4 NW 1/4	36.0 ACRES	
SW 1/4 NW 1/4	15.0 ACRES	
NW 1/4 SW 1/4		7.0 ACRES
SECTION 20		

NE 1/4 NE 1/4		18.9 ACRES
NW 1/4 NE 1/4		40.0 ACRES
SW 1/4 NE 1/4		39.0 ACRES
SE 1/4 NE 1/4		5.0 ACRES
NW 1/4 NW 1/4		16.0 ACRES
SW 1/4 NW 1/4		38.0 ACRES
SE 1/4 NW 1/4		40.0 ACRES
NE 1/4 SW 1/4		40.0 ACRES
NW 1/4 SW 1/4	1.1 ACRES	36.0 ACRES
SW 1/4 SW 1/4	0.9 ACRE	36.4 ACRES
SE 1/4 SW 1/4		40.0 ACRES
NE 1/4 SE 1/4	40.0 ACRES	
NW 1/4 SE 1/4	26.2 ACRES	13.8 ACRES
SW 1/4 SE 1/4	40.0 ACRES	
SE 1/4 SE 1/4	40.0 ACRES	
SECTION 30		

NE 1/4 NW 1/4		22.0 ACRES
NW 1/4 NW 1/4		38.0 ACRES
SW 1/4 NW 1/4		39.0 ACRES
SE 1/4 NW 1/4		3.0 ACRES
NW 1/4 SW 1/4	8.1 ACRES	18.6 ACRES
SW 1/4 SW 1/4		7.5 ACRES
SECTION 31		

TOWNSHIP 3 NORTH, RANGE 28 EAST, W.M.

RECEIVED BY OWRD

AUG 15 2016

SAT FOR DR

TIME  
Extension  
condition  
No

A

Diversion screening facilities shall be designed, installed, and operated to Oregon Department of Fish and Wildlife specifications.

Actual construction work shall begin on or before July 5, 1991, and shall be completed on or before October 1, 1992. Complete application of the water to the use shall be made on or before October 1, 1993.

10-1-93  
10-1-95, 10-1-94

TIME  
Extension  
Condition  
No

B

During the development phase of this project, the permit holder shall provide a report to the Department on or about January 30 each year, including an analysis of project efficiencies, water use and crop yields.

Failure to comply with any of the provisions of this permit may result in action including, but not limited to restrictions on the use, civil penalties, or cancellation of the permit.

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

The use of water allowed herein may be made only at times when sufficient water is available to satisfy all prior rights, including rights for maintaining instream flows.

Issued this date, July 3, 1990.

BC 45

/s/ WILLIAM H. YOUNG  
Water Resources Department  
William H. Young  
Director

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

Application 70272  
Basin 7  
70272.SB

Water Resources Department  
Volume 3A Columbia River & Misc.

PERMIT 51017  
District 5

T-8857

- 2. The water user shall install and maintain headgates, in-line flow meters, weirs, or other suitable devices for measuring and recording the quantity of water diverted under this permit. The type and plans of the headgates and measuring devices must be approved by the Department prior to beginning construction and shall be installed under the general supervision of the Department.

TIME EXTENSION  
 CONDITION  
 No

The measuring and recording devices shall be located:

- a. At the proposed additional point of diversion from the Columbia River, and,
- b. At the point where Columbia River water under this permit enters the permit holder's farm system, and,
- c. At the point where Columbia River water under this permit leaves North Farm area toward Lamb-Weston plant and South Farm, and,
- d. At the point where the Columbia River water under this permit enters the Lamb-Weston plant effluent disposal system, and,
- e. At the points where both pipelines carrying Columbia River water under this permit from Lamb-Weston plant area enter South Farm.

- 4. The water user shall allow the watermaster access to the measuring devices; provided however, where the measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.
- 5. The former place of use shall no longer be irrigated as a part of this water right.
- 6. All other terms and conditions of the permit remain the same.
- 7. The water user shall install and maintain a fish screen or fish by-pass device. The type and plans of the screen or by-pass device must be approved by the Oregon Department of Fish and Wildlife prior to beginning of construction and shall be installed under the supervision of the Department of Fish and Wildlife.

Ca  
 Cb  
 Cc  
 Cd  
 Ce

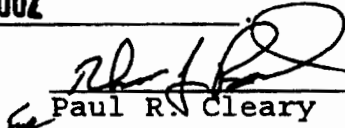
D

RECEIVED BY OWRD

AUG 15 2016

Permit 51017, in the name of KENT R. AND SHANNON K. MADISON, is amended as described herein.

WITNESS the signature of the Water Resources  
Director, affixed MAY 21 2002

  
Paul R. Cleary

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

T-8857.PKS

Page 25 of 25 Special Order Volume 56, Page 389.

T-10768

2. Prior to water use from the proposed additional point of diversion, the permittee shall install meters or other suitable measuring devices as approved by the Director. The permittee shall maintain the meters or measuring devices in good working order, and shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.

TIME EXTENSION  
CONDITION  
NO.

3. The measuring and recording devices shall be located:

Ea

- a. At the proposed additional point of diversion from the Columbia River, and,
- b. At the point where Columbia River water under this permit enters the permit holder's farm water delivery system.

4. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice

5. Water shall be acquired from the same surface water source as the original point of diversion.

6. Diversion screening facilities shall be designed, installed, and operated to Oregon Department of Fish and Wildlife specifications.

Eb

7. Approval of this permit amendment does not grant the permittee permission to trespass on lands not owned by the permittee.

8. All other terms and conditions of Permit S-51017 remain the same.

9. Permit S-51017, in the names of KENT R. AND SHANNON K. MADISON, is amended as described herein.

Dated at Salem, Oregon this 15 day of September, 2010.

  
Phillip E. Ward, Director

Mailing Date: SEP 16 2010

RECEIVED BY OWRD  
AUG 15 2016  
SALEM, OR

**Attachment 4**  
**Annual Irrigation Reports**  
*Time Extension for Permit S-51017*

---

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR



## Irrigation Application Monitoring

Irrigation application is monitored by using a rain gauge, flow meter, or hour meter.

Summary reports provide net irrigation, gross irrigation, and measured ET rates for individual fields along with the crops averages for comparison.



RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

**Serving Agri-Business Since 1984**





Customer: Lamb Weston  
Farm: Madison Farm

Irrigation Summary Report

Date: 1/1/2010 12/31/2010

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
001-1	2010	Alfalfa	108	8.14	6.10	2.04	2.40	6.70
012-1	2010	Alfalfa	359	39.57	12.61	26.96	31.72	42.80
013-1	2010	Alfalfa	223	11.00	6.11	4.89	5.75	15.60
017-1	2010	Alfalfa	122	10.58	6.48	4.10	4.82	10.20
021-1	2010	Alfalfa	244	27.26	6.39	20.87	24.55	32.30
033-1	2010	Alfalfa	359	44.36	12.61	31.75	37.35	47.20
035-1	2010	Alfalfa	251	24.97	6.51	18.46	21.72	28.50
036-1	2010	Alfalfa	359	20.83	12.61	8.22	9.67	21.60
038-1	2010	Alfalfa	359	25.02	12.61	12.41	14.60	26.70
040-1	2010	Alfalfa	359	27.71	12.61	15.10	17.76	30.70
041-1	2010	Alfalfa	359	32.67	12.61	20.06	23.60	35.30
042-1	2010	Alfalfa	359	31.63	12.61	19.02	22.38	34.40
043-1	2010	Alfalfa	359	27.96	12.61	15.35	18.06	33.40
045-1	2010	Alfalfa	359	33.35	12.61	20.74	24.40	36.80
047-1	2010	Alfalfa	293	20.22	8.57	11.65	13.71	24.70
048-1	2010	Alfalfa	315	30.13	9.31	20.82	24.49	33.40
<b>Alfalfa Average</b>			<b>299</b>	<b>25.96</b>	<b>10.19</b>	<b>15.78</b>	<b>18.56</b>	<b>28.77</b>
002-1	2010	Beans	77	18.90	1.66	17.24	20.28	18.90
051-1	2010	Beans	84	24.15	0.70	23.45	27.59	24.90
<b>Beans Average</b>			<b>81</b>	<b>21.53</b>	<b>1.18</b>	<b>20.35</b>	<b>23.94</b>	<b>21.90</b>
020-1	2010	Canola	167	10.46	5.81	4.65	5.47	11.60
034-1	2010	Canola	167	16.47	5.81	10.66	12.54	18.10
046-1	2010	Canola	167	15.54	5.81	9.73	11.45	17.20
<b>Canola Average</b>			<b>167</b>	<b>14.16</b>	<b>5.81</b>	<b>8.35</b>	<b>9.82</b>	<b>15.63</b>
003-1	2010	Corn	122	19.73	3.23	16.50	19.41	21.10
006-1	2010	Corn	157	28.75	4.82	23.93	28.15	30.90
009-1	2010	Corn	157	26.85	4.82	22.03	25.92	28.40
049-1	2010	Corn	219	26.54	8.84	17.70	20.82	27.20
052-1	2010	Corn	157	31.48	4.15	27.33	32.15	32.70
053-1	2010	Corn	157	28.04	4.15	23.89	28.11	29.70
<b>Corn Average</b>			<b>162</b>	<b>26.90</b>	<b>5.00</b>	<b>21.90</b>	<b>25.76</b>	<b>28.33</b>
007-1	2010	Cover-grain	101	11.02	5.06	5.96	7.01	9.90
037-1	2010	Cover-grain	20	5.30	2.06	3.24	3.81	1.20
089-1	2010	Cover-grain	20	4.64	2.06	2.58	3.04	0.40
<b>Cover-grain Average</b>			<b>47</b>	<b>6.99</b>	<b>3.06</b>	<b>3.93</b>	<b>4.62</b>	<b>3.83</b>
008-1	2010	New Alfalfa	359	33.18	12.61	20.57	24.20	35.30
<b>New Alfalfa Average</b>			<b>359</b>	<b>33.18</b>	<b>12.61</b>	<b>20.57</b>	<b>24.20</b>	<b>35.30</b>

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR



Customer: Lamb Weston  
Farm: Madison Farm

Irrigation Summary Report

Date: 1/1/2010 12/31/2010

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
020-71	2010	No Crop	42	2.43	2.06	0.37	0.44	0.00
023-1	2010	No Crop	69	2.22	2.00	0.22	0.26	3.70
032-71	2010	No Crop	42	4.00	2.06	1.94	2.28	0.00
034-71	2010	No Crop	42	2.20	2.06	0.14	0.16	0.00
046-71	2010	No Crop	42	2.32	2.06	0.26	0.31	0.00
050-1	2010	No Crop	55	1.98	1.89	0.09	0.11	3.30
<b>No Crop Average</b>			<b>49</b>	<b>2.53</b>	<b>2.02</b>	<b>0.50</b>	<b>0.59</b>	<b>1.17</b>
005-1	2010	Norkotah	122	25.10	2.71	22.39	26.34	26.60
015-1	2010	Norkotah	115	23.72	2.70	21.02	24.73	24.60
050-1	2010	Norkotah	104	22.75	2.62	20.13	23.68	23.40
<b>Norkotah Average</b>			<b>114</b>	<b>23.86</b>	<b>2.68</b>	<b>21.18</b>	<b>24.92</b>	<b>24.87</b>
002-1	2010	Peas	73	10.95	3.22	7.73	9.09	12.00
010-1	2010	Peas	90	11.67	3.30	8.37	9.85	12.80
018-1	2010	Peas	90	15.35	3.30	12.05	14.18	16.60
051-1	2010	Peas	68	11.53	1.76	9.77	11.49	11.00
055-1	2010	Peas	73	8.32	1.94	6.38	7.50	9.10
<b>Peas Average</b>			<b>79</b>	<b>11.56</b>	<b>2.70</b>	<b>8.86</b>	<b>10.42</b>	<b>12.30</b>
014-1	2010	Ranger	108	22.85	1.66	21.19	24.93	24.20
023-1	2010	Ranger	150	31.50	4.33	27.17	31.96	32.20
032-1	2010	Ranger	94	25.35	2.69	22.66	26.66	26.10
<b>Ranger Average</b>			<b>117</b>	<b>26.57</b>	<b>2.89</b>	<b>23.67</b>	<b>27.85</b>	<b>27.50</b>
054-1	2010	Ryegrass	359	36.51	11.87	24.64	28.99	40.00
<b>Ryegrass Average</b>			<b>359</b>	<b>36.51</b>	<b>11.87</b>	<b>24.64</b>	<b>28.99</b>	<b>40.00</b>
039-1	2010	Spring Wheat	105	11.00	3.31	7.69	9.05	13.70
<b>Spring Wheat Average</b>			<b>105</b>	<b>11.00</b>	<b>3.31</b>	<b>7.69</b>	<b>9.05</b>	<b>13.70</b>
003-1	2010	Stubble	52	2.00	1.89	0.11	0.13	2.10
018-1	2010	Stubble	21	0.91	0.94	0.00	0.00	1.10
039-1	2010	Stubble	49	1.95	1.77	0.18	0.21	2.10
051-1	2010	Stubble	28	1.25	1.36	0.00	0.00	1.80
055-1	2010	Stubble	28	1.56	1.28	0.28	0.33	2.10
<b>Stubble Average</b>			<b>36</b>	<b>1.53</b>	<b>1.45</b>	<b>0.11</b>	<b>0.13</b>	<b>1.84</b>
018-1	2010	Sweet Corn	56	9.08	0.61	8.47	9.96	10.60
<b>Sweet Corn Average</b>			<b>56</b>	<b>9.08</b>	<b>0.61</b>	<b>8.47</b>	<b>9.96</b>	<b>10.60</b>
056-1	2010	Tall Fescue	247	27.12	6.10	21.02	24.73	27.20
<b>Tall Fescue Average</b>			<b>247</b>	<b>27.12</b>	<b>6.10</b>	<b>21.02</b>	<b>24.73</b>	<b>27.20</b>
002-1	2010	Volunteer	45	2.42	1.77	0.65	0.76	3.70
006-1	2010	Volunteer	90	3.31	2.59	0.72	0.85	5.30
009-1	2010	Volunteer	90	3.23	2.59	0.64	0.75	3.80
010-1	2010	Volunteer	49	1.85	1.77	0.08	0.09	2.60
025-1	2010	Volunteer	73	8.34	4.51	3.83	4.51	4.00
049-1	2010	Volunteer	83	2.85	2.23	0.62	0.73	3.50
<b>Volunteer Average</b>			<b>72</b>	<b>3.67</b>	<b>2.58</b>	<b>1.09</b>	<b>1.28</b>	<b>3.82</b>

RECEIVED BY OWRD

AUG 15 2016



Customer: Lamb Weston  
Farm: Madison Farm

Irrigation Summary Report

Date: 1/1/2010 12/31/2010

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
001-1	2010	Winter Wheat	195	23.18	5.90	17.28	20.33	27.30
004-1	2010	Winter Wheat	195	21.44	5.90	15.54	18.28	25.00
005-1	2010	Winter Wheat	62	2.12	1.91	0.21	0.25	3.40
007-1	2010	Winter Wheat	195	17.56	5.90	11.66	13.72	23.20
011-1	2010	Winter Wheat	195	16.87	5.90	10.97	12.91	21.30
014-1	2010	Winter Wheat	52	2.19	1.89	0.30	0.35	3.20
015-1	2010	Winter Wheat	76	2.87	2.03	0.84	0.99	4.40
016-1	2010	Winter Wheat	195	23.69	5.90	17.79	20.93	28.50
017-1	2010	Winter Wheat	195	23.78	5.90	17.88	21.04	27.20
019-1	2010	Winter Wheat	195	22.02	5.90	16.12	18.96	25.50
025-1	2010	Winter Wheat	195	24.92	5.90	19.02	22.38	28.90
032-1	2010	Winter Wheat	49	1.90	1.77	0.13	0.15	2.40
037-1	2010	Winter Wheat	195	17.01	5.90	11.11	13.07	19.60
044-1	2010	Winter Wheat	195	17.97	5.90	12.07	14.20	22.30
089-1	2010	Winter Wheat	195	19.20	5.90	13.30	15.65	22.90
Winter Wheat Average			159	15.78	4.83	10.95	12.88	19.01

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR



Customer: **Madison Farms**

**Irrigation Summary Report**

Date: **1/1/2010 - 12/31/2010**

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
027-1	2010	Alfalfa	245	18.21	6.93	11.28	13.27	21.20
067-1	2010	Alfalfa	199	17.49	5.56	11.93	14.04	22.70
074-1	2010	Alfalfa	210	21.74	5.67	16.07	18.91	24.10
082-1	2010	Alfalfa	182	19.08	4.24	14.84	17.46	21.40
083-1	2010	Alfalfa	210	22.23	5.67	16.56	19.48	24.80
084-1	2010	Alfalfa	210	21.32	5.67	15.65	18.41	23.80
091-1	2010	Alfalfa	210	25.21	5.67	19.54	22.99	27.90
092-1	2010	Alfalfa	210	34.49	5.67	28.82	33.91	35.90
093-1	2010	Alfalfa	203	19.08	5.65	13.43	15.80	21.00
094-1	2010	Alfalfa	199	13.19	5.56	7.63	8.98	19.50
<b>Alfalfa Average</b>			<b>207</b>	<b>21.20</b>	<b>5.63</b>	<b>15.58</b>	<b>18.32</b>	<b>24.23</b>
026-1	2010	Canola	112	12.16	3.92	8.24	9.69	12.80
<b>Canola Average</b>			<b>112</b>	<b>12.16</b>	<b>3.92</b>	<b>8.24</b>	<b>9.69</b>	<b>12.80</b>
096N-71	2010	No Crop	14	1.00	0.47	0.53	0.01	0.00
<b>No Crop Average</b>			<b>14</b>	<b>1.00</b>	<b>0.47</b>	<b>0.53</b>	<b>0.01</b>	<b>0.00</b>
078-1	2010	Spring Wheat	105	14.08	3.31	10.77	12.67	18.50
096N-1	2010	Spring Wheat	105	15.68	3.31	12.37	0.15	18.80
<b>Spring Wheat Average</b>			<b>105</b>	<b>14.88</b>	<b>3.31</b>	<b>11.57</b>	<b>6.41</b>	<b>18.65</b>
022-1	2010	Winter Wheat	140	16.68	4.01	12.67	14.91	18.30
024-1	2010	Winter Wheat	140	14.75	4.01	10.74	12.64	18.30
026-71	2010	Winter Wheat	56	5.21	2.43	2.78	3.27	0.00
028-1	2010	Winter Wheat	140	9.83	3.52	6.31	7.42	13.30
068-1	2010	Winter Wheat	129	19.93	3.90	16.03	18.86	20.50
087-1	2010	Winter Wheat	124	15.72	3.90	11.82	13.91	19.10
090-1	2010	Winter Wheat	129	23.65	3.90	19.75	23.24	25.50
097-1	2010	Winter Wheat	140	14.15	4.01	10.14	0.12	16.80
<b>Winter Wheat Average</b>			<b>124</b>	<b>14.99</b>	<b>3.71</b>	<b>11.28</b>	<b>11.79</b>	<b>16.48</b>

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR



## Irrigation Application Monitoring

Irrigation application is monitored by using a rain gauge, flow meter, or hour meter.

Summary reports provide net irrigation, gross irrigation, and measured ET rates for individual fields along with the crops averages for comparison.



**Serving Agri-Business Since 1984** RECEIVED BY OWRD

AUG 15 2016

SALEM, OR



Customer: **Madison Farms**

**Irrigation Summary Report**

Date: **1/1/2011 - 12/31/2011**

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
067-1	2011	Alfalfa	189	14.82	4.37	10.45	12.29	20.30
074-1	2011	Alfalfa	182	18.67	4.37	14.30	16.82	22.40
082-1	2011	Alfalfa	196	16.10	4.41	11.69	13.75	19.30
083-1	2011	Alfalfa	196	19.77	4.41	15.36	18.07	22.80
084-1	2011	Alfalfa	196	17.70	4.41	13.29	15.64	20.40
091-1	2011	Alfalfa	238	23.15	4.96	18.19	21.40	27.60
092-1	2011	Alfalfa	196	30.00	4.41	25.59	30.11	31.80
093-1	2011	Alfalfa	196	10.40	4.41	5.99	7.05	15.20
094-1	2011	Alfalfa	238	13.35	4.96	8.39	9.87	17.60
<b>Alfalfa Average</b>			<b>203</b>	<b>18.22</b>	<b>4.52</b>	<b>13.69</b>	<b>16.11</b>	<b>21.93</b>
022-1	2011	Canola	112	11.65	4.29	7.36	8.66	14.00
024-1	2011	Canola	112	12.15	4.29	7.86	9.25	14.20
028-1	2011	Canola	112	9.95	3.69	6.26	7.36	12.20
097-1	2011	Canola	112	10.95	4.29	6.66	0.08	13.90
<b>Canola Average</b>			<b>112</b>	<b>11.18</b>	<b>4.14</b>	<b>7.04</b>	<b>6.34</b>	<b>13.58</b>
027-1	2011	Spring Wheat	119	10.20	3.32	6.88	8.09	13.00
068-1	2011	Spring Wheat	115	8.93	3.15	5.78	6.80	16.60
087-1	2011	Spring Wheat	105	7.60	2.96	4.64	5.46	11.70
090-1	2011	Spring Wheat	115	9.95	3.15	6.80	8.00	13.20
<b>Spring Wheat Average</b>			<b>113</b>	<b>9.17</b>	<b>3.15</b>	<b>6.03</b>	<b>7.09</b>	<b>13.63</b>
026-1	2011	Winter Wheat	140	12.82	4.36	8.46	9.95	15.20
078-1	2011	Winter Wheat	133	14.12	4.05	10.07	11.85	20.60
096N-1	2011	Winter Wheat	140	9.30	4.36	4.94	0.06	13.50
110-1	2011	Winter Wheat	108	2.96	3.15	0.00	0.00	7.20
111-1	2011	Winter Wheat	108	4.39	3.15	1.24	0.00	7.70
<b>Winter Wheat Average</b>			<b>125</b>	<b>8.72</b>	<b>3.81</b>	<b>4.94</b>	<b>4.37</b>	<b>12.84</b>

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR



Customer: Lamb Weston

Irrigation Summary Report

Date: 1/1/2011 - 12/31/2011

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
001-1	2011	Alfalfa	360	29.08	7.77	21.31	25.07	33.90
008-1	2011	Alfalfa	356	29.20	7.66	21.54	25.35	35.80
012-1	2011	Alfalfa	132	8.77	5.03	3.74	4.40	11.40
017-1	2011	Alfalfa	360	41.17	7.77	33.40	39.29	47.70
033-1	2011	Alfalfa	360	37.22	7.77	29.45	34.65	42.40
036-1	2011	Alfalfa	360	24.08	7.77	16.31	19.19	29.50
038-1	2011	Alfalfa	360	13.96	7.77	6.19	7.28	20.60
040-1	2011	Alfalfa	244	7.85	6.55	1.30	1.53	12.70
040-2	2011	Alfalfa	220	4.96	5.63	0.00	0.00	10.50
041-1	2011	Alfalfa	360	16.91	7.77	9.14	10.75	21.10
042-1	2011	Alfalfa	360	25.24	7.77	17.47	20.55	30.30
043-1	2011	Alfalfa	132	7.76	5.03	2.73	3.21	11.20
045-1	2011	Alfalfa	360	29.21	7.77	21.44	25.22	34.30
046-1	2011	Alfalfa	112	9.28	1.22	8.06	9.48	7.20
<b>Alfalfa Average</b>			<b>291</b>	<b>20.34</b>	<b>6.66</b>	<b>13.72</b>	<b>16.14</b>	<b>24.90</b>
005-1	2012	New Alfalfa	84	5.47	1.02	4.45	5.24	2.80
015-1	2012	New Alfalfa	112	7.50	1.22	6.28	7.39	7.30
023-1	2012	New Alfalfa	98	4.79	1.18	3.61	4.25	2.80
039-1	2012	New Alfalfa	49	0.79	0.52	0.27	0.32	1.60
089-1	2012	New Alfalfa	105	11.38	1.22	10.16	11.95	5.40
<b>New Alfalfa Average</b>			<b>90</b>	<b>5.99</b>	<b>1.03</b>	<b>4.95</b>	<b>5.83</b>	<b>3.98</b>
049-1	2011	Beans	56	16.15	0.05	16.10	18.94	15.00
052-1	2011	Beans	97	21.70	1.01	20.69	24.34	23.00
056-1	2011	Beans	101	18.10	0.40	17.70	20.82	18.30
<b>Beans Average</b>			<b>85</b>	<b>18.65</b>	<b>0.49</b>	<b>18.16</b>	<b>21.37</b>	<b>18.77</b>
004-1	2011	Canola	173	14.69	6.44	8.85	10.41	18.50
016-1	2011	Canola	174	16.30	6.47	9.83	11.56	20.80
019-1	2011	Canola	167	16.05	6.47	9.58	11.27	20.00
044-1	2011	Canola	167	11.66	6.47	5.19	6.11	16.20
<b>Canola Average</b>			<b>170</b>	<b>14.68</b>	<b>6.46</b>	<b>8.36</b>	<b>9.84</b>	<b>18.88</b>
014-1	2012	Canola	98	8.12	1.18	6.94	8.16	5.30
034-1	2012	Canola	91	1.99	1.18	0.81	0.95	2.60
040-1	2012	Canola	91	2.68	1.18	1.50	1.76	3.60
047-1	2012	Canola	91	2.21	1.18	1.03	1.21	3.70
048-1	2012	Canola	91	2.70	1.18	1.52	1.79	4.30
<b>2012 Canola Average</b>			<b>92</b>	<b>3.54</b>	<b>1.18</b>	<b>2.36</b>	<b>2.77</b>	<b>3.90</b>
006-1	2011	Corn	150	20.45	2.62	17.83	20.98	22.20
007-1	2011	Corn	150	24.90	2.62	22.28	26.21	25.80
009-1	2011	Corn	140	17.06	1.84	15.22	17.91	18.80
012-1	2011	Corn	126	26.22	0.72	25.50	30.00	28.10
025-1	2011	Corn	161	23.85	2.09	21.76	25.60	25.60
037-1	2011	Corn	179	28.75	2.86	25.89	30.46	29.90
043-1	2011	Corn	140	19.75	0.75	19.00	22.35	20.70
053-1	2011	Corn	150	32.50	2.13	30.37	35.73	34.20
055-1	2011	Corn	150	26.50	2.13	24.37	28.67	28.10
<b>Corn Average</b>			<b>150</b>	<b>24.44</b>	<b>1.97</b>	<b>22.47</b>	<b>26.43</b>	<b>25.93</b>

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR



Customer: Lamb Weston

Irrigation Summary Report

Date: 1/1/2011 - 12/31/2011

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
002-1	2011	Cover-grain	65	1.60	2.34	0.00	0.00	3.70
003-1	2011	Cover-grain	59	1.63	2.17	0.00	0.00	3.40
004-1	2011	Cover-grain	77	6.09	0.92	5.25	6.18	7.50
006-1	2011	Cover-grain	30	0.15	0.20	0.00	0.00	0.60
007-1	2011	Cover-grain	72	4.70	2.66	2.04	2.40	6.30
010-1	2011	Cover-grain	56	1.55	2.16	0.00	0.00	3.40
011-1	2011	Cover-grain	69	2.25	2.49	0.00	0.00	4.30
012-1	2011	Cover-grain	43	0.27	0.37	0.00	0.00	1.10
013-1	2011	Cover-grain	79	2.95	2.78	0.17	0.20	5.10
018-1	2011	Cover-grain	79	2.72	2.78	0.00	0.00	5.60
020-1	2011	Cover-grain	63	0.56	0.63	0.00	0.00	1.80
021-1	2011	Cover-grain	90	5.39	3.54	1.85	2.18	8.40
025-1	2011	Cover-grain	30	0.10	0.20	0.00	0.00	0.30
035-1	2011	Cover-grain	104	2.84	3.97	0.00	0.00	6.00
037-1	2011	Cover-grain	72	1.80	2.66	0.00	0.00	3.30
049-1	2011	Cover-grain	63	0.43	0.63	0.00	0.00	1.90
089-1	2011	Cover-grain	104	2.76	3.97	0.00	0.00	5.30
Cover-grain Average			68	2.22	2.03	0.55	0.64	4.00
010-1	2011	Norkotah	77	20.60	1.48	19.12	22.49	21.00
011-1	2011	Norkotah	105	19.55	1.49	18.06	21.25	20.40
018-1	2011	Norkotah	112	24.97	1.49	23.48	27.62	25.80
021-1	2011	Norkotah	112	25.30	0.34	24.96	29.36	27.10
035-1	2011	Norkotah	105	24.52	0.34	24.18	28.45	25.40
Norkotah Average			102	22.99	1.03	21.96	25.83	23.94
049-1	2011	Peas	60	11.20	2.44	8.76	10.31	12.10
056-1	2011	Peas	80	8.00	2.48	5.52	6.49	9.10
089-1	2011	Peas	52	9.78	1.44	8.34	9.81	10.80
Peas Average			64	9.66	2.12	7.54	8.87	10.67
002-1	2011	Ranger	73	20.55	1.22	19.33	22.74	18.40
003-1	2011	Ranger	73	20.65	1.22	19.43	22.86	19.00
013-1	2011	Ranger	108	23.15	1.23	21.92	25.79	22.50
Ranger Average			85	21.45	1.22	20.23	23.80	19.97
051-1	2011	Ryegrass	268	28.43	6.18	22.25	26.18	30.10
052-1	2011	Ryegrass	73	2.51	0.59	1.92	2.26	5.20
054-1	2011	Ryegrass	282	32.00	6.18	25.82	30.38	33.70
Ryegrass Average			208	20.98	4.32	16.66	19.61	23.00
004-01-1	2011	Spring Wheat	146	14.87	4.75	10.12	0.00	17.00
Spring Wheat Average			146	14.87	4.75	10.12	0.00	17.00
006-1	2011	Stubble	72	4.10	2.66	1.44	1.69	5.30
007-1	2011	Stubble	52	0.75	0.63	0.12	0.14	2.20
009-1	2011	Stubble	35	0.55	0.97	0.00	0.00	2.10
009-1	2011	Stubble	65	0.34	0.65	0.00	0.00	1.80
037-1	2011	Stubble	41	0.33	0.36	0.00	0.00	0.90
043-1	2011	Stubble	30	0.10	0.20	0.00	0.00	0.70
049-1	2011	Stubble	59	3.85	2.17	1.68	1.98	5.60

RECEIVED BY OWRD

AUG 15 2016





Customer: Lamb Weston

Irrigation Summary Report

Date: 1/1/2011 - 12/31/2011

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
052-1	2011	Stubble	45	2.45	1.51	0.94	1.11	4.00
053-1	2011	Stubble	76	3.28	2.37	0.91	1.07	4.70
053-1	2012	Stubble	63	0.37	0.59	0.00	0.00	1.20
055-1	2011	Stubble	72	1.90	2.32	0.00	0.00	3.50
055-1	2012	Stubble	66	0.44	0.59	0.00	0.00	1.10
<b>Stubble Average</b>			<b>56</b>	<b>1.54</b>	<b>1.25</b>	<b>0.42</b>	<b>0.50</b>	<b>2.76</b>
056-1	2011	Tall Fescue	59	1.60	1.88	0.00	0.00	3.30
<b>Tall Fescue Average</b>			<b>59</b>	<b>1.60</b>	<b>1.88</b>	<b>0.00</b>	<b>0.00</b>	<b>3.30</b>
016-1	2011	Volunteer	65	5.19	0.65	4.54	5.34	5.70
025-1	2011	Volunteer	76	4.90	2.78	2.12	2.49	7.40
032-1	2011	Volunteer	63	2.39	0.63	1.76	2.07	1.70
044-1	2011	Volunteer	48	0.20	0.32	0.00	0.00	0.80
050-1	2011	Volunteer	63	2.12	0.63	1.49	1.75	2.60
056-1	2011	Volunteer	65	0.47	0.59	0.00	0.00	1.40
<b>Volunteer Average</b>			<b>63</b>	<b>2.55</b>	<b>0.93</b>	<b>1.65</b>	<b>1.94</b>	<b>3.27</b>
005-1	2011	Winter Wheat	202	17.51	6.54	10.97	12.91	22.10
014-1	2011	Winter Wheat	202	15.95	6.54	9.41	11.07	19.80
015-1	2011	Winter Wheat	202	15.93	6.54	9.39	11.05	20.50
020-1	2011	Winter Wheat	202	14.97	6.54	8.43	9.92	20.10
023-1	2011	Winter Wheat	202	15.85	6.54	9.31	10.95	20.90
032-1	2011	Winter Wheat	202	19.14	6.54	12.60	14.82	23.90
034-1	2011	Winter Wheat	202	16.79	6.54	10.25	12.06	21.60
039-1	2011	Winter Wheat	202	6.75	6.54	0.79	0.93	11.70
046-1	2011	Winter Wheat	202	15.49	6.54	8.95	10.53	21.50
047-1	2011	Winter Wheat	202	14.67	6.54	8.13	9.56	19.20
048-1	2011	Winter Wheat	202	8.50	6.54	1.96	2.31	14.00
050-1	2011	Winter Wheat	202	20.48	6.54	13.94	16.40	24.20
<b>Winter Wheat Average</b>			<b>202</b>	<b>15.17</b>	<b>6.54</b>	<b>8.68</b>	<b>10.21</b>	<b>19.96</b>
002-1	2012	Winter Wheat	43	0.64	0.37	0.27	0.32	1.30
003-1	2012	Winter Wheat	73	4.67	0.66	4.01	4.72	2.10
010-1	2012	Winter Wheat	77	5.33	0.76	4.57	5.38	2.80
011-1	2012	Winter Wheat	66	1.33	0.65	0.68	0.80	2.80
013-1	2012	Winter Wheat	51	0.82	0.63	0.19	0.22	1.80
018-1	2012	Winter Wheat	73	5.79	0.66	5.13	6.04	2.70
019-1	2012	Winter Wheat	66	0.77	0.65	0.12	0.14	1.40
021-1	2012	Winter Wheat	30	0.17	0.20	0.00	0.00	0.70
035-1	2012	Winter Wheat	43	0.38	0.37	0.01	0.01	1.00
<b>2012 Winter Wheat Average</b>			<b>58</b>	<b>2.21</b>	<b>0.55</b>	<b>1.66</b>	<b>1.96</b>	<b>1.84</b>

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR



## Irrigation Application Monitoring

Irrigation application is monitored by using a rain gauge, flow meter, or hour meter.

Summary reports provide net irrigation, gross irrigation, and measured ET rates for individual fields along with the crops averages for comparison.



RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

**Serving Agri-Business Since 1984**



Customer: **Madison Farms**  
 Farm: **Madison Farm**

**Irrigation Summary Report**

Date: **1/1/2012 - 12/31/2012**

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
067-1	2012	Alfalfa	227	23.15	6.39	16.76	19.72	25.60
074-1	2012	Alfalfa	227	44.40	6.39	38.01	44.72	47.80
087-1	2012	Alfalfa	178	14.62	3.80	10.82	12.73	18.40
091-1	2012	Alfalfa	234	21.46	6.93	14.53	17.09	24.50
094-1	2012	Alfalfa	201	12.28	4.86	7.42	8.73	16.90
<b>Alfalfa Average</b>			<b>213</b>	<b>23.18</b>	<b>5.67</b>	<b>17.51</b>	<b>20.60</b>	<b>26.64</b>
027-1	2012	Canola	140	15.65	5.41	10.24	12.05	16.90
096N-1	2012	Canola	133	12.95	5.31	7.64	0.09	14.50
107-1	2012	Canola	126	10.13	4.93	5.20	6.12	11.30
<b>Canola Average</b>			<b>133</b>	<b>12.91</b>	<b>5.22</b>	<b>7.69</b>	<b>6.08</b>	<b>14.23</b>
026-1	2012	Corn	136	27.35	2.32	25.03	29.45	28.30
101-1	2012	Corn	129	23.49	2.07	21.42	25.20	24.50
<b>Corn Average</b>			<b>132</b>	<b>25.42</b>	<b>2.20</b>	<b>23.23</b>	<b>27.32</b>	<b>26.40</b>
068-1	2012	New Alfalfa	28	1.20	1.42	0.00	0.00	1.70
<b>New Alfalfa Average</b>			<b>28</b>	<b>1.20</b>	<b>1.42</b>	<b>0.00</b>	<b>0.00</b>	<b>1.70</b>
068-1	2012	Peas	59	16.10	1.80	14.30	16.82	17.40
078-1	2012	Peas	45	16.73	1.49	15.24	17.93	17.10
085-1	2012	Peas	45	16.17	1.49	14.68	17.27	16.00
090-1	2012	Peas	45	13.55	1.49	12.06	14.19	12.80
<b>Peas Average</b>			<b>48</b>	<b>15.64</b>	<b>1.57</b>	<b>14.07</b>	<b>16.55</b>	<b>15.83</b>
112-1	2012	Potatoes	122	33.22	2.07	31.15	36.65	29.00
<b>Potatoes Average</b>			<b>122</b>	<b>33.22</b>	<b>2.07</b>	<b>31.15</b>	<b>36.65</b>	<b>29.00</b>
022-1	2012	Winter Wheat	140	8.64	5.41	3.23	3.80	11.90
024-1	2012	Winter Wheat	140	13.41	5.41	8.00	9.41	16.00
028-1	2012	Winter Wheat	147	14.08	6.19	7.89	9.28	15.60
082-1	2012	Winter Wheat	136	19.75	5.41	14.34	16.87	22.90
083-1	2012	Winter Wheat	136	22.00	5.41	16.59	19.52	24.50
084-1	2012	Winter Wheat	136	18.30	5.41	12.89	15.16	20.40
092-1	2012	Winter Wheat	136	17.79	5.41	12.38	14.56	20.60
093-1	2012	Winter Wheat	136	17.17	5.41	11.76	13.84	18.80
095-1	2012	Winter Wheat	129	5.09	5.31	0.00	0.00	11.20
097-1	2012	Winter Wheat	140	12.20	5.41	6.79	0.08	13.60
113-1	2012	Winter Wheat	143	13.07	5.42	7.65	9.00	15.50
<b>Winter Wheat Average</b>			<b>138</b>	<b>14.68</b>	<b>5.47</b>	<b>9.23</b>	<b>10.14</b>	<b>17.36</b>

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR



Customer: Lamb Weston

Irrigation Summary Report

Date: 1/1/2012 - 12/31/2012

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
001-1	2012	Alfalfa	356	32.05	11.66	20.39	23.99	36.00
005-1	2012	Alfalfa	363	40.60	11.66	28.94	34.05	42.70
008-1	2012	Alfalfa	336	36.38	10.78	25.60	30.12	37.20
015-1	2012	Alfalfa	363	37.28	11.66	25.62	30.14	40.90
017-1	2012	Alfalfa	356	35.63	11.66	23.97	28.20	38.00
023-1	2012	Alfalfa	325	30.52	10.48	20.04	23.58	31.50
033-1	2012	Alfalfa	356	34.19	11.66	22.53	26.50	37.10
036-1	2012	Alfalfa	272	18.20	7.39	10.81	12.72	21.70
037-1	2012	Alfalfa	220	13.30	6.34	6.96	8.19	17.70
038-1	2012	Alfalfa	272	17.84	7.39	10.45	12.29	20.40
039-1	2012	Alfalfa	363	20.94	11.66	9.28	10.92	25.00
041-1	2012	Alfalfa	230	10.91	7.30	3.61	4.25	13.80
042-1	2012	Alfalfa	258	18.80	7.33	11.47	13.49	20.70
045-1	2012	Alfalfa	265	36.05	7.39	28.66	33.72	37.60
046-1	2012	Alfalfa	363	28.27	11.66	16.61	19.54	31.50
089-1	2012	Alfalfa	363	26.19	11.66	14.53	17.09	30.00
Alfalfa Average			316	27.32	9.86	17.47	20.55	30.11
008-1	2013	Alfalfa	24	1.70	0.86	0.84	0.99	1.80
023-1	2013	Alfalfa	24	2.17	0.86	1.31	1.54	2.60
2013 Alfalfa Average			24	1.94	0.86	1.08	1.27	2.20
014-1	2012	Canola	202	15.54	7.29	8.25	9.71	19.20
034-1	2012	Canola	195	16.01	7.19	8.82	10.38	17.60
040-1	2012	Canola	202	14.48	7.29	7.19	8.46	16.50
047-1	2012	Canola	181	8.74	6.80	1.94	2.28	11.50
048-1	2012	Canola	188	10.94	6.81	4.13	4.86	12.90
Canola Average			194	13.14	7.08	6.07	7.14	15.54
009-1	2013	Canola	91	7.40	4.27	3.13	3.68	4.20
013-1	2013	Canola	91	11.05	4.27	6.78	7.98	7.90
021-1	2013	Canola	91	11.08	4.27	6.81	8.01	7.40
035-1	2013	Canola	87	9.79	4.27	5.52	6.49	6.20
041-1	2013	Canola	91	5.72	4.27	1.45	1.71	5.00
2013 Canola Average			90	9.01	4.27	4.74	5.57	6.14
007-1	2012	Corn	147	24.29	2.38	21.91	25.78	25.30
016-1	2012	Corn	152	25.87	2.79	23.08	27.15	26.80
050-1	2012	Corn	150	22.60	2.38	20.22	23.79	23.60
056-1	2012	Corn	143	25.79	2.90	22.89	26.93	27.20
201-1	2012	Corn	129	18.98	2.07	16.91	19.89	21.80
4988-1	2012	Corn	129	14.69	2.07	12.62	0.15	17.50
Corn Average			142	22.04	2.43	19.61	20.62	23.70
004-1	2012	Cover-grain	28	1.10	1.39	0.00	0.00	1.10
006-1	2012	Cover-grain	52	1.20	1.83	0.00	0.00	1.60
012-1	2012	Cover-grain	83	2.55	3.36	0.00	0.00	3.20
020-1	2012	Cover-grain	35	0.85	1.40	0.00	0.00	1.00
025-1	2012	Cover-grain	56	1.30	1.85	0.00	0.00	1.80
049-1	2012	Cover-grain	49	1.28	1.78	0.00	0.00	1.50
Cover-grain Average			51	1.38	1.94	0.00	0.00	1.70
053-1	2012	Lima Beans	111	26.07	2.05	24.02	28.26	27.70
055-1	2012	Lima Beans	87	26.12	0.88	25.44	29.93	26.70
Beans Average			99	26.10	1.37	24.73	29.10	27.20

RECEIVED BY OWRD

AUG 15 2016



Customer: Lamb Weston

Irrigation Summary Report

Date: 1/1/2012 - 12/31/2012

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
003-1	2012	New Alfalfa	73	13.16	3.56	9.60	11.29	8.30
018-1	2012	New Alfalfa	115	6.72	4.35	2.37	2.79	7.40
047-1	2012	New Alfalfa	108	7.38	4.34	3.04	3.58	5.60
<b>New Alfalfa Average</b>			<b>99</b>	<b>9.09</b>	<b>4.08</b>	<b>5.00</b>	<b>5.89</b>	<b>7.10</b>
034-1	2012	No Crop	48	2.44	2.53	0.00	0.00	2.20
044-1	2012	No Crop	48	2.63	2.53	0.10	0.12	3.10
<b>No Crop Average</b>			<b>48</b>	<b>2.54</b>	<b>2.53</b>	<b>0.05</b>	<b>0.06</b>	<b>2.65</b>
019-1	2013	No Crop	95	12.94	3.50	10.23	12.04	2.20
042-1	2013	No Crop	46	2.60	2.53	0.07	0.08	2.90
045-1	2013	No Crop	24	1.50	1.67	0.00	0.00	1.40
050-1	2013	No Crop	34	1.95	1.72	0.23	0.27	2.30
<b>2013 No Crop Average</b>			<b>50</b>	<b>4.75</b>	<b>2.36</b>	<b>2.63</b>	<b>3.10</b>	<b>2.20</b>
032-1	2012	Peas	77	9.75	2.70	7.05	8.29	11.00
044-1	2012	Peas	63	14.80	1.98	12.82	15.08	16.00
055-1	2012	Peas	31	3.80	1.38	2.42	2.85	4.30
<b>Peas Average</b>			<b>57</b>	<b>9.45</b>	<b>2.02</b>	<b>7.43</b>	<b>8.74</b>	<b>10.43</b>
004-1	2012	Potatoes	94	23.95	2.29	21.66	25.48	24.40
006-1	2012	Potatoes	136	27.15	2.07	25.08	29.51	28.50
012-1	2012	Potatoes	129	28.57	2.07	26.50	31.18	29.80
020-1	2012	Potatoes	157	29.90	2.38	27.52	32.38	31.00
025-1	2012	Potatoes	94	26.42	2.29	24.13	28.39	27.40
043-1	2012	Potatoes	115	23.30	2.01	21.29	25.05	24.20
049-1	2012	Potatoes	115	22.09	2.01	20.08	23.62	23.50
<b>Potatoes Average</b>			<b>120</b>	<b>25.91</b>	<b>2.16</b>	<b>23.75</b>	<b>27.94</b>	<b>26.97</b>
051-1	2012	Ryegrass	301	42.60	12.22	30.38	35.74	40.60
052-1	2012	Ryegrass	338	46.12	12.62	33.50	39.41	49.90
054-1	2012	Ryegrass	104	3.50	3.74	0.00	0.00	4.00
<b>Ryegrass Average</b>			<b>248</b>	<b>30.74</b>	<b>9.53</b>	<b>21.29</b>	<b>25.05</b>	<b>31.50</b>
053-1	2013	Ryegrass	52	3.01	2.99	0.02	0.02	3.40
<b>2013 Ryegrass Average</b>			<b>52</b>	<b>3.01</b>	<b>2.99</b>	<b>0.02</b>	<b>0.02</b>	<b>3.40</b>
009-1	2012	Spring Wheat	89	12.43	2.69	9.74	11.46	14.20
<b>Spring Wheat Average</b>			<b>89</b>	<b>12.43</b>	<b>2.69</b>	<b>9.74</b>	<b>11.46</b>	<b>14.20</b>
007-1	2012	Stubble	104	5.24	4.07	1.17	1.38	6.00
009-1	2012	Stubble	35	0.85	1.40	0.00	0.00	1.20
037-1	2012	Stubble	62	1.49	1.88	0.00	0.00	3.20
043-1	2012	Stubble	69	0.73	1.94	0.00	0.00	1.20
053-1	2012	Stubble	35	0.70	1.32	0.00	0.00	0.80
055-1	2012	Stubble	42	0.73	1.51	0.00	0.00	0.60
<b>Stubble Average</b>			<b>58</b>	<b>1.62</b>	<b>2.02</b>	<b>0.20</b>	<b>0.23</b>	<b>2.17</b>
007-1	2013	Stubble	66	2.51	3.34	0.00	0.00	2.70
032-1	2013	Stubble	52	2.81	2.82	0.00	0.00	3.40
054-1	2013	Stubble	91	4.37	4.63	0.00	0.00	4.00
055-1	2013	Stubble	91	4.17	4.63	0.00	0.00	3.80
056-1	2013	Stubble	70	3.15	3.64	0.00	0.00	3.70
<b>2013 Stubble Average</b>			<b>74</b>	<b>3.40</b>	<b>3.81</b>	<b>0.00</b>	<b>0.00</b>	<b>3.52</b>
054-1	2012	Sunflower	129	19.76	2.88	16.88	19.86	22.20
<b>Sunflower Average</b>			<b>129</b>	<b>19.76</b>	<b>2.88</b>	<b>16.88</b>	<b>19.86</b>	<b>22.20</b>
032-1	2012	Sweet Corn	98	17.80	0.59	17.21	20.25	18.80
<b>Sweet Corn Average</b>			<b>98</b>	<b>17.80</b>	<b>0.59</b>	<b>17.21</b>	<b>20.25</b>	<b>18.80</b>

RECEIVED BY OWRD

AUG 15 2016



Customer: Lamb Weston

Irrigation Summary Report

Date: 1/1/2012 - 12/31/2012

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
010-1	2012	Volunteer	77	7.49	3.77	3.72	4.38	3.10
011-1	2012	Volunteer	77	5.81	3.77	2.04	2.40	3.40
016-1	2012	Volunteer	76	3.41	2.56	0.85	1.00	4.80
032-1	2012	Volunteer	42	2.10	1.57	0.53	0.62	1.90
044-1	2012	Volunteer	69	2.51	1.94	0.57	0.67	2.10
050-1	2012	Volunteer	104	6.53	4.07	2.46	2.89	7.60
056-1	2012	Volunteer	97	3.52	3.52	0.00	0.00	4.00
002-1	2013	Volunteer	73	2.38	3.56	0.00	0.00	2.50
<b>Volunteer Average</b>			<b>77</b>	<b>4.22</b>	<b>3.10</b>	<b>1.27</b>	<b>1.50</b>	<b>3.68</b>
002-1	2012	Winter Wheat	202	23.31	7.29	16.02	18.85	28.00
003-1	2012	Winter Wheat	202	23.37	7.29	16.08	18.92	25.30
010-1	2012	Winter Wheat	202	20.28	7.29	12.99	15.28	23.20
011-1	2012	Winter Wheat	202	18.39	7.29	11.10	13.06	20.80
013-1	2012	Winter Wheat	202	15.54	7.29	8.25	9.71	19.00
018-1	2012	Winter Wheat	202	18.16	7.29	10.87	12.79	21.10
019-1	2012	Winter Wheat	202	11.77	7.29	4.48	5.27	14.20
021-1	2012	Winter Wheat	195	13.82	7.19	6.63	7.80	17.60
035-1	2012	Winter Wheat	202	18.77	7.29	11.48	13.51	21.50
<b>Winter Wheat Average</b>			<b>201</b>	<b>18.16</b>	<b>7.28</b>	<b>10.88</b>	<b>12.80</b>	<b>21.19</b>
004-1	2013	Winter Wheat	84	8.59	4.27	4.32	5.08	5.30
006-1	2013	Winter Wheat	55	2.94	2.82	0.12	0.14	3.70
012-1	2013	Winter Wheat	66	3.41	3.34	0.07	0.08	4.30
014-1	2013	Winter Wheat	87	7.35	4.27	3.08	3.62	5.30
016-1	2013	Winter Wheat	55	2.87	2.82	0.05	0.06	3.40
020-1	2013	Winter Wheat	52	2.79	2.82	0.00	0.00	2.70
025-1	2013	Winter Wheat	77	5.05	3.77	1.28	1.51	4.50
036-1	2013	Winter Wheat	59	2.83	2.83	0.00	0.00	3.10
038-1	2013	Winter Wheat	63	3.23	2.85	0.38	0.45	3.60
040-1	2013	Winter Wheat	73	5.88	3.56	2.32	2.73	6.10
043-1	2013	Winter Wheat	73	3.68	3.56	0.12	0.14	4.10
048-1	2013	Winter Wheat	73	7.25	3.56	3.69	4.34	7.10
049-1	2013	Winter Wheat	52	2.94	2.82	0.12	0.14	3.10
<b>2013 Winter Wheat Average</b>			<b>67</b>	<b>4.52</b>	<b>3.33</b>	<b>1.20</b>	<b>1.41</b>	<b>4.33</b>

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR



## Irrigation Application Monitoring

Irrigation application is monitored by using a rain gauge, flow meter, or hour meter.

Summary reports provide net irrigation, gross irrigation, and measured ET rates for individual fields along with the crops averages for comparison.



RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

**Serving Agri-Business Since 1984**



Customer: **Madison Ranches**

**Irrigation Summary Report**

Date: **1/1/2013 - 12/31/2013**

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
067-1	2013	Alfalfa	231	18.25	4.70	13.55	15.94	19.40
068-1	2013	Alfalfa	245	24.27	4.97	19.30	22.71	27.60
074-1	2013	Alfalfa	210	19.83	4.58	15.25	17.94	22.50
078-1	2013	Alfalfa	234	30.20	4.56	25.94	30.52	31.30
087-1	2013	Alfalfa	245	20.48	4.97	15.51	18.25	20.60
091-1	2013	Alfalfa	217	20.77	4.66	16.11	18.95	23.70
093-1	2013	Alfalfa	178	21.43	3.30	18.13	21.33	17.40
094-1	2013	Alfalfa	217	13.93	4.66	9.27	10.91	16.90
<b>Alfalfa Average</b>			<b>222</b>	<b>21.15</b>	<b>4.55</b>	<b>16.63</b>	<b>19.57</b>	<b>22.43</b>
022-1	2013	Canola	112	12.32	2.82	9.50	11.18	13.80
024-1	2013	Canola	112	11.98	2.82	9.16	10.78	15.50
028-1	2013	Canola	112	13.20	2.16	11.04	12.99	15.00
097-1	2013	Canola	112	15.21	2.82	12.39	0.15	18.00
103-1	2013	Canola	122	9.32	2.95	6.37	7.49	11.50
113-1	2013	Canola	112	12.52	2.82	9.70	11.41	14.30
<b>Canola Average</b>			<b>114</b>	<b>12.43</b>	<b>2.73</b>	<b>9.69</b>	<b>9.00</b>	<b>14.68</b>
085-1	2013	Corn	126	19.15	2.06	17.09	20.11	19.30
106-1	2013	Corn	136	26.04	2.88	23.16	27.25	26.20
111-1	2013	Corn	143	25.30	2.96	22.34	26.28	24.60
<b>Corn Average</b>			<b>135</b>	<b>23.50</b>	<b>2.63</b>	<b>20.86</b>	<b>24.55</b>	<b>23.37</b>
107-1	2013	Norkotah	108	22.20	1.92	20.28	23.86	21.40
<b>Norkotah Average</b>			<b>108</b>	<b>22.20</b>	<b>1.92</b>	<b>20.28</b>	<b>23.86</b>	<b>21.40</b>
082-1	2013	Peas	52	13.65	1.57	12.08	14.21	16.10
083-1	2013	Peas	52	10.50	1.57	8.93	10.51	11.30
084-1	2013	Peas	52	15.90	1.57	14.33	16.86	15.60
092-1	2013	Peas	52	18.63	1.60	17.03	20.04	11.00
101-1	2013	Peas	77	13.50	2.03	11.47	13.49	14.00
<b>Peas Average</b>			<b>57</b>	<b>14.44</b>	<b>1.67</b>	<b>12.77</b>	<b>15.02</b>	<b>13.60</b>
026-1	2013	Winter Wheat	133	25.51	3.28	22.23	26.15	28.70
027-1	2013	Winter Wheat	133	16.74	3.28	13.46	15.84	19.70
090-1	2013	Winter Wheat	133	19.78	3.28	16.50	19.41	23.60
096N-1	2013	Winter Wheat	133	14.05	3.28	10.77	0.13	15.90
112-1	2013	Winter Wheat	112	15.08	2.86	12.22	14.38	17.80
<b>Winter Wheat Average</b>			<b>129</b>	<b>18.23</b>	<b>3.20</b>	<b>15.04</b>	<b>15.18</b>	<b>21.14</b>
022-1	2014	Winter Wheat	31	2.25	0.32	1.93	2.27	2.40
EM: 096N-1	2014	Winter Wheat	17	0.55	0.27	0.28	0.00	0.50
101-1	2014	Winter Wheat	31	1.22	0.32	0.90	1.06	1.60
107-1	2014	Winter Wheat	10	0.45	0.26	0.19	0.22	0.60
<b>Winter Wheat Average</b>			<b>22</b>	<b>1.12</b>	<b>0.29</b>	<b>0.83</b>	<b>0.89</b>	<b>1.28</b>

RECEIVED BY OWRD

AUG 15 2016





Customer: **Lamb Weston**  
 Farm: **Madison Ranches**

**Irrigation Summary Report**

Date: **1/1/2013 - 12/31/2013**

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
001-1	2013	Alfalfa	283	27.36	5.46	21.90	25.76	28.50
005-1	2013	Alfalfa	361	22.74	6.50	16.24	19.11	27.40
008-1	2013	Alfalfa	297	28.34	5.50	22.84	26.87	31.20
015-1	2013	Alfalfa	361	23.12	6.50	16.62	19.55	26.10
017-1	2013	Alfalfa	290	33.40	5.46	27.94	32.87	35.80
018-1	2013	Alfalfa	361	32.30	6.50	25.80	30.35	35.60
023-1	2013	Alfalfa	361	31.77	6.50	25.27	29.73	36.90
033-1	2013	Alfalfa	87	1.82	1.26	0.56	0.66	2.70
037-1	2013	Alfalfa	361	34.23	6.50	27.73	32.62	36.90
039-1	2013	Alfalfa	361	19.46	6.50	12.96	15.25	24.90
046-1	2013	Alfalfa	361	32.97	6.50	26.47	31.14	36.00
047-1	2013	Alfalfa	361	15.60	6.50	9.10	10.71	20.10
089-1	2013	Alfalfa	361	19.94	6.50	13.44	15.81	24.70
<b>Alfalfa Average</b>			<b>324</b>	<b>24.85</b>	<b>5.86</b>	<b>18.99</b>	<b>22.34</b>	<b>28.22</b>
006-1	2014	Alfalfa	102	2.60	1.78	0.82	0.96	4.40
012-1	2014	Alfalfa	113	4.50	2.02	2.48	2.92	6.50
025-1	2014	Alfalfa	113	3.81	2.02	1.79	2.11	5.70
040-1	2014	Alfalfa	88	2.50	1.09	1.41	1.66	2.90
<b>Alfalfa Average</b>			<b>104</b>	<b>3.35</b>	<b>1.73</b>	<b>1.63</b>	<b>1.91</b>	<b>4.88</b>
009-1	2013	Canola	171	7.97	3.58	4.39	5.16	10.30
013-1	2013	Canola	171	9.27	3.58	5.69	6.69	12.90
021-1	2013	Canola	171	9.75	3.58	6.17	7.26	13.30
035-1	2013	Canola	171	9.90	3.58	6.32	7.44	13.30
041-1	2013	Canola	171	7.16	3.58	3.58	4.21	10.50
<b>Canola Average</b>			<b>171</b>	<b>8.81</b>	<b>3.58</b>	<b>5.23</b>	<b>6.15</b>	<b>12.06</b>
004-1	2014	Canola	92	3.82	1.16	2.66	3.13	4.40
007-1	2014	Canola	92	4.43	1.16	3.27	3.85	4.00
016-1	2014	Canola	92	3.65	1.16	2.49	2.93	3.40
036-1	2014	Canola	92	3.62	1.16	2.46	2.89	3.00
048-1	2014	Canola	92	2.85	1.16	1.69	1.99	2.80
<b>Canola Average</b>			<b>92</b>	<b>3.67</b>	<b>1.16</b>	<b>2.51</b>	<b>2.96</b>	<b>3.52</b>
002-1	2013	Corn	129	19.75	2.36	17.39	20.46	21.10
003-1	2013	Corn	136	28.70	2.88	25.82	30.38	30.50
010-1	2013	Corn	129	25.50	2.28	23.22	27.32	26.40
011-1	2013	Corn	129	23.25	2.28	20.97	24.67	23.40
054-1	2013	Corn	133	31.00	2.65	28.35	33.35	30.80
056-1	2013	Corn	126	23.85	2.62	21.23	24.98	24.50
<b>Corn Average</b>			<b>130</b>	<b>25.34</b>	<b>2.51</b>	<b>22.83</b>	<b>26.86</b>	<b>26.12</b>

RECEIVED BY OWRO

AUG 15 2016

9/11/17 OR

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
009-2	2013	Corn (Seed)	124	29.85	2.04	27.81	32.72	30.80
021-2	2013	Corn (Seed)	138	29.65	2.16	27.49	32.34	31.90
033-1	2013	Corn (Seed)	126	22.50	2.06	20.44	24.05	22.10
<b>Corn (Seed) Average</b>			<b>129</b>	<b>27.33</b>	<b>2.09</b>	<b>25.25</b>	<b>29.70</b>	<b>28.27</b>
052-1	2013	Corn (Sweet)	63	19.40	0.98	18.42	21.67	17.80
055-1	2013	Corn (Sweet)	84	29.55	0.87	28.68	33.74	28.60
<b>Corn (Sweet) Average</b>			<b>74</b>	<b>24.48</b>	<b>0.93</b>	<b>23.55</b>	<b>27.71</b>	<b>23.20</b>
001-1	2014	Cover-grain	35	0.19	0.47	0.00	0.00	0.80
002-1	2014	Cover-grain	47	0.23	0.47	0.00	0.00	1.40
003-1	2014	Cover-grain	47	0.20	0.47	0.00	0.00	1.20
011-1	2014	Cover-grain	35	0.20	0.47	0.00	0.00	0.50
017-1	2014	Cover-grain	35	0.35	0.47	0.00	0.00	0.80
049-1	2014	Cover-grain	102	2.72	1.78	0.94	1.11	3.50
051-1	2014	Cover-grain	71	2.67	0.76	1.91	2.25	3.50
<b>Cover-grain Average</b>			<b>53</b>	<b>0.94</b>	<b>0.70</b>	<b>0.41</b>	<b>0.48</b>	<b>1.67</b>
051-1	2013	Lima Beans	84	25.55	1.42	24.13	28.39	25.70
<b>Lima Beans Average</b>			<b>84</b>	<b>25.55</b>	<b>1.42</b>	<b>24.13</b>	<b>28.39</b>	<b>25.70</b>
019-1	2013	No Crop	59	1.25	0.76	0.49	0.58	2.20
034-1	2012	No Crop	53	0.51	0.66	0.00	0.00	1.80
042-1	2013	No Crop	80	0.98	1.18	0.00	0.00	2.50
044-1	2013	No Crop	66	0.90	1.03	0.00	0.00	1.90
045-1	2013	No Crop	38	0.22	0.26	0.00	0.00	1.10
050-1	2013	No Crop	42	0.47	0.63	0.00	0.00	1.40
<b>No Crop Average</b>			<b>56</b>	<b>0.72</b>	<b>0.75</b>	<b>0.08</b>	<b>0.10</b>	<b>1.82</b>
014-1	2014	No Crop	99	5.43	1.68	3.75	4.41	4.50
032-1	2014	No Crop	102	3.80	1.78	2.02	2.38	3.40
<b>No Crop Average</b>			<b>101</b>	<b>4.62</b>	<b>1.73</b>	<b>2.89</b>	<b>3.40</b>	<b>3.95</b>
044-1	2013	Norkotah	101	26.80	1.09	25.71	30.25	28.10
<b>Norkotah Average</b>			<b>101</b>	<b>26.80</b>	<b>1.09</b>	<b>25.71</b>	<b>30.25</b>	<b>28.10</b>
051-1	2013	Peas	66	11.35	1.14	10.21	12.01	11.20
052-1	2013	Peas	56	15.65	1.17	14.48	17.04	15.60
<b>Peas Average</b>			<b>61</b>	<b>13.50</b>	<b>1.16</b>	<b>12.35</b>	<b>14.53</b>	<b>13.40</b>
034-1	2013	Potatoes	110	24.15	1.33	22.82	26.85	25.50
042-1	2013	Potatoes	119	25.90	1.84	24.06	28.31	24.10
<b>Potatoes Average</b>			<b>115</b>	<b>25.03</b>	<b>1.59</b>	<b>23.44</b>	<b>27.58</b>	<b>24.80</b>
032-1	2013	Radish Seed	101	17.25	2.37	14.88	17.51	18.90
<b>Radish Seed Average</b>			<b>101</b>	<b>17.25</b>	<b>2.37</b>	<b>14.88</b>	<b>17.51</b>	<b>18.90</b>
019-1	2013	Ranger	115	31.90	1.43	30.47	35.85	33.00
045-1	2013	Ranger	157	32.45	2.99	29.46	34.66	33.00
050-1	2013	Ranger	80	27.20	1.62	25.58	30.09	23.10
<b>Ranger Average</b>			<b>117</b>	<b>30.52</b>	<b>2.01</b>	<b>28.50</b>	<b>33.53</b>	<b>29.70</b>

RECEIVED BY OWRD

AUG 15 2016

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
051-1	2013	Ryegrass	39	0.70	0.60	0.10	0.12	2.00
052-1	2013	Ryegrass	66	1.50	1.14	0.36	0.42	3.40
053-1	2013	Ryegrass	206	30.15	3.41	26.74	31.46	31.60
<b>Ryegrass Average</b>			<b>104</b>	<b>10.78</b>	<b>1.72</b>	<b>9.07</b>	<b>10.67</b>	<b>12.33</b>
053-1	2014	Ryegrass	116	4.15	1.83	2.32	2.73	6.70
055-1	2014	Ryegrass	47	0.67	0.41	0.26	0.31	1.50
<b>Ryegrass Average</b>			<b>82</b>	<b>2.41</b>	<b>1.12</b>	<b>1.29</b>	<b>1.52</b>	<b>4.10</b>
007-1	2013	Spring Wheat	115	14.85	2.86	11.99	14.11	17.10
<b>Spring Wheat Average</b>			<b>115</b>	<b>14.85</b>	<b>2.86</b>	<b>11.99</b>	<b>14.11</b>	<b>17.10</b>
007-1	2013	Stubble	39	0.45	0.63	0.00	0.00	1.30
032-1	2013	Stubble	59	0.53	0.76	0.00	0.00	1.10
054-1	2013	Stubble	101	5.60	1.60	4.00	4.71	6.90
055-1	2013	Stubble	136	6.45	1.85	4.60	5.41	7.60
056-1	2013	Stubble	94	2.80	1.53	1.27	1.49	4.70
<b>Stubble Average</b>			<b>86</b>	<b>3.17</b>	<b>1.27</b>	<b>1.97</b>	<b>2.32</b>	<b>4.32</b>
035-1	2014	Stubble	47	0.25	0.47	0.00	0.00	0.60
052-1	2014	Stubble	47	0.66	0.41	0.25	0.29	1.50
054-1	2014	Stubble	71	2.97	0.76	2.21	2.60	3.90
056-1	2014	Stubble	47	0.15	0.41	0.00	0.00	1.90
<b>Stubble Average</b>			<b>53</b>	<b>1.01</b>	<b>0.51</b>	<b>0.62</b>	<b>0.72</b>	<b>1.98</b>
002-1	2013	Volunteer	87	2.43	1.26	1.17	1.38	3.80
003-1	2013	Volunteer	87	1.38	1.26	0.12	0.14	3.00
010-1	2012	Volunteer	87	4.85	1.26	3.59	4.22	5.90
011-1	2012	Volunteer	87	2.20	1.26	0.94	1.11	3.60
<b>Volunteer Average</b>			<b>87</b>	<b>2.72</b>	<b>1.26</b>	<b>1.46</b>	<b>1.71</b>	<b>4.08</b>
020-1	2014	Volunteer	71	0.05	1.04	0.00	0.00	1.30
038-1	2014	Volunteer	74	1.40	1.04	0.36	0.42	2.20
043-1	2014	Volunteer	47	0.25	0.47	0.00	0.00	1.10
<b>Volunteer Average</b>			<b>64</b>	<b>0.57</b>	<b>0.85</b>	<b>0.12</b>	<b>0.14</b>	<b>1.53</b>
004-1	2013	Winter Wheat	192	20.15	4.04	16.11	18.95	22.70
006-1	2013	Winter Wheat	192	18.53	4.04	14.49	17.05	22.00
012-1	2013	Winter Wheat	192	22.95	4.04	18.91	22.25	26.90
014-1	2013	Winter Wheat	192	20.27	4.04	16.23	19.09	23.10
016-1	2013	Winter Wheat	192	18.26	4.04	14.22	16.73	21.70
020-1	2013	Winter Wheat	192	11.98	4.04	7.94	9.34	15.20
025-1	2013	Winter Wheat	192	21.98	4.04	17.94	21.11	25.60
036-1	2013	Winter Wheat	192	15.02	4.04	10.98	12.92	19.00
038-1	2013	Winter Wheat	185	10.96	4.03	6.93	8.15	15.60
040-1	2013	Winter Wheat	192	10.04	4.04	6.00	7.06	13.70
043-1	2013	Winter Wheat	192	18.71	4.04	14.67	17.26	23.60
048-1	2013	Winter Wheat	185	14.97	4.03	10.94	12.87	18.30
049-1	2013	Winter Wheat	192	23.69	4.04	19.65	23.12	26.80
<b>Winter Wheat Average</b>			<b>191</b>	<b>17.50</b>	<b>4.04</b>	<b>13.46</b>	<b>15.84</b>	<b>21.09</b>

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
008-1	2014	Winter Wheat	39	0.20	0.47	0.00	0.00	1.00
009-1	2014	Winter Wheat	67	0.52	1.03	0.00	0.00	2.00
010-1	2014	Winter Wheat	35	0.15	0.47	0.00	0.00	0.70
013-1	2014	Winter Wheat	88	2.25	1.09	1.16	1.36	3.60
019-1	2014	Winter Wheat	67	0.56	1.03	0.00	0.00	1.50
021-1	2014	Winter Wheat	39	0.25	0.47	0.00	0.00	0.30
033-1	2014	Winter Wheat	39	0.30	0.47	0.00	0.00	0.90
034-1	2014	Winter Wheat	74	1.20	1.04	0.16	0.19	2.30
041-1	2014	Winter Wheat	67	1.15	1.03	0.12	0.14	1.70
042-1	2014	Winter Wheat	67	1.01	1.03	0.00	0.00	2.50
044-1	2014	Winter Wheat	74	1.90	1.04	0.86	1.01	2.40
045-1	2014	Winter Wheat	39	0.25	0.47	0.00	0.00	1.00
050-1	2014	Winter Wheat	67	1.18	1.03	0.15	0.18	2.00
<b>Winter Wheat Average</b>			<b>59</b>	<b>0.84</b>	<b>0.82</b>	<b>0.19</b>	<b>0.22</b>	<b>1.68</b>

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR



# Irrigation Reports

Irrigation summary reports provide net irrigation, gross irrigation, and measured ET rates for individual crops along with the crops averages for comparison.

Irrigation reports also provide net irrigation, gross irrigation, and measured ET rates for individual crops on a weekly basis.



**Serving Agri-Business Since 1984**

RECEIVED BY OWRD

AUG 15 2015

SALEM, OR



Customer: **Madison Ranches**

Date: **1/1/2014 - 12/31/2014**

**Irrigation Summary Report**

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
068-1	2014	Alfalfa	168	14.80	3.07	11.73	13.80	19.30
078-1	2014	Alfalfa	168	12.85	3.07	9.78	11.51	18.10
087-1	2014	Alfalfa	189	19.87	3.43	16.44	19.34	23.50
090-1	2014	Alfalfa	119	18.90	1.45	17.45	20.53	22.70
093-1	2014	Alfalfa	171	13.73	3.07	10.66	12.54	18.50
106-1	2014	Alfalfa	52	5.00	0.69	4.31	5.07	5.00
<b>Alfalfa Average</b>			<b>144</b>	<b>14.19</b>	<b>2.46</b>	<b>11.73</b>	<b>13.80</b>	<b>17.85</b>
099-1	2014	Bean Green	45	12.35	0.62	11.73	13.80	13.10
<b>Bean Green Average</b>			<b>45</b>	<b>12.35</b>	<b>0.62</b>	<b>11.73</b>	<b>13.80</b>	<b>13.10</b>
026-1	2014	Corn	105	19.05	1.34	17.71	20.84	20.50
100-1	2014	Corn	77	18.95	1.26	17.69	20.81	19.30
103-2	2014	Corn	80	14.13	1.32	12.81	15.07	16.00
<b>Corn Average</b>			<b>87</b>	<b>17.38</b>	<b>1.31</b>	<b>16.07</b>	<b>18.91</b>	<b>18.60</b>
103-1	2014	Forage Mix	34	1.85	0.78	1.07	1.26	2.50
<b>Forage Mix Average</b>			<b>34</b>	<b>1.85</b>	<b>0.78</b>	<b>1.07</b>	<b>1.26</b>	<b>2.50</b>
028-1	2014	Peas	63	10.08	1.15	8.93	10.51	10.80
098-1	2014	Peas	49	14.50	0.88	13.62	16.02	14.30
099-1	2014	Peas	49	13.25	0.88	12.37	14.55	13.90
<b>Peas Average</b>			<b>53</b>	<b>12.61</b>	<b>0.97</b>	<b>11.64</b>	<b>13.69</b>	<b>13.00</b>
113-1	2014	Potatoes	87	25.20	1.40	23.80	28.00	26.70
<b>Potatoes Average</b>			<b>87</b>	<b>25.20</b>	<b>1.40</b>	<b>23.80</b>	<b>28.00</b>	<b>26.70</b>
111-1	2014	Sunflower	80	19.90	1.32	18.58	21.86	23.50
<b>Sunflower Average</b>			<b>80</b>	<b>19.90</b>	<b>1.32</b>	<b>18.58</b>	<b>21.86</b>	<b>23.50</b>
022-1	2014	Winter Wheat	133	9.75	2.81	6.94	8.16	12.20
024-1	2014	Winter Wheat	119	7.74	2.45	5.29	6.22	10.60
027-1	2014	Winter Wheat	133	13.43	2.81	10.62	12.49	15.00
067-1	2014	Winter Wheat	112	19.20	2.45	16.75	19.71	21.60
074-1	2014	Winter Wheat	133	17.66	2.81	14.85	17.47	21.10
082-1	2014	Winter Wheat	119	18.90	2.45	16.45	19.35	22.10
083-1	2014	Winter Wheat	119	17.80	2.45	15.35	18.06	20.70
084-1	2014	Winter Wheat	122	20.67	2.48	18.19	21.40	23.00
085-1	2014	Winter Wheat	119	15.95	2.45	13.50	15.88	19.70
091-1	2014	Winter Wheat	133	18.59	2.81	15.78	18.56	20.20
092-1	2014	Winter Wheat	119	18.61	2.45	16.16	19.01	21.00

RECEIVED BY OWRD

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
094-1	2014	Winter Wheat	133	13.55	2.81	10.74	12.64	16.10
096N-1	2014	Winter Wheat	126	7.32	2.76	4.56	0.05	11.20
097-1	2014	Winter Wheat	119	3.48	2.45	1.03	0.01	6.00
101-1	2014	Winter Wheat	133	13.30	2.81	10.49	12.34	15.90
106-1	2014	Winter Wheat	119	7.90	2.45	5.45	6.41	11.10
107-1	2014	Winter Wheat	133	13.65	2.81	10.84	12.75	17.60
<b>Winter Wheat Average</b>			<b>124</b>	<b>13.97</b>	<b>2.62</b>	<b>11.35</b>	<b>12.97</b>	<b>16.77</b>

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR



Customer: Lamb Weston

Irrigation Summary Report

Date: 1/1/2014 - 12/31/2014

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
004-1	2014	Alfalfa	214	19.64	4.37	15.27	17.96	21.70
005-1	2014	Alfalfa	248	15.81	5.57	10.24	12.05	20.30
006-1	2014	Alfalfa	361	36.41	8.52	27.89	32.81	39.30
012-1	2014	Alfalfa	361	55.33	8.52	46.81	55.07	56.30
015-1	2014	Alfalfa	283	23.79	5.63	18.16	21.36	29.50
018-1	2014	Alfalfa	361	33.04	8.52	24.52	28.85	36.30
023-1	2014	Alfalfa	361	43.15	8.52	34.63	40.74	44.80
025-1	2014	Alfalfa	361	49.97	8.52	41.45	48.76	52.70
037-1	2014	Alfalfa	361	30.63	8.52	22.11	26.01	33.80
039-1	2014	Alfalfa	361	19.05	8.52	10.53	12.39	20.40
040-1	2014	Alfalfa	361	21.49	8.52	12.97	15.26	24.50
046-1	2014	Alfalfa	276	35.27	5.62	29.65	34.88	37.80
047-1	2014	Alfalfa	311	26.86	7.26	19.60	23.06	28.40
052-1	2014	Alfalfa	253	37.11	4.66	32.45	38.18	39.60
089-1	2014	Alfalfa	311	19.90	6.84	13.06	15.36	25.50
<b>Alfalfa Average</b>			<b>319</b>	<b>31.16</b>	<b>7.21</b>	<b>23.96</b>	<b>28.18</b>	<b>34.06</b>
054-1	2014	Beans	95	21.80	0.95	20.85	24.53	22.10
055-1	2014	Beans	95	22.13	0.95	21.18	24.92	22.50
056-1	2014	Beans	88	18.10	0.95	17.15	20.18	18.40
<b>Beans Average</b>			<b>93</b>	<b>20.68</b>	<b>0.95</b>	<b>19.73</b>	<b>23.21</b>	<b>21.00</b>
004-1	2014	Canola	66	3.56	2.42	1.14	1.34	5.30
007-1	2014	Canola	155	12.05	4.17	8.46	9.95	14.80
016-1	2014	Canola	66	3.22	2.42	0.80	0.94	3.50
036-1	2014	Canola	101	5.97	3.06	2.91	3.42	6.20
048-1	2014	Canola	94	3.84	3.05	0.79	0.93	3.90
<b>Canola Average</b>			<b>96</b>	<b>5.73</b>	<b>3.02</b>	<b>2.82</b>	<b>3.32</b>	<b>6.74</b>
050-2	2014	Carrots	109	7.86	2.95	4.91	5.78	5.70
<b>Carrots Average</b>			<b>109</b>	<b>7.86</b>	<b>2.95</b>	<b>4.91</b>	<b>5.78</b>	<b>5.70</b>
003-1	2014	Corn	140	27.95	2.51	25.44	29.93	27.50
021-2	2014	Corn	119	23.05	1.78	21.27	25.02	27.40
035-1	2014	Corn	154	21.70	1.96	19.74	23.22	23.20
043-1	2014	Corn	80	20.05	1.32	18.73	22.04	18.70
047-2	2014	Corn	101	12.10	1.30	10.80	12.71	15.10
<b>Corn Average</b>			<b>119</b>	<b>20.97</b>	<b>1.77</b>	<b>19.20</b>	<b>22.58</b>	<b>22.38</b>
001-1	2014	Cover-grain	87	2.92	2.92	0.00	0.00	4.60
002-1	2014	Cover-grain	59	1.72	2.14	0.00	0.00	2.90
003-1	2014	Cover-grain	94	3.35	3.05	0.30	0.35	4.70
003-1	2014	Cover-grain	28	1.51	1.57	0.00	0.00	1.40
005-1	2014	Cover-grain	81	3.18	2.89	0.29	0.34	3.80
010-1	2014	Cover-grain	73	1.98	2.50	0.00	0.00	3.80
011-1	2014	Cover-grain	59	1.54	2.14	0.00	0.00	2.20
015-1	2014	Cover-grain	49	1.94	2.08	0.00	0.00	2.20

RECEIVED BY SOWARD

AUG 15 2016

Attachment A  
SALEM, OR



AUG 15 2016



Customer: Lamb Weston

SALEM, OR

Irrigation Summary Report

Date: 1/1/2014 - 12/31/2014

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
017-1	2014	Cover-grain	73	1.98	2.50	0.00	0.00	2.90
017-1	2014	Cover-grain	67	2.63	2.26	0.37	0.44	3.50
035-1	2014	Cover-grain	13	0.96	0.99	0.00	0.00	0.90
043-1	2014	Cover-grain	42	1.53	1.90	0.00	0.00	1.40
046-1	2014	Cover-grain	14	1.23	1.00	0.23	0.27	1.00
049-1	2014	Cover-grain	66	0.40	2.42	0.00	0.00	1.10
051-1	2014	Cover-grain	94	2.06	2.95	0.00	0.00	2.70
056-1	2014	Cover-grain	67	4.02	2.09	1.93	2.27	4.80
<b>Cover-grain Average</b>			<b>60</b>	<b>2.06</b>	<b>2.21</b>	<b>0.20</b>	<b>0.23</b>	<b>2.74</b>
053-1	2014	Fescue	88	4.74	2.70	2.04	2.40	8.00
<b>Fescue Average</b>			<b>88</b>	<b>4.74</b>	<b>2.70</b>	<b>2.04</b>	<b>2.40</b>	<b>8.00</b>
036-1	2014	Forage Mix	168	7.10	2.33	4.77	5.61	8.80
048-1	2014	Forage Mix	260	12.94	5.46	7.48	8.80	15.00
<b>Forage Mix Average</b>			<b>214</b>	<b>10.02</b>	<b>3.90</b>	<b>6.13</b>	<b>7.21</b>	<b>11.90</b>
009-1	2014	New Alfalfa	99	6.36	2.94	3.42	4.02	4.00
034-1	2014	New Alfalfa	99	7.78	2.94	4.84	5.69	5.30
045-1	2014	New Alfalfa	85	5.26	2.90	2.36	2.78	3.90
<b>New Alfalfa Average</b>			<b>94</b>	<b>6.47</b>	<b>2.93</b>	<b>3.54</b>	<b>4.16</b>	<b>4.40</b>
001-1	2014	No Crop	8	0.05	0.18	0.00	0.00	0.10
007-1	2014	No Crop	66	4.20	0.66	3.54	4.16	4.60
014-1	2014	No Crop	73	2.26	2.50	0.00	0.00	3.20
017-1	2014	No Crop	84	3.70	0.70	3.00	3.53	3.60
032-1	2014	No Crop	80	2.35	2.50	0.00	0.00	3.80
034-1	2014	No Crop	28	0.00	0.58	0.00	0.00	0.00
038-1	2014	No Crop	141	5.99	3.55	2.44	2.87	6.50
045-1	2014	No Crop	14	1.50	0.00	1.50	1.76	1.10
049-1	2014	No Crop	17	1.90	0.58	1.32	1.55	1.40
050-1	2014	No Crop	98	4.55	2.94	1.61	1.89	3.80
053-1	2014	No Crop	7	1.30	0.00	1.30	1.53	0.00
<b>No Crop Average</b>			<b>56</b>	<b>2.53</b>	<b>1.29</b>	<b>1.34</b>	<b>1.57</b>	<b>2.55</b>
014-1	2014	Norkotah	109	27.15	1.43	25.72	30.26	26.60
<b>Norkotah Average</b>			<b>109</b>	<b>27.15</b>	<b>1.43</b>	<b>25.72</b>	<b>30.26</b>	<b>26.60</b>
010-1	2014	Onion	133	23.47	2.49	20.98	24.68	25.20
016-1	2014	Onion	133	23.65	2.49	21.16	24.89	22.80
020-1	2014	Onion	126	21.65	1.96	19.69	23.16	22.50
<b>Onion Average</b>			<b>131</b>	<b>22.92</b>	<b>2.31</b>	<b>20.61</b>	<b>24.24</b>	<b>23.50</b>
017-1	2014	Peas	70	10.75	1.67	9.08	10.68	11.40
038-1	2014	Peas	91	12.85	1.25	11.60	13.65	14.40
049-1	2014	Peas	63	18.15	1.02	17.13	20.15	19.30
054-1	2014	Peas	56	9.67	0.99	8.68	10.21	10.30
055-1	2014	Peas	73	13.28	1.05	12.23	14.39	14.10
056-1	2014	Peas	66	12.06	1.05	11.01	12.95	12.70

AUG 15 2016



Customer: Lamb Weston

SALEM, OR

## Irrigation Summary Report

Date: 1/1/2014 - 12/31/2014

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
Peas Average			70	12.79	1.17	11.62	13.67	13.70
001-1	2014	Potatoes	128	25.84	1.45	24.39	28.69	26.70
002-1	2014	Potatoes	98	30.20	1.25	28.95	34.06	30.10
011-1	2014	Potatoes	142	32.20	1.86	30.34	35.69	32.50
032-1	2014	Potatoes	126	26.35	1.46	24.89	29.28	27.30
Potatoes Average			124	28.65	1.51	27.14	31.93	29.15
053-1	2014	Radish Seed	84	21.55	0.83	20.72	24.38	21.80
Radish Seed Average			84	21.55	0.83	20.72	24.38	21.80
051-1	2014	Ryegrass	179	31.76	4.11	27.65	32.52	31.70
053-1	2014	Ryegrass	80	2.78	2.52	0.26	0.31	4.60
054-1	2014	Ryegrass	67	3.04	2.09	0.95	1.12	4.10
055-1	2014	Ryegrass	73	2.97	2.51	0.46	0.54	3.90
Ryegrass Average			100	10.14	2.81	7.33	8.62	11.08
008-1	2014	Stubble	21	3.20	0.60	2.60	3.06	2.00
021-1	2014	Stubble	141	6.34	3.55	2.79	3.28	8.50
033-1	2014	Stubble	155	6.41	3.55	2.86	3.36	6.00
035-1	2014	Stubble	87	4.27	2.92	1.35	1.59	4.60
041-1	2014	Stubble	155	6.81	3.55	3.26	3.84	6.40
042-1	2014	Stubble	155	7.16	3.55	3.61	4.25	6.10
044-1	2014	Stubble	155	10.11	3.55	6.56	7.72	9.30
052-1	2014	Stubble	59	2.15	2.15	0.00	0.00	3.30
054-1	2014	Stubble	56	2.90	2.03	0.87	1.02	3.70
056-1	2014	Stubble	14	0.20	0.29	0.00	0.00	0.50
Stubble Average			100	4.96	2.57	2.39	2.81	5.04
049-1	2014	Triticale	95	5.33	2.93	2.40	2.82	5.80
Triticale Average			95	5.33	2.93	2.40	2.82	5.80
013-1	2014	Volunteer	141	11.52	3.55	7.97	9.38	10.70
019-1	2014	Volunteer	81	4.84	2.89	1.95	2.29	5.00
020-1	2014	Volunteer	46	0.38	1.68	0.00	0.00	0.60
038-1	2014	Volunteer	87	2.79	2.92	0.00	0.00	3.40
043-1	2014	Volunteer	129	4.05	4.12	0.00	0.00	4.90
Volunteer Average			97	4.72	3.03	1.98	2.33	4.92
008-1	2014	Winter Wheat	213	11.33	4.97	6.36	7.48	15.10
009-1	2014	Winter Wheat	199	12.26	4.95	7.31	8.60	15.20
013-1	2014	Winter Wheat	213	17.08	4.97	12.11	14.25	20.60
019-1	2014	Winter Wheat	213	13.06	4.97	8.09	9.52	17.60
021-1	2014	Winter Wheat	213	12.37	4.97	7.40	8.71	14.60
033-1	2014	Winter Wheat	192	13.85	4.94	8.91	10.49	17.40
034-1	2014	Winter Wheat	199	16.23	4.95	11.28	13.27	20.50
041-1	2014	Winter Wheat	199	11.90	4.95	6.95	8.18	15.60
042-1	2014	Winter Wheat	199	17.07	4.95	12.12	14.26	20.60
044-1	2014	Winter Wheat	199	18.60	4.95	13.65	16.06	23.20

AUG 15 2016



Customer: Lamb Weston

SALEM, OR

## Irrigation Summary Report

Date: 1/1/2014 - 12/31/2014

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
045-1	2014	Winter Wheat	199	17.42	4.95	12.47	14.67	20.50
050-1	2014	Winter Wheat	213	22.79	4.97	17.82	20.96	26.00
<b>Winter Wheat Average</b>			<b>204</b>	<b>15.33</b>	<b>4.96</b>	<b>10.37</b>	<b>12.20</b>	<b>18.91</b>
002-1	2014	Winter Wheat	67	2.13	2.26	0.00	0.00	2.40
007-1	2014	Winter Wheat	60	2.38	2.19	0.19	0.22	3.10
010-1	2014	Winter Wheat	67	2.85	2.26	0.59	0.69	3.20
011-1	2014	Winter Wheat	67	2.66	2.26	0.40	0.47	3.80
014-1	2014	Winter Wheat	81	4.42	2.89	1.53	1.80	4.60
016-1	2014	Winter Wheat	81	3.85	2.89	0.96	1.13	3.80
020-1	2014	Winter Wheat	67	2.60	2.26	0.34	0.40	2.80
032-1	2014	Winter Wheat	60	2.42	2.19	0.23	0.27	2.80
036-1	2014	Winter Wheat	60	3.34	2.19	1.15	1.35	2.30
055-1	2014	Winter Wheat	67	5.03	2.09	2.94	3.46	6.00
<b>2015 Winter Wheat Average</b>			<b>68</b>	<b>3.17</b>	<b>2.35</b>	<b>0.83</b>	<b>0.98</b>	<b>3.48</b>



# Irrigation Reports

Irrigation summary reports provide net irrigation, gross irrigation, and measured ET rates for individual crops along with the crops averages for comparison.

Irrigation reports also provide net irrigation, gross irrigation, and measured ET rates for individual crops on a weekly basis.



RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

## Serving Agri-Business Since 1984



Customer: Madlson Ranches

Irrigation Summary Report

Date: 12/1/2014 - 11/30/2015

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
067-1	2015	Alfalfa	175	11.67	2.06	9.61	11.31	15.20
068-1	2015	Alfalfa	175	17.48	2.06	15.42	18.14	20.50
074-1	2015	Alfalfa	175	14.51	2.06	12.45	14.65	17.90
078-1	2015	Alfalfa	175	13.36	2.06	11.30	13.29	16.30
082-1	2015	Alfalfa	175	15.79	2.06	13.73	16.15	19.50
083-1	2015	Alfalfa	133	17.85	1.20	16.65	19.59	22.10
084-1	2015	Alfalfa	133	9.01	1.20	7.81	9.19	12.70
087-1	2015	Alfalfa	175	7.16	2.06	5.10	6.00	10.80
090-1	2015	Alfalfa	175	16.20	2.06	14.14	16.64	18.70
091-1	2015	Alfalfa	140	3.51	1.20	2.31	2.72	8.00
092-1	2015	Alfalfa	140	7.84	1.20	6.64	7.81	13.00
093-1	2015	Alfalfa	175	12.27	2.06	10.21	12.01	14.60
094-1	2015	Alfalfa	140	10.79	1.20	9.59	11.28	14.30
<b>Alfalfa Average</b>			<b>160</b>	<b>12.11</b>	<b>1.73</b>	<b>10.38</b>	<b>12.21</b>	<b>15.66</b>
103-1	2015	Alfalfa Seed	28	4.37	0.11	4.26	5.01	0.00
106-1	2015	Alfalfa Seed	28	4.64	0.11	4.53	5.33	0.00
107-1	2015	Alfalfa Seed	21	5.05	0.00	5.05	5.94	0.00
111-1	2015	Alfalfa Seed	28	5.45	0.11	5.34	6.28	0.00
<b>Alfalfa Seed Average</b>			<b>26</b>	<b>4.88</b>	<b>0.08</b>	<b>4.80</b>	<b>5.64</b>	<b>0.00</b>
022-1	2015	Forage Mix	49	4.90	1.07	3.83	4.51	6.50
024-1	2015	Forage Mix	56	7.76	1.31	6.45	7.59	8.30
027-1	2015	Forage Mix	56	5.36	1.31	4.05	4.76	6.90
<b>Forage Mix Average</b>			<b>54</b>	<b>6.01</b>	<b>1.23</b>	<b>4.78</b>	<b>5.62</b>	<b>7.23</b>
114-1	2015	Peas	49	12.85	1.08	11.77	13.85	12.40
<b>Peas Average</b>			<b>49</b>	<b>12.85</b>	<b>1.08</b>	<b>11.77</b>	<b>13.85</b>	<b>12.40</b>
100-1	2015	Potato (Norkotah)	140	36.30	0.70	35.60	41.88	38.00
<b>Potato (Norkotah) Average</b>			<b>140</b>	<b>36.30</b>	<b>0.70</b>	<b>35.60</b>	<b>41.88</b>	<b>38.00</b>
026-1	2015	Winter Wheat	126	18.02	1.95	16.07	18.91	20.50
028-1	2015	Winter Wheat	126	11.55	2.03	9.52	11.20	14.50
112-1	2015	Winter Wheat	133	20.85	2.06	18.79	22.11	22.20
113-1	2015	Winter Wheat	133	6.55	2.06	4.49	5.28	10.60
<b>Winter Wheat Average</b>			<b>130</b>	<b>14.24</b>	<b>2.03</b>	<b>12.22</b>	<b>14.38</b>	<b>16.95</b>

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR

AUG 15 2016



Customer: Lamb Weston

SALEM, OR

Irrigation Summary Report

Date: 12/1/2014 - 11/30/2015

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
004-1	2014	Alfalfa	360	23.13	6.95	16.18	19.04	26.50
006-1	2015	Alfalfa	353	40.89	6.95	33.94	39.93	43.80
012-1	2015	Alfalfa	360	51.03	6.95	44.08	51.86	53.80
018-1	2015	Alfalfa	360	37.20	6.95	30.25	35.59	41.20
023-1	2015	Alfalfa	360	36.81	6.95	29.86	35.13	41.80
025-1	2015	Alfalfa	360	50.69	6.95	43.74	51.46	54.70
037-1	2015	Alfalfa	360	20.30	6.95	13.35	15.71	25.30
039-1	2015	Alfalfa	139	7.31	3.81	3.50	4.12	8.00
040-1	2015	Alfalfa	360	18.49	6.95	11.54	13.58	22.20
041-1	2015	Alfalfa	256	13.06	3.85	9.21	10.84	16.60
044-1	2015	Alfalfa	249	23.13	3.60	19.53	22.98	26.30
047-1	2015	Alfalfa	73	2.24	2.35	0.00	0.00	2.60
052-1	2015	Alfalfa	360	36.37	7.46	28.91	34.01	41.00
056-1	2015	Alfalfa	242	39.43	3.95	35.48	41.74	40.80
089-1	2015	Alfalfa	360	24.61	6.95	17.66	20.78	27.30
Alfalfa Average			303	28.31	5.84	22.48	26.45	31.46
016-1	2015	Alfalfa	60	2.80	1.74	1.06	1.25	3.40
026-1	2015	Alfalfa	67	3.61	1.74	1.87	2.20	3.50
Alfalfa Average			64	3.21	1.74	1.47	1.73	3.45
007-1	2015	Alfalfa Seed	123	14.32	1.96	12.36	14.54	13.70
008-1	2015	Alfalfa Seed	123	9.25	1.96	7.29	8.58	8.30
020-1	2015	Alfalfa Seed	123	9.48	1.96	7.52	8.85	8.70
028-1	2015	Alfalfa Seed	119	7.77	2.15	5.62	6.61	6.70
032-1	2015	Alfalfa Seed	60	5.23	1.74	3.49	4.11	4.00
043-1	2015	Alfalfa Seed	123	10.91	1.96	8.95	10.53	10.50
107-1	2015	Alfalfa Seed	70	2.30	1.74	0.56	0.66	2.90
112-1	2015	Alfalfa Seed	119	10.90	1.96	8.94	10.52	10.40
Alfalfa Seed Average			108	8.77	1.93	6.84	8.05	8.15
007-1	2015	Barley	244	24.94	4.99	19.95	23.47	27.80
032-1	2015	Barley	237	21.80	4.99	16.81	19.78	26.40
Barley Average			241	23.37	4.99	18.38	21.63	27.10
050-2	2015	Carrots	293	22.65	5.21	17.44	20.52	21.80
Carrots Average			293	22.65	5.21	17.44	20.52	21.80
021-2	2015	Corn	140	26.58	0.70	25.88	30.45	29.00
Corn Average			140	26.58	0.70	25.88	30.45	29.00
033-1	2015	Corn (Seed)	140	26.57	1.37	25.20	29.65	28.00
042-1	2015	Corn (Seed)	182	17.89	1.86	16.03	18.86	20.10
Corn (Seed) Average			161	22.23	1.62	20.62	24.26	24.05
053-1	2015	Corn (Sweet)	120	24.50	1.34	23.16	27.25	24.60
Corn (Sweet) Average			120	24.50	1.34	23.16	27.25	24.60
003-1	2015	Cover-grain	132	4.46	3.79	0.67	0.79	7.00
005-1	2015	Cover-grain	125	3.94	3.79	0.15	0.18	5.90
015-1	2015	Cover-grain	97	2.73	2.94	0.00	0.00	4.30
017-1	2015	Cover-grain	118	3.36	3.59	0.00	0.00	5.80
035-1	2015	Cover-grain	103	3.05	3.01	0.04	0.05	4.30
046-1	2015	Cover-grain	104	3.23	3.02	0.21	0.25	5.30
055-1	2016	Cover-grain	60	4.03	1.95	2.08	2.45	3.20



Customer: Lamb Weston

Irrigation Summary Report

Date: 12/1/2014 - 11/30/2015

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
056-1	2015	Cover-grain	104	3.81	3.37	0.44	0.52	6.20
<b>Cover-grain Average</b>			<b>105</b>	<b>3.58</b>	<b>3.18</b>	<b>0.45</b>	<b>0.53</b>	<b>5.25</b>
053-1	2015	Fescue	209	21.81	5.27	16.54	19.46	22.60
<b>Fescue Average</b>			<b>209</b>	<b>21.81</b>	<b>5.27</b>	<b>16.54</b>	<b>19.46</b>	<b>22.60</b>
054-1	2015	Fescue	60	5.89	1.95	3.94	4.64	6.00
051-1	2015	Fescue	88	7.88	2.13	5.75	6.76	8.10
<b>2016 Fescue Average</b>			<b>74</b>	<b>6.89</b>	<b>2.04</b>	<b>4.85</b>	<b>5.70</b>	<b>7.05</b>
021-1	2015	Forage Mix	256	9.18	3.85	5.33	6.27	11.60
047-1	2015	Forage Mix	196	2.70	1.56	1.14	1.34	4.20
<b>Forage Mix Average</b>			<b>226</b>	<b>5.94</b>	<b>2.71</b>	<b>3.24</b>	<b>3.81</b>	<b>7.90</b>
009-1	2015	New Alfalfa	360	35.25	6.95	28.30	33.29	38.40
034-1	2015	New Alfalfa	360	14.10	6.95	7.15	8.41	18.40
045-1	2015	New Alfalfa	360	33.23	6.95	26.28	30.92	36.70
<b>New Alfalfa Average</b>			<b>360</b>	<b>27.53</b>	<b>6.95</b>	<b>20.58</b>	<b>24.21</b>	<b>31.17</b>
001-1	2015	No Crop	49	2.35	1.55	0.80	0.94	2.20
002-1	2015	No Crop	49	3.20	1.55	1.65	1.94	4.30
015-1	2015	No Crop	84	5.58	1.87	3.71	4.36	5.30
017-1	2015	No Crop	31	3.11	0.24	2.87	3.38	2.00
019-1	2015	No Crop	78	5.42	1.76	3.66	4.31	5.70
033-1	2015	No Crop	60	2.50	1.74	0.76	0.89	2.60
038-1	2015	No Crop	139	7.24	3.81	3.43	4.04	8.90
041-1	2015	No Crop	20	0.55	0.12	0.43	0.51	0.70
042-1	2015	No Crop	56	2.85	1.73	1.12	1.32	2.20
044-1	2015	No Crop	31	0.27	0.29	0.00	0.00	0.60
046-1	2015	No Crop	3	0.20	0.14	0.06	0.07	0.00
047-1	2015	No Crop	60	5.03	1.74	3.29	3.87	2.60
049-1	2015	No Crop	60	4.50	1.74	2.76	3.25	2.10
050-1	2015	No Crop	139	4.14	3.81	0.33	0.39	5.60
054-1	2015	No Crop	56	7.25	0.20	7.05	8.29	6.60
<b>No Crop Average</b>			<b>61</b>	<b>3.61</b>	<b>1.49</b>	<b>2.13</b>	<b>2.50</b>	<b>3.43</b>
015-1	2015	Onion	165	26.28	1.89	24.39	28.69	27.60
017-1	2015	Onion	162	25.96	1.42	24.54	28.87	27.10
019-1	2015	Onion	133	29.30	1.18	28.14	33.11	30.60
047-2	2015	Onion	119	23.39	1.18	22.21	26.13	24.30
<b>Onion Average</b>			<b>145</b>	<b>26.23</b>	<b>1.42</b>	<b>24.82</b>	<b>29.20</b>	<b>27.40</b>
003-1	2015	Potato (Norkotah)	150	41.15	0.67	40.48	47.63	40.30
005-1	2015	Potato (Norkotah)	168	37.12	1.42	35.70	42.00	38.60
013-1	2015	Potato (Norkotah)	173	37.23	1.42	35.81	42.13	38.60
035-1	2015	Potato (Norkotah)	168	26.21	1.42	24.79	29.16	27.60
046-1	2015	Potato (Norkotah)	168	33.22	1.42	31.80	37.41	34.50
<b>Potato (Norkotah) Average</b>			<b>165</b>	<b>34.99</b>	<b>1.27</b>	<b>33.72</b>	<b>39.67</b>	<b>36.92</b>
051-1	2015	Ryegrass	258	41.95	5.31	36.64	43.11	43.80
054-1	2015	Ryegrass	237	31.25	5.31	25.94	30.52	34.70
<b>Ryegrass Average</b>			<b>248</b>	<b>36.60</b>	<b>5.31</b>	<b>31.29</b>	<b>36.82</b>	<b>39.25</b>
050-1	2015	Spring Wheat	147	3.07	1.38	1.69	1.99	5.70
<b>Spring Wheat Average</b>			<b>147</b>	<b>3.07</b>	<b>1.38</b>	<b>1.69</b>	<b>1.99</b>	<b>5.70</b>
021-1	2015	Stubble	139	8.03	3.81	4.22	4.96	9.90

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR



Customer: Lamb Weston

Irrigation Summary Report

Date: 12/1/2014 - 11/30/2015

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
033-1	2015	Stubble	153	4.28	3.84	0.44	0.52	5.30
041-1	2015	Stubble	77	2.57	2.82	0.00	0.00	3.60
042-1	2015	Stubble	139	3.27	3.81	0.00	0.00	5.80
044-1	2015	Stubble	70	2.39	2.81	0.00	0.00	3.00
053-1	2015	Stubble	24	0.00	0.85	0.00	0.00	0.80
Stubble Average			100	3.42	2.99	0.78	0.91	4.73
008-1	2015	Triticale	244	16.57	4.99	11.58	13.62	20.20
038-1	2015	Triticale	126	6.60	1.64	4.96	5.84	11.10
039-1	2015	Triticale	126	10.07	1.64	8.43	9.92	12.00
049-1	2015	Triticale	300	15.26	5.21	10.05	11.82	19.70
Triticale Average			199	12.13	3.37	8.76	10.30	15.75
001-1	2015	Volunteer	63	6.30	0.22	6.08	7.15	5.00
002-1	2015	Volunteer	63	5.40	0.22	5.18	6.09	4.40
010-1	2015	Volunteer	123	13.40	1.96	11.44	13.46	12.70
011-1	2015	Volunteer	116	10.07	1.96	8.11	9.54	9.30
013-1	2015	Volunteer	118	3.32	3.59	0.00	0.00	5.00
014-1	2015	Volunteer	123	8.73	1.96	6.77	7.96	8.50
016-1	2015	Volunteer	56	7.20	0.22	6.98	8.21	5.30
019-1	2015	Volunteer	119	3.73	3.59	0.14	0.16	5.40
022-1	2015	Volunteer	119	6.44	1.96	4.48	5.27	6.40
024-1	2015	Volunteer	119	5.04	1.96	3.08	3.62	5.00
026-1	2015	Volunteer	45	6.75	0.21	6.54	7.69	6.00
027-1	2015	Volunteer	119	7.49	1.96	5.53	6.51	6.70
032-1	2015	Volunteer	49	4.10	0.22	3.88	4.56	4.10
036-1	2015	Volunteer	116	1.44	1.96	0.00	0.00	3.10
038-1	2015	Volunteer	116	5.63	1.96	3.67	4.32	4.70
039-1	2015	Volunteer	116	4.60	1.96	2.64	3.11	4.80
048-1	2015	Volunteer	123	5.44	1.96	3.48	4.09	5.10
055-1	2015	Volunteer	98	2.37	0.27	2.10	2.47	2.60
096N-1	2015	Volunteer	119	8.90	1.96	6.94	0.08	9.90
097-1	2015	Volunteer	119	3.96	1.96	2.00	0.02	6.00
113-1	2015	Volunteer	119	9.45	1.96	7.49	8.81	8.60
Volunteer Average			103	6.18	1.62	4.60	4.91	6.12
001-1	2015	Winter Wheat	244	16.11	4.99	11.12	13.08	19.30
002-1	2015	Winter Wheat	244	21.66	4.99	16.67	19.61	25.80
010-1	2015	Winter Wheat	244	19.38	4.99	14.39	16.93	22.90
011-1	2015	Winter Wheat	244	18.81	4.99	13.82	16.26	23.20
014-1	2015	Winter Wheat	230	20.18	4.99	15.19	17.87	23.40
016-1	2015	Winter Wheat	230	23.03	4.99	18.04	21.22	27.30
020-1	2015	Winter Wheat	230	10.49	4.99	5.50	6.47	14.90
036-1	2015	Winter Wheat	237	10.81	4.99	5.82	6.85	14.40
043-1	2015	Winter Wheat	230	16.36	4.99	11.37	13.38	19.90
048-1	2015	Winter Wheat	230	13.92	4.99	8.93	10.51	17.30
055-1	2015	Winter Wheat	195	12.97	5.24	7.73	9.09	15.80
Winter Wheat Average			233	16.70	5.01	11.69	13.75	20.38

RECEIVED BY OWRD

AUG 15 2016





Customer: Lamb Weston

Irrigation Summary Report

Date: 12/1/2014 - 11/30/2015

Site Name	Crop Year	Crop Name	Days	Irrigation	Rain	Net Irrigation	Gross Irrigation	Measured ET
003-1	2015	Winter Wheat	49	1.88	1.55	0.33	0.39	2.40
005-1	2015	Winter Wheat	49	2.23	1.55	0.68	0.80	2.60
013-1	2015	Winter Wheat	49	3.28	1.55	1.73	2.04	3.80
017-1	2015	Winter Wheat	24	1.82	1.00	0.82	0.96	1.30
035-1	2015	Winter Wheat	56	2.23	1.73	0.50	0.59	3.30
046-1	2015	Winter Wheat	42	2.12	1.54	0.58	0.68	2.70
050-1	2016	Winter Wheat	60	5.95	1.74	4.21	4.95	3.80
2015 Winter Wheat Average			47	2.79	1.52	1.26	1.49	2.84

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR  
113/117

**Attachment 5**  
**Documentation of Fish Screens**  
*Time Extension for Permit S-51017*

---

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR



August 8<sup>th</sup>, 2016

Jake Madison  
Madison Farms  
29299 Madison Rd.  
Echo, Oregon 97826

RE: Water Intake Screens at the Amstad Farms Columbia River Pump Station

Jake:

As you are aware, the Amstad Farms had a major project during January and February of this year (2016) to install new fish screens at their Columbia River Pumping Station. The new screens were installed to meet the current National Marine Fisheries Service (NMFS) fish screening standards. Both NMFS and the Oregon Department of Fish and Wildlife (ODFW) reviewed and improved the plans. The Corps of Engineers, after consultation with NMFS and ODFW, issued permit Number NWP-2004-619-4 under which the project was completed.

If others have further questions regarding this subject, they can contact me directly. My office number is (541) 567-0252 and my e-mail address is [paul@irz.com](mailto:paul@irz.com).

Sincerely,

A handwritten signature in black ink that reads "Paul Wattenburger". The signature is written in a cursive style and is positioned above a horizontal line.

Paul Wattenburger, PE

RECEIVED BY OWRD

AUG 15 2016



August 8<sup>th</sup>, 2016

Jake Madison  
Madison Farms  
29299 Madison Rd.  
Echo, Oregon 97826

RE: Water Intake Screens at the CID/AgriNorthwest Columbia River Pump Station

Jake:

As you are aware, the Columbia Improvement District (CID) and Boardman Tree Farm (BTF) [now AgriNorthwest] had a major project during January and February of 2008 to install new fish screens at the Columbia River Pumping Station they jointly own. The new screens were installed to meet the current National Marine Fisheries Service (NMFS) fish screening standards. Both NMFS and the Oregon Department of Fish and Wildlife (ODFW) reviewed and improved the plans. The Corps of Engineers, after consultation with NMFS and ODFW, issued permit Number NWP-2006-177 under which the project was completed.

If others have further questions regarding this subject, they can contact me directly. My office number is (541) 567-0252 and my e-mail address is [paul@irz.com](mailto:paul@irz.com).

Sincerely,

Paul Wattenburger, PE

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR



August 8<sup>th</sup>, 2016

Jake Madison  
Madison Farms  
29299 Madison Rd.  
Echo, Oregon 97826

RE: Water Intake Screens at the Port of Umatilla Regional Water System

Jake:

IRZ Consulting was not involved with the design of the Port of Umatilla Regional Water System. That design was done by ACE Consultants, Inc. of Portland, Oregon. This design included the new Columbia River Pump Station at the Port of Umatilla. The plans for this station show each of the four pumps set in their own screen. Each of these four screens are shown as 66 inches in diameter and 66 inches tall. Also, each screen is equipped with an airburst cleaning system. For actively cleaned screens, the surface area of each screen is around three times the minimum size required.

Since the construction of this station would have required a Corps Permit, and the issuance of this permit would have required consultation with both the National Marine Fisheries Service (NMFS) and the Oregon Department of Fish and Wildlife (ODFW), it must be assumed that the fish screens meet current NMFS fish screening standards.

If others have further questions regarding this subject, they can contact me directly. My office number is (541) 567-0252 and my e-mail address is [paul@irz.com](mailto:paul@irz.com).

Sincerely,

Paul Wattenburger, PE

RECEIVED BY OWRD

AUG 15 2016

SALEM, OR