



WATER SUPPLY DEVELOPMENT ACCOUNT LOAN AND GRANT APPLICATION

APPLICATION INSTRUCTIONS

1. A pre-application conference with Oregon Water Resources Department (OWRD) staff is strongly recommended. To schedule a pre-application conference or if you have any questions about the application form, please contact Jon Unger, Water Resources Grant Administrator at (503) 986-0869.
2. Review the Water Supply Development Account Application Guidance and Guidance on the Evaluation of Public Benefits documents prior to completing application.
3. Complete Sections I through VII of the application form in the spaces provided.
4. If you include attachments as part of your response, please identify the attachment number and title in the appropriate response section.
5. Applications may be submitted electronically or in hard copy. If in hard copy - use 8 ½" x 11" unstapled, numbered pages. Provide any attachments to application also on 8 ½" x 11" unstapled pages.
6. Applications will be accepted year-round; however, applications must be received before the submission deadline to be considered for the corresponding award cycle. Submission deadlines will be published on the following webpage:
http://www.oregon.gov/owrd/Pages/Water_Supply_Development_Account.aspx
7. Please send completed applications electronically to Jon.J.Unger@wrд.state.or.us, or if in hard copy to the following address:

OREGON WATER RESOURCES DEPARTMENT
Attention: Jon Unger, Water Resources Grant Administrator
725 Summer Street NE, Suite A
Salem, OR 97301

Please note: The information you provide on this application may be subject to Oregon Public Records Law.

JDR ranch is seeking to upgrade certain irrigation facilities and equipment to create a more efficient system of water distribution on the ranch. There has been significant improvements in water delivery systems since the original ranch system was installed that offer considerable potential water and energy savings or conservation. The original system consists of 2 wheel lines, 2 high pressure reel guns and various hand line, one 30hp high pressure pump and one 20hp pump. Permit No. 20347 to pump not to exceed 0.90 cubic foot per second.

JDR Ranch physical location is 99997 Starvation Lane Moro Oregon along the lower reaches of the John Day River.

The proposed project can be broken into the three following categories

- 1. Intake system*
- 2. Pumping Plant*
- 3. Irrigation water delivery system---Automated Pivots*

The potential impacts are significant as follows, Automated Pivots are projected to reduce the current water usage nearly in half for the same irrigated acreage and the Pumping Plant is projected to cut the current power usage by half. The Intake System will replace the current practice of dragging the irrigation suction system into and out of the river bi annually nullifying the effect on the riparian zone of irrigation practices.

The primary potential public benefit of the project is a surplus of irrigation water upon implementation. I am anticipating that a portion of the surplus water could be returned to the John Day River utilizing the Allocation of Conserved Water Program through Oregon Water Resources Department. An additional public benefit will be the lack of intrusion on riparian zone of the old intake system.

IV. Project Specifics

Instructions: Answer all questions in this section by typing the answer below the question, using additional space as needed.

- 1. Describe how the project will provide public benefits in each of the three public benefit categories.** Project applications will be scored and ranked based on the economic, environmental and social/cultural public benefits identified below. Describe the conditions prior to and after project implementation to demonstrate changes resulting from the project. Descriptions should be quantitative when possible. Information provided must be sufficient to allow evaluation of the public benefits of the project. **Please see the Public Benefit and Evaluation Guidance document for a description of how public benefits will be evaluated.** Applications that do not demonstrate public benefit in each of the three categories (economic, environmental, social/cultural) will be deemed incomplete. Leave blank any categories that are not applicable to project.

Economic Benefits ORS 541.673(2)

- (a) Job creation or retention:

Long term- Once the project is complete JDR will be contracting the farming activities with a local Sherman County family. We are anticipating that with irrigation efficiencies the productivity of the farm will increase dramatically in year one resulting in at least 1 full time positions being added in Sherman County.

Short term- The irrigation infrastructure portion of the project will contribute to slight increase in measurable job creation in Sherman County as we will be required to have labor on site for a 60 day duration to handle the day to day pipe laying/ ditch bedding wire distribution phase of work. The portion of work relating to the construction of the pivots would be handled by the crew of specialized labor from Thompson Pump out of Jefferson County who would be on site nearly 2 weeks and I would think could be counted to Job Retention.

- (b) Increases in economic activity:

The ranch has over the last 2 years produced about 100 tons of hay annually and production is projected to reach 300 tons annually with irrigation automation and better application rates for water. The resulting revenue change after the project would be about \$45,000 allowing for the procurement of more sophisticated harvest equipment and loading/hauling equipment.

- (c) Increases in efficiency or innovation:

The project will result in exceptional efficiency in the use of power and water. The project is projected to cut the power used in pumping in half and is also projected to use nearly half the water that the current system uses for irrigation. In addition the current system requires a person to physically be on site to change water sets on the wheel lines and start and stop pumps which would change with the automation of the pumping plant.

- (d) Enhancement of infrastructure, farmland, public resource lands, industrial lands, commercial lands or lands having other key uses

The project will provide a considerable enhancement to infrastructure and to the productivity of the farmland. The project entails the replacement of the antiquated irrigation system with state of the art technology of a new system of infrastructure. The subject farmland is projected to triple in productivity because of the infrastructure change and because the value of farmland is based on its ability to produce revenue the project will cause a rise in the value of the farm. In addition the new intake system will enhance the buffer and riparian zone along the John Day river.

- (e) Enhanced economic value associated with tourism or recreational or commercial fishing, with fisheries involving native fish of cultural significance to Indian tribes or with other economic values resulting from restoring or protecting water instream:

The project is projected to save nearly 180 gpm from our current irrigation practice and I am anticipating that a portion of that water saved will be placed back instream which will benefit the native fish found in the John

Day river. The Steelhead and Salmon of the John Day river are recognized as a threatened species and are of cultural significance to the Warm Springs Tribes and the Confederated Tribes of Umatilla.

(f) Increases in irrigated land for agriculture:

The project will increase the irrigated land on the farm by more than 20%. There is currently about 6 acres that are not in production that were historically flood irrigated and would be returned to production with the new system. In addition I will be proposing that a portion of the saved water be allocated to other areas of farm through the State of Oregon's allocation of conserved water program of resulting in another 10 acres being irrigated.

Environmental Benefits ORS 541.673(3)

(a) A measurable improvement in protected streamflows that accomplishes one or more of the following:

- (A) Supports the natural hydrograph;
- (B) Improves floodplain function;
- (C) Supports state- or federally-listed sensitive, threatened or endangered fish species;
- (D) Supports native fish species of cultural importance to Indian tribes; or
- (E) Supports riparian habitat important for wildlife:

I am anticipating that a portion of the conserved project water will be dedicated to remain instream during the irrigation season utilizing the allocation of conserved water program.

Leaving a portion of the conserved water instream will benefit federally listed fish such as salmon and steelhead by providing higher stream flows during the critical late summer migration period.

Additional stream flow will support native fish species such as salmon and steelhead that are of cultural importance to the above mentioned tribes.

(b) A measurable improvement in groundwater levels that enhances environmental conditions in groundwater restricted areas or other areas:

Additional stream flow is likely to yield trace improvements in groundwater levels because of natural recharge.

(c) A measurable improvement in the quality of surface water or groundwater:

Increased streamflow will likely result in minor improvements in water quality in the John Day river. Additional streamflow can lower the water temperature during the late summer migration period.

(d) Water conservation:

JDR ranch is currently using 2 high pressure reel guns, 2 wheel lines and an assortment of had line to irrigate the farm land. The current irrigation system is very inefficient because of the water pressure needed for distribution is relatively high and subject to wind and evaporation waste. The proposed system operates at low pressure that requires less horsepower and the pivot distribution system is far less susceptible to wind impacts and evaporation. The project will result in exceptional water conservation resulting in a usage rate of nearly half of the current use.

(e) Increased ecosystem resiliency to climate change impacts:

The project is expected to provide additional streamflow that should result in a minor decrease in water temperature during the summer and fall providing at least a trace increase in ecosystem resiliency to climate change.

(f) Improvements that address one or more limiting ecological factors in the project watershed:

Currently water temperature and water quality are limiting ecological factors. The project will provide additional streamflow that will address both of the limiting factors.

Social/Cultural Benefits ORS 541.673(4)

(a) The promotion of public health and safety and of local food systems:

The project will promote additional locally grown hay products for use in feeding livestock in Sherman County.

(b) A measurable improvement in conditions for members of minority or low-income communities, economically distressed rural communities, tribal communities or other communities traditionally underrepresented in public processes:

The project will add economic benefit to Sherman County and seasonal activity in Jefferson County both through the short term construction period and long term added productivity of the subject farm land.

(c) The promotion of recreation and scenic values:

The additional instream water provided by the project will benefit recreation and scenic values in the John Day Basin.

(d) Contribution to the body of scientific data publicly available in this state:

JDR Ranch will seek to have a automated weather observing system installed as part of the project. Will be working with the NOAA Pendleton office to set up.

(e) The promotion of state or local priorities, including but not limited to the restoration and protection of native fish species of cultural significance to Indian tribes:

This project clearly promotes State of Oregon priorities by conserving water and placing conserved water back in stream. Additional stream flow during the late summer and early fall will benefit Salmon and Steelhead native to the John Day river.

(f) The promotion of collaborative basin planning efforts, including but not limited to efforts under Oregon's Integrated Water Resources Strategy:

I have been working with the following agencies- Sherman County Soil Water Conservation, NRCS and the Oregon Watershed Enhancement Board.

The energy audit that is the basis for projecting the net savings for power use was done in conjunction with the Sherman County NRCS.

2. Identify Project Location.

(a) Attach map of project implementation area if appropriate. List map(s) in this space and attach to application.

(b) Township	Range	Section	Quarter-Quarter Section
<i>1S</i>	<i>19E</i>	<i>1</i>	<i>SE-NE</i>
<i>1S</i>	<i>20E</i>	<i>6</i>	

(c) Tax Lot Number(s)

100
100

(d) Latitude/Longitude

45 30' 44.51"/120 22' 16.16"

(e) County

Sherman County

(f) Watershed
John Day River

(g) River/Stream Mile (where applicable)
 28

3. (a) Will the project result in a physical change on private land? Yes No **X**

If yes, attach evidence that landowners are aware of and agree to the proposal. List attachments below.

(b) Will the project result in monitoring on private land? Yes No **X**

If yes, attach evidence that landowners agree to the proposal and are aware that monitoring information is public record. List attachments below.

4. Provide a project schedule, including beginning and completion dates. Use the following table as a guide. Attach a separate sheet to application if needed.

Estimated Project Duration: September 2016 to December 2016

Place an "X" in the appropriate column to indicate when each Key Task of the project will take place.

Project Key Tasks	20				20				20 & Beyond
	1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr	1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr	
<i>Construction of the new pivot ancillary work</i>			X						
<i>Construction of the new pump station</i>			X						
<i>Construction of new sumps</i>			X	X					
<i>Build pivot bases</i>			X	X					
<i>Place new pivots</i>				X					
<i>Pump Station / Electrical work</i>				X					

5. Describe any conditions that may affect the completion of the project.

1. *Weather or unusually high water durring construction are the only conditions that could impact schedule.*

6. Attach a completed feasibility analysis if one has been completed.

I have attached the Agricultural Energy Management Plan/ Landscape Conservation Activity Plan.

7. Provide suggestions for interim and long-term project performance benchmarks.

8. Provide letters of support for the proposed project (list in this space and attach to application).

NA.

9. Describe partnerships and collaborative efforts associated with the project.

I have participated with the Sherman County NRCS and SWCS in looking at efficiency plans for the ranch which produced the Agricultural Energy Management Plan.

10. Consultations/communications with affected Indian tribes and with the Legislative Commission on Indian Services regarding the project.

Has the Legislative Commission on Indian Services been contacted to identify tribes affected by the project?

Yes No

Please provide correspondence as an attachment to this application.

Has there been consultation/communications with affected Indian tribes?

Yes No

Please provide a description of consultation/communication that occurred and attach documents to this application if applicable.

11. Provide a description of:

(a) Required local, state and/or federal [permits](#) and/or authorizations for project implementation that have been secured to date. Please attach secured permits/authorizations to the application.

(b) Required local, state and/or federal permits and/or authorizations that will be secured in the future to implement the project. Describe efforts to date in securing these permits and/or authorizations.

The electrical portion of the contracted services will require a permit and inspection of the new pump pannels and 240/480 converter. The permit will be obtained by the electrical contractor.

12. Provide any additional supplemental materials to demonstrate ability to implement the project. Examples include project plans and specifications, engineering details and [water availability analysis](#). List documents in this space and attach to application.

1. *Map of project*
2. *Bid from Thompson Pump*

V. Storage Project Requirements (if not a storage project continue to Section VI)

For any storage project please contact Water Resources Grant Administrator, Jon Unger, at (503) 986-0869 prior to completing the application.

13. Storage Project Type: **Above Ground** **Below Ground**

14. If above-ground storage, would the proposed storage project be located in-channel?

Yes **No** **N/A**

15. Identify the capacity in acre-feet of the proposed storage project.

16. Has a water right application been filed for the proposed storage project?

Application not yet made.

Water right application made; permit not yet issued Application #

Permit issued. Application # Permit #

For Questions 17 & 18 answer the following:

(a) Does the proposed storage project impound surface water on a perennial stream?

Yes **No** **Uncertain**

(b) Does the proposed storage project divert water from a stream that supports state- or federally-listed sensitive, threatened or endangered fish species?

Yes **No** **Uncertain**

(c) Does the proposed storage project divert more than 500 acre-feet of water annually?

Yes **No**

17. Water Dedicated Instream N/A

For above ground storage projects seeking grant funding: If you answered “yes” to any of the questions posed in a-c above a minimum volume of water equal to at least 25% of the stored water must be dedicated to instream use.

Identify percentage of stored water to be dedicated to instream use.

%

Note: Any storage project dedicating 25% of stored water to instream use will automatically receive a median score in the environmental public benefit category with the opportunity to demonstrate additional environmental benefit to increase the score.

18. Seasonally Varying Flow Prescription

For all storage projects: If you answered “yes” to any of the questions posed in a-c above the project will need a **Seasonally Varying Flow (SVF) Prescription**, determining the duration, timing, frequency and volume of flows (including ecological baseflow), necessary for protection and maintenance of biological, ecological, and physical functions outside of the official irrigation season. The initial step in defining the SVF for the project is to schedule an SVF meeting with OWRD. For assistance and more information please contact Water Resources Grant Administrator Jon Unger at (503) 986-0869.

Identify whether the storage project will need a Seasonally Varying Flow Prescription.

Yes No Uncertain

VI. Environmental Public Benefit for Conservation Projects Dedicating Water Instream (if not a conservation project continue to Section VII)

19. Identify percentage of conserved water to be dedicated to instream use.

60–75 % Depending on the level of funding.

Applicant will participate in the Allocation of Conserved Water program

Note: Any project that conserves water and dedicates at least 25% of the conserved water quantity to instream use will automatically receive a median score in the environmental public benefit category with the opportunity to demonstrate additional environmental benefit to increase the score. Water dedicated to instream use must be permanently placed instream and protected by the Oregon Water Resources Department.

VII. Financial Information

For Loan Applicants – Since loan applications do not require cost match, loan applicants who do not offer a cost match need not complete Section A and can disregard the match funding columns in Sections B and C. Budget and costs of key tasks must be identified in sections B & C. Loan applicants will be required to provide additional financial information related to their ability to repay the loan. This request for information will take place after the scoring and ranking process for those projects that are recommended for funding.

For Grant Applicants – Complete Sections A, B and C.

Section A – Cost Match Information

Applicants must demonstrate a minimum 25% funding match based on the total project cost. The match may include: a) applicant funds or secured funding commitment from other sources; b) pending funding commitment from other sources; and/or c) the value of in-kind labor, equipment rental, and materials essential to the project. For secured funding, the applicant must attach a funding award letter from the match funding source that specifically mentions the dollar amount shown in the “Amount/Dollar Value” column. For pending resources, documentation showing a request for the matching funds must accompany the application. Funds expended prior to grant agreement are not reimbursable nor do they qualify for cost match without prior authorization by the Department.

In the Type column below matching funds may include:	In the Status column below matching funds may have the following status:
<ul style="list-style-type: none"> • Cash - Cash is direct expenditures made in support of the feasibility study by the applicant or partner*. 	<ul style="list-style-type: none"> • Secured - Funding commitments already secured from other sources.
<ul style="list-style-type: none"> • In-Kind - The value of in-kind labor, equipment rental and materials essential to the feasibility study provided by the applicant or partner. 	<ul style="list-style-type: none"> • Pending - Pending commitments of funding from other sources. In such instances, Department funding will not be released prior to securing a commitment of the funds from other sources. Pending commitments of the funding must be secured within 12 months from the date of the award.

* “Partner” means a non-governmental or governmental person or entity that has committed funding, expertise, materials, labor, or other assistance to a proposed project planning study. OAR 690-600-0010.

Match Funding Source (if in-kind, briefly describe the nature of the contribution)	Type (✓ One)	Status (✓ One)	Amount/ Dollar Value	Date Match Funds Available (Month/Year)
<i>JDR Ranch will perform all excavation</i>	cash in-kind X	secured X pending	\$47,715.00	September of 2016
<i>JDR Ranch LLC</i>	cash X in-kind	secured X pending	\$29,163.00	September of 2016
	cash in-kind	secured pending		

Section B – Project Budget X Please see attached Budget.

Please provide a line item budget for the project; see example below. If significant additional detail is needed please complete separately and attach to completed application.

Line Items	Number of Units* <i>(e.g. # of Hours)</i>	Unit Cost <i>(e.g. hourly rate)</i>	In-Kind Match	Cash Match Funds	OWRD Funds	Total Cost
Materials						
Contractual/Services						
Staff Salary/Benefits						
Equipment (must be approved)						
Supplies						
Other:						
Total for Section B						
Percentage for Section B						100%

* Note: "Unit" should be per "hour" or "day" not per "project" or "contract." Number of Units x Unit Costs = Total Cost

Section C – Key Task Cost

Complete Section C below. Key Tasks identified in Section C should be the same as the Key Tasks in Section IV(4) above.

Project Key Tasks	In-Kind Match	Cash Match Funds	OWRD Funds	Total Cost
<i>Construction of the new pivot ancillary work</i>	<i>\$22,815.00</i>		<i>\$28,449.00</i>	<i>\$51,264.00</i>
<i>Construction of the new pump station</i>	<i>\$22,500.00</i>		<i>\$42,239.00</i>	<i>\$64,739.00</i>
<i>Construction of the new sumps</i>			<i>\$10,992.00</i>	<i>\$10,992.00</i>
<i>Build pivot bases & contingency</i>		<i>\$29,163.00</i>	<i>\$2,400.00</i>	<i>\$31,563.00</i>
<i>Place new pivots</i>			<i>\$132,145.00</i>	<i>\$132,145.00</i>
<i>Pump Station / Electrical work</i>			<i>\$9,555.00</i>	<i>\$9,555.00</i>
<i>Total Budget</i>				<i>\$300,258.00</i>

Project Key Tasks	In-Kind Match	Cash Match Funds	OWRD Funds	Total Cost
<i>Construction of the new pivot ancillary work</i>	\$22,815.00		\$28,449.00	\$51,264.00
<i>Construction of the new pump station</i>	\$22,500.00		\$42,239.00	\$64,739.00
<i>Construction of the new sumps</i>			\$10,992.00	\$10,992.00
<i>Build pivot bases & contingency</i>		\$29,163.00	\$2,400.00	\$31,563.00
Total for Section C				

APPLICATION CHECKLIST

Instructions: Use this form as an important cross-check to ensure that your application is complete. Incomplete applications will be returned. **This form does not need to be included in your application packet.**

General

If submitting electronically the preferred format is either a Microsoft Word or Adobe PDF

Only one application is included with the packet (other applications must be sent separately).

Paper submissions only

The application and attachments are on 8 ½” x 11” paper.

The application and attachments are not stapled or bound.

Section I – Project Information

All questions in this section have been answered.

The Funding Requested and the Total Project Cost mirror the totals shown in Section VII Section B and C.

Section II – Applicant Information

All contact information – for the principle contact, fiscal officer and involved landowners – is complete and current.

The certification is signed by an authorized signer.

Section III – Project Summary

A project summary is complete.

Section IV – Project Specifics

All questions in Section IV have been answered.

Applicable attachments (e.g. letters of support, landowner agreement, feasibility analysis and documentation of permits) are attached to application.

Section V – Storage Project Requirements

If project is for storage of water, all questions in Section V have been answered.

Section VI – Environmental Public Benefit for Conservation Projects Dedicating Water Instream

If project is for conservation of water, the question in Section VI has been answered.

Section VII – Financial Information

Section A is complete.

Section B is complete.

Section C is complete.