



**OREGON WATER RESOURCES DEPARTMENT
WATER SUPPLY DEVELOPMENT ACCOUNT
LOAN AND GRANT APPLICATION**

I. Project Information

Project Name: Schenk Rainwater Collection

Type of Project: Rainwater Collection Check box if project type includes storage

Funding Request Type: Loan Grant

Funding Amount Requested: \$ 10,500 Total cost of project: \$ 14,585

Note: Grant funding requests must demonstrate cost match of at least 25% of total project cost. This may include in-kind.

II. Applicant Information

Principal Contact: Pat Schenk	Fiscal Officer:
Address: <u>33219 Canaan Road</u>	Address:
<u>Deer Island, OR 97054</u>	
Phone: <u>503-397-6403</u> Fax:	Phone: Fax:
Email: <u>canaanhillfarm@q.com</u>	Email:

Involved Landowner 1:	Involved Landowner 2:
Address:	Address:
Phone: Fax:	Phone: Fax:
Email:	Email:

**Please include a supplementary document that lists all additional involved landowners if applicable.*

Certification:

I certify that this application is a true and accurate representation of the proposed project work and that I am authorized to sign as the Applicant or Co-Applicant. By the following signature, the Applicant certifies that they are aware of the requirements of an Oregon Water Resources Department funding award and are prepared to implement the project if awarded.

Applicant Signature: /S/ see attachment 3 Date: 12/2/2015

Print Name: Pat Schenk Title/Organization: Owner, Canaan Hill Farm

III. Project Summary

Please provide a description of the need, purpose and nature of the project. Include what the applicant intends to complete and how the applicant intends to proceed.

This is a rainfall collection system that will consist of (6) 3,000 gallon tanks. Tanks will set on level site on West side of barn 30' x 36' to collect 18,000 gallons to irrigate orchard. This system will co-exist with a 12,000 gallon system located on the east side of the barn to give us a total of 30,000 gallons to utilize. We will set tanks and have McMullen Water Services help with pump pressure tank and plumbing. This will greatly increase our yield on our farm.

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:

Yes. With this additional water for irrigation, our production in the orchard and row crops will increase. We will be able to hire seasonal workers for harvesting, and hopefully be able to farm full time.

(b) Increases in economic activity:

Yes. I believe this project will increase economic activity due to the increase in customers at the Farmer's Markets, as well as increasing our customer base for on-farm produce sales due to the increased yields and product availability.

(c) Increases in efficiency or innovation:

Yes. I believe rainwater collection is something we will all have to do as small farmers with drip irrigation systems, moisture monitors, and modern technology. We will have to make every drop count to get the yield and quality to become profitable.

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

Yes. This system will add value to our farm along with the value of the systems installed. This system will increase the number of acres that can be irrigated, which will greatly increase production of the orchard - a win/win outcome.

(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:

N/A

(f) Increases in irrigated land for agriculture:

This new system will allow us to increase our irrigated land and put more ground in agricultural production, which will increase yields and marketable products for Farmer's Markets from our orchard and row crops. Currently, we plant onions, garlic, rhubarb, and strawberries in the Fall because it doesn't require irrigation. With this new rainwater collection system, our growing season capacity will extend into the drier summer months because of the increased ability to irrigate more land.

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:

N/A - There are no stream flows involved in this project.

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

N/A - Less pressure on groundwater during low ground water times of the year.

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

N/A - Less surface water will mean less mud, which will improve surface water around structure involved in project.

- (d) Water conservation:

Thirty years ago, I told people that Oregon would one day face a water shortage - and they laughed at me. Today, those same people may not be laughing. With the current drought conditions and low snow pack, we should make every effort to conserve and save water. We have a great opportunity to collect, store, and utilize rain water from roof runoff that can be used beneficially for food production.

- (e) Increased ecosystem resiliency to climate change impacts:

Using rainwater instead of groundwater will take any pressure off local groundwater and should improve local groundwater.

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

I have been farming in the same County and the same land for over 30 years. I have seen many changes over the long run. Crops that never needed irrigation water before, now do to get the yield needed to be profitable. Currently, I am looking at varieties and root stock that will work a little harder to produce and provide greater yields. I think as a whole, the agricultural community will have to look at climate change and how it affects different crops, water management, and conservation.

Social/Cultural Benefits ORS 541.673(4)

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

People are looking for a food system they can trust. More and more, people are turning to their local market growers and Farmer's Markets for fresh garden produce and other locally grown products. If more small farmers were to incorporate conservation practices, I believe communities would be healthier and money would stay local. Rainwater collection and utilization is one of the conservation practices that can improve and increase production on small farm operations.

- (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:

We live and farm in a small rural community. Options for people to obtain locally grown food is very limited. The more productive we can make our land, the more food we can provide for our neighbors and surrounding communities where the options to obtain or have access to fresh grown food is limited. People can't afford to travel great distances to purchase farm-fresh products. With the additional irrigation capabilities, we can increase our production to reach a greater number of local people.

- (c) The promotion of recreation and scenic values:

I believe everyone likes to see a productive farm and land that is being used wisely. We are participating in Agri-tourism by providing U-Pick opportunities for people as our apple orchard continues to grow, and our

strawberries and other row crops increase in productivity due to the additional irrigation capabilities. More people will come and want to participate in the farm and enjoy scenery that farm life has to offer. There are also learning opportunities for families to share local food production and harvesting with their children.

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

We are working with Amy Garret, OSU Extension, on dry land farming and water harvesting. With this rainwater system, will be able to participate in her SARE grant program on a larger scale with increased size of test plots. I also believe that farmers need to help the next generation, and I would love to have this farm set up to be totally sustainable so we could use it to educate new farmers on how to design and install these systems to increase production and profitability on their land. I think Oregon needs to take the lead and show the world it can be done.

(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:

N/A

(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 closely with our local Soil and Water Conservation District, as well as the NRCS office in Columbia County to work collaboratively with other partners to increase awareness of resource concerns and opportunities available for small farmers.

2. Identify Project Location.

(a) Attach map of project implementation area if appropriate. List map(s) in this space and attach to application. *See 2015 EQIP Plan Map, Attachment 1.*

(b) Township Range Section Quarter-Quarter Section
5N 2W 12 NW1/4 NW1/4

(c) Tax Lot Number(s)
16056

(d) Latitude/Longitude
45 56' 9.4" N / 122 52' 58.2"W

(e) County
Columbia

(f) Watershed
Beaver Creek/Columbia River - Tide Creek - 8 dig. HUC 17080003

(g) River/Stream Mile (where applicable)
N/A

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

If yes, attach evidence that landowners are aware of and agree to the proposal. List attachments below. *See attached letter from landowner, Pat Schenk.*

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

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

I have been working closely with NRCS and Columbia Soil and Water Conservation District on conservation practices that will increase productivity of our farm while utilizing natural resources. Both agencies have provided technical and/or financial assistance with the installation of a rainwater harvest system and seasonal high tunnel.

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.

No Permits Required

(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.

No permits Required

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.

See Attachment 2

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.

18,000 Gallons or 0.055 Acre-Feet

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.

0- N/A %

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. N/A

0 %

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>Self - Labor for installation and site prep</i>	<input type="checkbox"/> cash <input checked="" type="checkbox"/> in-kind	<input checked="" type="checkbox"/> secured <input type="checkbox"/> pending	\$600	January 16
<i>Self - Materials</i>	<input checked="" type="checkbox"/> cash <input type="checkbox"/> in-kind	<input checked="" type="checkbox"/> secured <input type="checkbox"/> pending	\$3,485	January 16
	<input type="checkbox"/> cash <input type="checkbox"/> in-kind	<input type="checkbox"/> secured <input type="checkbox"/> pending		
	<input type="checkbox"/> cash <input type="checkbox"/> in-kind	<input type="checkbox"/> secured <input type="checkbox"/> pending		
	<input type="checkbox"/> cash <input type="checkbox"/> in-kind	<input type="checkbox"/> secured <input type="checkbox"/> pending		
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