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September 14, 2015

Rebecca Inman
Department of Ecology
Water Resources Program
P.O. Box 47600
Olympia, WA 98504

Re: Drought Relief Grant Application – Jones Local Improvement District No. 1 and No. 2

Dear Ms. Inman:

We are submitting on behalf of Jones Local Improvement District Nos. 1 and 2 the following Drought Relief Grant Application:

(1) Drought Relief Grant Application – Jones Local Improvement District No. 1; and

(2) Drought Relief Grant Application – Jones Local Improvement District No. 2.

The proposed projects include construction of two wells providing supplemental water to distressed agricultural operations. The construction project is undertaken in response to the severe drought conditions and significant reductions in irrigation water caused by the drought.

The grant applications implement Department of Ecology's *AMENDED Emergency Drought Authorization No. G4-34961-15 (July 14, 2015)* which has authorized the construction of emergency wells for approximately 160 acres of farmland included within the boundaries of the special purpose district. Decreased water from Roza Irrigation District has and will continue to create substantial hardship and losses to agricultural operations.[1]

The project proposal includes construction of two (2) emergency wells. The wells have been formed through separate local improvement districts benefitting agricultural properties within the district boundaries. The LIDs will provide a cash match for a total eligible costs in excess of the required *fifty percent* (50%) requirements. The applications also provide an aggregate grant request of *Five Hundred Thousand Dollars* ($500,000). The breakdown of project cost, grant and match are as follows:

[1] In accordance with the provisions of RCW 43.83B.405, the Director of Department of Ecology ("Ecology") ordered and determined that the Yakima Basin is under drought conditions. *Attachment A* to applications. The Emergency Authorization permitted and authorized construction of a well serving parcels within the boundaries of the Jones Local Improvement District No. 1 and No. 2. Wells will constructed in accordance with the emergency authorization.

	Project Cost	Grant	Match
Jones LID #1	$575,808.14	$208,299.62	$367,508.52
Jones LID #2	$583,400.76	$291,700.38	$291,700.38
Total	$1,159,208.90	$500,000	$659,208.90

Total matching contribution is $659,208.90 of an aggregate project cost of $1,159,208.90. The grant portion is 43.13% of the total cost.

Ecology Director Maia Bellon issued *Order and Determination of Drought Emergency* on May 21, 2015. The Order and Determination recognized the significant and severe impacts of the drought upon agricultural operations and stated:

> Agriculture faces a risk of crop loss throughout the state. Farmers in the Yakima and the Walla Walla basins are being curtailed, which could have devastating impacts on orchards and vineyards....Loss to perennial crops in these regions would be a significant hardship to individual farmers and agricultural communities.

The applications submitted were intended to address these specific impacts upon agricultural operations within the Yakima Basin. In accordance with WAC 173-166-060, Department of Ecology is authorized to take emergency actions including: (1) issuance of emergency permits for water; and (2) provision of funding assistance to public agencies to alleviate drought conditions. Growers within the boundaries of Jones Local Improvement Districts Nos. 1 and 2 have proceeded to address the drought through collective efforts directed toward water right authorization and development funding of two wells.

Jones Local Improvement District Nos. 1 and 2 are public bodies recognized under WAC 173-167-030. The LIDs were established within the external boundaries of the parent public entity – Roza Irrigation District and formed pursuant to statutory authority under RCW 87.03.485. The agricultural properties and location of wells are depicted on the aerial photographs. *Application Attachment H.* The implementation of drought assistance measures through the vehicle of local improvement districts is consistent with historic practice applied under drought conditions.

We appreciate your consideration of the applications. We are prepared to meet at any time in order to expedite this application review and processing.

Very truly yours,
MEYER, FLUEGGE & TENNEY, P.S.

James C. Carmody

JCC:dg

Enclosures

cc: Sage Park
Department of Ecology
Central Regional Office
1250 West Alder Street
Union Gap, WA 98903-0009

U:\DebbieG\Harvey Jones Farm Inc\Jones Local Improvement District\DOE letter.docx

DEPARTMENT OF
ECOLOGY
State of Washington

DROUGHT RELIEF GRANT APPLICATION

Ecology Use Only

Application Number						
D2015	3	6	B		C	R

Date

The information provided in this application will be used to determine general eligibility for funding from the Drought Relief Program, and the priority or ranking of the proposal amongst other competing proposals.

Separate application must be made for any needed emergency drought authorization. Before final approval of grant funding, the applicant must submit copies of all required permits and other authorizations needed for the proposal to Ecology for our review.

1. **Applicant Name(Public Body):** Jones Local Improvement District No. 1			
Address: 2020 Thacker Road	City: Granger	State: WA	Zip: 98932
(a) Authority (State Law): RCW 87.03.480 - .527			
(b) Date Organized: September 8, 2015 (Petition Accepted - Roza Irrigation District)			

2. **Contact Person:** James C. Carmody		Title: Attorney for Jones LID #1	
Address: 230 South 2nd Street	City: Yakima	State: WA	Zip: 98901
Email: carmody@mftlaw.com	Phone #: (509) 575-8500		

3. PROJECT(S) DESCRIPTION

Provide a description of the proposed project(s) and a detailed scope of work. Attach additional sheet(s) if necessary. Attach a map (U.S.G.S. Quad or comparable) showing the geographic location of the proposed project(s).

Jones Local Improvement District No. 1 ("Jones LID #1" or "Applicant") is established to develop an alternative water resource for approximatley 163 acres of irrigable agricultural farmland. The geographic location of the well and local improvement district is attached. Attachment A. The agricultural properties include a variety of organic orchards and produce crops, including apples, cherries, pears, peaches, nectarines, tomatoes and sweet corn. The properties are served by Roza Irrigation District. To mitigate drought conditions, Applicant requests grant funding to construct and develop an irrigation well. The well and water use authority is granted by AMENDED Emergency Drought Authorization No. G4-34961-15. Attachment B. The eligible porject cost is $575,808.14. Attachment C. Applicant is proposing that the grant portion be $213,799.62 and the match amount would be $367,508.52.

Construction of the well began in August 2015 and will be completed within the next couple of weeks. Because of unstable geological formations a stainless steel liner is required. We are awaiting completion of the well, installation of the screen, development of the well, test pumping the well, and installation of the pump and motor. All necessary equipment and materials have been ordered and are in transit to the well site.

The well irrigation water will supplement and provide fall irrigation water after the Roza Irrigation District's early shut off for the 2015 irrigation season.

ECY 070-176 *(07-2015) To request ADA accommodation including materials in a format for the visually impaired, call Ecology Water Resources Program 360-407-6872. Persons with impaired hearing may call Washington Relay Service at 711. Persons with speech disability may call TTY at 877-833-6341.*

See the attached map of the place of use of the well and the location of the LID's irrigation well.

4. DESCRIPTION OF NEED

Describe what would occur without the benefit of the proposed project(s), including: the nature of the actual hardship, both short-term and long-term impacts, the expected loss of normal water supply by percentage, and the estimated potential financial losses. Explain why these circumstances constitute a water supply emergency resulting from natural-caused drought conditions, rather than a pre-existing condition during a normal water year.

Due to drought conditions, Roza Irrigation District is only supplying 46% of their normal irrigation water deliveries. Water delivery was shut down for three (3) weeks in May and deliveries are projected to terminate on or about October 5. Farms within the LID boundaries are totally reliant on this source of water. The significant reduction in water supply, disruption of consistent water delivery and early terminatin of water delivery severly impact both current and future crops. The proposed project is intended to mitigate losses on more than 150 acres of farmed properties, including young and developing orchards. The total estimated losses without supplemental water for harvested crops is $529,444.19. Long-term damage and replacement of orchards is estimated to be $10,385,000. Attachment D. Replacement of orchards and return to production will take over six (6) years to recover. Even with supplemental water, growth will be retarded and current year losses will be incurred. The supplemental water is a matter of loss mitigation. If unmitigated, drought damage will result in significant economic impact to the local economy, agricultural workers and growers.

The irrigation well is necessary to provide late irrigation water for the orchard and farm properties. The irrigation water will also be used for late harvested 2015 crops and fall irrigation of permanent tree fruit crops. Irrigation is critical to tree crops going into the winter. Dehydrated dry soils increase the risk of winter damage or death of trees.

The 2015 harvest has been partially completed but much remains for produce and apple crops. In general, yields have been lower, fruit and produce size has been smaller, and fruit and produce quality has been poorer as a result of the drought. The orchards and crops are primarily organic and are particularly vulnerable to drought conditions. Young tree growth has been poor and some of the 2015 plantings have died under drought conditions. We have lost at least one year of growth on young non-bearing trees delaying future production. Some of our mature trees show signs of drought stress and have begun to defoliate.

Our crops experience similar characteristics every time we have a drought(s) and the Roza Irrigation Project water deliveries are prorated.

ECY 070-176 *(07/2015) To request ADA accommodation including materials in a format for the visually impaired, call Ecology Water Resources Program 360-407-6872. Persons with impaired hearing may call Washington Relay Service at 711. Persons with speech disability may call TTY at 877-833-6341.*

See the attached analysis of crops that have been harvested and pictures that illustrate the drought stress.

5. EXPECTED OUTCOME(S)

Describe how the projects would reduce or avoid harm or hardships and any measures planned to assure the capability and reliability of the proposed project(s) to provide an emergency water supply to the applicant.

If approved, the well will provide a stable source of irrigation water which would agument Roza Irrigation District deliveries. The alternative and supplemental water source would mitigate drought damage and impacts; provide hydration to both current crops and planted orchards; and facilitate the DOE well authorization. Roza has been unable to provide normal and continuous irrigation water as a result of droughts(s) which places nearly 200 acres of prime agriculture production in jeopardy. Prior to constructing the well a discussion with DOE staff indicated that adequate ground water existed for the development of a producing irrigation well. When drilling of the well is complete a down hole geophysic's log and pump test will be completed.

6. WATER SHORTAGE RESPONSE ACTIONS ALREADY TAKEN

Describe the measures taken by the applicant to plan for or mitigate the effects of drought (e.g., conservation, irrigation efficiency measures, leakage, elimination of non-essential uses).

Over the previous 35 years growers within the LID boundaries have invested approximately $1,786,220 in farm operations designed to conserve water and maximize efficient use of irrigation water. Attachment E. The following conservation practices have been employed:

-With the cooperation of the Roza Irrigation District, all open laterals have been piped to reduce water loss leakage and evaporation.

-Microsprinklers have been installed for many acres of permanent crops.

-Drip irrigation has been installed for both permanent and produce crops. All of the annual produce crops are grown with buried drip irrigation.

-Growers have constructed two large lined irrigation water storage reservoirs.

-Shade cloth has been installted and anti-transpiration/sunburn protection products applied to tree fruit crops.

-Clean cultivation has been maintained in young non-bearing orchards.

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Unfortunately conservation has its limits. Growers are at a point in which half of the normal irrigation water supply will not produce quality fruit and fresh produce crops. There is an urgent need to develop additional sources of stable irrigation water.

7. WATER RIGHTS

(a) Describe whether you have or will be submitting an application for an emergency drought authorization and or have other pending water right applications

See attached Application for Permit #G4-31331 dated July 1, 1992 and Emergency Drought Authorization No. #G4-34961-15 dated July 14, 2015.

(b) List the applicant's legal water rights to divert or withdraw water for use on land within the applicant's legal boundaries, and attach copies.

See attached Application for Permit #G4-31331 dated July 1, 1992 and Emergency Drought Authorization #G4-34961-15 dated July 14, 2015.

8. INTERGOVERNMENTAL COORDINATION

Provide a summary of how the applicant has and/or will consult with affected agencies and/or Indian Tribes prior to and during implementation of the proposed project(s). Include a list of the affected agencies and Indian Tribes and a summary of impacts/approvals if known. (Attach an additional sheet if necessary.)

Applicant has been working closely with DOE on the Emergency Permiting process and the construction of the well. To the best of our knowledge we have complied with all requirements and are unaware of any other agencies and/or Indian Tribes that are directly affected.

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9. PROJECT(S) SCHEDULE/DURATION

(a) When do you expect to have all the required permitting, approvals, and funding?

DOE issued AMENDED Emergency Drought Authorization No. G4-34961-15 on July 14, 2015. Applicant has secured approved financing for construction and development of the well. Roza Irrigation has accepted the Petition for Local Improvement District and will hold public hearing on LIDs on October 6, 2015. All necessary filings with Secretay of State and Yakima County will be completed simultaneously.

(b) Approximately how long will the proposed project(s) take to complete?

The well will be scheduled to be pump tested the week of October 6th. We expect to complete construction and put the irrigation water from the well to benefical use on or before October 15, 2015. Timing is critical to complete the well prior to the Roza's scheduled turn-off date.

(c) Expected project(s) schedule, including start date, completion date, and significant intermediary steps:

Well construction began in August 2015. Well construction and development should be completed on or before October 15, 2015.

10. PROJECT COMPONENTS

Check appropriate box or boxes and complete estimated cost for proposed activities under this grant.

(a)	☐ Engineering design and report	$ _____
(b)	☒ Project(s) plans and specifications	$ 13,487.50
(c)	☐ Purchase of land, rights-of-way, easements	$ _____
(d)	☒ Construction	$ 401,129.04
(e)	☐ Construction engineering	$ _____
(f)	☐ Education and outreach	$ _____
(g)	Other Testing, Motor, Pump, etc.	$ 161,191.60

11. FUND SOURCES	Estimated total project cost		Estimated eligible project cost	
(a) Total estimated project(s) cost	100 %	$ $575,808.14	100 %	$ 416,599.24
(b) Total estimated eligible project(s) cost	100 %	$ $416,599.24	100 %	$ 416,599.24
(c) Ecology grant share	50 %	$ $208,299.62	50 %	$ 208,299.62
(d) Match fund source(s): (specify)	50 %	$ $367,508.52	50 %	$ 367,508.52
(e)	%	$	%	$
(f)	%	$	%	$
(g)	%	$	%	$

☐ Applicant may be exempt under WAC 173-167-040(3) from the fund match requirement

ECY 070-176 *(07/2015) To request ADA accommodation including materials in a format for the visually impaired, call Ecology Water Resources Program 360-407-6872. Persons with impaired hearing may call Washington Relay Service at 711. Persons with speech disability may call TTY at 877-833-6341.*

12. CERTIFICATION

I certify to the best of my knowledge that the information in this application is true, complete, and correct and that I am legally authorized to sign and submit this information on behalf of the applicant.

James C. Carmody	
PRINT NAME	SIGNATURE
Legal Counsel for Jones LID #1	9/16/2015
TITLE	DATE

13. Send original, including attached sheets, maps, copies of water rights, and other supporting documents, to:

Department of Ecology
Water Resources Program
PO Box 47600
Olympia, WA 98504-7600
ATTN: Rebecca Inman

ECY 070-176 *(07/2015) To request ADA accommodation including materials in a format for the visually impaired, call Ecology Water Resources Program 360-407-6872. Persons with impaired hearing may call Washington Relay Service at 711. Persons with speech disability may call TTY at 877-833-6341.*

JONES LOCAL IMPROVEMENT DISTRICT NO. 1

DROUGHT RELIEF GRANT APPLICATION

INDEX TO ATTACHMENTS

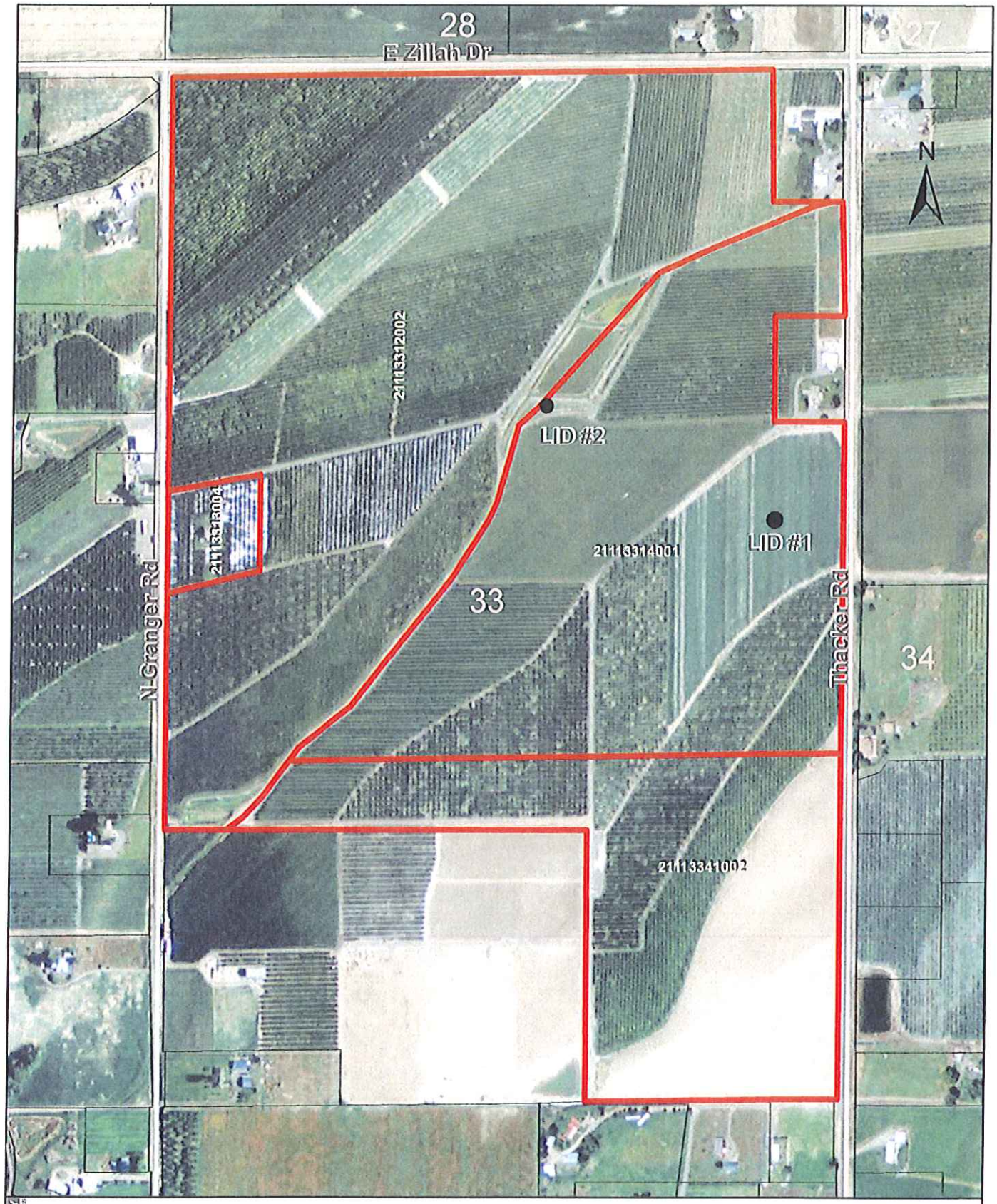
Attachment	Description
Attachment A:	Aerial Photograph with Well Location and Jones LID Boundaries
Attachment B:	Department of Ecology – AMENDED Emergency Drought Authorization No. G4-34961-15
Attachment C:	Construction Cost Estimates – Jones LID #1
Attachment D:	Narrative for 2015 Estimated Potential Financial Losses As a Result of Drought
Attachment E:	Irrigation Infrastructure Improvement Costs
Attachment F:	Order and Determination by the Director
Attachment G:	Supplemental Narrative
Attachment H:	Photographs

ATTACHMENT A

JONES LOCAL IMPROVEMENT DISTRICT NO. 1

DROUGHT RELIEF GRANT APPLICATION

Jones Local Improvement District No. 1 Well Location and District Boundaries. The properties are situate in Yakima County, Washington and include APN 211133-41002 and 14001.



Jones LID's

Place of use for Emergency Drought Permit Authorization No. G4-34961-15

Yakimap.com

Copyright (2015) Yakima County GIS
This map was derived from several databases. The County cannot accept responsibility for any errors. Therefore there are no warranties for this product.

YAKIMA COUNTY GEOGRAPHIC INFORMATION SYSTEMS

ATTACHMENT B

JONES LOCAL IMPROVEMENT DISTRICT NO. 1
DROUGHT RELIEF GRANT APPLICATION

Department of Ecology – AMENDED Emergency Drought Authorization NO. G4-34961-15.

ATTACHMENT B

JONES LOCAL IMPROVEMENT DISTRICT NO. 1
DROUGHT RELIEF GRANT APPLICATION

Department of Ecology – AMENDED Emergency Drought Authorization NO. G4-34961-15.

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
1250 W Alder St • Union Gap, WA 98903-0009 • (509) 575-2490

Will and Barbara Jones
2020 Thacker Rd.
Granger, WA 98932

Re: AMENDED Emergency Drought Authorization No. G4-34961-15

Well construction provisions issued on July 1, 2015 are hereby rescinded and replaced in this amendment.

In accordance with the provisions of RCW 43.83B.405, on March 17, 2015, the Director of the Department of Ecology (Ecology) ordered and determined that the Yakima Basin is under drought conditions. Pursuant to WAC 173-166-070, Ecology is issuing this EMERGENCY DROUGHT AUTHORIZATION. The intent of this authorization is to alleviate hardships and reduce the burdens on water users arising from the drought conditions.

THIS AUTHORIZATION SHALL IN NO MANNER BE CONSTRUED TO GUARANTEE OR IMPLY THAT A FINAL (REGULAR) PERMIT WILL ISSUE FOR THE FUTURE USE OF WATER HEREIN AUTHORIZED.

The terms of your authorization are as follows:

Total Quantity in acre-feet:	163.1
Well Locations:	2 wells within the NE¼ of Section 33, T. 11 N., R. 21 E.W.M.
Place of Use:	169.9 acres within the NE¼ and the N½N½N½SE¼, and the NE¼SE¼ of Section 33, Section 33, T. 11 N., R. 21 E.W.M.
Parcels:	21113312002, 21113311002, 21113313004, 21113341002, 21113311004, and 21113314001

This Temporary Emergency Drought Authorization expires December 31, 2015.

Provisions:

Use of water under this authorization is contingent upon the applicant's entry into and compliance with a cost-share agreement (Agreement) with Ecology. Failure to comply with the terms of the Agreement will result in cancellation of this authorization.

An approved measuring device must be installed and maintained for each of the sources identified in this temporary authorization in accordance with the rule "Requirements for Measuring and Reporting Water Use", WAC 173-173, which describes the requirements for data accuracy, device installation and operation, and information reporting.

Every two weeks, readings of the flow meter shall be recorded and maintained by the applicant. These readings shall be documented by time, date, withdrawal rate, and cumulative amount withdrawn. Copies of these records shall be submitted to Ecology by November 15, 2015.

Department of Ecology personnel, upon presentation of proper credentials, shall have access at reasonable times, to the project location, and to inspect at reasonable times, records of water use, wells, diversions, measuring devices and associated distribution systems for compliance with this authorization.

Water may be used under this authorization only in relation to previously established activity as defined by Chapter 173.166 WAC. This authorization only authorizes a supplemental water supply to the applicant's normal source of water.

This authorization may be terminated, in whole or in part, whenever withdrawals conflict with the flows protected by RCW 43.83B.410(1)(a)(iii), or whenever the provisions of this authorization are violated.

All wells constructed in the state shall meet the "Minimum Standards for the Construction and Maintenance of Wells" (WAC 173-160) and "Water Well Construction" (RCW 18.104). In general, wells shall be located at least 100 feet from sources of contamination and at least 1,000 feet of the boundary of a solid waste landfill. Any well which is unusable, abandoned, or is an environmental, safety, or public health hazard shall be decommissioned.

Wells to be used under this emergency authorization are to be constructed in the Ellensburg Aquifer/Upper Saddle Mountians basalts (above the Pomona Basalt unit). The wells must be cased (unperforated) to at **least 350 feet** below the ground surface.

The wells shall terminate at or above a depth corresponding to the top of the Pomona Basalt Flow member of the Saddle Mountains Formation, which should be encountered at a depth of approximately 750 feet below the ground surface.

The **driller shall collect and retain cuttings** starting at 350 feet below the ground surface and every 10 feet thereafter and at significant changes in lithology. The depth each sample is taken from shall be recorded with the sample. The samples may be dropped off at Ecology's Central Regional Office, or Ecology staff may pick up the samples during, or at the conclusion of drilling. For scheduling pick up or other questions, please call Kelsey Collins at (509) 575-2640.

YOUR RIGHT TO APPEAL

You have a right to appeal this decision to the Pollution Control Hearings Board (PCHB) within 30 days of the date of receipt of this decision. The appeal process is governed by Chapter 43.21B RCW and Chapter 371-08 WAC. "Date of receipt" is defined in RCW 43.21B.001(2).
To appeal you must do the following within 30 days of the date of receipt of this decision:

- File your appeal and a copy of this decision with the PCHB (see addresses below). Filing means actual receipt by the PCHB during regular business hours.
- Serve a copy of your appeal and this decision on Ecology in paper form - by mail or in person. (See addresses below.) E-mail is not accepted.

You must also comply with other applicable requirements in Chapter 43.21B RCW and Chapter 371-08 WAC.

ADDRESS AND LOCATION INFORMATION

Street Addresses	Mailing Addresses
Department of Ecology Attn: Appeals Processing Desk 300 Desmond Drive SE Lacey, WA 98503	**Department of Ecology** Attn: Appeals Processing Desk PO Box 47608 Olympia, WA 98504-7608
Pollution Control Hearings Board 1111 Israel Road SW Ste 301 Tumwater, WA 98501	**Pollution Control Hearings Board** PO Box 40903 Olympia, WA 98504-0903

For additional information visit the Environmental Hearings Office Website: http://www.eho.wa.gov
To find laws and agency rules visit the Washington State Legislature Website: http://www.leg.wa.gov/CodeReviser

Signed at Yakima, Washington, this 14 day of July 2015.

Sage Park, Section Manager
Water Resources Program
Central Regional Office

SP:KC:JR
150706/WRTS: 6663865

Enclosures: Your Right To Be Heard
Flow Meter Requirements

ATTACHMENT C

JONES LOCAL IMPROVEMENT DISTRICT NO. 1
DROUGHT RELIEF GRANT APPLICATION

Jones LID #1 Costs Estimate for Developing Irrigation Well

Jones LID #1 Costs Estimate for Developing Irrigation Well
(as of 9/10/2015)

Description of Cost	***Total Cost***
Person Pump & Well Drilling, Well Drilling	$371,760.00
Layne Pump, Well Pump Testing	$12,500.00
Layne Pump, Turbine Pump Including Installation	$34,725.00
Cascade Windmachine Sales, Energy Efficient Diesel Motor, Tier 4 Rated	$45,000.00
Hauff Company, De Ran Gear Head	$6,850.00
Co Energy, Double Wall Fuel Tank	$6,330.00
Rathbun Iron Works, Hookup Manifold	$1,712.38
RH Irrigation, Flow Meter, Well Pad & Connection into Irrigation System	$29,377.80
Reynaldo's Construction, Security Fencing	$2,700.00
Estimated DOE Mitigation Water Purchase	$11,000.00
Estimated Administrative Costs	$12,500.00
Sales Tax @ 7.9%	$41,352.96
Total Estimated Cost	***$575,808.14***

ATTACHMENT D

JONES LOCAL IMPROVEMENT DISTRICT NO. 1
DROUGHT RELIEF GRANT APPLICATION

Narrative for 2015 Estimated Potential Financial Losses as a Result of Drought.

Narrative for 2015 Estimated Potential Financial Losses as a Result of Drought

Attached are calculations for annual crop losses for harvested crops to date as a result of the drought. Also attached is an Analysis of the Replacement Costs of our orchards if we sustain tree damage and/or tree death as a result of the trees going into the winter dehydrated with dry soils.

As of the date of this application we have harvested a little over half of our 2015 crops with most of the apples yet to be harvested. It would be very difficult and speculative to quantify the annual crop losses on unharvested crops. As a result of the drought the general trend for the harvested crops to date has been, lower yields, smaller fruit and produce size, and fruit and produce quality (packouts) have been poorer. Total Estimated Potential Financial Loss for harvested crops is $529,444.19. Estimated Potential Financial Loss for Replacement of orchards would be $10,385,000 (rounded).

Organic Cherries

We raise 10 different varieties of Dark Sweet Cherries including Bing, Van Sylvia, Chelan, Index, Lapin, Attica, Index, Benton, and Tieton. We also raise Light Sweet Cherries including Rainiers, Early Robins, and Royal Anns. All Cherries were smaller in 2015 except for the early harvested varieties. The irrigation water being shut off for three weeks seemed to affect the later maturing cherry varieties more than the early harvested varieties. Our percent of packed fruit for 2015 Dark Sweet Cherries was 7.20% lower and 5.30% lower for Light Sweet Cherries in 2015 as compared to 2014. The additional cullage was mostly the result of shrivel and smaller fruit size. In addition we harvested 20.43 tons of Rainier Cherries that went direct to processing because of small fruit size. Total production was only down a few tons from 2014. 2015 production should have been higher because of the number of young blocks that are still growing and have not reached full production.

Attached is an Analysis of the Estimated Potential Financial Loss for Organic Cherries which is estimated to be $252,505.67 for 2015. The estimated loss calculation is for the increased cullage only.

Organic Bartlett Pears

Organic Bartlett Pears size was much smaller in 2015 as compared to 2014. Since we are organic we harvest our pears into two bins; fresh pack and processor. In 2015 only 50% of our pears were fresh packed as compared to 85% in 2014. The smaller pear size resulted in 60 less bins of production (takes more small size fruit to fill a bin than large fruit).

Attached is an Analysis of the Estimated Potential Financial Loss for Organic Pears which is estimated to be $107,919.56 for 2015. The estimated loss calculation is for the increased cullage and lower production as compared to 2014.

Organic Ginger Gold Apples

Organic Ginger Gold Apple size was smaller in 2015 as compared to 2014. Premium apples sizes are 88's and larger. Our 2015 Organic Ginger Gold Apples packed 8.66% less apples in the premium sizes as compared to 2014.The smaller size also relates to lower production. Since we are organic we harvest our apples into two bins; fresh pack and processor. In 2015 only 79% of our Ginger Gold Apples were harvested for fresh pack as compared to 89% in 2014. The smaller size is also the reason for 32 less bins of production.

Attached is an Analysis of the Estimated Potential Financial Loss for Organic Ginger Gold Apples which is estimated to be $25,270.96 for 2015. The estimated loss calculation is for the increased cullage and lower production as compared to 2014.

Peaches

We raise fifteen different varieties of Peaches. All of our Peaches are field packed and direct marketed. We have no market for small Peaches and they are culled in the field. In 2015 we harvested 1,363 less boxes of Peaches as compared to 2014. The lower production is the result of small unpackable fruit.
Attached is an Analysis of the Estimated Potential Financial Loss for Peaches which is estimated to be $20,445.00 for 2015. The estimated loss calculation is for the smaller fruit size and lower production as compared to 2014.

Nectarines

We raise four different varieties of Nectarines. All of our Nectarines are field packed and direct marketed. We have no market for small Nectarines and they are culled in the field. In 2015 we harvested 2,003 less boxes of Nectarines as compared to 2014. The lower production is the result of small unpackable fruit.
Attached is an Analysis of the Estimated Potential Financial Loss for Nectarines which is estimated to be $32,048.00 for 2015. The estimated loss calculation is for the smaller fruit size and lower production as compared to 2014.

Tomatoes

We raise five different types of tomatoes including Cherry, Grape, Strawberry, Roma, and Slicing. All of our tomatoes are field packed and direct marketed. We have completed harvest on 10 acres of early tomatoes. Tomato size was small with higher than normal cullage due to sunburn. Our average yield for 10 acres of 2015 tomatoes was 869 field packed boxes per acre. Our average production for 2014 tomatoes was 1,210 field packed boxes per acre or a reduction of 341 boxes per acre.
Attached is an Analysis of the Estimated Potential Financial Loss for harvested Tomatoes which is $52,855.00 for 2015. The estimated loss calculation is for the smaller fruit size and cullage as compared to 2014.

Sweet Corn

In the spring we plant three acres of sweet corn every five days. In a normal year that provides a constant supply of sweet corn for direct marketing through our fruit stand and to wholesale customers. In 2015 Roza Irrigation District discontinued irrigation deliveries for three weeks in May. With no irrigation water, four of our plantings all matured at the same time and had to be disked. In 2014 sweet corn yields were 20 bins per acre and we are currently selling Sweet Corn for $160.00 per bin.
Attached is an Analysis of the Estimated Potential Financial Loss for unharvested Sweet Corn because of over maturity. The 2015 loss is estimated to be$38,400.00.

Summary of Estimated Potential Financial Loss
2015 Harvested Crops Only

2015 Harvested Crops	*Estimated Loss*
Organic Cherries	-$252,505.67
Organic Bartlett Pears	-$107,919.56
Organic Ginger Gold Apples	-$25,270.96
Peaches	-$20,445.00
Nectarines	-$32,048.00
Tomatoes	-$52,855.00
Sweet Corn	-$38,400.00
Total Estimated Loss Harvested Crops Only	*-$529,444.19*

Estimated Potential Financial Loss to Planted Orchards
Current Replacement Costs

Orchard Description	*Acres*	*Est. Replacement Cost/Ac.*	*Totals*
Low Density Organic Orchards	52.26	$30,000	$1,567,800
Medium Density Orchards	43.91	$37,500	$1,646,625
High Density Orchards	159.34	$45,000	$7,170,300
Totals	*255.51*	*$40,643*	*$10,384,725*

Estimated Potential Financial Loss 2015 Organic Cherries

Organic Dark Sweet Cherry 2014 and 2015 Production, Packout, and Price Comparison

	2,015	*2,014*	*Diff.*
Production (Tons)	410.49	407.17	3.32
Packout (%)	82.60%	89.80%	-7.20%
Price ($/Ton)	$4,250.40	$4,084.65	$165.75
Additional Tons of Culls			29.56

Estimated Potential Financial Loss 2015 Dark Sweet Cherries

Additional Tons of Culls	29.56
2015 Price/Ton	$4,250.40
Dark Sweet Cherry Loss due to Increased Cullage	$125,641.82

Organic Light Sweet Cherry 2014 and 2015 Production, Packout, and Price Comparison

	2,015	*2,014*	*Diff.*
Production (Tons)	64.40	69.62	-5.22
Packout (%)	78.20%	83.50%	-5.30%
Price ($/Ton)	$5,321.47	$6,476.06	-$1,154.59
Additional Tons of Culls			3.41

Estimated Potential Financial Loss 2015 Light Sweet Cherries

Additional Tons of Culls	3.41
2015 Price/Ton	$5,321.47
Light Sweet Cherry Loss due to Increased Cullage	$18,146.21

Estimated Potential Financial Loss 2015 Light Sweet Cherries Direct to Processing

Tons Direct to Processing	20.43
2015 Price/Ton	5321.47
Light Sweet Cherry Loss Direct to Processing	$108,717.63

Estimated Potential Financial Loss Total 2015 Organic Cherries $252,505.67

Estimated Potential Financial Loss 2015 Organic Bartlett Pears

Organic Bartlett Pear 2014 and 2015 Production and Packed Fruit vs. Processor Fruit

	Bins		
	2015	*2014*	*Bin Diff.*
Fresh Pack	314	582	-268
Processor	314	106	208
Totals	*628*	*688*	*-60*

Organic Bartlett Pear 2014 and 2015 Fruit Size Comparison

Fruit Size	*2015*	*2014*	*% Diff.*
42	0.00%	1.57%	-1.57%
48	3.32%	4.99%	-1.67%
54	7.14%	8.22%	-1.08%
60	8.55%	6.45%	2.10%
70	2.31%	0.87%	1.44%
80	5.09%	6.88%	-1.79%
90	14.78%	12.05%	2.73%
100	19.09%	18.71%	0.38%
110	16.31%	14.79%	1.52%
2 1/8"	23.41%	25.48%	-2.07%
Totals	100.00%	100.01%	-0.01%

Estimated Potential Financial Loss 2015

	2015 Crop			*2014 Crop*			
	Bins	*$/Bin*	*$ Income*	*Bins*	*$/Bin*	*$ Income*	*$ Difference*
Fresh Pack	314	$596.87	$187,417.18	582	$596.87	$347,378.34	-$159,961.16
Processor	314	$250.20	$78,562.80	106	$250.20	$26,521.20	$52,041.60
Totals	*628*	*$423.54*	*$265,979.98*	*688*	*$543.46*	*$373,899.54*	*-$107,919.56*

Estimated Potential Financial Loss 2015 Organic Ginger Gold Apples

Organic Ginger Gold Apples 2014 and 2015 Production and Packed Fruit vs. Processor Fruit

	Bins		
	2015	*2014*	*Bin Diff.*
Fresh Pack	380	456	-76
Processor	103	59	44
Totals	*483*	*515*	*-32*

Organic Ginger Gold Apples 2014 and 2015 Fruit Size Comparison

Fruit Size	*2015*	*2014*	*% Diff.*	
36	0.00%	0.07%	-0.07%	
48	0.07%	0.80%	-0.73%	
56	0.73%	2.53%	-1.80%	
64	2.57%	5.23%	-2.66%	
72	5.30%	7.57%	-2.27%	
80	8.20%	9.43%	-1.23%	
88	12.80%	12.70%	0.10%	-8.66%
100	17.70%	15.78%	1.92%	
113	16.03%	14.07%	1.96%	
125	12.77%	11.03%	1.74%	
138	9.20%	8.10%	1.10%	
150	5.80%	5.10%	0.70%	
163	3.60%	3.23%	0.37%	
175	2.73%	2.47%	0.26%	
198	1.63%	1.30%	0.33%	
216	0.83%	0.60%	0.23%	
Totals	99.96%	100.01%	-0.05%	

Estimated Potential Financial Loss 2015

	2015 Crop			*2014 Crop*			
	Bins	*$/Bin*	*$ Income*	*Bins*	*$/Bin*	*$ Income*	*$ Difference*
Fresh Pack	380	$443.74	$168,621.20	456	$443.74	$202,345.44	-$33,724.24
Processor	103	$192.12	$19,788.36	59	$192.12	$11,335.08	$8,453.28
Totals	*483*	*$390.08*	*$188,409.56*	*515*	*$414.91*	*$213,680.52*	*-$25,270.96*

Estimated Potential Financial Loss 2015 Peaches

Peach 2014 and 2015 Production Comparison

	Field Packed Boxes		
Variety	*2,015*	*2,014*	*Box Diff.*
Suncrest	1,170	1,392	-222
Snow Giant	447	388	59
Red Globe	928	1,534	-606
Crest Haven	949	1,171	-222
Angelus	1,422	1,447	-25
Elberta #1	1,191	1,695	-504
O'Henry	1,710	1,488	222
Flavor Crest	1,297	1,268	29
Regina	1,030	1,378	-348
Red Star	1,292	1,623	-331
Coral Star	1,221	1,260	-39
Elegant Lady	1,399	1,010	389
Elberta #2	1,310	1,555	-245
Pretty Lady	1,550	1,309	241
Ryan Sun	1,755	1,516	239
Totals	*18,671*	*20,034*	*-1,363*

Estimated Potential Financial Loss 2015

Field Packed Boxes		
Less Boxes	*$/Box*	*$ Loss*
1,363	$15.00	$20,445.00

Estimated Potential Financial Loss 2015 Nectarines

Nectarines 2014 and 2015 Production Comparison

	Field Packed Boxes		
Variety	*2,015*	*2,014*	*Box Diff.*
Western Sweet	1,027	1,190	-163
Washington Pride	721	1,547	-826
Summer Blush	1,056	1,648	-592
Fantasia	1,072	1,494	-422
Totals	*3,876*	*5,879*	*-2,003*

Estimated Potential Financial Loss 2015

Field Packed Boxes		
Less Boxes	*$/Box*	*$ Loss*
2,003	$16.00	$32,048.00

Estimated Potential Financial Loss 2015 Tomatoes

Tomato 2014 vs. 2015 Production

	Field Packed Boxes		
	2015	*2014*	*Box Diff.*
Average Yields	869	1,210	-341

Estimated Potential Financial Loss 2015

	2015 Crop			*2014 Crop*			
	Boxes/Ac.	*$/Box*	*$ Income*	*Boxes/Ac.*	*$/Box*	*$ Income/Ac.*	*$ Difference*
Fresh Pack	869	$15.50	$13,469.50	1,210	$15.50	$18,755.00	-$5,285.50
10 Acres Planted 2015							*-$52,855.00*

Estimated Potential Financial Loss 2015 Sweet Corn

Estimated Potential Financial Loss 2015

Acres Lost	*Bins/Ac.*	*$/Bin*	*Total $ Loss*
12.00	20.00	$160.00	$38,400.00

ATTACHMENT E

JONES LOCAL IMPROVEMENT DISTRICT NO. 1

DROUGHT RELIEF GRANT APPLICATION

Irrigation Infrastructure Improvements.

FAMILY FARMS
SUMMARY BY YEAR

	2015	2014	2013	2012	2011	2010	2009	2008	2007	TOTAL
IRRIGATION SYSTEMS	1,055,358	276,192	105,076		12,702		97,896	60,357	10,587	1,618,168
RH IRRIGATION NON CAP EXPENSES		173	906	2,193				14,425	162	17,859
WILSON NON CAP EXPENSES	38,103	9,190	12,668	8,047	2,847	2,806	2,549	6,027	8,411	90,649
EXTENDAY SHADE CLOTH	38,810									38,810
SHADE CLOTH INSTALLATION	20,734									20,734
IRRIGATION EXPENSE BY YEAR	**1,153,005**	**285,555**	**118,650**	**10,240**	**15,549**	**2,806**	**100,445**	**80,809**	**19,160**	**1,786,220**
PERCENTAGE OF TOTAL	**64.55%**	**15.99%**	**6.64%**	**0.57%**	**0.87%**	**0.16%**	**5.62%**	**4.52%**	**1.07%**	**100.00%**

FAMILY FARMS
Transactions by Account
As of September 15, 2015

FAMILY FARMS
1550 · IRRIGATION SYSTEMS

Type	Date	Num	Name	Memo	Original Amount	Balance
Check	03/28/2007	10485	CLEARWATER SUPPLY INC.	NRCS DRIP SYSTEM	10,586.94	10,586.94
Check	04/09/2008	12612	UNITED PIPE & SUPPLY	SPRINKLERS	28,379.11	
Check	04/09/2008	12630	CLEARWATER SUPPLY INC.	NRCS DRIP SYSTEM	8,527.97	
Check	04/23/2008	12709	UNITED PIPE & SUPPLY	SPRINKLERS	2,440.94	
Check	05/12/2008	12870	CLEARWATER SUPPLY INC.	NRCS DRIP SYSTEM	3,524.26	
Check	05/12/2008	12879	UNITED PIPE & SUPPLY	SPRINKLERS	3,201.23	
Check	08/05/2008	13733	HUTCHINSON ELECTRIC	IRRIGATION SYSTEM	12,384.36	
Check	11/25/2008	14603	HUTCHINSON ELECTRIC	IRRIGATION SYSTEM	1,898.71	60,356.58
Check	04/09/2009	15107	CLEARWATER SUPPLY INC.	IRRIGATION SYSTEMS	8,361.99	
Check	04/23/2009	15191	UNITED PIPE & SUPPLY	IRR SPRINKLERS	4,790.92	
Check	04/27/2009	1270		IRRIGATION	7,000.00	
Check	04/27/2009	1297		IRRIGATION	46,237.02	
Check	05/05/2009	2300	UNITED PIPE & SUPPLY	SPRINKLERS	4,165.95	
Check	05/20/2009	15420	CLEARWATER SUPPLY INC.	Overhead and drip	22,718.23	
Check	05/20/2009	15421	UNITED PIPE & SUPPLY	SPRINKLERS	689.49	
Check	06/02/2009	15473	RH IRRIGATION	IRRIGATION SYSTEM INSTALL	3,932.62	97,896.42
Check	12/07/2011	21458	RICK POULIN WELL DRILLING INC	WELL	12,701.99	12,701.99
Check	05/28/2013	25062	RH IRRIGATION	NEW IRRIGATION SYSTEM	35,417.24	
Check	10/03/2013	26255	RH IRRIGATION	INSTALL OVERHEAD SPRINKLER SYSTEM &	4,094.81	
Check	11/04/2013	26409	MORTON SUPPLY	SUPPLIES FOR NEW SPRINKLER SYSTEM IN	45,668.47	
Check	12/09/2013	26501	RH IRRIGATION	INSTALL IRRIGATION SYSTEM	19,895.10	105,075.62
Check	01/08/2014	26581	MARNEY ELECTRIC, LLC	NEW SPRINKLER SYSTEM	3,234.84	
Check	04/23/2014	27144	CLEARWATER SUPPLY INC.	SPRINKLERS AND DRIP	21,710.08	
Check	05/06/2014	27242	WILSON IRRIGATION	CHERRY SPRINKLER SYSTEM SUPPLIES	4,023.64	
Check	05/19/2014	3293	RH IRRIGATION	IRRIGATION SYSTEM/ 250	15,000.00	
Check	06/18/2014	27683	WILSON IRRIGATION	IRRIGATION DRIP	6,096.29	
Check	06/18/2014	27716	RH IRRIGATION	IRRIGATION SYSTEM AND INSTALL	53,320.46	
Check	07/18/2014	3497	BLEYHLS FARM SERVICE	IRRIGATION EQUIPMENT	24,805.35	
Check	08/13/2014	28359	WILSON IRRIGATION	IRRIGATION PARTS	1,487.83	
Check	11/24/2014	29085	RH IRRIGATION	IRRIGATION SYSTEMS FOR NEW SYSTEMS	144,985.81	
Check	12/02/2014	29161	SUNNYSIDE NEW HOLLAND LLC	PUMP REPAIRS	1,527.09	276,192.39
Check	01/20/2015	29339	YAKIMA VALLEY CONSTRUCTION	WATER STORAGE AND FILTERING POND	54,137.50	
Check	01/20/2015	29340	RH IRRIGATION	WATER STORAGE AND FILTERING POND	178,035.00	
Check	02/17/2015	29428	YAKIMA VALLEY CONSTRUCTION	POND #2	50,934.20	
Check	03/13/2015	29580	WILSON IRRIGATION	IRRIGATION SUPPLIES	527.30	
Check	03/15/2015		PRESTON	POND EQUIPMENT	20,000.00	
Check	03/15/2015		JOEL SCHAN	POND EQUIPMENT	4,000.00	
Check	04/09/2015	29792	RH IRRIGATION	2 POND LINERS & LABOR	116,467.89	
Check	05/07/2015	30049	RATHBUN IRON WORKS	IRRIGATION SYSTEMS WORK	11,233.54	
Check	05/07/2015	30063	CLEARWATER SUPPLY INC.	IRRIGATION SYSTEMS	31,210.53	
Check	05/28/2015	30295	RH IRRIGATION	IRRIGATION SYSTEMS	175,000.00	
Check	06/10/2015	30341	RATHBUN IRON WORKS	IRRIGATION SYSTEMS	7,275.81	
Check	06/29/2015	3727	DEPARTMENT OF ECOLOGY	JONES FARMS LID	11,563.00	
Check	07/07/2015	30993	MORTON SUPPLY	IRRIGATION PARTS AND SUPPLIES	9,798.65	

FAMILY FARMS
Transactions by Account
As of September 15, 2015

FAMILY FARMS

Type	Date	Num	Name	Memo	Original Amount	Balance
Check	07/22/2015	31167	PERSON PUMP & WELL DRILLING	DROUGHT RELIEF WELL LID JONES	0.00	
Check	07/23/2015	31170	PERSON PUMP & WELL DRILLING	DROUGHT RELIEF WELL LID JONES	35,108.00	
Check	08/05/2015	31202	RH IRRIGATION	DROUGHT RELIEF WELL LID JONES	4,132.57	
Check	08/19/2015	31335	PERSON PUMP & WELL DRILLING	DROUGHT RELIEF WELL LID JONES	2,773.53	
Check	09/02/2015	31613	RH IRRIGATION	DROUGHT RELIEF WELL LID JONES	55,064.76	
Check	09/08/2015	31641	PERSON PUMP & WELL DRILLING	DROUGHT RELIEF WELL LID JONES	0.00	
Check	09/08/2015	31642	PERSON PUMP & WELL DRILLING	DROUGHT RELIEF WELL LID JONES	0.00	
Check	09/08/2015	31644	PERSON PUMP & WELL DRILLING	DROUGHT RELIEF WELL LID JONES	148,790.76	
Check	09/09/2015	31645	PERSON PUMP & WELL DRILLING	DROUGHT RELIEF WELL LID JONES	138,305.14	1,055,358.18
				TOTAL ALL YEARS FROM 2007		1,618,168.12

FAMILY FARMS

RH IRRIGATION

Type	Date	Num	Split	Expense	TOTALS
Check	07/27/2007	11375	6300 · Repairs	161.85	
					161.85
Check	03/25/2008	12558	6300 · Repairs	108.00	
Check	05/14/2008	12898	6165 · CUSTOM HIRE	5,000.00	
Check	06/10/2008	13041	6165 · CUSTOM HIRE	9,317.48	
					14,425.48
Check	10/05/2012	2919	6300 · Repairs	1,803.53	
Check	12/06/2012	24140	6300 · Repairs	389.52	
					2,193.05
Check	08/07/2013	25859	6300 · Repairs	906.36	
					906.36
Check	11/18/2014	29080	6300 · Repairs	86.32	
Check	11/21/2014	3618	6300 · Repairs	86.32	
					172.64
			Non capital expenditures		17,859.38

FAMILY FARMS

WILSON IRRIGATION

Type	Date	Num	Split	AMOUNT	BALANCE
Check	04/11/2007	10580	6300 · Repairs	579.49	
Check	05/04/2007	10772	6800 · Supplies	1,140.15	
Check	07/11/2007	11223	6800 · Supplies	307.30	
Check	08/09/2007	11484	6800 · Supplies	616.29	
Check	08/28/2007	2012	6800 · Supplies	5,708.53	
Check	10/03/2007	11974	6800 · Supplies	59.72	8,411.48
Check	03/11/2008	12485	6800 · Supplies	110.90	
Check	04/09/2008	12638	6300 · Repairs	127.45	
Check	04/09/2008	12639	6800 · Supplies	917.13	
Check	05/12/2008	12892	6800 · Supplies	206.38	
Check	05/12/2008	12893	6800 · Supplies	803.34	
Check	06/03/2008	12950	6300 · Repairs	153.67	
Check	07/24/2008	13647	6300 · Repairs	532.24	
Check	08/05/2008	13720	6800 · Supplies	276.26	
Check	08/05/2008	13722	6800 · Supplies	892.80	
Check	09/02/2008	13946	6800 · Supplies	272.77	
Check	09/30/2008	14205	6300 · Repairs	119.71	
Check	12/15/2008	14637	6300 · Repairs	1,517.49	
Check	12/15/2008	14638	6300 · Repairs	96.55	6,026.69
Check	04/09/2009	15110	6300 · Repairs	53.55	
Check	04/09/2009	15111	6300 · Repairs	632.91	
Check	07/28/2009	16266	6300 · Repairs	502.94	
Check	08/18/2009	16502	6300 · Repairs	1,412.74	2,548.59
Check	03/08/2010	17387	6800 · Supplies	22.94	
Check	04/08/2010	17595	6800 · Supplies	944.08	
Check	05/05/2010	17668	6300 · Repairs	723.51	
Check	06/25/2010	18025	6300 · Repairs	978.27	
Check	07/14/2010	18428	6300 · Repairs	41.87	
Check	08/27/2010	2552	6300 · Repairs	51.40	

Check	10/05/2010	18937	6300 · Repairs	43.89	
					2,805.96
Check	02/04/2011	19385	6300 · Repairs	160.57	
Check	03/01/2011	19495	6300 · Repairs	822.41	
Check	03/31/2011	19624	6300 · Repairs	401.76	
Check	05/11/2011	19838	6300 · Repairs	672.75	
Check	06/07/2011	19900	6300 · Repairs	142.09	
Check	07/07/2011	20330	6300 · Repairs	362.28	
Check	08/02/2011	20510	6300 · Repairs	161.62	
Check	08/30/2011	20691	6300 · Repairs	82.44	
Check	09/29/2011	21026	6300 · Repairs	10.77	
Check	10/31/2011	21343	6300 · Repairs	30.73	
					2,847.42
Check	01/12/2012	21577	6800 · Supplies	52.65	
Check	03/06/2012	21821	6800 · Supplies	252.65	
Check	04/03/2012	21904	6800 · Supplies	1,083.19	
Check	04/03/2012	21905	6800 · Supplies	698.37	
Check	05/01/2012	22118	6800 · Supplies	1,600.61	
Check	05/01/2012	22119	6800 · Supplies	364.03	
Check	06/26/2012	22444	6800 · Supplies	1,270.83	
Check	08/01/2012	23157	6800 · Supplies	2,230.99	
Check	09/10/2012	23604	6300 · Repairs	277.83	
Check	10/08/2012	23798	6800 · Supplies	185.46	
Check	10/31/2012	23956	6300 · Repairs	10.45	
Check	12/15/2012	3148	6800 · Supplies	19.98	
					8,047.04
Check	03/05/2013	24480	6300 · Repairs	826.19	
Check	04/03/2013	24605	6800 · Supplies	3,046.97	
Check	05/07/2013	24873	6300 · Repairs	18.26	
Check	05/07/2013	24874	6300 · Repairs	1,990.44	
Check	06/12/2013	25191	6800 · Supplies	4,437.53	
Check	07/10/2013	25628	6800 · Supplies	1,130.78	
Check	08/07/2013	25855	6300 · Repairs	390.38	
Check	09/04/2013	26066	6800 · Supplies	463.00	

Check	10/01/2013	26240	6300 · Repairs	91.11	
Check	11/01/2013	26401	6300 · Repairs	273.63	
					12,668.29
Check	03/13/2014	26844	6300 · Repairs	160.87	
Check	04/08/2014	27022	6300 · Repairs	2,370.07	
Check	04/08/2014	27026	6300 · Repairs	209.65	
Check	05/06/2014	27249	6300 · Repairs	1,028.55	
Check	07/15/2014	28092	6300 · Repairs	3,016.30	
Check	09/10/2014	28570	6470 · Irrigation	1,294.51	
Check	10/07/2014	28772	6800 · Supplies	558.04	
Check	11/04/2014	28980	6300 · Repairs	209.01	
Check	12/02/2014	29148	6300 · Repairs	343.07	
					9,190.07
Check	01/30/2015	29357	6300 · Repairs	195.47	
Check	03/13/2015	29580	6800 · Supplies	1,822.37	
Check	04/03/2015	29747	6800 · Supplies	292.52	
Check	04/14/2015	29798	6800 · Supplies	3,071.51	
Check	05/07/2015	30035	6800 · Supplies	7,249.27	
Check	05/07/2015	30039	6800 · Supplies	1,170.12	
Check	06/10/2015	30323	6800 · Supplies	9,325.74	
Check	06/10/2015	30324	6800 · Supplies	2,171.49	
Check	07/21/2015	31047	6800 · Supplies	7,818.42	
Check	08/07/2015	31205	6300 · Repairs	2,378.94	
Check	09/02/2015	31636	6300 · Repairs	593.02	
Check	09/02/2015	31637	6300 · Repairs	2,014.27	
					38,103.14

TOTAL NON CAPITALIZED EXPENSE 73,661.92

FAMILY FARMS

Type	Date	Num		TOTAL
EXTENDAY USA INC				
Check	06/24/2015	30767	6800 · Supplies	19,878.35
Check	08/07/2015	31209	6800 · Supplies	11,414.43
Check	08/19/2015	31484	6800 · Supplies	7,516.82
				38,809.60

FAMILY FARMS

37 - INSTALL SHADE CLOTH

Type	Date	Num	Name	Amount
Paycheck	07/06/2015	30894	PAYROLL	297.00
Paycheck	07/06/2015	30897	PAYROLL	117.50
Paycheck	07/06/2015	30898	PAYROLL	423.00
Paycheck	07/06/2015	30909	PAYROLL	650.25
Paycheck	07/06/2015	30914	PAYROLL	956.25
Paycheck	07/06/2015	30919	PAYROLL	599.25
Paycheck	07/06/2015	30927	PAYROLL	241.50
Paycheck	07/06/2015	30933	PAYROLL	473.00
Paycheck	07/06/2015	30947	PAYROLL	297.00
Paycheck	07/06/2015	30953	PAYROLL	528.00
Paycheck	07/06/2015	30968	PAYROLL	572.00
Paycheck	07/06/2015	30970	PAYROLL	182.25
Paycheck	07/08/2015	31014	PAYROLL	22.00
Paycheck	07/21/2015	31169	PAYROLL	40.25
Paycheck	07/22/2015	31065	PAYROLL	99.88
Paycheck	07/22/2015	31066	PAYROLL	99.88
Paycheck	07/22/2015	31083	PAYROLL	588.00
Paycheck	07/22/2015	31092	PAYROLL	63.75
Paycheck	07/22/2015	31093	PAYROLL	132.25
Paycheck	07/22/2015	31114	PAYROLL	97.75
Paycheck	07/22/2015	31115	PAYROLL	138.00
Paycheck	07/22/2015	31132	PAYROLL	97.75
Paycheck	07/22/2015	31135	PAYROLL	92.00
Paycheck	08/04/2015	31215	PAYROLL	283.50
Paycheck	08/04/2015	31224	PAYROLL	470.00
Paycheck	08/04/2015	31225	PAYROLL	499.38
Paycheck	08/04/2015	31246	PAYROLL	918.75
Paycheck	08/04/2015	31254	PAYROLL	828.75
Paycheck	08/04/2015	31255	PAYROLL	822.25
Paycheck	08/04/2015	31261	PAYROLL	310.50
Paycheck	08/04/2015	31262	PAYROLL	333.50
Paycheck	08/04/2015	31275	PAYROLL	46.00

	Paycheck	08/04/2015 31276	PAYROLL	46.00
	Paycheck	08/04/2015 31279	PAYROLL	419.75
	Paycheck	08/04/2015 31289	PAYROLL	235.75
	Paycheck	08/04/2015 31301	PAYROLL	638.25
	Paycheck	08/04/2015 31304	PAYROLL	488.75
	Paycheck	08/04/2015 31316	PAYROLL	304.75
	Paycheck	08/04/2015 31321	PAYROLL	533.25
	Paycheck	08/18/2015 31337	PAYROLL	101.25
	Paycheck	08/18/2015 31343	PAYROLL	115.00
	Paycheck	08/18/2015 31348	PAYROLL	505.25
	Paycheck	08/18/2015 31349	PAYROLL	223.25
	Paycheck	08/18/2015 31373	PAYROLL	324.63
	Paycheck	08/18/2015 31378	PAYROLL	962.63
	Paycheck	08/18/2015 31379	PAYROLL	799.25
	Paycheck	08/18/2015 31400	PAYROLL	57.50
	Paycheck	08/18/2015 31416	PAYROLL	799.25
	Paycheck	08/18/2015 31425	PAYROLL	511.75
	Paycheck	08/18/2015 31427	PAYROLL	241.50
	Paycheck	08/18/2015 31430	PAYROLL	799.25
	Paycheck	08/18/2015 31442	PAYROLL	126.50
	Paycheck	08/18/2015 31450	PAYROLL	978.75
	Paycheck	09/01/2015 31529	PAYROLL	108.38
	Paycheck	09/01/2015 31541	PAYROLL	92.00
TOTAL INSTALL SHADE CLOTH DUE TO DROUGHT				20,733.78
TOTAL				**20,733.78**

ATTACHMENT F

JONES LOCAL IMPROVEMENT DISTRICT NO. 1

DROUGHT RELIEF GRANT APPLICATION

Order and Determination By the Director (May 21, 2015)

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
PO Box 47600 • Olympia, WA 98504-7600 • 360-407-6000
711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341

ORDER AND DETERMINATION BY THE DIRECTOR

Washington State is experiencing a drought emergency. We have record-low snowpack in the mountains, and snowmelt through the spring and summer is what traditionally keeps rivers flowing, crops watered, and fish alive. We are starting to feel the pain from this snowpack drought. Impacts are already severe in several areas of the state.

More than 70 percent of the state's snow monitoring stations have record-low snowpack. As a result, many of our major rivers are forecasted to have record-low flows – the lowest in the past 64 years – between April and September. This shortfall is a serious threat to municipal and domestic water supplies, irrigated agriculture, and fisheries throughout Washington.

With the concurrence of Governor Inslee and following consultation with affected Indian Tribes, I hereby expand the drought emergency to include all of Washington State.

Snowpack conditions across the state have continued to decline since the initial regional drought declaration on March 13, 2015. Dozens of major rivers are at record-low flows for this date. The longer-term weather forecast is for warmer and drier-than-normal conditions for this spring and summer. Conditions are likely to get worse.

Reduced snowpack creates risks to municipal and domestic water supplies. The Department of Health has identified numerous water systems throughout the state that draw water from shallow alluvial aquifers, which are dependent on groundwater recharge from snowmelt.

Agriculture faces a risk of crop loss throughout the state. Farmers in the Yakima and the Walla Walla basins are being curtailed, which could have devastating impacts on orchards and vineyards. Curtailment is likely to occur in the Little Spokane, Nooksack, and Chehalis basins, and could occur for the first time ever in the Colville Basin. Loss to perennial crops in these regions would be a significant hardship to individual farmers and agricultural communities.

Throughout the state, there is a high risk that fish populations will experience hardship from extremely low flowing rivers this year. Hatcheries will face warmer water, increased risk of disease, and potential loss of water supply. Tributaries and smaller streams may drop to levels where stream channels become impassible to fish. Pools of water will become disconnected from other pools, isolating fish and increasing the risks of predation and harassment.

Therefore, in accordance with the provisions of RCW 43.83B.405, IT IS ORDERED that all of Washington state is hereby under a drought emergency. This order is effective immediately and shall remain in effect through December 31, 2015, unless terminated prior to that date.

In accordance with the provisions of WAC 173-166-060, the Department of Ecology may, under the terms of this order, take the following emergency actions:

1. Issue emergency permits for water.
2. Approve temporary transfers of water rights.
3. Provide funding assistance to public agencies to alleviate drought conditions.
4. Take other actions depending on future developments.

Other state and local agencies with authority to issue permits or authorizations related to the drought emergency actions must provide a decision to an applicant within fifteen (15) calendar days of the date of application.

In accordance with the proclamation of the Washington Governor, dated January 3, 1989, (Centennial Accord), nothing herein shall impair or infringe upon the treaty reserved rights or governmental authority of any federally recognized Indian tribe nor shall this order be deemed an assertion of state authority over Indian reservation lands. The Department of Ecology intends to work cooperatively, on a government-to-government basis, with all affected tribes.

Further details about this order or the actions available under it, may be obtained by contacting:

Jeff Marti, Department of Ecology
PO Box 47600
Olympia, WA 98504-7600
360-407-6627
Jeff.marti@ecy.wa.gov

Applications for emergency water permits or temporary transfers of water rights are available by contacting one of the Department of Ecology's regional offices:

Northwest Regional Office Bellevue, WA Office: 425-649-7020 Email: arha461@ecy.wa.gov	Central Region Office Yakima, WA Office: 509-575-2597 Email: sueb461@ecy.wa.gov
Southwest Regional Office Lacey, WA Office: 360-407-6859 Email: oday461@ecy.wa.gov	Eastern Regional Office Spokane, WA Office: 509-329-3541 Email: awat461@ecy.wa.gov

DATED this 21st day of May, 2015.

Maia D. Bellon

Maia D. Bellon, Director
Department of Ecology

ATTACHMENT G

JONES LOCAL IMPROVEMENT DISTRICT NO. 1

DROUGHT RELIEF GRANT APPLICATION

Supplemental Narrative

SUPPLEMENTAL NARRATIVE

Grant Applicants:

1. **Grant Applicants – Jones Local Improvement Districts.**

Jones Local Improvement District Nos. 1 and 2 are public bodies recognized under WAC 173-167-030. The LIDs are established within the external boundaries of the parent public entity – Roza Irrigation District and formed pursuant to statutory authority under RCW 87.03.485. Petition for formation of the local improvements district together with supporting documents have been accepted by Roza Irrigation District and public hearing is scheduled for October 6, 2015. The LIDs will be established pursuant to statutory authority following public hearing.

This application is consistent with loan and grant assistance processes to public bodies under prior draught authorizations including assistance under Chapter 1, Laws of 1977 First Extraordinary Session (Emergency Drought Law).[1] The local improvement districts are formed as nonprofit corporations filed with the state of Washington, Secretary of State. Property owners with LID boundaries will provide cash match totaling Fifty Percent (50%) of the total eligible cost of the project. Funds used as match will not originate from any other state or federal funds. *WAC 173-167-040(2)*. Well sites will be contributed by the property owners to the respective LIDs which shall hold fee title to the property location. The LID will operate as a nonprofit corporation providing benefits to agriculture properties within the boundaries established for the Local Improvement District. All costs of operation and maintenance will be the proportionate responsibility of property owners within the LID. The LID will be managed by a Board of Directors representing property owners within the District boundaries.

2. **Application and Compliance with WAC Ch. 173-167.**

The application submitted by Jones Local Improvement District Nos. 1 and 2 are for a water supply project which develops an emergency or alternate water source. WAC 173-167-080. The immediate and emergent need for the proposed project is caused by a reduction in water supply presently causing significant hardships on the agricultural operations within the district causing significant economic impacts. The funding request relates to an existing use under legal rights (including emergency drought authorization for additional wells). The historic use, economic impact and project costs are set forth in detail in the application. Photographs are also provided showing impacts to both permanent and annual crops.

Contracting and work on the wells has begun and time is of the essence. The project can be implemented in a timely manner and is necessary to address serious water issues with respect to

[1] State of Washington addressed draught conditions impacting the agricultural industry in Chapter 1, Laws of 1977 First Extraordinary Session. Loan and grant assistance was offered to public entities for construction of water withdrawal facilities authorized in Sections 3 and 4 of the Emergency Drought Law. Grant and loan assistance was provided only after formation of appropriate LIDs or other public bodies within the external boundaries of a parent public entity (e.g. Irrigation District). The current application and organization structure were based upon prior authorized approaches developed by Department of Ecology in the context of drought assistance loan and grant programs.

the existing crop and protection of permanent crops. The project can and must be implemented within this current drought authorization.

3. Farming History

The Jones Family began farming near Zillah, Washington in 1946. They originally started farming in North Dakota and moved to the Yakima Valley which was considered "the land of opportunity". They began as farm workers and eventually in 1946 they were able to purchase 320 acres of native range land with scattered sagebrush. They cleared the land and soon it blossomed into productive irrigated row cropland where they raised wheat, corn, mint, alfalfa, and sugar beets.

In 1974, brothers Dennis and Will Jones, and their wives each purchased an additional 100 acres of adjoining land. In 2004 they purchased the remainder of the family farm from their parents. All of their land has relatively high elevation with good air drainage and is well suited for tree fruit crops.

Today Jones Farms consists of three families; Dennis and Linda Jones, and Will and Barbara Jones who are third generation farmers, and Denny and Deborah Jones who are fourth generation farmers.

As the generations changed, so did the crops. Today the Jones Families raise a variety of unique high value organic and conventional tree fruit and produce crops. They have approximately 252.94 acres of mostly high density organic orchards consisting of cherries, apples, pears, peaches, and nectarines. Their fruit is packed and marketed all over the world by Allan Brothers Fruit Company and Matson Fruit Company. Most of the apples they raise are ENZA club varieties including Pacific Rose, Jazz, and Envy. They are all proprietary varieties and require the payment of royalties to grow. The current cost to develop a high density tree fruit orchard is $30,000 - $45,000 per acre depending on the variety, conventional or organic, density, type of trellis, and irrigation system. That investment does not include land which has a current market value of $12,000 - $14,000 per acre for irrigated cropland that can be developed to permanent crops.

The Families also grow and direct market fresh produce including tomatoes, sweet corn, water melons, cantaloupe, pumpkins, and squash. In 1991 the Families began Jones Farms Fruit Stand near Zillah. In 2008 they started a second fruit stand in West Yakima and now direct market over 200 acres of fresh produce crops throughout the Pacific Northwest.

Jones Families irrigation water is provided by the Roza Irrigation District. The Roza Irrigation District has a junior water right under the Yakima Irrigation Project and is subject to pro-ration in short irrigation water years. Over the years the Families have invested millions of dollars employing modern farming and irrigation technology to conserve and maximize the use of their irrigation water. They have piped all of their open laterals, installed micro-sprinkler irrigation systems, installed drip irrigation systems in both fruit and annual produce crops, built two large lined irrigation water storage reservoirs, installed sophisticated filtration systems, and utilize shade cloth and anti-transpiration products to grow fruit crops. Without adequate irrigation water

supplies, conservation and efficient management of irrigation water has its limits.

The key to the Families' success has been raising exceptional quality fruit and produce. To maintain their quality standards their crops need a stable source of irrigation water. In July 1992 they filed Application G4-31331 with the Washington State Department of Ecology (DOE) for the construction and development of two irrigation wells. That Application was never acted on by DOE until July 2015.

Due to a warm winter and the lack of snow pack in 2014 - 2015 the DOE declared a Drought Emergency. For the Families, 2015 has been the most challenging farming year ever with the Roza Irrigation District only able to deliver 46% of their normal irrigation water supply. Roza also shut down irrigation deliveries for three weeks in May to conserve irrigation water for permanent crops later in the growing season and are scheduled to have an early shut off date.

The Families have been behind on irrigating their 2015 crops all season because of reduced irrigation water supplies. They have had to take irrigation water from young non-bearing trees to support growing crops. As a result, young tree growth has been poor and some of their 2015 plantings have numerous dead trees. They have lost at least one year of tree growth on young trees and future production will be delayed as a result of the drought. Some of their mature orchards show signs of drought stress and have begun to defoliate. Some of their cherry trees are blooming in September which is highly unusual and of great concern as to the long term effects of the drought. The opportunity costs associated with lost tree growth and delayed production is very real; but difficult to quantify. Insect pests and weeds have also been more prevalent this year on all crops because of the drought.

The 2015 harvest has been completed on only a few produce and tree fruit crops to date. In general, yields have been lower, fruit and produce size has been smaller, and fruit and produce quality has been poorer as a result of the drought.

In July 2015 the DOE authorized the Jones Families to construction and development two irrigation wells under Emergency Drought Authorization No. G4-34961-15. After a lot of sleepless nights and consideration the Families decided to invest over $1,000,000 and construct and develop two irrigation wells. Long term, the Jones Families plan to purchase mitigation water and/or supplemental irrigation water rights when needed in short irrigation water years. The Families don't feel they have a choice and need to develop additional sources of stable irrigation water since their future success depends on raising quality fruit and produce crops.

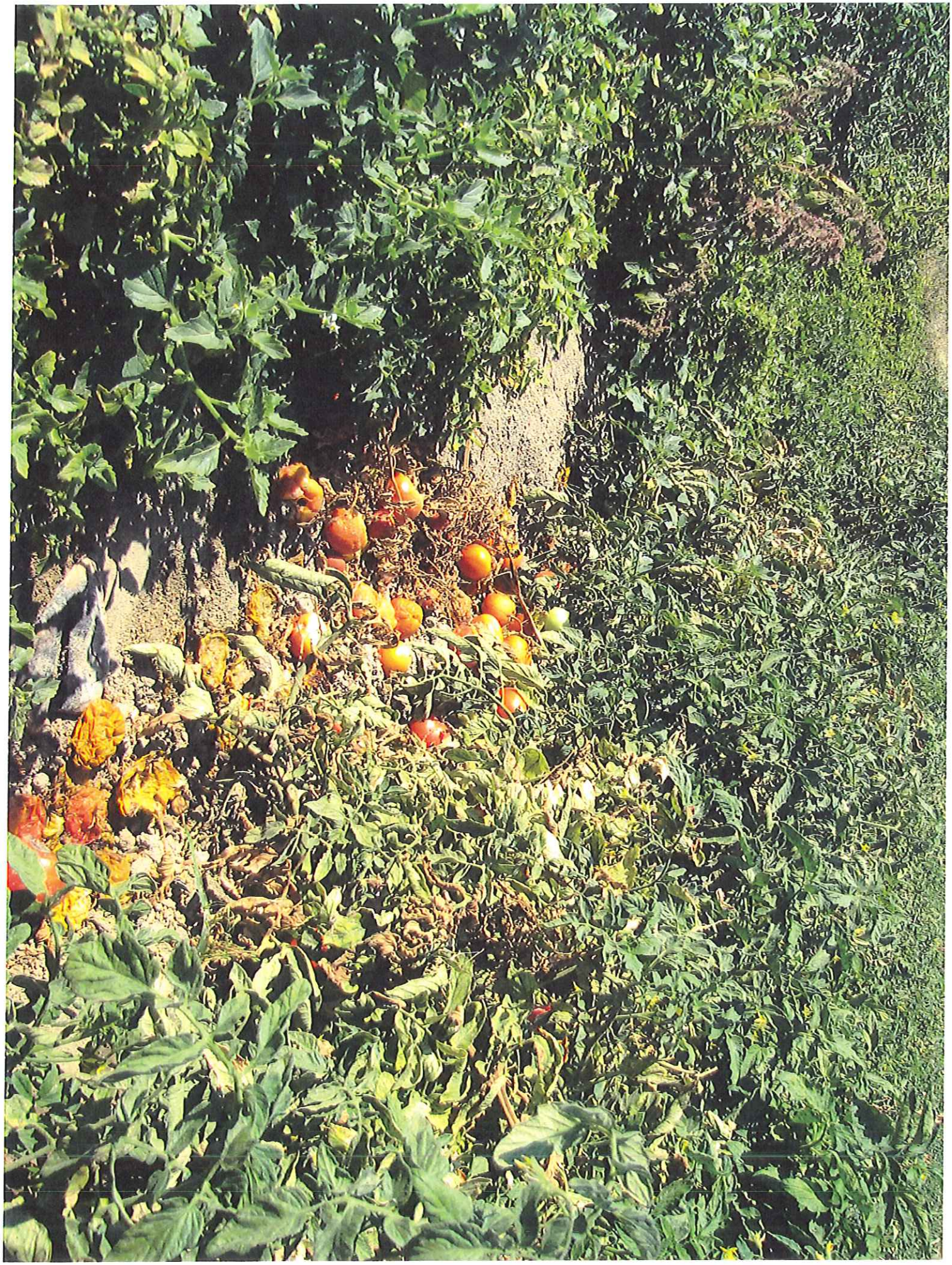
The Families began drilling the first well in late July. The well is about complete and the second well will be completed by early October. The startup of the wells will coincide with the Roza Irrigation District's shut off which is scheduled to be a month early this year. At this time the Families greatest concern and risk is the lack of fall irrigation water for their orchards. Fruit trees going into the winter dehydrated with dry soils are much more susceptible to permanent winter damage or death; especially young trees. Current replacement costs of their orchards is estimated to be over $10,000,000 which does not include any opportunity costs for lost production.

ATTACHMENT H

JONES LOCAL IMPROVEMENT DISTRICT NO. 1

DROUGHT RELIEF GRANT APPLICATION

Color Photographs



DEPARTMENT OF ECOLOGY
State of Washington

DROUGHT RELIEF GRANT APPLICATION

Ecology Use Only

Application Number						
D2015	3	6	A	-	C	R

Date

The information provided in this application will be used to determine general eligibility for funding from the Drought Relief Program, and the priority or ranking of the proposal amongst other competing proposals.

Separate application must be made for any needed emergency drought authorization. Before final approval of grant funding, the applicant must submit copies of all required permits and other authorizations needed for the proposal to Ecology for our review.

1. **Applicant Name(Public Body):** Jones Local Improvement District No. 2			
Address: 2020 Thacker Road	City: Granger	State: WA	Zip: 98932
(a) Authority (State Law): RCW 87.03.480 - .527			
(b) Date Organized: September 8, 2015 (Petition Accepted - Roza Irrigation District)			

2. **Contact Person:** James C. Carmody		Title: Attorney for Jones LID #2	
Address: 230 South 2nd Street	City: Yakima	State: WA	Zip: 98901
Email: carmody@mftlaw.com	Phone #: (509) 575-8500		

3. PROJECT(S) DESCRIPTION

Provide a description of the proposed project(s) and a detailed scope of work. Attach additional sheet(s) if necessary. Attach a map (U.S.G.S. Quad or comparable) showing the geographic location of the proposed project(s).

Jones Local Improvement District No. 1 ("Jones LID #1" or "Applicant") is established to develop an alternative water resource for approximatley 163 acres of irrigable agricultural farmland. The geographic location of the well and local improvement district is attached. Attachment A. The agricultural properties include a variety of organic orchards and produce crops, including apples, cherries, pears, peaches, nectarines, tomatoes and sweet corn. The properties are served by Roza Irrigation District. To mitigate drought conditions, Applicant requests grant funding to construct and develop an irrigation well. The well and water use authority is granted by AMENDED Emergency Drought Authorization No. G4-34961-15. Attachment B. The eligible project cost is $583,400.76. Attachment C. Applicant is proposing that the grant portion would be $291,700.38 and a match of $291,700.38.

Construction of the well began in August 2015 and will be completed within the next couple of weeks. Because of unstable geological formations a stainless steel liner is required. We are awaiting completion of the well, installation of the screen, development of the well, test pumping the well, and installation of the pump and motor. All necessary equipment and materials have been ordered and are in transit to the well site.

The well irrigation water will supplement and provide fall irrigation water after the Roza Irrigation District's early shut off for the 2015 irrigation season.

ECY 070-176 *(07/2015) To request ADA accommodation including materials in a format for the visually impaired, call Ecology Water Resources Program 360-407-6872. Persons with impaired hearing may call Washington Relay Service at 711. Persons with speech disability may call TTY at 877-833-6341.*

See the attached map of the place of use of the well and the location of the LID's irrigation well.

4. DESCRIPTION OF NEED

Describe what would occur without the benefit of the proposed project(s), including: the nature of the actual hardship, both short-term and long-term impacts, the expected loss of normal water supply by percentage, and the estimated potential financial losses. Explain why these circumstances constitute a water supply emergency resulting from natural-caused drought conditions, rather than a pre-existing condition during a normal water year.

Due to drought conditions, Roza Irrigation District is only supplying 46% of their normal irrigation water deliveries. Water delivery was shut down for three (3) weeks in May and deliveries are projected to terminate on or about October 5. Farms within the LID boundaries are totally reliant on this source of water. The significant reduction in water supply, disruption of consistent water delivery and early terminatin of water delivery severly impact both current and future crops. The proposed project is intended to mitigate losses on more than 150 acres of farmed properties, including young and developing orchards. The total estimated losses without supplemental water for harvested crops is $529,444.19. Long-term damage and replacement of orchards is estimated to be $10,385,000. Attachment D. Replacement of orchards and return to production will take over six (6) years to recover. Even with supplemental water, growth will be retarded and current year losses will be incurred. The supplemental water is a matter of loss mitigation. If unmitigated, drought damage will result in significant economic impact to the local economy, agricultural workers and growers.

The irrigation well is necessary to provide late irrigation water for the orchard and farm properties. The irrigation water will also be used for late harvested 2015 crops and fall irrigation of permanent tree fruit crops. Irrigation is critical to tree crops going into the winter. Dehydrated dry soils increase the risk of winter damage or death of trees.

The 2015 harvest has been partially completed but much remains for produce and apple crops. In general, yields have been lower, fruit and produce size has been smaller, and fruit and produce quality has been poorer as a result of the drought. The orchards and crops are primarily organic and are particularly vulnerable to drought conditions. Young tree growth has been poor and some of the 2015 plantings have died under drought conditions. We have lost at least one year of growth on young non-bearing trees delaying future production. Some of our mature trees show signs of drought stress and have begun to defoliate.

Our crops experience similar characteristics every time we have a drought(s) and the Roza Irrigation Project water deliveries are prorated.

ECY 070-176 *(07/2015) To request ADA accommodation including materials in a format for the visually impaired, call Ecology Water Resources Program 360-407-6872. Persons with impaired hearing may call Washington Relay Service at 711. Persons with speech disability may call TTY at 877-833-6341.*

See the attached analysis of crops that have been harvested and pictures that illustrate the drought stress.

5. EXPECTED OUTCOME(S)

Describe how the projects would reduce or avoid harm or hardships and any measures planned to assure the capability and reliability of the proposed project(s) to provide an emergency water supply to the applicant.

If approved, the well will provide a stable source of irrigation water which would agument Roza Irrigation District deliveries. The alternative and supplemental water source would mitigate drought damage and impacts; provide hydration to both current crops and planted orchards; and facilitate the DOE well authorization. Roza has been unable to provide normal and continuous irrigation water as a result of droughts(s) which places nearly 200 acres of prime agriculture production in jeopardy. Prior to constructing the well a discussion with DOE staff indicated that adequate ground water existed for the development of a producing irrigation well. When drilling of the well is complete a down hole geophysic's log and pump test will be completed.

6. WATER SHORTAGE RESPONSE ACTIONS ALREADY TAKEN

Describe the measures taken by the applicant to plan for or mitigate the effects of drought (e.g., conservation, irrigation efficiency measures, leakage, elimination of non-essential uses).

Over the previous 35 years growers within the LID boundaries have invested approximately $1,786,220 in farm operations designed to conserve water and maximize efficient use of irrigation water. Attachment E. The following conservation practices have been employed:

-With the cooperation of the Roza Irrigation District, all open laterals have been piped to reduce water loss leakage and evaporation.

-Microsprinklers have been installed for many acres of permanent crops.

-Drip irrigation has been installed for both permanent and produce crops. All of the annual produce crops are grown with buried drip irrigation.

-Growers have constructed two large lined irrigation water storage reservoirs.

-Shade cloth has been installted and anti-transpiration/sunburn protection products applied to tree fruit crops.

-Clean cultivation has been maintained in young non-bearing orchards.

ECY 070-176 *(07/2015) To request ADA accommodation including materials in a format for the visually impaired, call Ecology Water Resources Program 360-407-6872. Persons with impaired hearing may call Washington Relay Service at 711. Persons with speech disability may call TTY at 877-833-6341.*

Unfortunately conservation has its limits. Growers are at a point in which half of the normal irrigation water supply will not produce quality fruit and fresh produce crops. There is an urgent need to develop additional sources of stable irrigation water.

7. WATER RIGHTS

(a) Describe whether you have or will be submitting an application for an emergency drought authorization and or have other pending water right applications

See attached Application for Permit #G4-31331 dated July 1, 1992 and Emergency Drought Authorization No. #G4-34961-15 dated July 14, 2015.

(b) List the applicant's legal water rights to divert or withdraw water for use on land within the applicant's legal boundaries, and attach copies.

See attached Application for Permit #G4-31331 dated July 1, 1992 and Emergency Drought Authorization #G4-34961-15 dated July 14, 2015.

8. INTERGOVERNMENTAL COORDINATION

Provide a summary of how the applicant has and/or will consult with affected agencies and/or Indian Tribes prior to and during implementation of the proposed project(s). Include a list of the affected agencies and Indian Tribes and a summary of impacts/approvals if known. (Attach an additional sheet if necessary.)

Applicant has been working closely with DOE on the Emergency Permiting process and the construction of the well. To the best of our knowledge we have complied with all of the requirements and are unaware of any other agencies and/or Indian Tribes that are directly affected.

ECY 070-176 *(07/2015) To request ADA accommodation including materials in a format for the visually impaired, call Ecology Water Resources Program 360-407-6872. Persons with impaired hearing may call Washington Relay Service at 711. Persons with speech disability may call TTY at 877-833-6341.*

9. PROJECT(S) SCHEDULE/DURATION

(a) When do you expect to have all the required permitting, approvals, and funding?

DOE issued AMENDED Emergency Drought Authorization No. G4-34961-15 on July 14, 2015. Applicant has secured approved financing for construction and development of the well. Roza Irrigation has accepted the Petition for Local Improvement District and will hold public hearing on LIDs on October 6, 2015. All necessary filings with Secretay of State and Yakima County will be completed simultaneous

(b) Approximately how long will the proposed project(s) take to complete?

The well is scheduled to be pump tested the week of September 14th. We expect to complete construction and put the irrigation water from the well to benefical use on or before September 30, 2015. Timing is critical to complete the well prior to the Roza's scheduled turn-off date.

(c) Expected project(s) schedule, including start date, completion date, and significant intermediary steps:

Well construction began the end of July 2015. Well construction and development should be completed on or before September 30, 2015.

10. PROJECT COMPONENTS

Check appropriate box or boxes and complete estimated cost for proposed activities under this grant.

(a)	☐ Engineering design and report	$ _____
(b)	☒ Project(s) plans and specifications	$ 13,487.50
(c)	☐ Purchase of land, rights-of-way, easements	$ _____
(d)	☒ Construction	$ 396,551.81
(e)	☐ Construction engineering	$ _____
(f)	☐ Education and outreach	$ _____
(g)	Other Testing, Motor, Pump, etc.	$ 173,361.45

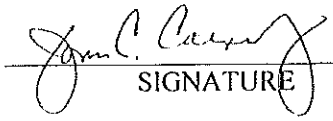
11. FUND SOURCES	Estimated total project cost		Estimated eligible project cost	
(a) Total estimated project(s) cost	100 %	$ $583,400.76	100 %	$ 583,400.76
(b) Total estimated eligible project(s) cost	100 %	$ $583,400.76	100 %	$ 583,400.76
(c) Ecology grant share	50 %	$ $291,700.38	50 %	$ 291,700.38
(d) Match fund source(s): (specify)	50 %	$ $291,700.38	50 %	$ 291,700.38
(e)	%	$	%	$
(f)	%	$	%	$
(g)	%	$	%	$

☐ Applicant may be exempt under WAC 173-167-040(3) from the fund match requirement

ECY 070-176 (07/2015) To request ADA accommodation including materials in a format for the visually impaired, call Ecology Water Resources Program 360-407-6872. Persons with impaired hearing may call Washington Relay Service at 711. Persons with speech disability may call TTY at 877-833-6341.

12. CERTIFICATION

I certify to the best of my knowledge that the information in this application is true, complete, and correct and that I am legally authorized to sign and submit this information on behalf of the applicant.

James C. Carmody PRINT NAME	 SIGNATURE
Legal Counsel for Jones LID #2 TITLE	9/16/2015 DATE

13. Send original, including attached sheets, maps, copies of water rights, and other supporting documents, to:

Department of Ecology
Water Resources Program
PO Box 47600
Olympia, WA 98504-7600
ATTN: Rebecca Inman

ECY 070-176 *(07/2015) To request ADA accommodation including materials in a format for the visually impaired, call Ecology Water Resources Program 360-407-6872. Persons with impaired hearing may call Washington Relay Service at 711. Persons with speech disability may call TTY at 877-833-6341.*

JONES LOCAL IMPROVEMENT DISTRICT NO. 2

DROUGHT RELIEF GRANT APPLICATION

INDEX TO ATTACHMENTS

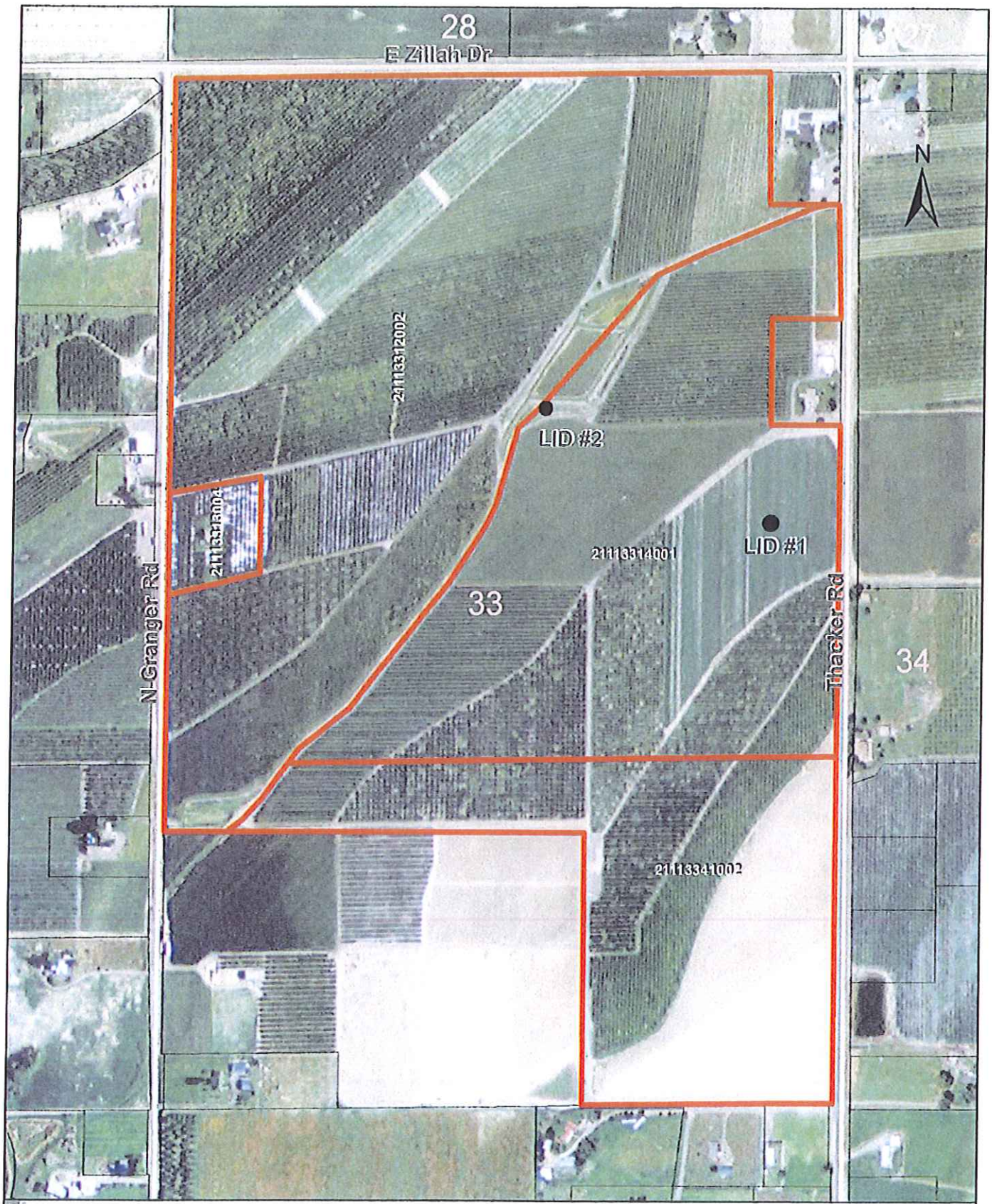
Attachment	Description
Attachment A:	Aerial Photograph with Well Location and Jones LID Boundaries
Attachment B:	Department of Ecology – AMENDED Emergency Drought Authorization No. G4-34961-15
Attachment C:	Construction Cost Estimates – Jones LID #2
Attachment D:	Narrative for 2015 Estimated Potential Financial Losses As a Result of Drought
Attachment E:	Irrigation Infrastructure Improvement Costs
Attachment F:	Order and Determination by the Director
Attachment G:	Supplemental Narrative
Attachment H:	Photographs

ATTACHMENT A

JONES LOCAL IMPROVEMENT DISTRICT NO. 2

DROUGHT RELIEF GRANT APPLICATION

Jones Local Improvement District No. 2 Well Location and District Boundaries. The properties are situate in Yakima County, Washington and include APN 211133-41002 and 14001.



YAKIMA COUNTY GEOGRAPHIC INFORMATION SERVICES

Jones LID's

Place of use for Emergency Drought Permit Authorization No. G4-34961-15

Yakimap.com

Copyright (2015) Yakima County GIS
This map was derived from several databases
The County cannot accept responsibility for
any errors. Therefore there are no warranties
for this product

ATTACHMENT B

JONES LOCAL IMPROVEMENT DISTRICT NO. 2

DROUGHT RELIEF GRANT APPLICATION

Department of Ecology – AMENDED Emergency Drought Authorization NO. G4-34961-15.

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
1250 W Alder St • Union Gap, WA 98903-0009 • (509) 575-2490

Will and Barbara Jones
2020 Thacker Rd.
Granger, WA 98932

Re: AMENDED Emergency Drought Authorization No. G4-34961-15

Well construction provisions issued on July 1, 2015 are hereby rescinded and replaced in this amendment.

In accordance with the provisions of RCW 43.83B.405, on March 17, 2015, the Director of the Department of Ecology (Ecology) ordered and determined that the Yakima Basin is under drought conditions. Pursuant to WAC 173-166-070, Ecology is issuing this EMERGENCY DROUGHT AUTHORIZATION. The intent of this authorization is to alleviate hardships and reduce the burdens on water users arising from the drought conditions.

THIS AUTHORIZATION SHALL IN NO MANNER BE CONSTRUED TO GUARANTEE OR IMPLY THAT A FINAL (REGULAR) PERMIT WILL ISSUE FOR THE FUTURE USE OF WATER HEREIN AUTHORIZED.

The terms of your authorization are as follows:

Total Quantity in acre-feet:	163.1
Well Locations:	2 wells within the NE¼ of Section 33, T. 11 N., R. 21 E.W.M.
Place of Use:	169.9 acres within the NE¼ and the N½N½N½SE¼, and the NE¼SE¼ of Section 33, Section 33, T. 11 N., R. 21 E.W.M.
Parcels:	21113312002, 21113311002, 21113313004, 21113341002, 21113311004, and 21113314001

This Temporary Emergency Drought Authorization expires December 31, 2015.

Provisions:

Use of water under this authorization is contingent upon the applicant's entry into and compliance with a cost-share agreement (Agreement) with Ecology. Failure to comply with the terms of the Agreement will result in cancellation of this authorization.

An approved measuring device must be installed and maintained for each of the sources identified in this temporary authorization in accordance with the rule "Requirements for Measuring and Reporting Water Use", WAC 173-173, which describes the requirements for data accuracy, device installation and operation, and information reporting.

Every two weeks, readings of the flow meter shall be recorded and maintained by the applicant. These readings shall be documented by time, date, withdrawal rate, and cumulative amount withdrawn. Copies of these records shall be submitted to Ecology by November 15, 2015.

Department of Ecology personnel, upon presentation of proper credentials, shall have access at reasonable times, to the project location, and to inspect at reasonable times, records of water use, wells, diversions, measuring devices and associated distribution systems for compliance with this authorization.

Water may be used under this authorization only in relation to previously established activity as defined by Chapter 173.166 WAC. This authorization only authorizes a supplemental water supply to the applicant's normal source of water.

This authorization may be terminated, in whole or in part, whenever withdrawals conflict with the flows protected by RCW 43.83B.410(1)(a)(iii), or whenever the provisions of this authorization are violated.

All wells constructed in the state shall meet the "Minimum Standards for the Construction and Maintenance of Wells" (WAC 173-160) and "Water Well Construction" (RCW 18.104). In general, wells shall be located at least 100 feet from sources of contamination and at least 1,000 feet of the boundary of a solid waste landfill. Any well which is unusable, abandoned, or is an environmental, safety, or public health hazard shall be decommissioned.

Wells to be used under this emergency authorization are to be constructed in the Ellensburg Aquifer/Upper Saddle Mountians basalts (above the Pomona Basalt unit). The wells must be cased (unperforated) to at **least 350 feet** below the ground surface.

The wells shall terminate at or above a depth corresponding to the top of the Pomona Basalt Flow member of the Saddle Mountains Formation, which should be encountered at a depth of approximately 750 feet below the ground surface.

The **driller shall collect and retain cuttings** starting at 350 feet below the ground surface and every 10 feet thereafter and at significant changes in lithology. The depth each sample is taken from shall be recorded with the sample. The samples may be dropped off at Ecology's Central Regional Office, or Ecology staff may pick up the samples during, or at the conclusion of drilling. For scheduling pick up or other questions, please call Kelsey Collins at (509) 575-2640.

YOUR RIGHT TO APPEAL

You have a right to appeal this decision to the Pollution Control Hearings Board (PCHB) within 30 days of the date of receipt of this decision. The appeal process is governed by Chapter 43.21B RCW and Chapter 371-08 WAC. "Date of receipt" is defined in RCW 43.21B.001(2).
To appeal you must do the following within 30 days of the date of receipt of this decision:

- File your appeal and a copy of this decision with the PCHB (see addresses below). Filing means actual receipt by the PCHB during regular business hours.
- Serve a copy of your appeal and this decision on Ecology in paper form - by mail or in person. (See addresses below.) E-mail is not accepted.

You must also comply with other applicable requirements in Chapter 43.21B RCW and Chapter 371-08 WAC.

ADDRESS AND LOCATION INFORMATION

Street Addresses	Mailing Addresses
Department of Ecology Attn: Appeals Processing Desk 300 Desmond Drive SE Lacey, WA 98503	**Department of Ecology** Attn: Appeals Processing Desk PO Box 47608 Olympia, WA 98504-7608
Pollution Control Hearings Board 1111 Israel Road SW Ste 301 Tumwater, WA 98501	**Pollution Control Hearings Board** PO Box 40903 Olympia, WA 98504-0903

For additional information visit the Environmental Hearings Office Website: http://www.eho.wa.gov
To find laws and agency rules visit the Washington State Legislature Website: http://www.leg.wa.gov/CodeReviser

Signed at Yakima, Washington, this 14 day of July 2015.

Sage Park, Section Manager
Water Resources Program
Central Regional Office

SP:KC:JR
150706/WRTS: 6663865

Enclosures: Your Right To Be Heard
Flow Meter Requirements

ATTACHMENT C

JONES LOCAL IMPROVEMENT DISTRICT NO. 2
DROUGHT RELIEF GRANT APPLICATION

Jones LID #2 Costs Estimate for Developing Irrigation Well

Jones LID #2 Costs Estimate for Developing Irrigation Well

(as of 9/10/2015)

Description of Cost	***Total Cost***
Person Pump & Well Drilling, Well Drilling	$367,517.90
Layne Pump, Well Pump Testing	$12,500.00
Layne Pump, Turbine Pump Including Installation	$34,725.00
Cascade Windmachine Sales, Energy Efficient Diesel Motor, Tier 4 Rated	$45,000.00
Hauff Company, De Ran Gear Head	$6,850.00
Co Energy, Double Wall Fuel Tank	$6,330.00
RH Irrigation, Flow Meter, Well Pad & Connection to Irrigation System	$42,369.00
Reynaldo's, Construction Fencing	$2,700.00
Estimated DOE Mitigation Water Purchase	$11,000.00
Estimated Administrative Costs	$12,500.00
Sales Tax @ 7.9%	$41,908.86
Total Estimated Cost	***$583,400.76***

Narrative for 2015 Estimated Potential Financial Losses as a Result of Drought

Attached are calculations for annual crop losses for harvested crops to date as a result of the drought. Also attached is an Analysis of the Replacement Costs of our orchards if we sustain tree damage and/or tree death as a result of the trees going into the winter dehydrated with dry soils.
As of the date of this application we have harvested a little over half of our 2015 crops with most of the apples yet to be harvested. It would be very difficult and speculative to quantify the annual crop losses on unharvested crops. As a result of the drought the general trend for the harvested crops to date has been, lower yields, smaller fruit and produce size, and fruit and produce quality (packouts) have been poorer. Total Estimated Potential Financial Loss for harvested crops is $529,444.19. Estimated Potential Financial Loss for Replacement of orchards would be $10,385,000 (rounded).

Organic Cherries

We raise 10 different varieties of Dark Sweet Cherries including Bing, Van Sylvia, Chelan, Index, Lapin, Attica, Index, Benton, and Tieton. We also raise Light Sweet Cherries including Rainiers, Early Robins, and Royal Anns. All Cherries were smaller in 2015 except for the early harvested varieties. The irrigation water being shut off for three weeks seemed to affect the later maturing cherry varieties more than the early harvested varieties. Our percent of packed fruit for 2015 Dark Sweet Cherries was 7.20% lower and 5.30% lower for Light Sweet Cherries in 2015 as compared to 2014. The additional cullage was mostly the result of shrivel and smaller fruit size. In addition we harvested 20.43 tons of Rainier Cherries that went direct to processing because of small fruit size. Total production was only down a few tons from 2014. 2015 production should have been higher because of the number of young blocks that are still growing and have not reached full production.
Attached is an Analysis of the Estimated Potential Financial Loss for Organic Cherries which is estimated to be $252,505.67 for 2015. The estimated loss calculation is for the increased cullage only.

Organic Bartlett Pears

Organic Bartlett Pears size was much smaller in 2015 as compared to 2014. Since we are organic we harvest our pears into two bins; fresh pack and processor. In 2015 only 50% of our pears were fresh packed as compared to 85% in 2014. The smaller pear size resulted in 60 less bins of production (takes more small size fruit to fill a bin than large fruit).
Attached is an Analysis of the Estimated Potential Financial Loss for Organic Pears which is estimated to be $107,919.56 for 2015. The estimated loss calculation is for the increased cullage and lower production as compared to 2014.

Organic Ginger Gold Apples

Organic Ginger Gold Apple size was smaller in 2015 as compared to 2014. Premium apples sizes are 88's and larger. Our 2015 Organic Ginger Gold Apples packed 8.66% less apples in the premium sizes as compared to 2014.The smaller size also relates to lower production. Since we are organic we harvest our apples into two bins; fresh pack and processor. In 2015 only 79% of our Ginger Gold Apples were harvested for fresh pack as compared to 89% in 2014. The smaller size is also the reason for 32 less bins of production.

Attached is an Analysis of the Estimated Potential Financial Loss for Organic Ginger Gold Apples which is estimated to be $25,270.96 for 2015. The estimated loss calculation is for the increased cullage and lower production as compared to 2014.

Peaches

We raise fifteen different varieties of Peaches. All of our Peaches are field packed and direct marketed. We have no market for small Peaches and they are culled in the field. In 2015 we harvested 1,363 less boxes of Peaches as compared to 2014. The lower production is the result of small unpackable fruit.
Attached is an Analysis of the Estimated Potential Financial Loss for Peaches which is estimated to be $20,445.00 for 2015. The estimated loss calculation is for the smaller fruit size and lower production as compared to 2014.

Nectarines

We raise four different varieties of Nectarines. All of our Nectarines are field packed and direct marketed. We have no market for small Nectarines and they are culled in the field. In 2015 we harvested 2,003 less boxes of Nectarines as compared to 2014. The lower production is the result of small unpackable fruit.
Attached is an Analysis of the Estimated Potential Financial Loss for Nectarines which is estimated to be $32,048.00 for 2015. The estimated loss calculation is for the smaller fruit size and lower production as compared to 2014.

Tomatoes

We raise five different types of tomatoes including Cherry, Grape, Strawberry, Roma, and Slicing. All of our tomatoes are field packed and direct marketed. We have completed harvest on 10 acres of early tomatoes. Tomato size was small with higher than normal cullage due to sunburn. Our average yield for 10 acres of 2015 tomatoes was 869 field packed boxes per acre. Our average production for 2014 tomatoes was 1,210 field packed boxes per acre or a reduction of 341 boxes per acre.
Attached is an Analysis of the Estimated Potential Financial Loss for harvested Tomatoes which is $52,855.00 for 2015. The estimated loss calculation is for the smaller fruit size and cullage as compared to 2014.

Sweet Corn

In the spring we plant three acres of sweet corn every five days. In a normal year that provides a constant supply of sweet corn for direct marketing through our fruit stand and to wholesale customers. In 2015 Roza Irrigation District discontinued irrigation deliveries for three weeks in May. With no irrigation water, four of our plantings all matured at the same time and had to be disked. In 2014 sweet corn yields were 20 bins per acre and we are currently selling Sweet Corn for $160.00 per bin.
Attached is an Analysis of the Estimated Potential Financial Loss for unharvested Sweet Corn because of over maturity. The 2015 loss is estimated to be$38,400.00.

Summary of Estimated Potential Financial Loss
2015 Harvested Crops Only

2015 Harvested Crops	*Estimated Loss*
Organic Cherries	-$252,505.67
Organic Bartlett Pears	-$107,919.56
Organic Ginger Gold Apples	-$25,270.96
Peaches	-$20,445.00
Nectarines	-$32,048.00
Tomatoes	-$52,855.00
Sweet Corn	-$38,400.00
Total Estimated Loss Harvested Crops Only	*-$529,444.19*

Estimated Potential Financial Loss to Planted Orchards
Current Replacement Costs

Orchard Description	*Acres*	*Est. Replacement Cost/Ac.*	*Totals*
Low Density Organic Orchards	52.26	$30,000	$1,567,800
Medium Density Orchards	43.91	$37,500	$1,646,625
High Density Orchards	159.34	$45,000	$7,170,300
Totals	*255.51*	*$40,643*	*$10,384,725*

Estimated Potential Financial Loss 2015 Organic Cherries

Organic Dark Sweet Cherry 2014 and 2015 Production, Packout, and Price Comparison

	2,015	*2,014*	*Diff.*
Production (Tons)	410.49	407.17	3.32
Packout (%)	82.60%	89.80%	-7.20%
Price ($/Ton)	$4,250.40	$4,084.65	$165.75
Additional Tons of Culls			29.56

Estimated Potential Financial Loss 2015 Dark Sweet Cherries

Additional Tons of Culls	29.56
2015 Price/Ton	$4,250.40
Dark Sweet Cherry Loss due to Increased Cullage	$125,641.82

Organic Light Sweet Cherry 2014 and 2015 Production, Packout, and Price Comparison

	2,015	*2,014*	*Diff.*
Production (Tons)	64.40	69.62	-5.22
Packout (%)	78.20%	83.50%	-5.30%
Price ($/Ton)	$5,321.47	$6,476.06	-$1,154.59
Additional Tons of Culls			3.41

Estimated Potential Financial Loss 2015 Light Sweet Cherries

Additional Tons of Culls	3.41
2015 Price/Ton	$5,321.47
Light Sweet Cherry Loss due to Increased Cullage	$18,146.21

Estimated Potential Financial Loss 2015 Light Sweet Cherries Direct to Processing

Tons Direct to Processing	20.43
2015 Price/Ton	5321.47
Light Sweet Cherry Loss Direct to Processing	$108,717.63

Estimated Potential Financial Loss Total 2015 Organic Cherries $252,505.67

Estimated Potential Financial Loss 2015 Organic Bartlett Pears

Organic Bartlett Pear 2014 and 2015 Production and Packed Fruit vs. Processor Fruit

	Bins		
	2015	*2014*	*Bin Diff.*
Fresh Pack	314	582	-268
Processor	314	106	208
Totals	*628*	*688*	*-60*

Organic Bartlett Pear 2014 and 2015 Fruit Size Comparison

Fruit Size	*2015*	*2014*	*% Diff.*
42	0.00%	1.57%	-1.57%
48	3.32%	4.99%	-1.67%
54	7.14%	8.22%	-1.08%
60	8.55%	6.45%	2.10%
70	2.31%	0.87%	1.44%
80	5.09%	6.88%	-1.79%
90	14.78%	12.05%	2.73%
100	19.09%	18.71%	0.38%
110	16.31%	14.79%	1.52%
2 1/8"	23.41%	25.48%	-2.07%
Totals	100.00%	100.01%	-0.01%

Estimated Potential Financial Loss 2015

	2015 Crop			*2014 Crop*			
	Bins	*$/Bin*	*$ Income*	*Bins*	*$/Bin*	*$ Income*	*$ Difference*
Fresh Pack	314	$596.87	$187,417.18	582	$596.87	$347,378.34	-$159,961.16
Processor	314	$250.20	$78,562.80	106	$250.20	$26,521.20	$52,041.60
Totals	*628*	*$423.54*	*$265,979.98*	*688*	*$543.46*	*$373,899.54*	*-$107,919.56*

Estimated Potential Financial Loss 2015 Organic Ginger Gold Apples

Organic Ginger Gold Apples 2014 and 2015 Production and Packed Fruit vs. Processor Fruit

	Bins		
	2015	*2014*	*Bin Diff.*
Fresh Pack	380	456	-76
Processor	103	59	44
Totals	*483*	*515*	-32

Organic Ginger Gold Apples 2014 and 2015 Fruit Size Comparison

Fruit Size	*2015*	*2014*	*% Diff.*	
36	0.00%	0.07%	-0.07%	
48	0.07%	0.80%	-0.73%	
56	0.73%	2.53%	-1.80%	
64	2.57%	5.23%	-2.66%	
72	5.30%	7.57%	-2.27%	
80	8.20%	9.43%	-1.23%	
88	12.80%	12.70%	0.10%	-8.66%
100	17.70%	15.78%	1.92%	
113	16.03%	14.07%	1.96%	
125	12.77%	11.03%	1.74%	
138	9.20%	8.10%	1.10%	
150	5.80%	5.10%	0.70%	
163	3.60%	3.23%	0.37%	
175	2.73%	2.47%	0.26%	
198	1.63%	1.30%	0.33%	
216	0.83%	0.60%	0.23%	
Totals	99.96%	100.01%	-0.05%	

Estimated Potential Financial Loss 2015

	2015 Crop			*2014 Crop*			
	Bins	*$/Bin*	*$ Income*	*Bins*	*$/Bin*	*$ Income*	*$ Difference*
Fresh Pack	380	$443.74	$168,621.20	456	$443.74	$202,345.44	-$33,724.24
Processor	103	$192.12	$19,788.36	59	$192.12	$11,335.08	$8,453.28
Totals	*483*	*$390.08*	*$188,409.56*	*515*	*$414.91*	*$213,680.52*	*-$25,270.96*

Estimated Potential Financial Loss 2015 Peaches

Peach 2014 and 2015 Production Comparison

	Field Packed Boxes		
Variety	*2,015*	*2,014*	*Box Diff.*
Suncrest	1,170	1,392	-222
Snow Giant	447	388	59
Red Globe	928	1,534	-606
Crest Haven	949	1,171	-222
Angelus	1,422	1,447	-25
Elberta #1	1,191	1,695	-504
O'Henry	1,710	1,488	222
Flavor Crest	1,297	1,268	29
Regina	1,030	1,378	-348
Red Star	1,292	1,623	-331
Coral Star	1,221	1,260	-39
Elegant Lady	1,399	1,010	389
Elberta #2	1,310	1,555	-245
Pretty Lady	1,550	1,309	241
Ryan Sun	1,755	1,516	239
Totals	*18,671*	*20,034*	*-1,363*

Estimated Potential Financial Loss 2015

Field Packed Boxes		
Less Boxes	*$/Box*	*$ Loss*
1,363	$15.00	$20,445.00

Estimated Potential Financial Loss 2015 Nectarines

Nectarines 2014 and 2015 Production Comparison

	Field Packed Boxes		
Variety	*2,015*	*2,014*	*Box Diff.*
Western Sweet	1,027	1,190	-163
Washington Pride	721	1,547	-826
Summer Blush	1,056	1,648	-592
Fantasia	1,072	1,494	-422
Totals	*3,876*	*5,879*	*-2,003*

Estimated Potential Financial Loss 2015

Field Packed Boxes		
Less Boxes	*$/Box*	*$ Loss*
2,003	$16.00	$32,048.00

Estimated Potential Financial Loss 2015 Tomatoes

Tomato 2014 vs. 2015 Production

	Field Packed Boxes		
	2015	*2014*	*Box Diff.*
Average Yields	869	1,210	-341

Estimated Potential Financial Loss 2015

	2015 Crop			*2014 Crop*			
	Boxes/Ac.	*$/Box*	*$ Income*	*Boxes/Ac.*	*$/Box*	*$ Income/Ac.*	*$ Difference*
Fresh Pack	869	$15.50	$13,469.50	1,210	$15.50	$18,755.00	-$5,285.50
10 Acres Planted 2015							*-$52,855.00*

Estimated Potential Financial Loss 2015 Sweet Corn

Estimated Potential Financial Loss 2015

Acres Lost	*Bins/Ac.*	*$/Bin*	*Total $ Loss*
12.00	20.00	$160.00	$38,400.00

ATTACHMENT E

JONES LOCAL IMPROVEMENT DISTRICT NO. 2
DROUGHT RELIEF GRANT APPLICATION

Irrigation Infrastructure Improvements.

FAMILY FARMS
SUMMARY BY YEAR

	2015	2014	2013	2012	2011	2010	2009	2008	2007	TOTAL
IRRIGATION SYSTEMS	1,055,358	276,192	105,076		12,702		97,896	60,357	10,587	1,618,168
RH IRRIGATION NON CAP EXPENSES		173	906	2,193				14,425	162	17,859
WILSON NON CAP EXPENSES	38,103	9,190	12,668	8,047	2,847	2,806	2,549	6,027	8,411	90,649
EXTENDAY SHADE CLOTH	38,810									38,810
SHADE CLOTH INSTALLATION	20,734									20,734
IRRIGATION EXPENSE BY YEAR	**1,153,005**	**285,555**	**118,650**	**10,240**	**15,549**	**2,806**	**100,445**	**80,809**	**19,160**	**1,786,220**
PERCENTAGE OF TOTAL	**64.55%**	**15.99%**	**6.64%**	**0.57%**	**0.87%**	**0.16%**	**5.62%**	**4.52%**	**1.07%**	**100.00%**

FAMILY FARMS
Transactions by Account
As of September 15, 2015

FAMILY FARMS
1550 · IRRIGATION SYSTEMS

Type	Date	Num	Name	Memo	Original Amount	Balance
Check	03/28/2007	10485	CLEARWATER SUPPLY INC.	NRCS DRIP SYSTEM	10,586.94	10,586.94
Check	04/09/2008	12612	UNITED PIPE & SUPPLY	SPRINKLERS	28,379.11	
Check	04/09/2008	12630	CLEARWATER SUPPLY INC.	NRCS DRIP SYSTEM	8,527.97	
Check	04/23/2008	12709	UNITED PIPE & SUPPLY	SPRINKLERS	2,440.94	
Check	05/12/2008	12870	CLEARWATER SUPPLY INC.	NRCS DRIP SYSTEM	3,524.26	
Check	05/12/2008	12879	UNITED PIPE & SUPPLY	SPRINKLERS	3,201.23	
Check	08/05/2008	13733	HUTCHINSON ELECTRIC	IRRIGATION SYSTEM	12,384.36	
Check	11/25/2008	14603	HUTCHINSON ELECTRIC	IRRIGATION SYSTEM	1,898.71	60,356.58
Check	04/09/2009	15107	CLEARWATER SUPPLY INC.	IRRIGATION SYSTEMS	8,361.99	
Check	04/23/2009	15191	UNITED PIPE & SUPPLY	IRR SPRINKLERS	4,790.92	
Check	04/27/2009	1270		IRRIGATION	7,000.00	
Check	04/27/2009	1297		IRRIGATION	46,237.02	
Check	05/05/2009	2300	UNITED PIPE & SUPPLY	SPRINKLERS	4,165.95	
Check	05/20/2009	15420	CLEARWATER SUPPLY INC.	Overhead and drip	22,718.23	
Check	05/20/2009	15421	UNITED PIPE & SUPPLY	SPRINKLERS	689.49	
Check	06/02/2009	15473	RH IRRIGATION	IRRIGATION SYSTEM INSTALL	3,932.82	97,896.42
Check	12/07/2011	21458	RICK POULIN WELL DRILLING INC	WELL	12,701.99	12,701.99
Check	05/28/2013	25062	RH IRRIGATION	NEW IRRIGATION SYSTEM	35,417.24	
Check	10/03/2013	26255	RH IRRIGATION	INSTALL OVERHEAD SPRINKLER SYSTEM &	4,094.81	
Check	11/04/2013	26409	MORTON SUPPLY	SUPPLIES FOR NEW SPRINKLER SYSTEM IN	45,668.47	
Check	12/09/2013	26501	RH IRRIGATION	INSTALL IRRIGATION SYSTEM	19,895.10	105,075.62
Check	01/08/2014	26581	MARNEY ELECTRIC, LLC	NEW SPRINKLER SYSTEM	3,234.84	
Check	04/23/2014	27144	CLEARWATER SUPPLY INC.	SPRINKLERS AND DRIP	21,710.08	
Check	05/06/2014	27242	WILSON IRRIGATION	CHERRY SPRINKLER SYSTEM SUPPLIES	4,023.64	
Check	05/19/2014	3293	RH IRRIGATION	IRRIGATION SYSTEM/ 250	15,000.00	
Check	06/18/2014	27683	WILSON IRRIGATION	IRRIGATION DRIP	6,096.29	
Check	06/18/2014	27716	RH IRRIGATION	IRRIGATION SYSTEM AND INSTALL	53,320.46	
Check	07/18/2014	3497	BLEYHLS FARM SERVICE	IRRIGATION EQUIPMENT	24,805.35	
Check	08/13/2014	28359	WILSON IRRIGATION	IRRIGATION PARTS	1,487.83	
Check	11/24/2014	29085	RH IRRIGATION	IRRIGATION SYSTEMS FOR NEW SYSTEMS	144,986.81	
Check	12/02/2014	29161	SUNNYSIDE NEW HOLLAND LLC	PUMP REPAIRS	1,527.09	276,192.39
Check	01/20/2015	29339	YAKIMA VALLEY CONSTRUCTION	WATER STORAGE AND FILTERING POND	54,137.50	
Check	01/20/2015	29340	RH IRRIGATION	WATER STORAGE AND FILTERING POND	178,035.00	
Check	02/17/2015	29428	YAKIMA VALLEY CONSTRUCTION	POND #2	50,934.20	
Check	03/13/2015	29580	WILSON IRRIGATION	IRRIGATION SUPPLIES	527.30	
Check	03/15/2015		PRESTON	POND EQUIPMENT	20,000.00	
Check	03/15/2015		JOEL SCHAN	POND EQUIPMENT	4,000.00	
Check	04/09/2015	29792	RH IRRIGATION	2 POND LINERS & LABOR	116,467.89	
Check	05/07/2015	30049	RATHBUN IRON WORKS	IRRIGATION SYSTEMS WORK	11,233.54	
Check	05/07/2015	30063	CLEARWATER SUPPLY INC.	IRRIGATION SYSTEMS	31,210.53	
Check	05/28/2015	30295	RH IRRIGATION	IRRIGATION SYSTEMS	175,000.00	
Check	06/10/2015	30341	RATHBUN IRON WORKS	IRRIGATION SYSTEMS	7,275.81	
Check	06/29/2015	3727	DEPARTMENT OF ECOLOGY	JONES FARMS LID	11,563.00	
Check	07/07/2015	30993	MORTON SUPPLY	IRRIGATION PARTS AND SUPPLIES	9,798.65	

FAMILY FARMS
Transactions by Account
As of September 15, 2015

FAMILY FARMS

Type	Date	Num	Name	Memo	Original Amount	Balance
Check	07/22/2015	31167	PERSON PUMP & WELL DRILLING	DROUGHT RELIEF WELL LID JONES	0.00	
Check	07/23/2015	31170	PERSON PUMP & WELL DRILLING	DROUGHT RELIEF WELL LID JONES	35,108.00	
Check	08/05/2015	31202	RH IRRIGATION	DROUGHT RELIEF WELL LID JONES	4,132.57	
Check	08/19/2015	31335	PERSON PUMP & WELL DRILLING	DROUGHT RELIEF WELL LID JONES	2,773.53	
Check	09/02/2015	31613	RH IRRIGATION	DROUGHT RELIEF WELL LID JONES	56,064.76	
Check	09/08/2015	31641	PERSON PUMP & WELL DRILLING	DROUGHT RELIEF WELL LID JONES	0.00	
Check	09/08/2015	31642	PERSON PUMP & WELL DRILLING	DROUGHT RELIEF WELL LID JONES	0.00	
Check	09/08/2015	31644	PERSON PUMP & WELL DRILLING	DROUGHT RELIEF WELL LID JONES	148,790.76	
Check	09/09/2015	31645	PERSON PUMP & WELL DRILLING	DROUGHT RELIEF WELL LID JONES	138,305.14	1,055,358.18
				TOTAL ALL YEARS FROM 2007		1,618,168.12

FAMILY FARMS

RH IRRIGATION

Type	Date	Num	Split	Expense	TOTALS
Check	07/27/2007	11375	6300 · Repairs	161.85	
					161.85
Check	03/25/2008	12558	6300 · Repairs	108.00	
Check	05/14/2008	12898	6165 · CUSTOM HIRE	5,000.00	
Check	06/10/2008	13041	6165 · CUSTOM HIRE	9,317.48	
					14,425.48
Check	10/05/2012	2919	6300 · Repairs	1,803.53	
Check	12/06/2012	24140	6300 · Repairs	389.52	
					2,193.05
Check	08/07/2013	25859	6300 · Repairs	906.36	
					906.36
Check	11/18/2014	29080	6300 · Repairs	86.32	
Check	11/21/2014	3618	6300 · Repairs	86.32	
					172.64
			Non capital expenditures		17,859.38

FAMILY FARMS

WILSON IRRIGATION

Type	Date	Num	Split	AMOUNT	BALANCE
Check	04/11/2007	10580	6300 · Repairs	579.49	
Check	05/04/2007	10772	6800 · Supplies	1,140.15	
Check	07/11/2007	11223	6800 · Supplies	307.30	
Check	08/09/2007	11484	6800 · Supplies	616.29	
Check	08/28/2007	2012	6800 · Supplies	5,708.53	
Check	10/03/2007	11974	6800 · Supplies	59.72	8,411.48
Check	03/11/2008	12485	6800 · Supplies	110.90	
Check	04/09/2008	12638	6300 · Repairs	127.45	
Check	04/09/2008	12639	6800 · Supplies	917.13	
Check	05/12/2008	12892	6800 · Supplies	206.38	
Check	05/12/2008	12893	6800 · Supplies	803.34	
Check	06/03/2008	12950	6300 · Repairs	153.67	
Check	07/24/2008	13647	6300 · Repairs	532.24	
Check	08/05/2008	13720	6800 · Supplies	276.26	
Check	08/05/2008	13722	6800 · Supplies	892.80	
Check	09/02/2008	13946	6800 · Supplies	272.77	
Check	09/30/2008	14205	6300 · Repairs	119.71	
Check	12/15/2008	14637	6300 · Repairs	1,517.49	
Check	12/15/2008	14638	6300 · Repairs	96.55	6,026.69
Check	04/09/2009	15110	6300 · Repairs	53.55	
Check	04/09/2009	15111	6300 · Repairs	632.91	
Check	07/28/2009	16266	6300 · Repairs	502.94	
Check	08/18/2009	16502	6300 · Repairs	1,412.74	2,548.59
Check	03/08/2010	17387	6800 · Supplies	22.94	
Check	04/08/2010	17595	6800 · Supplies	944.08	
Check	05/05/2010	17668	6300 · Repairs	723.51	
Check	06/25/2010	18025	6300 · Repairs	978.27	
Check	07/14/2010	18428	6300 · Repairs	41.87	
Check	08/27/2010	2552	6300 · Repairs	51.40	

Check	10/05/2010	18937	6300 · Repairs	43.89	
					2,805.96
Check	02/04/2011	19385	6300 · Repairs	160.57	
Check	03/01/2011	19495	6300 · Repairs	822.41	
Check	03/31/2011	19624	6300 · Repairs	401.76	
Check	05/11/2011	19838	6300 · Repairs	672.75	
Check	06/07/2011	19900	6300 · Repairs	142.09	
Check	07/07/2011	20330	6300 · Repairs	362.28	
Check	08/02/2011	20510	6300 · Repairs	161.62	
Check	08/30/2011	20691	6300 · Repairs	82.44	
Check	09/29/2011	21026	6300 · Repairs	10.77	
Check	10/31/2011	21343	6300 · Repairs	30.73	
					2,847.42
Check	01/12/2012	21577	6800 · Supplies	52.65	
Check	03/06/2012	21821	6800 · Supplies	252.65	
Check	04/03/2012	21904	6800 · Supplies	1,083.19	
Check	04/03/2012	21905	6800 · Supplies	698.37	
Check	05/01/2012	22118	6800 · Supplies	1,600.61	
Check	05/01/2012	22119	6800 · Supplies	364.03	
Check	06/26/2012	22444	6800 · Supplies	1,270.83	
Check	08/01/2012	23157	6800 · Supplies	2,230.99	
Check	09/10/2012	23604	6300 · Repairs	277.83	
Check	10/08/2012	23798	6800 · Supplies	185.46	
Check	10/31/2012	23956	6300 · Repairs	10.45	
Check	12/15/2012	3148	6800 · Supplies	19.98	
					8,047.04
Check	03/05/2013	24480	6300 · Repairs	826.19	
Check	04/03/2013	24605	6800 · Supplies	3,046.97	
Check	05/07/2013	24873	6300 · Repairs	18.26	
Check	05/07/2013	24874	6300 · Repairs	1,990.44	
Check	06/12/2013	25191	6800 · Supplies	4,437.53	
Check	07/10/2013	25628	6800 · Supplies	1,130.78	
Check	08/07/2013	25855	6300 · Repairs	390.38	
Check	09/04/2013	26066	6800 · Supplies	463.00	

Check	10/01/2013	26240	6300 · Repairs	91.11	
Check	11/01/2013	26401	6300 · Repairs	273.63	
					12,668.29
Check	03/13/2014	26844	6300 · Repairs	160.87	
Check	04/08/2014	27022	6300 · Repairs	2,370.07	
Check	04/08/2014	27026	6300 · Repairs	209.65	
Check	05/06/2014	27249	6300 · Repairs	1,028.55	
Check	07/15/2014	28092	6300 · Repairs	3,016.30	
Check	09/10/2014	28570	6470 · Irrigation	1,294.51	
Check	10/07/2014	28772	6800 · Supplies	558.04	
Check	11/04/2014	28980	6300 · Repairs	209.01	
Check	12/02/2014	29148	6300 · Repairs	343.07	
					9,190.07
Check	01/30/2015	29357	6300 · Repairs	195.47	
Check	03/13/2015	29580	6800 · Supplies	1,822.37	
Check	04/03/2015	29747	6800 · Supplies	292.52	
Check	04/14/2015	29798	6800 · Supplies	3,071.51	
Check	05/07/2015	30035	6800 · Supplies	7,249.27	
Check	05/07/2015	30039	6800 · Supplies	1,170.12	
Check	06/10/2015	30323	6800 · Supplies	9,325.74	
Check	06/10/2015	30324	6800 · Supplies	2,171.49	
Check	07/21/2015	31047	6800 · Supplies	7,818.42	
Check	08/07/2015	31205	6300 · Repairs	2,378.94	
Check	09/02/2015	31636	6300 · Repairs	593.02	
Check	09/02/2015	31637	6300 · Repairs	2,014.27	
					38,103.14
			TOTAL NON CAPITALIZED EXPENSE		73,661.92

FAMILY FARMS

	Type	Date	Num		TOTAL
EXTENDAY USA INC					
	Check	06/24/2015	30767	6800 · Supplies	19,878.35
	Check	08/07/2015	31209	6800 · Supplies	11,414.43
	Check	08/19/2015	31484	6800 · Supplies	7,516.82
					38,809.60

FAMILY FARMS

37 - INSTALL SHADE CLOTH

Type	Date	Num	Name	Amount
Paycheck	07/06/2015	30894	PAYROLL	297.00
Paycheck	07/06/2015	30897	PAYROLL	117.50
Paycheck	07/06/2015	30898	PAYROLL	423.00
Paycheck	07/06/2015	30909	PAYROLL	650.25
Paycheck	07/06/2015	30914	PAYROLL	956.25
Paycheck	07/06/2015	30919	PAYROLL	599.25
Paycheck	07/06/2015	30927	PAYROLL	241.50
Paycheck	07/06/2015	30933	PAYROLL	473.00
Paycheck	07/06/2015	30947	PAYROLL	297.00
Paycheck	07/06/2015	30953	PAYROLL	528.00
Paycheck	07/06/2015	30968	PAYROLL	572.00
Paycheck	07/06/2015	30970	PAYROLL	182.25
Paycheck	07/08/2015	31014	PAYROLL	22.00
Paycheck	07/21/2015	31169	PAYROLL	40.25
Paycheck	07/22/2015	31065	PAYROLL	99.88
Paycheck	07/22/2015	31066	PAYROLL	99.88
Paycheck	07/22/2015	31083	PAYROLL	588.00
Paycheck	07/22/2015	31092	PAYROLL	63.75
Paycheck	07/22/2015	31093	PAYROLL	132.25
Paycheck	07/22/2015	31114	PAYROLL	97.75
Paycheck	07/22/2015	31115	PAYROLL	138.00
Paycheck	07/22/2015	31132	PAYROLL	97.75
Paycheck	07/22/2015	31135	PAYROLL	92.00
Paycheck	08/04/2015	31215	PAYROLL	283.50
Paycheck	08/04/2015	31224	PAYROLL	470.00
Paycheck	08/04/2015	31225	PAYROLL	499.38
Paycheck	08/04/2015	31246	PAYROLL	918.75
Paycheck	08/04/2015	31254	PAYROLL	828.75
Paycheck	08/04/2015	31255	PAYROLL	822.25
Paycheck	08/04/2015	31261	PAYROLL	310.50
Paycheck	08/04/2015	31262	PAYROLL	333.50
Paycheck	08/04/2015	31275	PAYROLL	46.00

	Paycheck	08/04/2015	31276	PAYROLL	46.00
	Paycheck	08/04/2015	31279	PAYROLL	419.75
	Paycheck	08/04/2015	31289	PAYROLL	235.75
	Paycheck	08/04/2015	31301	PAYROLL	638.25
	Paycheck	08/04/2015	31304	PAYROLL	488.75
	Paycheck	08/04/2015	31316	PAYROLL	304.75
	Paycheck	08/04/2015	31321	PAYROLL	533.25
	Paycheck	08/18/2015	31337	PAYROLL	101.25
	Paycheck	08/18/2015	31343	PAYROLL	115.00
	Paycheck	08/18/2015	31348	PAYROLL	505.25
	Paycheck	08/18/2015	31349	PAYROLL	223.25
	Paycheck	08/18/2015	31373	PAYROLL	324.63
	Paycheck	08/18/2015	31378	PAYROLL	962.63
	Paycheck	08/18/2015	31379	PAYROLL	799.25
	Paycheck	08/18/2015	31400	PAYROLL	57.50
	Paycheck	08/18/2015	31416	PAYROLL	799.25
	Paycheck	08/18/2015	31425	PAYROLL	511.75
	Paycheck	08/18/2015	31427	PAYROLL	241.50
	Paycheck	08/18/2015	31430	PAYROLL	799.25
	Paycheck	08/18/2015	31442	PAYROLL	126.50
	Paycheck	08/18/2015	31450	PAYROLL	978.75
	Paycheck	09/01/2015	31529	PAYROLL	108.38
	Paycheck	09/01/2015	31541	PAYROLL	92.00
TOTAL INSTALL SHADE CLOTH DUE TO DROUGHT					20,733.78
TOTAL					20,733.78

ATTACHMENT F

JONES LOCAL IMPROVEMENT DISTRICT NO. 2
DROUGHT RELIEF GRANT APPLICATION

Order and Determination By the Director (May 21, 2015)

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
PO Box 47600 • Olympia, WA 98504-7600 • 360-407-6000
711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341

ORDER AND DETERMINATION BY THE DIRECTOR

Washington State is experiencing a drought emergency. We have record-low snowpack in the mountains, and snowmelt through the spring and summer is what traditionally keeps rivers flowing, crops watered, and fish alive. We are starting to feel the pain from this snowpack drought. Impacts are already severe in several areas of the state.

More than 70 percent of the state's snow monitoring stations have record-low snowpack. As a result, many of our major rivers are forecasted to have record-low flows – the lowest in the past 64 years – between April and September. This shortfall is a serious threat to municipal and domestic water supplies, irrigated agriculture, and fisheries throughout Washington.

With the concurrence of Governor Inslee and following consultation with affected Indian Tribes, I hereby expand the drought emergency to include all of Washington State.

Snowpack conditions across the state have continued to decline since the initial regional drought declaration on March 13, 2015. Dozens of major rivers are at record-low flows for this date. The longer-term weather forecast is for warmer and drier-than-normal conditions for this spring and summer. Conditions are likely to get worse.

Reduced snowpack creates risks to municipal and domestic water supplies. The Department of Health has identified numerous water systems throughout the state that draw water from shallow alluvial aquifers, which are dependent on groundwater recharge from snowmelt.

Agriculture faces a risk of crop loss throughout the state. Farmers in the Yakima and the Walla Walla basins are being curtailed, which could have devastating impacts on orchards and vineyards. Curtailment is likely to occur in the Little Spokane, Nooksack, and Chehalis basins, and could occur for the first time ever in the Colville Basin. Loss to perennial crops in these regions would be a significant hardship to individual farmers and agricultural communities.

Throughout the state, there is a high risk that fish populations will experience hardship from extremely low flowing rivers this year. Hatcheries will face warmer water, increased risk of disease, and potential loss of water supply. Tributaries and smaller streams may drop to levels where stream channels become impassible to fish. Pools of water will become disconnected from other pools, isolating fish and increasing the risks of predation and harassment.

Therefore, in accordance with the provisions of RCW 43.83B.405, IT IS ORDERED that all of Washington state is hereby under a drought emergency. This order is effective immediately and shall remain in effect through December 31, 2015, unless terminated prior to that date.

In accordance with the provisions of WAC 173-166-060, the Department of Ecology may, under the terms of this order, take the following emergency actions:

1. Issue emergency permits for water.
2. Approve temporary transfers of water rights.
3. Provide funding assistance to public agencies to alleviate drought conditions.
4. Take other actions depending on future developments.

Other state and local agencies with authority to issue permits or authorizations related to the drought emergency actions must provide a decision to an applicant within fifteen (15) calendar days of the date of application.

In accordance with the proclamation of the Washington Governor, dated January 3, 1989, (Centennial Accord), nothing herein shall impair or infringe upon the treaty reserved rights or governmental authority of any federally recognized Indian tribe nor shall this order be deemed an assertion of state authority over Indian reservation lands. The Department of Ecology intends to work cooperatively, on a government-to-government basis, with all affected tribes.

Further details about this order or the actions available under it, may be obtained by contacting:

Jeff Marti, Department of Ecology
PO Box 47600
Olympia, WA 98504-7600
360-407-6627
Jeff.marti@ecy.wa.gov

Applications for emergency water permits or temporary transfers of water rights are available by contacting one of the Department of Ecology's regional offices:

Northwest Regional Office Bellevue, WA Office: 425-649-7020 Email: arha461@ecy.wa.gov	Central Region Office Yakima, WA Office: 509-575-2597 Email: sueb461@ecy.wa.gov
Southwest Regional Office Lacey, WA Office: 360-407-6859 Email: oday461@ecy.wa.gov	Eastern Regional Office Spokane, WA Office: 509-329-3541 Email: awat461@ecy.wa.gov

DATED this 21st day of May, 2015.

Maia D. Bellon

Maia D. Bellon, Director
Department of Ecology

ATTACHMENT G

JONES LOCAL IMPROVEMENT DISTRICT NO. 2
DROUGHT RELIEF GRANT APPLICATION

Supplemental Narrative

SUPPLEMENTAL NARRATIVE

Grant Applicants:

1. **Grant Applicants – Jones Local Improvement Districts.**

Jones Local Improvement District Nos. 1 and 2 are public bodies recognized under WAC 173-167-030. The LIDs are established within the external boundaries of the parent public entity – Roza Irrigation District and formed pursuant to statutory authority under RCW 87.03.485. Petition for formation of the local improvements district together with supporting documents have been accepted by Roza Irrigation District and public hearing is scheduled for October 6, 2015. The LIDs will be established pursuant to statutory authority following public hearing.

This application is consistent with loan and grant assistance processes to public bodies under prior draught authorizations including assistance under Chapter 1, Laws of 1977 First Extraordinary Session (Emergency Drought Law).[1] The local improvement districts are formed as nonprofit corporations filed with the state of Washington, Secretary of State. Property owners with LID boundaries will provide cash match totaling Fifty Percent (50%) of the total eligible cost of the project. Funds used as match will not originate from any other state or federal funds. *WAC 173-167-040(2).* Well sites will be contributed by the property owners to the respective LIDs which shall hold fee title to the property location. The LID will operate as a nonprofit corporation providing benefits to agriculture properties within the boundaries established for the Local Improvement District. All costs of operation and maintenance will be the proportionate responsibility of property owners within the LID. The LID will be managed by a Board of Directors representing property owners within the District boundaries.

2. **Application and Compliance with WAC Ch. 173-167.**

The application submitted by Jones Local Improvement District Nos. 1 and 2 are for a water supply project which develops an emergency or alternate water source. WAC 173-167-080. The immediate and emergent need for the proposed project is caused by a reduction in water supply presently causing significant hardships on the agricultural operations within the district causing significant economic impacts. The funding request relates to an existing use under legal rights (including emergency drought authorization for additional wells). The historic use, economic impact and project costs are set forth in detail in the application. Photographs are also provided showing impacts to both permanent and annual crops.

Contracting and work on the wells has begun and time is of the essence. The project can be implemented in a timely manner and is necessary to address serious water issues with respect to

[1] State of Washington addressed draught conditions impacting the agricultural industry in Chapter 1, Laws of 1977 First Extraordinary Session. Loan and grant assistance was offered to public entities for construction of water withdrawal facilities authorized in Sections 3 and 4 of the Emergency Drought Law. Grant and loan assistance was provided only after formation of appropriate LIDs or other public bodies within the external boundaries of a parent public entity (e.g. Irrigation District). The current application and organization structure were based upon prior authorized approaches developed by Department of Ecology in the context of drought assistance loan and grant programs.

the existing crop and protection of permanent crops. The project can and must be implemented within this current drought authorization.

3. Farming History

The Jones Family began farming near Zillah, Washington in 1946. They originally started farming in North Dakota and moved to the Yakima Valley which was considered "the land of opportunity". They began as farm workers and eventually in 1946 they were able to purchase 320 acres of native range land with scattered sagebrush. They cleared the land and soon it blossomed into productive irrigated row cropland where they raised wheat, corn, mint, alfalfa, and sugar beets.

In 1974, brothers Dennis and Will Jones, and their wives each purchased an additional 100 acres of adjoining land. In 2004 they purchased the remainder of the family farm from their parents. All of their land has relatively high elevation with good air drainage and is well suited for tree fruit crops.

Today Jones Farms consists of three families; Dennis and Linda Jones, and Will and Barbara Jones who are third generation farmers, and Denny and Deborah Jones who are fourth generation farmers.

As the generations changed, so did the crops. Today the Jones Families raise a variety of unique high value organic and conventional tree fruit and produce crops. They have approximately 252.94 acres of mostly high density organic orchards consisting of cherries, apples, pears, peaches, and nectarines. Their fruit is packed and marketed all over the world by Allan Brothers Fruit Company and Matson Fruit Company. Most of the apples they raise are ENZA club varieties including Pacific Rose, Jazz, and Envy. They are all proprietary varieties and require the payment of royalties to grow. The current cost to develop a high density tree fruit orchard is $30,000 - $45,000 per acre depending on the variety, conventional or organic, density, type of trellis, and irrigation system. That investment does not include land which has a current market value of $12,000 - $14,000 per acre for irrigated cropland that can be developed to permanent crops.

The Families also grow and direct market fresh produce including tomatoes, sweet corn, water melons, cantaloupe, pumpkins, and squash. In 1991 the Families began Jones Farms Fruit Stand near Zillah. In 2008 they started a second fruit stand in West Yakima and now direct market over 200 acres of fresh produce crops throughout the Pacific Northwest.

Jones Families irrigation water is provided by the Roza Irrigation District. The Roza Irrigation District has a junior water right under the Yakima Irrigation Project and is subject to pro-ration in short irrigation water years. Over the years the Families have invested millions of dollars employing modern farming and irrigation technology to conserve and maximize the use of their irrigation water. They have piped all of their open laterals, installed micro-sprinkler irrigation systems, installed drip irrigation systems in both fruit and annual produce crops, built two large lined irrigation water storage reservoirs, installed sophisticated filtration systems, and utilize shade cloth and anti-transpiration products to grow fruit crops. Without adequate irrigation water

supplies, conservation and efficient management of irrigation water has its limits.

The key to the Families' success has been raising exceptional quality fruit and produce. To maintain their quality standards their crops need a stable source of irrigation water. In July 1992 they filed Application G4-31331 with the Washington State Department of Ecology (DOE) for the construction and development of two irrigation wells. That Application was never acted on by DOE until July 2015.

Due to a warm winter and the lack of snow pack in 2014 - 2015 the DOE declared a Drought Emergency. For the Families, 2015 has been the most challenging farming year ever with the Roza Irrigation District only able to deliver 46% of their normal irrigation water supply. Roza also shut down irrigation deliveries for three weeks in May to conserve irrigation water for permanent crops later in the growing season and are scheduled to have an early shut off date.

The Families have been behind on irrigating their 2015 crops all season because of reduced irrigation water supplies. They have had to take irrigation water from young non-bearing trees to support growing crops. As a result, young tree growth has been poor and some of their 2015 plantings have numerous dead trees. They have lost at least one year of tree growth on young trees and future production will be delayed as a result of the drought. Some of their mature orchards show signs of drought stress and have begun to defoliate. Some of their cherry trees are blooming in September which is highly unusual and of great concern as to the long term effects of the drought. The opportunity costs associated with lost tree growth and delayed production is very real; but difficult to quantify. Insect pests and weeds have also been more prevalent this year on all crops because of the drought.

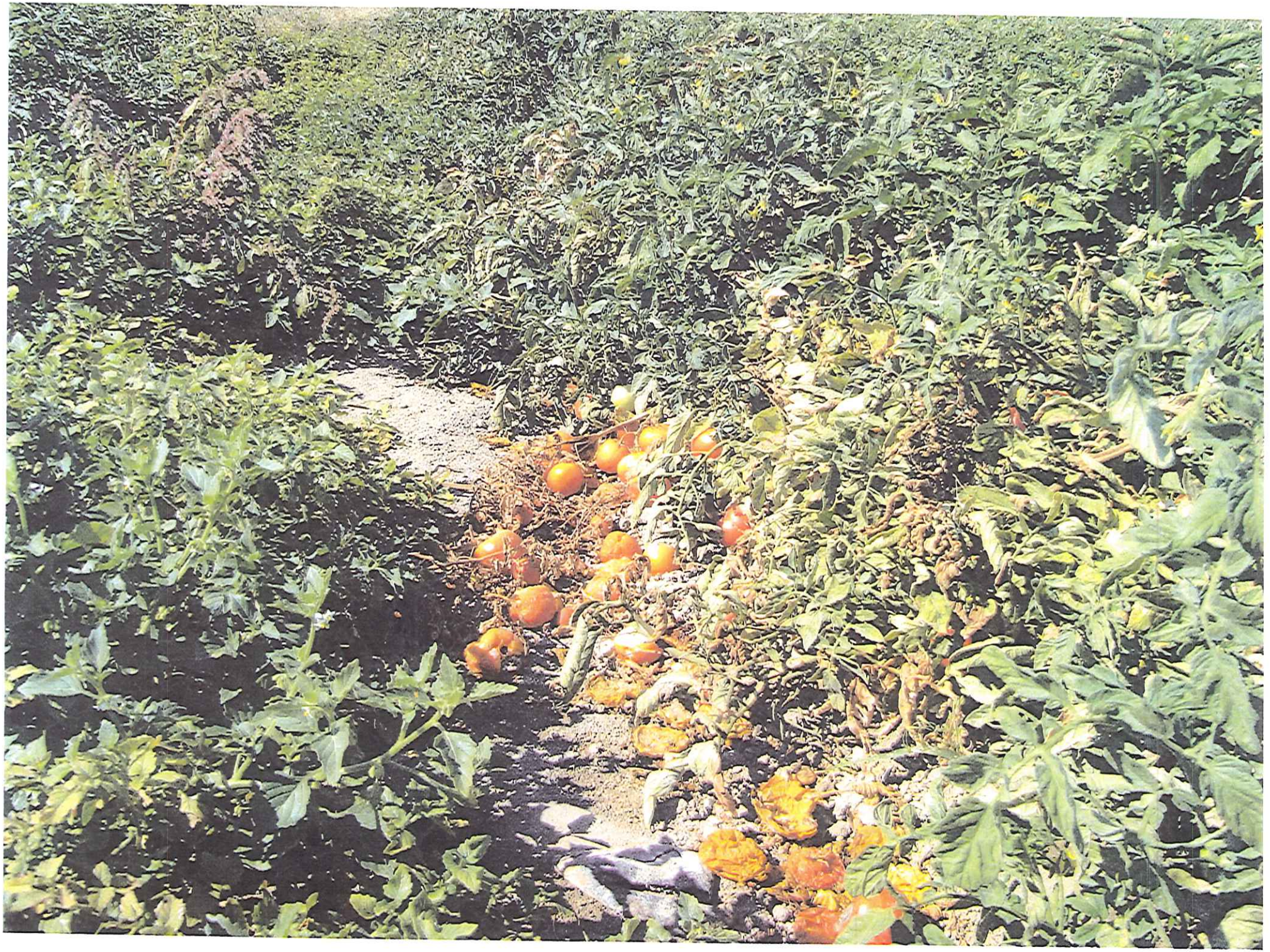
The 2015 harvest has been completed on only a few produce and tree fruit crops to date. In general, yields have been lower, fruit and produce size has been smaller, and fruit and produce quality has been poorer as a result of the drought.

In July 2015 the DOE authorized the Jones Families to construction and development two irrigation wells under Emergency Drought Authorization No. G4-34961-15. After a lot of sleepless nights and consideration the Families decided to invest over $1,000,000 and construct and develop two irrigation wells. Long term, the Jones Families plan to purchase mitigation water and/or supplemental irrigation water rights when needed in short irrigation water years. The Families don't feel they have a choice and need to develop additional sources of stable irrigation water since their future success depends on raising quality fruit and produce crops.

The Families began drilling the first well in late July. The well is about complete and the second well will be completed by early October. The startup of the wells will coincide with the Roza Irrigation District's shut off which is scheduled to be a month early this year. At this time the Families greatest concern and risk is the lack of fall irrigation water for their orchards. Fruit trees going into the winter dehydrated with dry soils are much more susceptible to permanent winter damage or death; especially young trees. Current replacement costs of their orchards is estimated to be over $10,000,000 which does not include any opportunity costs for lost production.

ATTACHMENT H

JONES LOCAL IMPROVEMENT DISTRICT NO. 2

DROUGHT RELIEF GRANT APPLICATION

Color Photographs