

| <u>4. Well or Diversion</u> | <u>Motor Make</u>  | <u>Hp</u> | <u>Motor Serial No.</u> | <u>Pump Make</u>    | <u>Pump Serial No. or Discharge Size</u> |
|-----------------------------|--------------------|-----------|-------------------------|---------------------|------------------------------------------|
| <u>ID No.*</u><br>N/A       | A.O. Smith Century | 5         | BZ02                    | Jacuzzi Centrifugal | unknown - 4" discharge                   |

**D. FLOW MEASUREMENTS****1. Measurement**

| <u>Equipment</u>               | <u>Type</u> | <u>Make/Model No.</u> | <u>Serial No.</u> | <u>Size</u> | <u>Calib. Date</u> |
|--------------------------------|-------------|-----------------------|-------------------|-------------|--------------------|
| No physical measurement @ exam | N/A         | N/A                   | N/A               | N/A         | N/A                |

See Flow Calculations Section below for Sprinkler System & Pipe Dia Flow Estimations.

2. Measurements: No water in Jackass Creek at time of exam. Usually, creek dry by early part of July each year.

**E. FLOW CALCULATIONS**

  X   Additional Computation Sheets Attached

**Measured Method: Sprinkler System Estimation:**

# of lines @ one time = 1

# of sprinkler heads @ one time = 2 heads

Type of sprinklers = Weather Tec 10-85 (similar to Weather Tec 10-80)

Nozzle size = 1/2" rated for ~ 55.3 gpm @ 60 psi (Per Weather Tec 10-80 specification sheet attached)

$Q = \# \text{ heads} \times \text{gpm} = 2 \times 55.3 \text{ gpm} = 110.6 \text{ gpm} = \mathbf{0.25 \text{ cfs}}$  est. discharge from sprinklers

**Measured Method: Pipe Diameter Flow Estimation:**

Discharge Pipe Dia = 4 in ->  $Q = \mathbf{0.44 \text{ cfs}}$  (see attached "Expected Flows For Pipe Diameters" computation sheet)

Sprinkler System Estimation = **0.25 cfs**

Pipe Diameter Flow Estimation = **0.44 cfs**

Permitted Rate = **0.30 cfs**

Beneficial Use Limit = 4.2 ac (acreage found)  $\times$  0.03 cfs/ac = **0.13 cfs**

Proof of Beneficial Use fee paid = \$100.00 = up to **1.00 cfs**

**Recommend Beneficial Use Limit Rate = 0.13 cfs**

Beneficial Use Limit rate recommended as system is capable of diverting enough to provide 0.03cfs/ac, when water is available.

**F. VOLUME CALCULATIONS**

- Volume Calculations for Irrigation: N/A – irrigation from surface water source.
- Volume Calculations for Other Uses: N/A – no other uses permitted.

**G. NARRATIVE/REMARKS/COMMENTS****SYSTEM DESCRIPTION:**

System consists of a 5 hp pump with a 4" discharge line piped underground to 4" mainline with risers ~ 80 ft apart from which up to two Weather Tec 10-85 sprinklers with 1/2" nozzles are used to irrigate pasture grass. Pump located at a check dam on Jackass Creek where water is pooled for overlapping on-stream storage right 65-13740. There was no water in the creek or on-stream storage pond at time of exam.

**IRRIGATION PRACTICES:**

Pasture grass irrigated with two end-gun type sprinklers. Irrigate when water present in stream, usually early October and from spring runoff through first part of July. Typically, there is no water in Jackass Creek after middle of July.

**OWNERSHIP:**

Mr. Dutoit stated Mr. Drake has passed away since issuance of this permit. Mr. Dutoit recommended Mr. Drake be removed from the ownership for this water right record. Department policy requires submittal of a death certificate before Mr. Drake can be removed as an owner of the right. Mr. Dutoit should be informed of this requirement at time of licensing.

**G. NARRATIVE/REMARKS/COMMENTS CONTINUED****OVERLAP:**

The pump diverting water for this permit (65-13739) is located on Jackass Creek at the check dam for on-stream storage right 65-13740, thus 65-13740 is a POD overlapping right. There are no other overlapping rights associated with the POU or POD.

**COMPLIANCE WITH PERMIT CONDITIONS:**

No measuring device or lockable controlling works has been installed. Mr. Dutoit requested this condition be waived/modified considering he does not divert water for irrigation when there is no water in the creek. Spoke with Basin 65 Watermaster Ron Shurtleff 1/28/13 regarding this diversion. He stated typically diversions 4 acres or more are required to measure and report for regulation within the water district and Mr. Dutoit's use may impact senior rights downstream. He requested the Department request compliance with the water district related conditions of this permit. Per this request, a letter was sent to Mr. Dutoit (1/30/2013) requesting he contact the watermaster directly for assistance in complying with the permit requirements. As of 6/19/2013, Mr. Dutoit installed a measuring device. On 9/25/2015, received a confirmation email for Ron Shurtleff indicated Mr. Dutoit's diversion is in compliance with condition(s) requiring measuring and lockable control device(s).

To the best of my knowledge, owner has complied with all other permit conditions.

Have conditions of permit approval been met? ☒ Yes ☐ No

**H. RECOMMENDATIONS****1. Recommended Amounts**

| <u>BENEFICIAL USE</u> | <u>PERIOD OF USE</u> | <u>DIVERSION RATE</u> | <u>ANNUAL VOLUME</u> |
|-----------------------|----------------------|-----------------------|----------------------|
| IRRIGATION            | 03/15 to 10/31       | 0.13 CFS              | N/A                  |
|                       | <u>Totals:</u>       | 0.13 CFS              | N/A                  |

**2. Recommended Amendments**

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None  
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

**I. AUTHENTICATION**

Field Examiner's Name \_\_\_\_\_ Date \_\_\_\_\_

Reviewer \_\_\_\_\_ Date \_\_\_\_\_

# 65-13739 Beneficial Use Field Report System Diagram & Map

R02E



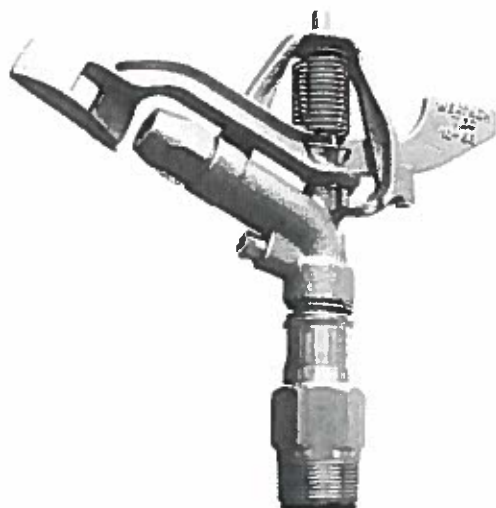
0 0.0175 0.035 0.07 Miles

- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections
- Quarter Quarters



# WEATHER TEC AGRICULTURAL PRODUCTS

## 1 1/4" Impact Sprinklers - Full Circle



### Model

### 10-80

- Full circle impact – range nozzle at 23° trajectory and spreader nozzle at 15° trajectory
- 1 1/4" Male N.P.T.-Dual nozzle with straightened-stream standard
- Cast-bronze head with cored water passages and double-bridge construction
- Cast-bronze lever with I-Beam construction for added strength
- Wide impact area increases lever life
- Stainless steel spindle, fulcrum pin, lever spring, and bearing spring for long-wearing durability
- Designed as a large all-purpose single-or-dual-nozzle, intermediate-to-high-pressure sprinkler
- Range nozzle drive permits single-or-dual-nozzle application for increased flexibility
- Used on quick-coupler systems – row crop
- Also useful in any situation which requires extreme diameters or high flow rate, such as pasture, grain and similar applications
- Ideal for waste-water applications

Model 10-80 Single Plain Nozzle Standard Nozzle Performance(Nominal stream height 14' above nozzle@ normal pressure)

| Nozzle | 11/32    | 3/8      | 13/32    | 7/16     | 15/32    | 1/2      | 17/32    | 9/16     | 5/8       | 11/16     | 3/4       |
|--------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|
| PSI    | Dia. GPM | Dia. GPM | Dia. GPM | Dia. GPM | Dia. GPM | Dia. GPM | Dia. GPM | Dia. GPM | Dia. GPM  | Dia. GPM  | Dia. GPM  |
| 60     | 164 26.4 | 168 31.6 | 176 36.8 | 180 43.1 | 184 49.0 | 192 55.3 | 198 62.5 | 206 70.4 | 210 83.8  | 218 99.6  | 224 118.5 |
| 65     | 168 27.4 | 172 32.9 | 180 38.2 | 184 44.9 | 188 51.0 | 196 57.5 | 202 65.0 | 210 73.2 | 214 87.2  | 222 103.5 | 228 123.3 |
| 70     | 172 28.4 | 176 34.1 | 184 39.7 | 188 46.5 | 192 52.9 | 200 59.6 | 206 67.4 | 214 76.0 | 218 90.4  | 226 107.2 | 232 128.0 |
| 75     | 174 29.4 | 180 35.2 | 188 41.0 | 192 48.1 | 196 54.7 | 204 61.6 | 210 69.8 | 218 78.6 | 222 93.5  | 230 110.8 | 236 132.4 |
| 80     | 179 30.3 | 184 36.4 | 192 42.3 | 196 49.7 | 200 56.5 | 208 63.6 | 214 72.1 | 222 81.1 | 226 96.5  | 234 114.3 | 240 136.7 |
| 85     | 180 31.2 | 188 37.4 | 196 43.6 | 200 51.2 | 204 58.2 | 212 65.6 | 218 74.3 | 226 83.6 | 230 99.4  | 238 117.7 | 244 140.9 |
| 90     | 182 32.1 | 190 38.5 | 198 44.8 | 202 52.7 | 206 59.8 | 214 67.4 | 220 76.4 | 228 86.0 | 234 102.2 | 242 121.0 | 248 145.0 |
| 95     | 184 32.9 | 192 39.5 | 200 46.0 | 204 54.1 | 208 61.4 | 216 69.2 | 222 78.5 | 230 88.4 | 238 104.9 | 246 124.2 | 252 148.9 |
| 100    | 186 33.8 | 194 40.5 | 202 47.2 | 206 55.5 | 210 63.0 | 218 71.0 | 224 80.6 | 232 90.6 | 242 107.6 | 250 127.2 | 256 152.7 |

Model 10-80 Dual Plain Nozzle Standard Nozzle Performance(Nominal stream height 14' above nozzle@ normal pressure)

| Nozzle | 11/32x7/32 | 3/8x7/32 | 13/32x7/32 | 7/16x7/32 | 15/32x7/32 | 1/2x1/4  | 17/32x1/4 | 9/16x1/4 | 5/8x1/4  | 11/16x1/4 | 3/4x1/4  |
|--------|------------|----------|------------|-----------|------------|----------|-----------|----------|----------|-----------|----------|
| PSI    | Dia. GPM   | Dia. GPM | Dia. GPM   | Dia. GPM  | Dia. GPM   | Dia. GPM | Dia. GPM  | Dia. GPM | Dia. GPM | Dia. GPM  | Dia. GPM |
| 60     | 164 36.5   | 168 41.4 | 176 46.6   | 180 51.5  | 184 57.2   | 192 67.0 | 198 72.5  | 206 80.5 | 210 95   | 218 115   | 224 122  |
| 65     | 168 38.0   | 172 43.2 | 180 48.6   | 184 53    | 188 59.8   | 196 70.0 | 202 75.8  | 210 84.1 | 214 99   | 222 120   | 228 127  |
| 70     | 172 40.1   | 176 44.9 | 184 50.4   | 188 55.9  | 192 62.1   | 200 72.6 | 206 78.5  | 214 87.4 | 218 103  | 226 124   | 232 131  |
| 75     | 174 41.0   | 180 46.7 | 188 52.4   | 192 57.9  | 196 64.3   | 204 75.4 | 210 81.6  | 218 90.7 | 222 107  | 230 128   | 236 135  |
| 80     | 176 42.6   | 184 48.3 | 192 54.3   | 196 60.0  | 200 66.7   | 208 78.0 | 214 84.5  | 222 93.6 | 226 110  | 234 132   | 240 140  |
| 85     | 180 43.8   | 188 49.8 | 196 56.0   | 200 62.0  | 204 68.8   | 212 80.5 | 218 86.7  | 226 96.9 | 230 114  | 238 137   | 244 143  |
| 90     | 182 45.7   | 190 51.4 | 198 57.9   | 202 63.9  | 206 70.7   | 214 82.6 | 220 90.0  | 228 99.5 | 234 117  | 242 141   | 248 147  |
| 95     | 184 46.6   | 192 53.0 | 200 59.6   | 204 65.8  | 208 72.8   | 216 85.0 | 222 92.5  | 230 102  | 238 121  | 246 144   | 252 152  |
| 100    | 186 47.9   | 194 54.5 | 202 61.2   | 206 67.5  | 210 74.8   | 218 87.2 | 224 94.6  | 232 105  | 242 124  | 250 148   | 256 156  |

**EXPECTED FLOWS FOR PIPE DIAMETERS**

This is for rough estimate for **pump & closed pipeline** system.

Use to double check other measurements/estimates.

Assumes optimum design.

$$Q = VA \quad \text{where: } V = 5 \text{ ft/sec} \quad A = \pi r^2 \quad (\text{radius in ft.})$$

| DIAMETER<br>(INCHES) | RATE<br>(CFS) |
|----------------------|---------------|
| 01                   | 0.03          |
| 02                   | 0.11          |
| 03                   | 0.25          |
| 04                   | 0.44          |
| 06                   | 0.98          |
| 08                   | 1.74          |
| 10                   | 2.73          |
| 12                   | 3.93          |
| 14                   | 5.34          |
| 16                   | 6.98          |
| 18                   | 8.83          |
| 20                   | 10.90         |
| 22                   | 13.19         |
| 24                   | 15.70         |
| 36                   | 35.34         |
| 48                   | 62.83         |

## 65-13739 Beneficial Use Field Report Photos



65-13739 Exam 9/14/2012: P/D motor and pump directly adjacent to check dam on Jackass Creek.



65-13739 Exam 9/14/2012: Portion of POU adjacent to Jackass Creek facing north.

## Grimm, Angie

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**From:** Ron Shurtleff [waterdist65@srvinet.com]  
**Sent:** Friday, September 25, 2015 3:35 PM  
**To:** Grimm, Angie  
**Subject:** Steve Dutoit and John Drake, 65-13739

Mrs. Grimm,

I wish to report to you that I was able to visit with Mr. Steve Dutoit on December 18, 2014, to inspect the measurement, and the locking device installed on his diversion from Jackass Creek. The measurement device is satisfactory for the administration of the water rights and the ability to lock the system is also satisfactory.

Mr. Dutoit's diversion is in compliance with the condition to install a measuring and lockable control devise.

If you have any questions please do not hesitate to contact me at 208-642-4465.

Thank you,

**Ron Shurtleff**

Water District No. 65  
102 N. Main  
Payette, ID 83661  
Phone: 208-642-4465  
Fax: 208-642-1042  
Cell: 208-642-0230

## Grimm, Angie

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**From:** Grimm, Angie  
**Sent:** Monday, June 16, 2014 7:59 AM  
**To:** 'waterdist65@srvinet.com'  
**Subject:** FW: WR Permit # 65-13739 Dutoit  
**Attachments:** 65\_13739\_Dutoit\_WDComplianceReqLtr.pdf; 65\_13739\_Dutoit\_DraftFieldExamReport.pdf

Ron,

Good morning! I'm sending this email to follow up on Mr. Steve Dutoit's permit I'm attempting to license. To recap: Mr. Dutoit was required to install a lockable controlling works and measuring device as condition(s) of his permit 65-13739 for irrigation use from Jackass Creek near Horseshoe Bend. I examined Mr. Dutoit's water use on 9/14/2012 (copy of draft report attached). Mr. Dutoit did not have a measuring device or lockable controlling works at that time. He requested a waiver from this condition due to limited availability of water supply. I spoke with you regarding this request and sent a letter dated 1/30/2013 (copy attached) indicating a waiver is not allowable, and Mr. Dutoit would need to comply with the requirements.

On 6/19/2013, I followed up with Mr. Dutoit who confirmed at that time that a measuring device has been installed. I spoke with you that same day at which time you indicated you would conduct a site visit to confirm. I indicated to you I would need something in writing from you confirming you were ok with the device(s) installed and that Mr. Dutoit has complied with the permit requirements BEFORE I can complete licensing of Mr. Dutoit's permit.

To date, I have received no written confirmation from you. Have you had a chance to visit the site this past year? Is Mr. Dutoit in compliance with the conditions. If you could follow up in writing as to Mr. Dutoit's compliance and or give me a call with a status update on this matter I would greatly appreciate it. I just don't want this to fall through the cracks. I appreciate your attention to this matter. I look forward to your response.

Thanks,  
Angie

Angela M. Grimm, P.G.  
Water Resources Agent, Sr.  
IDWR - Western Region  
2735 Airport Way  
Boise, ID 83705-5082  
(208) 334-2190 phone  
(208) 334-2348 fax

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**From:** Grimm, Angie  
**Sent:** Wednesday, January 30, 2013 9:26 AM  
**To:** [waterdist65@srvinet.com](mailto:waterdist65@srvinet.com)  
**Subject:** WR Permit # 65-13739 Dutoit

Ron,

Thank you for taking the time to discuss my exams associated with diversions in the Horseshoe Bend area Monday. I appreciate your time and insight. As promised, I've attached to this email a copy of a letter I mailed to Mr. Dutoit today regarding his diversion and lack of measuring device or lockable controlling works. Hopefully, you will be hearing from

Mr. Dutoit in the not too distant future. Also, I've attached a draft copy of the beneficial use field report I've written for Mr. Dutoit's diversion. Hope this information is helpful moving forward. Thanks again for all your help.

Thanks,  
Angie

Angela M. Grimm, P.G.  
Water Resource Agent, Sr.  
IDWR - Western Region  
2735 Airport Way  
Boise, ID 83705-5082  
(208)334-2190 phone  
(208)334-2348 fax

## Grimm, Angie

---

**From:** Grimm, Angie  
**Sent:** Wednesday, January 30, 2013 9:26 AM  
**To:** waterdist65@srvinet.com  
**Subject:** WR Permit # 65-13739 Dutoit  
**Attachments:** 65\_13739\_Dutoit\_WDComplianceReqLtr.pdf; 65\_13739\_Dutoit\_DraftFieldExamReport.pdf

Ron,

Thank you for taking the time to discuss my exams associated with diversions in the Horseshoe Bend area Monday. I appreciate your time and insight. As promised, I've attached to this email a copy of a letter I mailed to Mr. Dutoit today regarding his diversion and lack of measuring device or lockable controlling works. Hopefully, you will be hearing from Mr. Dutoit in the not too distant future. Also, I've attached a draft copy of the beneficial use field report I've written for Mr. Dutoit's diversion. Hope this information is helpful moving forward. Thanks again for all your help.

Thanks,  
Angie

Angela M. Grimm, P.G.  
Water Resource Agent, Sr.  
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State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: [www.idwr.idaho.gov](http://www.idwr.idaho.gov)

C. L. "BUTCH" OTTER  
Governor

GARY SPACKMAN  
Interim Director

January 30, 2013

STEVE DUTOIT  
PO BOX 369  
HORSESHOE BEND ID 83629-0369

**Re: Water Right Permit # 65-13739 - Compliance with Permit Conditions**

Dear Mr. Dutoit:

The Idaho Department of Water Resources (IDWR) conducted a beneficial use field examination for the above referenced permit authorizing irrigation from Jackass Creek. The permit conditions of approval require a measuring device and lockable controlling works as part of regulation within Payette River Water District No. 65. The requirements were not met. You requested a waiver/modification of the conditions based on limited times when water is available for irrigation.

IDWR discussed your request with Ron Shurtleff, Water District No. 65 Watermaster. He stated your diversion may impact senior water rights, diversions similar to yours are actively regulated within the water district, and a waiver of the condition(s) is not approvable at this time. Accordingly, IDWR requests you contact him to discuss your diversion and what actions are necessary for compliance with your permit (208-642-4465 or [waterdist65@srvinet.com](mailto:waterdist65@srvinet.com)).

**Please submit written confirmation from the Watermaster as follows: (1) a measuring device and lockable controlling works have been installed to the satisfaction of the Watermaster; OR (2) the Watermaster has approved your plan showing how you will comply with these requirements. Option 2 must include your commitment to complete the work before diverting water this year. Your written response must be provided within the next sixty (60) days. The permit will be voided without a timely written reply, and you will no longer be able to divert water from the creek.**

IDWR rules, forms and other information are available on the Internet at [www.idwr.idaho.gov](http://www.idwr.idaho.gov). Please contact me at 208-334-2190 if you need more information. Thank you for your attention to these matters.

Sincerely,

Angela M. Grimm, P.G.  
Water Resource Agent, Sr.

Cc. Ron Shurtleff, Water District No. 65 Watermaster



State of Idaho

**DEPARTMENT OF WATER RESOURCES**

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: [www.idwr.idaho.gov](http://www.idwr.idaho.gov)

C. L. "BUTCH" OTTER  
Governor

GARY SPACKMAN  
Interim Director

July 19, 2012

Steve Dutoit and  
John Drake  
P.O. Box 369  
Horseshoe Bend, ID 83629

**RE: Scheduling Field Exam(s) for Water Right Permit No. 65-13739 and 65-13791**

Dear Mr. Dutoit and Mr. Drake:

We are planning to **conduct water right examinations** in the vicinity of the above-referenced permit **during the weeks of July 23 and July 30, 2012**. An examination is needed to verify your water use in order to issue a water right license.

Please be advised that you will need to operate your system under normal conditions during the examination. Permit 65-13739 authorizes diversion of Jackass Creek water for irrigation of up to 15 acres. Permit 65-13791 authorizes diversion of spring water for domestic use for 1 home.

In order to conduct your exam(s) as efficiently as possible, we ask that you call this office to schedule a day and time convenient for you. **Please call me at 208-334-2190 by July 27, 2012.** If there is a problem with scheduling or conducting the examination at this time, please call and other arrangements can be made. I appreciate your attention in this matter and I look forward to hearing from you.

Sincerely,

A handwritten signature in cursive script that reads "Angela M. Grimm".

Angela M. Grimm, P.G.  
Water Resource Agent, Sr.