State of Idaho
Department of Water Resources

Water Right License

Water Right No. 67-15185

Priority: November 26, 1996

Maximum Diversion Volume: 0.5 AF

It is hereby certified that:

KATHLEEN R CARTER 1955 HWY 95 WEISER ID 83673 AND/OR
RONNIE L CARTER 1955 HWY 95 WEISER ID 83673

has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated October 9, 1996, and has submitted Proof of Beneficial Use on August 18, 2000. An examination confirms water is diverted from:

Source : UNNAMED STREAMS **Tributary:** SAGE CREEK

Beneficial Use	Period of Use	Rate of Diversion	Annual Volume
STOCKWATER STORAGE	1/01 to 12/31		0.5 AF
WILDLIFE STORAGE	1/01 to 12/31		0.5 AF

Location of Point(s) of Diversion
UNNAMED STREAMS SE¼ NE¼, Sec. 29, Twp 13N, Rge 04W, B.M. WASHINGTON County

Place of Use: STOCKWATER STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
13N	04W	29				X													

Place of Use: WILDLIFE STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
13N	04W	29				X													

Conditions of Approval

1. This right authorizes total annual storage volume of 0.6 acre-feet, 0.3 acre-feet to be used for the initial filling or carryover storage of the pond and 0.2 acre-feet for the replacement of losses caused by evaporation.
2. The pond established by the storage of water under this right shall not exceed a total capacity of 0.3 acre-feet or a total surface area of 0.12 acres.
3. Use of water under this right may be regulated by a watermaster with responsibility for the distribution of water among appropriators within a water district. At the time of this approval, this water right is within State Water District No. 67.
4. No water shall be diverted under this right after June 15 of each year without prior approval of the watermaster.
5. When ordered by the Director, the right holder shall provide mitigation acceptable to the Director to offset depletion of lower Snake River flows needed for migrating anadromous fish. The amount of water required for mitigation, which is to be released into the Snake River or a tributary for this

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State of Idaho
Department of Water Resources

Water Right License

Water Right No. 67-15185

purpose, will be determined by the Director based upon the reduction in flow caused by the use of water pursuant to this right. Any order of the Director issued in accordance with this paragraph shall be in conformance with applicable rules allowing the right holder due process as the need for mitigation and the amount of mitigation are determined.

This license is issued pursuant to the provisions of Idaho Code § 42-219. The water right confirmed by this license is subject to all prior water rights and shall be used in accordance with Idaho law and applicable rules of the Department of Water Resources.

Signed this 30th day of June, 2023.

SCOTT STORMS
Water Rights Supervisor

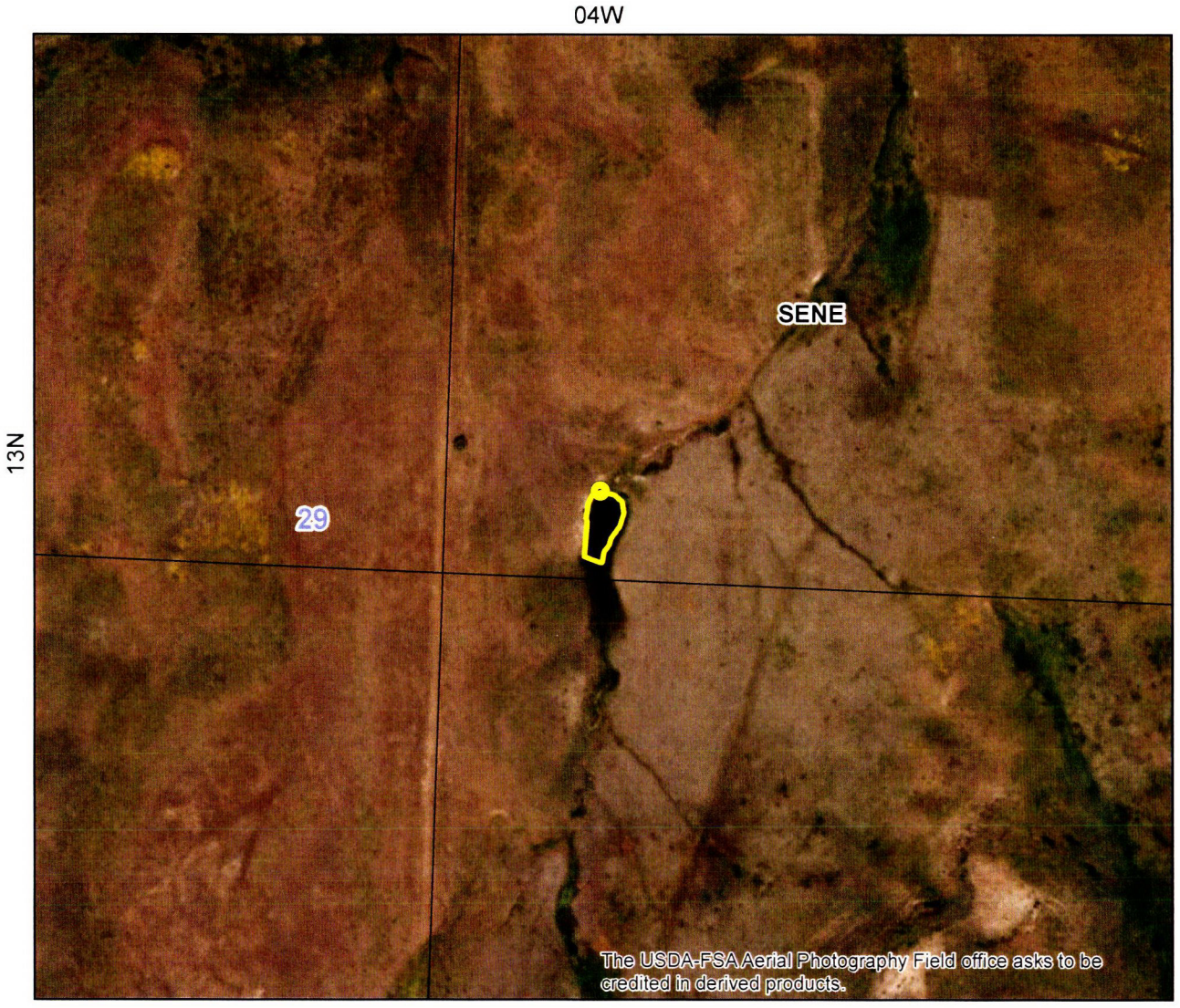
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State of Idaho
Department of Water Resources

Attachment to Water Right

67-15185

This map depicts the STOCKWATER STORAGE place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



0 0.035 0.07 0.14 Miles

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

N

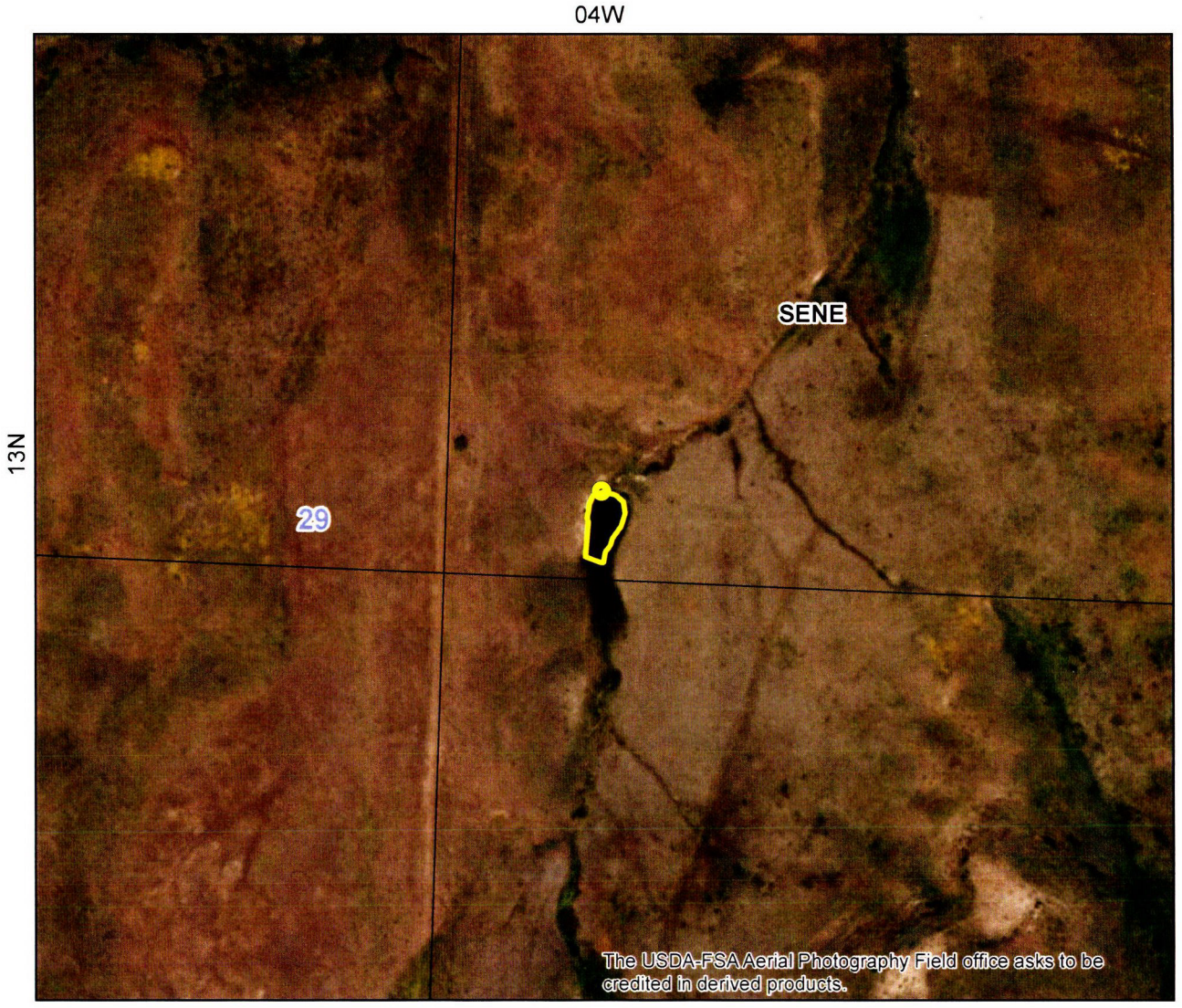
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State of Idaho
Department of Water Resources

Attachment to Water Right

67-15185

This map depicts the WILDLIFE STORAGE place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



0 0.035 0.07 0.14 Miles

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

N

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IDAHO DEPARTMENT OF
WATER RESOURCES

Western Region • 2735 W Airport Way • Boise, ID 83705-5082
Phone: 208-334-2190 • Fax: 208-334-2348 • Email: westerninfo@idwr.idaho.gov • Web: idwr.idaho.gov

Governor Brad Little

Director Gary Spackman

July 3, 2023

KATHLEEN R CARTER
RONNIE L CARTER
1955 HWY 95
WEISER ID 83673

RE: License No. 67-15185

ISSUANCE OF LICENSE

Dear Water Right Holder(s):

The Department of Water Resources ("Department") has issued the enclosed Water Right License confirming that a water right has been established in accordance with your permit. Please be sure to thoroughly review all the conditions of approval listed on your license. The conditions may include ongoing requirements, such as maintenance of a measuring device or implementation of mitigation, as well as information about how your water use may be administered, such as regulation by a watermaster in a water district.

The license is a PRELIMINARY ORDER issued by the Department pursuant to Rule 730 of the Department's Rules of Procedure (IDAPA 37.01.01.730). It can and will become a final order without further action by the Department unless a party petitions for reconsideration, files exceptions, or requests a hearing as described in the enclosed information sheet.

Also, please note that water right owners are required to report any change of water right ownership and/or mailing address to the Department within 120 days of the change. Water right forms are available from any office of the Department or on the Department's website at idwr.idaho.gov

If you have any questions concerning the enclosed information, please contact me at (208) 605-4624.

Sincerely,

Scott Storms
Water Rights Supervisor

Enclosure(s)

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CERTIFICATE OF SERVICE

I hereby certify that on July 3, 2023, I served a true and correct copy of Water Right License No. 67-15185 by U.S. Mail, postage prepaid, to the following:

KATHLEEN R CARTER (Current Owner)
1955 HWY 95
WEISER ID 83673

RONNIE L CARTER (Current Owner)
1955 HWY 95
WEISER ID 83673

WATER DISTRICT #67
KATHY SUMMERS (Watermaster)
PO BOX 829
WEISER ID 83672-0829

Scott Storms
Water Rights Supervisor

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EXPLANATORY INFORMATION TO ACCOMPANY A PRELIMINARY ORDER

(To be used in connection with actions when a hearing was **not** held)

(Required by Rule of Procedure 730.02)

The accompanying order or approved document is a "**Preliminary Order**" issued by the department pursuant to section 67-5243, Idaho Code. **It can and will become a final order without further action of the Department of Water Resources ("department") unless a party petitions for reconsideration, files an exception and brief, or requests a hearing as further described below:**

PETITION FOR RECONSIDERATION

Any party may file a petition for reconsideration of a preliminary order with the department within fourteen (14) days of the service date of this order. **Note: the petition must be received by the department within this fourteen (14) day period.** The department will act on a petition for reconsideration within twenty-one (21) days of its receipt, or the petition will be considered denied by operation of law. See Section 67-5243(3) Idaho Code.

EXCEPTIONS AND BRIEFS

Within fourteen (14) days after: (a) the service date of a preliminary order, (b) the service date of a denial of a petition for reconsideration from this preliminary order, or (c) the failure within twenty-one (21) days to grant or deny a petition for reconsideration from this preliminary order, any party may in writing support or take exceptions to any part of a preliminary order and may file briefs in support of the party's position on any issue in the proceeding with the Director. Otherwise, this preliminary order will become a final order of the agency.

REQUEST FOR HEARING

Unless a right to a hearing before the Department or the Water Resource Board is otherwise provided by statute, any person aggrieved by any final decision, determination, order or action of the Director of the Department and who has not previously been afforded an opportunity for a hearing on the matter may request a hearing pursuant to section 42-1701A(3), Idaho Code. A written petition contesting the action of the Director and requesting a hearing shall be filed within fifteen (15) days after receipt of the denial or conditional approval.

ORAL ARGUMENT

If the Director grants a petition to review the preliminary order, the Director shall allow all parties an opportunity to file briefs in support of or taking exceptions to the preliminary order and may schedule oral argument in the matter before issuing a final order. If oral arguments are to be heard, the Director will within a reasonable time period notify each party of the place, date and hour for the argument of the case. Unless the Director orders otherwise, all oral arguments will be heard in Boise, Idaho.

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CERTIFICATE OF SERVICE

All exceptions, briefs, requests for oral argument and any other matters filed with the Director in connection with the preliminary order shall be served on all other parties to the proceedings in accordance with IDAPA Rules 37.01.01302 and 37.01.01303 (Rules of Procedure 302 and 303).

FINAL ORDER

The Director will issue a final order within fifty-six (56) days of receipt of the written briefs, oral argument or response to briefs, whichever is later, unless waived by the parties or for good cause shown. The Director may remand the matter for further evidentiary hearings if further factual development of the record is necessary before issuing a final order. The department will serve a copy of the final order on all parties of record.

Section 67-5246(5), Idaho Code, provides as follows:

> Unless a different date is stated in a final order, the order is effective fourteen (14) days after its service date if a party has not filed a petition for reconsideration. If a party has filed a petition for reconsideration with the agency head, the final order becomes effective when:
>
> (a) The petition for reconsideration is disposed of; or
> (b) The petition is deemed denied because the agency head did not dispose of the petition within twenty-one (21) days.

APPEAL OF FINAL ORDER TO DISTRICT COURT

Pursuant to sections 67-5270 and 67-5272, Idaho Code, if this preliminary order becomes final, any party aggrieved by the final order or orders previously issued in this case may appeal the final order and all previously issued orders in this case to district court by filing a petition in the district court of the county in which:

i. A hearing was held,
ii. The final agency action was taken,
iii. The party seeking review of the order resides, or
iv. The real property or personal property that was the subject of the agency action is located.

The appeal must be filed within twenty-eight (28) days of this preliminary order becoming final. See section 67-5273, Idaho Code. The filing of an appeal to district court does not itself stay the effectiveness or enforcement of the order under appeal.

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STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 67-15185
Exam Date: 05/08/2017

1. Current Owner:
KATHLEEN R CARTER 1955 HWY 95 WEISER ID 83673 AND/OR
RONNIE L CARTER 1955 HWY 95 WEISER ID 83673

2. Accompanied by: RONNIE L CARTER
Phone No: (208) 355-6388
Address: 1955 HWY 95 WEISER ID 83673
Relationship to permit Holder: Owner

3. **SOURCE:** UNNAMED STREAMS
Tributary SAGE CREEK

Method of Determination: Field exam and aerial imagery

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: _____

2. Other water rights with the same point-of-diversion: NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: _____

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**
UNNAMED STREAMS SE¼ NE¼, Sec. 29, Twp 13N, Rge 04W, B.M. WASHINGTON County

Method of Determination:

PLACE OF USE: STOCKWATER

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
13N	04W	29				X													

PLACE OF USE: WILDLIFE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
13N	04W	29				X													

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PLACE OF USE: STOCKWATER STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
13N	04W	29				X													

PLACE OF USE: WILDLIFE STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
13N	04W	29				X													

Method of Determination:

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.
X Indicate weir size/pipe as applicable.

Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be
____ 1:24,000 or greater.

X Aerial Photo Attached (required for irrigation of 10+ acres).

X Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements:

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:
The inflow of the pond was equal to the outflow of the pond.

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F. VOLUME CALCULATIONS

Pond 2 Analysis:

Surface Area = 0.12 acres
Maximum Depth = 6 feet (6 ft x 0.4 = 2.4 ft average depth)
Capacity = 0.12 acres x 2.4 ft = 0.3 af
Evaporation loss = 0.2 af

1. Volume Calculations for Wildlife Storage and Stockwater Storage:

V = Pond Surface Area x Average Depth + Evaporation = 0.12 acres X 2.4 ft + 0.2 AF = 0.5 AF
V = None
Total Volume Required = **0.5 AF**

G. NARRATIVE/REMARKS/COMMENTS

On September 13, 2000, Ronnie and Kathleen Carter submitted a proof of beneficial use for water permit 67-8000. IDWR taxlot data from 7/23/2019 show that the Carter Ronnie Lynn Trustee (as of 2022 the Carter Family Living Trust) is the current owner of the property at 1955 Hwy 95 in Weiser Idaho. The field exam was conducted by water resource agent Aaron Skinner and current owner Ron Carter on May 8, 2017. The field exam write-up was completed by water resource agent, sr., Allen Bradbury.

System Description:
The original permit 67-8000 authorized a diversion rate of 1.60 cfs for irrigation, irrigation from storage, stockwater, stockwater storage, wildlife, and wildlife storage from two different unnamed streams that are tributaries of the Weiser River on 80 acres of land. However, because the two ponds are not hydraulically connected the water right was split (67-8000 for pond 1 and 67-15185 for pond 2) to describe each storage use separately.
Pond 2 is only used for stockwater storage and wildlife storage. Pond 2 is supplied by runoff from the surrounding hills but is typically full year-round. A 10-inch corrugated pvc pipe serves as an overflow back into the unnamed channel. The pond has a surface area of 0.12 acres and a maximum depth of 6 feet. Department standards suggest multiplying the maximum depth by 0.4 to calculate the average depth, which gives pond 2 an average depth of 2.4 feet. Therefore, the total capacity of pond 2 is 0.3 AF (see attached spreadsheet). The pond requires 0.2 AF for evaporation each year and no losses due to seepage because the pond was developed on-stream, for a total volume of 0.5 AF. A volume of 0.5 af is recommended.

Pond 2 is flow through water from April 1 through June 15th therefore water in equals water out. The permitted rate of 0.02 cfs and a volume of 3.0 af are recommended for stockwater and wildlife use.

Conditions:
After the field exam condition 01J was recommended to be waived because the applicant would not be able to comply. Condition 01J required a measuring device and lockable controlling works for Sage Creek. Water Master Brandi Horton-Bonner acknowledged condition 01J be waived and commented that it is not a regularly monitored creek and is dried up by mid- June.
Conditions 219 and 220 were added.
Condition R04 was replaced with condition R05 as per Department standards.
Condition R64 was removed since there is no irrigation.
Conditions 087 was removed since pond is flow through.
Condition noting "two points of diversion" removed to reflect field exam findings.
Condition 26A was removed as per Department standards.
Condition 120 was replaced with condition 103 as per Department standards.

Have conditions of permit approval been met? _X_ Yes ____ No

H. RECOMMENDATIONS

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1. Recommended Amounts

Beneficial Use	Period of Use	Rate of Diversion	Annual Volume
STOCKWATER STORAGE	1/01 to 12/31		0.6 AF
WILDLIFE STORAGE	1/01 to 12/31		0.6 AF
STOCKWATER	1/01 to 12/31	0.02 CFS	
WILDLIFE	1/01 to 12/31	0.02 CFS	
	Totals:	0.02 CFS	0.6 AF

2. Recommended Amendments

____ Change P.D. as reflected above ____ Add P.D. as reflected above __x__ None

____ Change P.U. as reflected above ____ Add P.U. as reflected above __x__ None

I. AUTHENTICATION Allen Bradbury -

Field Examiner's Name Allen Bradbury Date 6/30/23

Reviewer _____ Date 6/30/2023

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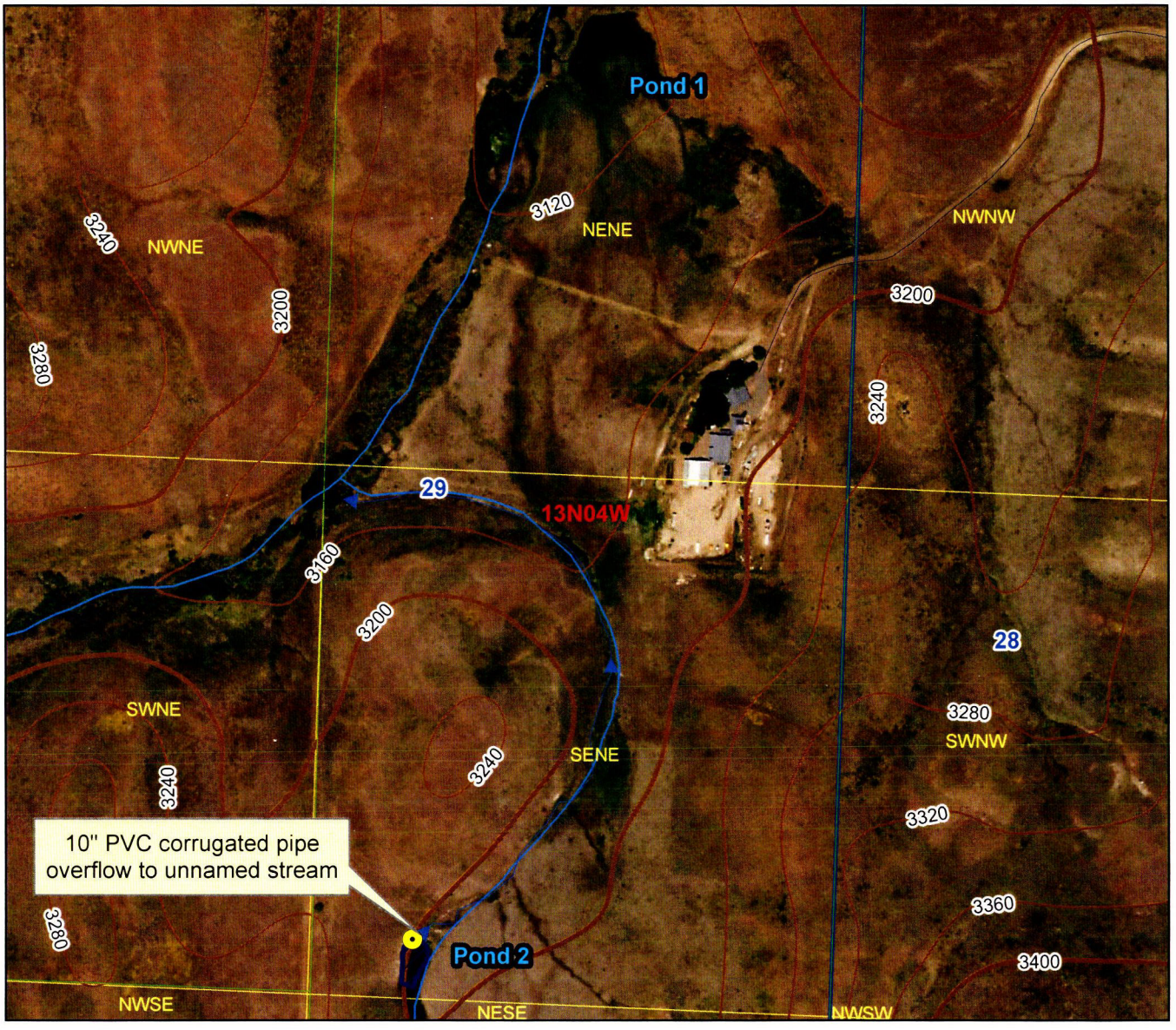
JUL 07 2023

State of Idaho
Department of Water Resources

System Description

Water Right Permit No. 67-15185

This map depicts the STOCKWATER, WILDLIFE, STOCKWATER STORAGE, WILDLIFE STORAGE place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



67-15185 POD
Overflow
Pond 2

0 0.1 0.2 Miles

N

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Basin	Sequ	Split	Ver	Source Table	Application Type	Basis	Status	Draft	RightID	Priority Date	Rate	SourceList	TributaryList	WaterUseList	OwnerList	Water Application ID	Approval Date	Total Acres	Acre Limit	Max Volume
67	8000			Water Right		License	Active	Y	685721	11/26/1996	0.26	UNNAMED STREAMS	SAGE CREEK	DIVERSION TO STORAGE, IRRIGATION FROM STORAGE, IRRIGATION STORAGE, IRRIGATION, STOCKWATER STORAGE, WILDLIFE STORAGE	CARTER, KATHLEEN R; CARTER, RONNIE L			26		62.3
67	8000			Water Permit			Active	N	547993	11/26/1996	1.6	UNNAMED STREAMS	SAGE CREEK	IRRIGATION FROM STORAGE, IRRIGATION STORAGE, IRRIGATION, STOCKWATER STORAGE, STOCKWATER, WILDLIFE STORAGE, WILDLIFE	CARTER, KATHLEEN R; CARTER, RONNIE L		09/11/1998	80		
67	8000			Water Application	New Appropriation		Closed		547993	11/26/1996	1.6	UNNAMED STREAMS	SAGE CREEK	IRRIGATION FROM STORAGE, IRRIGATION STORAGE, IRRIGATION, STOCKWATER STORAGE, STOCKWATER, WILDLIFE STORAGE, WILDLIFE	CARTER, KATHLEEN R; CARTER, RONNIE L	57780		80		
67	15185			Water Right		License	Active	Y	697535	11/26/1996	1.6	UNNAMED STREAMS	SAGE CREEK	IRRIGATION FROM STORAGE, IRRIGATION STORAGE, IRRIGATION, STOCKWATER STORAGE, STOCKWATER, WILDLIFE STORAGE, WILDLIFE	CARTER, KATHLEEN R; CARTER, RONNIE L			80		
67	15185			Water Permit			Active	N	685720	11/26/1996	1.6	UNNAMED STREAMS	SAGE CREEK	IRRIGATION FROM STORAGE, IRRIGATION STORAGE, IRRIGATION, STOCKWATER STORAGE, STOCKWATER, WILDLIFE STORAGE, WILDLIFE	CARTER, KATHLEEN R; CARTER, RONNIE L		09/11/1998	80		

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Seepage Loss Calculations

This spreadsheet has been designed by Idaho Department of Water Resources to estimate the total annual seepage losses from a pond.

FILE NUMBER	67-15185
REVIEWER	Aaron Skinner
DATE	11/1/2017

User Input
Calculated value
Formula Explanations

INPUTS

Pond Surface Area (AC.)	0.12	AC.
Pond Surface Area (SQ. FT.)	5227	SQ. FT.
I used the following method to obtain my Soil Classification information:	NRCS Web Soil Survey	
My Soil Classification is	CL	
Suggested Seepage Rate (FT./DAY)	0.0030	FT./DAY

Formula: (Surface Area X Seepage Rate) X 7.48 = Gallons Per Day Loss

Convert to GPD	117	GPD
Total Seepage Loss (AFA)	0.1	AFA

NA kk

Though sand and gravel seepage rates may actually be higher, the maximum allowable rate is 0.2 ft/day, pursuant to Administrative Memo "Seepage Loss Standards for Ponds and Reservoirs."

Suggested Seepage Rates for Different Soil Types:
GW, GP, GM, GC, SW, SP and SM (silty sand, sand silt mixtures and gravel mixtures) = **0.2 ft per day**
OL and ML (inorganic silts - very fine sands, silty, or clayey fine sands) = **0.02 ft per day**
SC (clayey sands, sand clay mixtures) = **0.007 ft per day**
CL (Low to medium plasticity clays) = **0.003 ft per day**
MH, OH, PT and CH (high plasticity clays) = **0.0003 ft per day**
LINED PONDS (liners can be chemical, fabric, or bentonite) = **0 ft per day**
Ponds Intercepting Groundwater (excavated ponds filled by ground water) = **0 ft per day**

PLEASE NOTE: The initial basis for the Suggested Seepage Rates in the table above is found on Page 16 of Seepage from Fish Ponds, Bulletin 599, August 1989 Alabama Agricultural experiment Station, Auburn University, Auburn University Alabama. If you don't know the soil type, please refer to the map provided at the NRCS Web Soil Survey (Tab #1) , an ArcMap Soil Classification Map (Tab #1.1), or published NRCS Soil Survey (Tab #1.2) . Use "0" if the pond fill relies on the water table.

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Evaporation Loss Calculations

This spreadsheet has been designed by Idaho Department of Water Resources to estimate the annual evaporation losses from a pond.

FILE NUMBER	67-15185
REVIEWER	Aaron Skinner
DATE	11/1/2017

User Input
Calculated value
Formula Explanations

The acronyms used on the Kimberly Research Center website are defined below:
P = Precipitation
ET= Evapotranspiration
P_d = Precipitation deficit
P_d =ET-P

USING THIS SPREADSHEET

Use the link below to access the Kimberly Research Center website. This website provides the Precipitation Deficit for a station most representative of the pond under examination. The Precipitation Deficit is the total amount of free water surface evaporation minus the precipitation for a given area, which gives the total amount of evaporative losses incurred by the pond. There are several weather sites that are used throughout the state. IDWR staff can find the nearest site using Arc Map. The shape file containing the sites can be found at X:/Spatial/Climate/ETIdahostations.shp.

Instructions:

1. Use the link below to navigate to ET Idaho 2012.
2. Select the station which is most representative to your pond location.
3. Click Submit Query.
4. Under "Land Covers with Evapotranspiration Estimates," select "Open Water - Shallow Systems (ponds, streams)" or "Open Water - small stock ponds" depending on the pond size.
5. Click the link to "Precipitation Deficit."
6. Reference and copy (ctrl + C) the first subheading "Mean" values.
7. Click the "Paste Values from ET Idaho" button. The table will automatically enter a zero (0) for any

Found at: http://data.kimberly.uidaho.edu/ETIdaho/

Precipitation Deficit

Station: Cambridge (NWS -- 101408)

Month	mm/day[1]	*Days per month*	mm/Month
Jan	-1.98	31	0.00
Feb	-1.49	28	0.00
March	-0.04	31	0.00
April	1.72	30	51.60
May	2.20	31	68.20
June	3.18	30	95.40
July	4.27	31	132.37
August	3.58	31	110.98
September	2.23	30	66.90
October	0.69	31	21.39
November	-1.77	30	0.00
December	-2.80	31	0.00
	Total mm/year =		546.84

PLEASE NOTE: The seasonal average for precipitation deficit should not be used for calculations because precipitation often exceeds evaporation during wetter months of the year. If the pond is kept full, excess precipitation during wetter months does not serve to refill the pond during drier months.

For example, see Sandpoint KSPT (NWS -- 108137), the annual precipitation deficit is -106 mm. However, April through September have positive precipitation deficit values. To properly estimate the annual volume of water necessary to refill a pond due to evaporation losses, the table will automatically enter a zero (0) for each month that the precipitation value is reported as a negative value.

As described above, precipitation offsets evaporation in winter months, so the net effect is that wintertime precipitation deficit is usually zero.

[(mm/yr) ÷ (convert to feet)] X (Surface area of pond, in acres) = Evaporation Loss in Acre Feet

(546.84 ÷ 304.8) X 0.12 = 0.2 AFA

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Total Storage Calculations

FILE NUMBER	67-15185
REVIEWER	Aaron Skinner
DATE	11/1/2017

This spreadsheet has been designed by Idaho Department of Water Resources to estimate the total seepage, evaporation and fill capacity required for a pond.

User Input
Calculated value
Formula Explanations

Surface Area (AC.)	0.12	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	2.4	"Average Pond Depth" depicts the actual depth of the pond either measured or estimated. Note: If you know the maximum depth and not the average depth, the Field Examiner's Handbook suggests multiplying the maximum depth by 0.4 to get the average depth, or you can use any method that seems reasonable to attain average depth.
Pond Capacity (AF)	0.288	Pond Capacity is calculated by multiplying the Pond Surface Area by the Average Pond Depth. If you know the capacity, divide the capacity by surface area and enter the average pond depth in the space above. Note: If pond capacity is determined using a method shown on the "Pond Capacity" sheet, the user may need to modify the value of "Pond Capacity" (cell B9) manually. Note that if the value is modified manually, the formula will be altered for future use.
Multiple Fill Volume Above Initial Fill to Fulfill From Storage Needs- "Multiple Fills" (AF)	0	The "Multiple Fill Volume Above Initial Fill" is the acre-feet of water required to meet a *from storage* component if the *from storage* component exceeds a one time fill. This section should not include the amount of water needed to fill the pond initially or the amount of water needed to maintain the pond level due to evaporation or seepage. For example: if a pond has a capacity of 5 acre feet and 2.5 acre feet of seepage and evaporation, but the pond is used for irrigation that requires 10 acre feet of from storage for the irrigation use, then you would insert 5 acre feet into this location (10 acre feet needed - 5 acre feet from the initial fill = 5 acre feet of additional storage needed). Note: You must have a "From Storage" component exceeding the initial fill on the permit to include a volume in this space.
Estimated Seepage Loss (AF)	~~0.1~~	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	0.2	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	~~0.6~~ 0.5	The "Total Volume Required" is calculated by adding the Pond Capacity, Multiple Fills, Seepage Loss, and Evaporation Loss amounts to determine the total amount of storage required.

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Flow Rate into Pond (CFS)	**0.02**	The "Flow Rate into Pond" depicts the actual flow, either measured or estimated, into the pond. For offstream facilities, this will be equivalent to "diversion to storage" rate.
Highest Daily Evaporation Rate From Evaporation Tab. (mm/Day)	**4.27**	This number is carried over from the "Evaporation Loss" sheet. It is the highest recorded number in the "Precipitation Deficit Table".
Required Daily Maintenance Volume (AF/Day)	**0.00**	"Required Daily Maintenance Volume" is the maximum volume of water needed on any given day during the year to maintain pond volume. It is calculated by adding the highest daily evaporation loss to the average daily seepage loss in acre feet. The average daily seepage loss is calculated by dividing the "Estimated Seepage Loss" by 365 days. This is acceptable, since the seepage rate shouldn't vary throughout the season unless the pond completely freezes over during the winter months. The highest daily evaporation loss is calculated by dividing the Highest Daily Evaporation Rate by the 304.8 conversion factor and multiplying this number by the pond surface area to attain a combined daily acre feet requirement.
Minimum Maintenance Flow (CFS)	**0.00**	The "Minimum Maintenance Flow" is the minimum amount of flow required to maintain the level of the pond. This number is determined by dividing the "Maximum Required Daily Maintenance Volume" by 1.9835. This flow can be used to determine if the flow rate into the pond is adequate to maintain the pond level.
Days Required to Fill the Pond	**8**	The "Days Required to Fill the Pond" is calculated by dividing the "Pond Capacity" by the "Flow Rate" minus "Minimum Maintenance Flow" multiplied by 1.9835. This section will assist you in determining if the flow rate being diverted to the pond is adequate to fill the pond while maintaining the pond level. The length of time to fill the pond will help determine if the flow rate is adequate for the size of pond being proposed. If this number is *approximately* 6 months (180 days) or more, the reviewer should have a discussion with the applicant to make sure he/she understands that it will take a significant length of time to fill the pond.
Days Required to Fill the Pond at 13,000 Gallons per Day	**8**	Some water users may want to fill a pond under the 13,000 gallons per day domestic exemption. The "Days Required to Fill the Pond at 13,000 Gallons per Day" is calculated by converting the "Pond Capacity" and the "Required Daily Maintenance Volume" to gallons. The "Pond Capacity" is then divided by 13,000 gallons minus the "Required Daily Maintenance Volume" in gallons to determine the number of days to fill pond. If this number is *approximately* 6 months (180 days) or more, the reviewer should have a discussion with the applicant to make sure he/she understands that it will take a significant length of time to fill the pond. Negative values indicate that the supply of 13,000 gallons per day is not enough volume to overcome the required daily maintenance volume; the pond will never fill.

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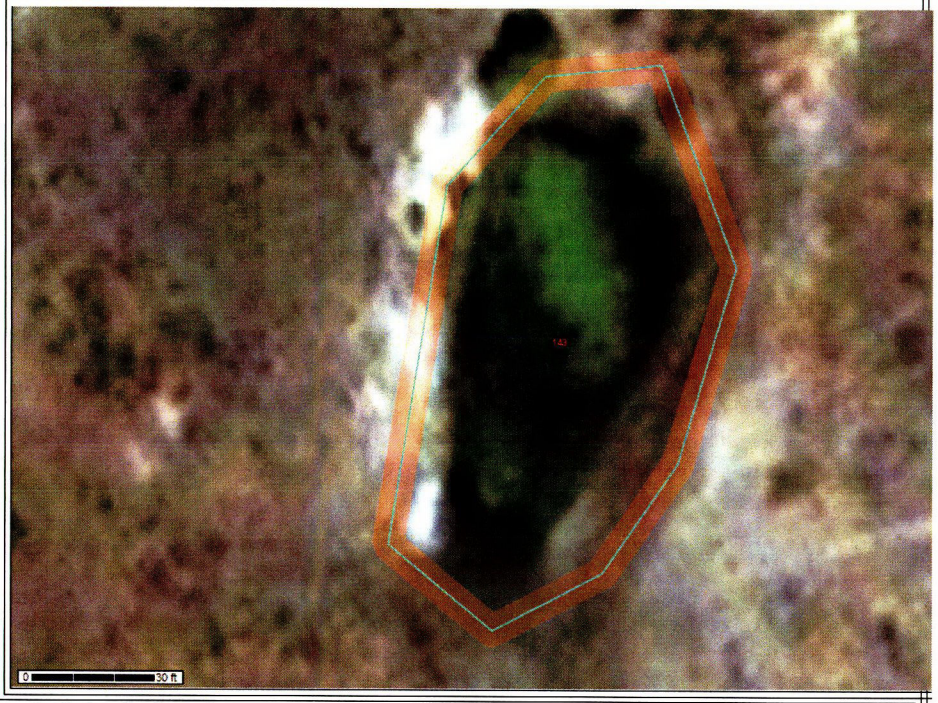
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  - Physical Soil Properties
- Soil Qualities and Features
- Vegetative Productivity
- Waste Management
- Water Features
- Water Management

Soil Map

Scale (not to scale)



Report — Engineering Properties

Absence of an entry indicates that the data were not estimated. The asterisk '*' denotes the representative texture; other possible textures follow the dash. The criteria for determining the hydrologic soil group for individual soil components is found in the National Engineering Handbook, Chapter 7 issued May 2007(http://directives.sc.egov.usda.gov/OpenNonWebContent.aspx?content=17757.wba). Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

Adams-Washington Area, Parts of Adams and Washington Counties, Idaho

Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Pct Fragments		Percentage passing sieve number—				Li
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200	
			In				*L-R-H*	*L-R-H*	*L-R-H*	*L-R-H*	*L-R-H*	*L-R-H*	*L*
143—Midvale silty clay loam, 4 to 8 percent slopes													
Midvale	90	C	0-10	Silty clay loam	CL, ML	A-7	0- 0- 0	0- 0- 0	100- 100- 100	100- 100- 100	95- 98- 100	85- 90- 95	4
			10-30	Clay loam, clay, silty clay	CH, CL	A-7	0- 0- 0	0- 0- 0	100- 100- 100	100- 100- 100	90- 95- 100	70- 83- 95	4
			30-56	Loam	—	A-4, A-6	0- 0- 0	0- 0- 0	100- 100- 100	100- 100- 100	85- 90- 95	60- 68- 75	2
			56-60	Silt loam, very fine sandy loam	CL-ML, CL, ML	A-4, A-6	0- 0- 0	0- 0- 0	100- 100- 100	100- 100- 100	85- 90- 95	50- 63- 75	1

Description — Engineering Properties

Engineering Properties

This table gives the engineering classifications and the range of engineering properties for the layers of each soil in the survey area.

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ET_{Idaho} 2012 -- Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho

Please send suggestions for improving this site to robison at kimberly dot uidaho dot edu *Copyright 2012, University of Idaho.*

Cambridge (NWS -- 101408)

Statistics based on thirty year normal spans 1979 to 2010 years

For a different land cover or crop click on the above link.
You can highlight this table and copy via the clipboard to a Mircosoft Excel or OpenOffice spreadsheet to plot or otherwise work with this data.

Open water - shallow systems (ponds, streams)
Precipitation Deficit (Click here for a graph)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Growing Season[a]	Non Growing Season[b]	Annual
Mean[j]	mm/day												mm		
Monthly[c]	-1.98	-1.49	-0.04	1.72	2.20	3.18	4.27	3.58	2.23	0.69	-1.77	-2.80	301	0	301
15-Day Moving Average[d]	-1.99	-1.90	-0.08	1.76	2.22	3.22	4.33	3.57	2.10	0.71	-1.74	-2.61			
7-Day Moving Average[e]	-2.01	-1.71	-0.09	1.72	2.23	3.21	4.30	3.58	2.15	0.69	-1.80	-2.71			
3-Day Moving Average[f]	-1.99	-1.55	-0.05	1.72	2.20	3.16	4.27	3.59	2.22	0.69	-1.79	-2.78			
Standard Deviation[k]	mm/day												mm		
Monthly[c]	1.70	1.52	1.76	0.75	2.12	0.95	0.64	0.79	1.01	1.13	1.37	2.33	128	0	128
15-Day Moving Average[d]	1.64	1.88	1.64	1.04	2.10	1.21	0.54	0.81	1.35	1.22	1.74	2.06			
7-Day Moving Average[e]	2.27	2.57	2.10	1.58	2.54	1.82	0.70	1.13	1.71	1.78	2.42	3.09			
3-Day Moving Average[f]	3.03	3.38	2.68	2.28	3.20	2.68	1.01	1.54	2.29	2.43	3.31	4.27			
20% Exceedance[l]	mm/day												mm		
Monthly[c]	-1.02	-0.28	0.72	2.44	3.06	3.94	4.62	4.03	3.01	1.44	-0.72	-1.52	399	0	399
15-Day Moving Average[d]	0.13	0.18	2.05	3.29	4.51	4.78	4.92	4.35	3.41	2.21	0.57	0.18			
7-Day Moving Average[e]	0.38	1.02	2.62	4.13	5.08	5.23	5.18	4.72	3.75	2.76	0.97	0.38			
3-Day Moving Average[f]	0.46	1.24	3.06	4.57	5.66	5.67	5.48	5.05	4.20	3.02	1.34	0.48			
80% Exceedance[m]	mm/day												mm		
Monthly[c]	-2.77	-2.23	-0.79	0.85	1.08	2.57	3.85	2.98	1.47	-0.05	-3.06	-3.99	188	0	188
15-Day Moving Average[d]	-4.46	-4.64	-3.16	-0.30	-1.24	1.22	3.28	1.86	0.10	-1.47	-5.56	-6.04			
7-Day Moving Average[e]	-7.27	-8.66	-5.41	-2.10	-3.30	-1.44	2.23	0.02	-1.68	-3.64	-8.13	-9.74			
3-Day Moving Average[f]	-12.15	-12.26	-9.23	-5.52	-7.08	-6.12	0.28	-2.44	-6.84	-7.61	-11.98	-15.95			
Ave Highest P_{def}	mm/day												--		
15-Day Moving Average[g]	0.07	0.12	1.17	2.73	3.53	4.26	4.69	4.12	2.94	1.70	0.22	0.06			
7-Day Moving Average[h]	0.25	0.75	1.94	3.58	4.49	4.97	4.94	4.48	3.46	2.31	0.64	0.26			
3-Day Moving Average[i]	0.39	1.03	2.60	4.24	5.18	5.41	5.32	4.81	3.95	2.59	1.01	0.39			
Ave Lowest P_{def}	mm/day												--		
15-Day Moving Average[g]	-3.20	-2.78	-1.17	0.80	0.80	2.12	3.89	3.03	1.36	-0.28	-3.05	-4.47			
7-Day Moving Average[h]	-5.33	-4.94	-2.72	-0.65	-1.17	0.35	3.24	2.20	0.23	-1.91	-5.18	-7.50			
3-Day Moving Average[i]	-8.65	-8.45	-5.18	-3.00	-4.29	-2.91	2.01	0.48	-2.31	-4.77	-8.98	-12.25			
Special normal distribution parameters for monthly, seasonal, and annual intervals															
Skew[m]	-0.15	-2.14	-0.23	-0.06	-0.67	-1.31	-0.38	-0.33	-1.50	0.05	-0.74	-0.19	-0.57	0.00	-0.57
Kurtosis[o]	0.78	9.06	0.97	2.04	1.91	4.47	1.13	0.71	4.74	0.60	2.99	1.00	2.81	0.00	2.81

[a] Growing Season: This is usually the time from green up or planting in the spring to a killing frost or harvest in the fall. It is not applicable for entries without a growing season and will be blank.

[b] Nongrowing Season: This is usually the time from a killing frost or harvest in the fall to the of green up in the spring. It is not applicable for entries without a growing season.

[c] Mean of the average daily value for month

[d] Mean of the fourteen 15-day period averages contained in the month

[e] Mean of the twenty three 7-day period averages contained in the month

[f] Mean of the twenty seven 3-day period averages contained in the month

[g] Mean of the highest/lowest 15-day period average in month

[h] Mean of the highest/lowest 7-day period average in month

[i] Mean of the highest/lowest 3-day period average in month

[j] This value represents the *mean value* for the parameter for the month over the 'normal' period of record. Generally, the 'normal' period is the last thirty years with data.

[k] This value represents the *standard deviation* for the parameter for the month over the 'normal' period.

[l] This value represents the *value* for the parameter that has a 20% chance of being exceeded that month durning any particular year. Conversely, there is an 80% chance that the parameter value will be less than the *value* shown.

[m] This value represents the *value* for the parameter that has a 80% chance of being exceeded that month durning any particular year. Conversely, there is an 20% chance that the parameter value will be less than the *value* shown.

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67-15185 split from 67-8000

Close up of pond 2. The discharge point is at the bottom center of the image.

Pond Specs:
Capacity 0.3 AF
Surface Area 0.12 acres
Seepage 0.2 AF
Evap 0.1 AF



67-15185 split from 67-8000

The discharge point from pond 2, is a 10- inch corrugated pipe which discharges overflow into an unnamed channel.

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REQUEST TO WAIVE/MODIFY

CONDITION OF APPROVAL

Permit # 67-8000 + 67-15185

I request the condition(s) of approval requiring (select 1 or more):

- [X] measuring device
- [X] lockable controlling works
- [ ] annual measuring/reporting, or power records alternative
- [ ] other – identify in space below

be waived or modified because:

Sage Creek is a small drainage with basically only one irrigater. It is not a regularly monitored creek in this drainage because it is dried up by mid-June.

Brandi S. Horton-Bonner
signature

3/26/19
date

Brandi S. Horton-Bonner
print name

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