

Permit No. 11-7790
Name Hirschi Acres LLC

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
In-Office Beneficial Use Examination

1. ☒ Copy of Permit
2. ☒ Copy of proof of beneficial use
3. N/A Copies of amendments/orders
4. ☒ Qualifies under Rule 35.01.r (IDAPA 37.03.02)
5. ☒ Point of Diversion

Township 12S, Range 46E, Section 28, QQ SENESE

Method used to determine POD: GPS - site visit

6. ☒ Place of Use

Township 12S, Range 46E, Section 28, QQ NESE

Method used to determine POU: Site visit

7. ☒ POD and POU match Permit Approval
8. ☐ Aerial photo of place of use
9. N/A Well driller's report
10. N Within a water district? (WD#)
11. ☒ Volume Calculation

Standard domestic volume = 1.2 afa

domestic use includes small pond

max evaporation = 3.75 mm/day = 0.0123 ft/day

12. ☒ Other information

pond size = 0.15 acres

initial pond fill occurred gradually during
the first year of the ponds existence
pond will remain full from this point forward.

$\rightarrow = 0.00185 \text{ af/day}$
 $= 60 \text{ gal/day}$

Examiner Name James Cefalo Date 9/20/18

Reviewer Date

Permit 11-7790**Field Report Narrative**

Spring developed for domestic use at one cabin. Domestic use includes initial fill of and evaporation from a small pond near the cabin. Although spring flow is sufficient to maintain the pond and flows off of property, the water ultimately sinks in a marshy area and does not connect with Muddy Creek or Thomas Fork. Domestic use at pond (approximately 600 gpd evaporation), ½ acre of domestic irrigation (approximately 4,000 gpd) and culinary use in the cabin will not exceed the domestic limit of 13,000 gpd.

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.

Montpelier (NWS -- 106053)

Statistics based on thirty year normal spans 1944 to 1984 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 Microsoft 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	-0.72	-0.33	0.17	0.98	1.83	2.46	3.73	2.85	1.57	0.75	-0.46	-0.77	370	0	370
15-Day Moving Average ^d	-0.79	-0.35	0.16	1.01	1.72	2.59	3.77	2.78	1.47	0.76	-0.49	-0.72			
7-Day Moving Average ^e	-0.75	-0.34	0.18	0.96	1.78	2.49	3.74	2.83	1.53	0.77	-0.49	-0.76			
3-Day Moving Average ^f	-0.72	-0.34	0.18	0.97	1.84	2.47	3.73	2.85	1.56	0.75	-0.47	-0.78			
Standard Deviation ^k	mm/day												mm		
Monthly ^c	1.11	0.51	0.65	0.81	1.33	1.19	0.93	1.07	1.20	1.22	0.62	1.02	99	0	99
15-Day Moving Average ^d	1.16	0.72	0.70	1.13	1.31	1.64	0.81	1.14	1.46	1.01	0.87	1.00			
7-Day Moving Average ^e	1.52	1.08	0.97	1.54	1.76	2.24	1.14	1.50	2.05	1.42	1.27	1.40			
3-Day Moving Average ^f	1.98	1.52	1.46	2.16	2.39	2.96	1.60	2.11	2.75	1.97	1.80	1.91			
20% Exceedance ^l	mm/day												mm		
Monthly ^c	-0.08	0.01	0.46	1.53	2.65	3.45	4.33	3.37	2.68	1.57	0.04	-0.29	465	0	465
15-Day Moving Average ^d	0.25	0.51	1.07	2.42	3.28	4.18	4.59	4.06	3.09	1.91	0.52	0.21			

7-Day Moving Average ^c	0.53	0.77	1.66	2.97	4.04	4.61	4.77	4.37	3.46	2.49	1.01	0.44			
3-Day Moving Average ^f	0.63	1.02	1.92	3.60	4.42	4.90	4.98	4.61	3.66	2.69	1.24	0.57			
80% Exceedance ^m	mm/day												mm		
Monthly ^c	-1.23	-0.75	-0.14	0.37	1.18	1.11	3.10	2.29	0.72	-0.04	-0.90	-1.49	270	0	270
15-Day Moving Average ^d	-2.52	-1.41	-0.73	-1.07	-0.42	-0.96	2.38	1.13	-1.17	-0.91	-2.21	-2.85			
7-Day Moving Average ^e	-3.56	-3.08	-2.21	-2.27	-2.33	-3.72	0.96	-0.94	-4.19	-2.86	-3.69	-3.92			
3-Day Moving Average ^f	-6.58	-5.14	-3.99	-6.11	-6.69	-9.63	-2.90	-4.32	-9.67	-7.74	-7.16	-6.66			
Ave Highest P _{def}	mm/day												--		
15-Day Moving Average ^g	0.12	0.27	0.77	1.88	2.81	3.64	4.28	3.60	2.51	1.47	0.31	0.11			
7-Day Moving Average ^h	0.38	0.63	1.27	2.61	3.58	4.39	4.64	4.13	3.17	2.07	0.76	0.30			
3-Day Moving Average ⁱ	0.52	0.88	1.70	3.19	4.10	4.74	4.84	4.42	3.50	2.43	1.00	0.46			
Ave Lowest P _{def}	mm/day												--		
15-Day Moving Average ^g	-1.47	-0.84	-0.48	0.14	0.84	1.08	3.24	1.93	0.61	-0.03	-1.22	-1.47			
7-Day Moving Average ^h	-2.62	-1.91	-1.23	-1.00	-0.75	-0.87	2.27	0.81	-1.04	-1.14	-2.30	-2.64			
3-Day Moving Average ⁱ	-4.82	-3.64	-3.03	-3.52	-3.58	-4.37	0.37	-1.83	-4.22	-3.42	-4.46	-4.83			
Special normal distribution parameters for monthly, seasonal, and annual intervals															
Skew ^m	-0.42	-0.81	-0.39	-0.68	-0.18	-0.55	-0.32	-0.42	-1.64	-0.15	-0.30	-0.47	0.13	0.00	0.13
Kurtosis ^o	1.26	3.50	1.29	5.08	0.71	2.39	0.77	1.20	6.97	0.68	3.25	1.18	2.14	0.00	2.14

^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 during 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 during any particular year. Conversely, there is an 20% chance that the parameter value will be less than the *value* shown.

ⁿ This value represents the *skewness (asymmetry) of the distribution of the parameter values* for the month (year) over the 'normal' period. A value near zero indicates that the distribution approximates a normal (Gaussian) and symmetrical distribution. A negative skew indicates that the parameter distribution has relatively few low values compared to high values. A positive skew indicates that the distribution has relatively few high values compared to the number of low values. A skew value near 1 indicates that the underlying distribution approximates a lognormal distribution.

^o This value represents the *kurtosis* of the parameter value distribution for the month (year) over the 'normal' period. Kurtosis is a measurement of the height to width ratio of the probability distribution, or the *peakedness (slenderness)*. A normal (Gaussian) distribution has a kurtosis of 3. A high kurtosis distribution has a sharper peak and longer tails, while a low kurtosis distribution has a more rounded peak and shorter tails.

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The citation for the evapotranspiration data used from this site should be: *Allen, Richard G. and Clarence W. Robison, 2012. Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho: Supplement updating the Time Series through December 2008, Research Technical Completion Report, Kimberly Research and Extension Center, University of Idaho, Moscow, ID.*

Questions regarding the data should be addressed to Clarence W. Robison or Richard G. Allen, University of Idaho, Kimberly Research and Extension Center, 3793 North 3600 East, Kimberly, ID 83341. Telephone (208)-423-6610



ETIdaho web site powered by Debian, Apache, Firebird DBMS, Python, with matplotlib, and kinterbasdb.









Water Right 11-7790



2017 Aerial Photo

