

Comment Report

37-21339

1. jroberts 8/30/2004 4:37:20 PM Special Administration Area Notes

Comment: Special Administration Areas : Eastern Snake River Plain Area (Moratorium Area)

Exempt: Y

Reason: Non-Consumptive Use

Doc Attached:

Explanation: small domestic and aesthetic use

Special Administration Areas : Trust Water Area (Trust Water Area)

Exempt: N

Reason:

Doc Attached:

Explanation:

2. jroberts 8/31/2004 Comment/Analysis

Comment: I visited the property on 8/27/04 and met with the applicant, Peter Bowler. He showed me a small stream running along the eastern edge of the parcel that emptied into the Snake River. It appeared to emerge from a spring in the hillside below the road into his property. The area was very overgrown, however, so I was not able to verify this at the time. Mr. Bowler gave me some pictures he had recently taken and said he had made a measurement of 0.13 cfs, capturing most of the flow, and this was the amount he had applied for. He intends to build a small collection box and develop this spring for domestic and aesthetic use.

3. jroberts 8/31/2004 Legal Notice Remarks

Comment: Application proposes to develop a spring on the applicants property for domestic and aesthetic use.

Location is approximately 2 3/4 miles south of Bliss, Idaho, and 1/2 mile west of Hwy 30 on River Road at Snake River Pottery.

4. ameritt 11/2/2004 recommendation

Comment: This application was processed without protest. On receipt of clarification of what the aesthetic use was intended to be the draft permit was changed to describe the intent to build a small pond on the stream flowing from the spring.

Recommend approval as drafted.

5. kwalker 12/28/2004 Permit Review

Comment: Application falls within ESRPA and Trust Water Area. Pursuant to arc view the points of diversion are located within WD130 rather than WD37 as region proposed. Have changed aesthetic use to aesthetic storage since the pond stores 0.1 af of water.

I compiled pond loss calculations based on Bliss Climate Station and found the loss to be 729 gallons per day which qualifies it under domestic exemption of moratorium.

Application 37-21339 Pond Loss

1. 8.33 inches of pond loss in July, which is the highest month based on Bliss Climate Station and using a pasture mean irrigation requirement since pond is being developed on an area not previously irrigated.

$$2. \frac{8.33 \text{ inches}}{\text{July}} \times \frac{\text{July}}{31 \text{ days}} \times \frac{1 \text{ ft}}{12 \text{ inches}} \times \frac{325,850 \text{ gallons}}{1 \text{ AF}} \times 0.1 \text{ acres} = 729 \text{ gpd in July}$$

Because the proposed use does not exceed 2500 gallons per day, it qualifies as a domestic use under §42-111, Idaho Code. Because it qualifies as a domestic use, the application is exempt from the ESRPA moratorium.

kw

12/28/2004

Pond Consumptive Use Calculations
Climate Station: Bliss

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Annual FWS Evaporation (inches)*	45	45	45	45	45	45	45	45	45	45	45	45	45
Monthly Distribution (%)**	1	2	4	7	12	15	19	16	11	6	4	3	100
Monthly FWS Evaporation (in/mo)	0.5	0.9	1.8	3.2	5.4	6.8	8.6	7.2	5.0	2.7	1.8	1.4	45
Avg. Total Precipitation (in/mo)**	1.33	0.97	0.92	0.74	0.85	0.72	0.22	0.23	0.42	0.6	1.28	1.18	9.46
Pond Loss (Evap. - Precip., in)	0.00	0.00	0.88	2.41	4.55	6.03	8.33	6.97	4.53	2.10	0.52	0.17	36.49
Pond Surface Area (acres)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total Pond Loss (ac-in)	0.0	0.0	0.1	0.2	0.5	0.6	0.8	0.7	0.5	0.2	0.1	0.0	3.6
Total Pond Loss (ac-ft)	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.3

Note: for months where precipitation exceeds evaporation, the resultant pond loss is set to zero

highest

Irrigation Consumption		Crop
Mean Irrig. Requirement (in/seas.)***	38.4	Pasture
Mean Irrig. Requirement (ft/seas.)	3.20	
Acres to dry up for pond use	0.1	

* Molnau, Myron, Kpordze, Kojo C.S., and Craine, Katherine L., 1992. Monthly shallow pond evaporation in Idaho. ASAE paper PNW 92-111

**Data obtained from the Western Regional Climate Center, Monthly Climate Summary, Period of Record 9/1/1905 to 5/31/1974. See attached.

***Appendix E of the University of Idaho report: "Estimating Consumptive Irrigation Requirements for Crops in Idaho" published in 1983 by R. G. Allen and C. E. Brockway. See attached

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11/14/11

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- NOTE:**
To print data frame (right side), click on right frame before printing.
- 1971 - 2000**
- [Daily Temp. & Precip.](#)
 - [Daily Tabular data \(~23 KB\)](#)
 - [Monthly Tabular data \(~1 KB\)](#)
 - [NCDC 1971-2000 Normals \(~3 KB\)](#)

- 1961 - 1990**
- [Daily Temp. & Precip.](#)
 - [Daily Tabular data \(~23 KB\)](#)
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 - [NCDC 1961-1990 Normals \(~3 KB\)](#)

- Period of Record**
- [Station Metadata](#)
 - [Station Metadata Graphics](#)
- General Climate Summary Tables**
- [Temperature](#)
 - [Precipitation](#)
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 - [Cooling Degree Days](#)
 - [Growing Degree Days](#)
- Temperature**

BLISS 4 NW, IDAHO (101002)

Period of Record Monthly Climate Summary

Period of Record : 1/ 9/1931 to 1/31/2000

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average Max. Temperature (F)	36.7	43.3	53.2	64.5	73.8	82.2	92.2	90.6	80.4	67.6	49.8	39.3	64.5
Average Min. Temperature (F)	19.2	23.2	28.2	34.3	41.6	48.7	54.6	52.1	43.8	35.0	26.9	21.4	35.7
Average Total Precipitation (in.)	1.33	0.97	0.92	0.74	0.85	0.72	0.22	0.23	0.42	0.60	1.28	1.18	9.46
Average Total SnowFall (in.)	7.2	4.0	1.4	0.3	0.0	0.0	0.0	0.0	0.0	0.1	2.8	4.7	20.5
Average Snow Depth (in.)	2	2	0	0	0	0	0	0	0	0	0	1	0

Percent of possible observations for period of record.
 Max. Temp.: 91.8% Min. Temp.: 94.6% Precipitation: 95.9% Snowfall: 95.2% Snow Depth: 74.5%
 Check [Station Metadata](#) or [Metadata graphics](#) for more detail about data completeness.

Western Regional Climate Center, wrccl@dri.edu

Bliss Consumptive Use from Len and Brockway 83

** Monthly average daily (mm/day) and Seasonal Totals (mm) **

Mar Apr May Jun Jul Aug Sep Oct Total

ETr

MEAN ETr 2.14 5.28 6.79 8.41 8.54 7.18 5.60 3.73 1457.

STDV ETr 0.35 0.47 0.49 0.47 0.26 0.33 0.41 0.35 43.

Alfalfa Hay

MEAN CU 3.30 6.29 7.32 6.94 5.41 3.67 1.26 1044.

MEAN IR 2.86 5.68 6.72 6.79 5.27 3.44 0.96 968.

STDEV CU 0.29 0.46 0.41 0.21 0.25 0.27 0.12 30.

STDEV IR 0.57 0.77 0.89 0.37 0.51 0.49 0.39 54.

Dry Beans

MEAN CU 2.04 3.26 7.37 4.97 0.77 566.

MEAN IR 1.64 2.86 7.24 4.85 0.61 529.

STDEV CU 0.15 0.18 0.23 0.23 0.06 15.

STDEV IR 0.40 0.53 0.35 0.44 0.28 31.

Field Corn

MEAN CU 2.04 3.66 7.68 6.63 4.19 1.04 774.

MEAN IR 1.59 3.20 7.53 6.48 3.97 0.76 721.

STDEV CU 0.15 0.21 0.24 0.30 0.31 0.10 20.

STDEV IR 0.43 0.61 0.38 0.57 0.52 0.36 36.

Silage Corn

MEAN CU 2.04 3.66 7.68 6.63 4.19 742.

MEAN IR 1.59 3.20 7.53 6.48 3.97 698.

STDEV CU 0.15 0.21 0.24 0.30 0.31 19.

STDEV IR 0.43 0.61 0.38 0.57 0.52 38.

Sweet Corn

MEAN CU 2.04 3.53 7.47 6.38 598.

MEAN IR 1.59 3.07 7.32 6.23 561.

STDEV CU 0.15 0.20 0.23 0.29 16.

STDEV IR 0.43 0.60 0.38 0.55 34.

Peas

MEAN CU 1.60 3.85 6.82 2.99 464.

MEAN IR 1.25 3.39 6.30 2.89 420.

STDEV CU 0.14 0.28 0.38 0.09 17.

STDEV IR 0.39 0.53 0.78 0.21 39.

Potatoes

MEAN CU 1.58 2.19 5.77 7.17 5.57 3.29 781.

MEAN IR 1.29 1.85 5.36 7.06 5.46 3.12 738.

STDEV CU 0.14 0.16 0.32 0.22 0.26 0.24 21.

STDEV IR 0.34 0.37 0.63 0.32 0.44 0.39 39.

Sugar Beets

MEAN CU 1.58 2.04 3.91 8.14 7.06 4.86 2.48 921.

MEAN IR 1.20 1.59 3.43 7.98 6.90 4.62 2.17 854.

STDEV CU 0.14 0.15 0.22 0.25 0.32 0.36 0.24 23.

STDEV IR 0.42 0.44 0.63 0.40 0.60 0.57 0.48 45.

Spring Grain

MEAN CU 1.65 5.11 8.39 7.05 1.47 722.

MEAN IR 1.31 4.62 7.83 6.92 1.37 673.

STDEV CU 0.15 0.37 0.47 0.22 0.07 23.

STDEV IR 0.38 0.62 0.89 0.34 0.27 46.

Winter Grain

MEAN CU 0.98 4.82 6.79 8.41 6.80 1.32 888.

MEAN IR 0.56 4.37 6.20 7.81 6.67 1.21 817.

STDEV CU 0.16 0.43 0.49 0.47 0.21 0.06 31.

STDEV IR 0.34 0.69 0.78 0.93 0.35 0.28 58.

Pasture

MEAN CU 3.27 5.23 6.47 6.57 5.53 4.32 2.88 1047.

MEAN IR 2.85 4.68 5.92 6.44 5.39 4.09 2.56 975.

STDEV CU 0.29 0.38 0.36 0.20 0.25 0.32 0.27 29.

STDEV IR 0.55 0.67 0.80 0.34 0.50 0.53 0.51 51.

Vegetables

MEAN CU 2.07 4.40 6.57 5.72 3.83 692.

MEAN IR 1.73 4.03 6.47 5.61 3.65 658.

STDEV CU	0.15	0.25	0.20	0.26	0.28	
STDEV IR	0.36	0.54	0.30	0.45	0.43	32.

End of Data Set