

MEMO

TO: File 22-7577

FROM: Cherie Padilla

DATE: March 15, 2011

RE: Licensing Memo

Source

This right was permitted with springs as the source. However, upon further investigation, it appears that the source should be clarified to be groundwater. The water enters the ponds below the surface of the water; the pond was most likely excavated into the water table. No amendment is needed for a clarification of source.

PD

Since the source is groundwater that rises up from the bottom of the pond, the right will be licensed with a point of diversion in each isolated pond. Even though the field examiner recommended a PD in the NENW QQ, the same pond extends into the NWNW. Since the majority of that pond is within the NWNW, this is the where the PD will be described.

Volume

The field examiner figured that the pond has a capacity of 369 af. I added in volume of 55 af for the evaporation as calculated on the attached worksheet. The pond is consumptive because of evaporation so I removed the condition that said this right must be non-consumptive.

An amendment is required to add the NENW Sec. 11 to the POV.

ET_{Idaho} 2009: Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho

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Rexburg Ricks College (NWS --107644)

Statistics based on thirty

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	mm/day												mm		
Monthly ^c	0.43	0.64	0.75	1.87	2.04	3.06	3.80	3.71	2.35	1.03	0.22	0.50	525	0	525
15-Day Moving Average ^d	0.45	0.58	0.76	1.83	1.88	3.10	3.83	3.58	2.26	1.03	0.21	0.36	Total = 567.2 mm/yr or 1.86 af/acre/yr 29.5 acres x 1.86 = 54.9 af/a		
7-Day Moving Average ^e	0.45	0.44	0.76	1.82	1.92	3.11	3.80	3.69	2.29	1.06	0.24	0.45			
3-Day Moving Average ^f	0.44	0.37	0.74	1.85	2.02	3.08	3.81	3.71	2.31	1.03	0.23	0.48			
Standard Deviation	mm/day												mm		
Monthly	0.73	0.68	0.91	1.03	1.98	1.00	1.02	0.70	0.91	1.44	0.55	1.03	127	0	127
15-Day Moving Average	0.71	0.99	0.92	1.22	1.89	1.27	1.02	0.90	1.30	1.39	0.77	0.82			
7-Day Moving Average	0.96	1.36	1.21	1.64	2.35	1.85	1.44	1.18	1.70	1.89	1.09	1.16			
3-Day Moving Average	1.30	1.75	1.69	2.34	3.00	2.72	2.09	1.55	2.26	2.44	1.63	1.59			
20% Exceedance	mm/day												mm		
Monthly	0.05	0.03	1.08	2.51	3.34	3.82	4.38	3.96	3.10	1.62	0.11	0.01	608	0	608
15-Day Moving Average	0.40	0.46	2.22	3.32	4.33	4.51	4.89	4.56	3.78	2.81	0.60	0.42			
7-Day Moving Average	0.66	1.08	2.58	4.46	4.99	5.25	5.06	5.02	4.08	3.27	1.30	0.62			
3-Day Moving															