



BROCKWAY
ENGINEERING
P.L.L.C.

Hydraulics

Hydrology

Water Resources

RECEIVED

AUG 8 2005

WATER RESOURCES
WESTERN REGION

August 3, 2005

Dan Nelson
Idaho Department of Water Resources
Western Regional Office
2735 Airport Way
Boise, ID 83705-5082

Re: Water Right Transfer Application-City of Mountain Home

Dear Dan:

Enclosed is the FSA documentation for the City of Mountain Home transfer. According to Allen & Brockway (1983) the Mean CIR and the Mean CU for alfalfa (hay) is 2.88 and 3.17 ac-ft/acre, respectively, near Mountain Home, Idaho. According to FSA records the 450 acres of Warkentin property that is being proposed for transfer, was all planted with alfalfa (hay) in the year 2000. Even though the FSA documentation refers to 462 acres for this parcel of land, only 450 acres of the parcel is covered by the water right being transferred. Therefore, for 450 acres 1296 acre-feet would have been consumptively used during the irrigation of the crop. However, the City of Mountain Home is applying for a municipal right that is also not fully consumptive. Therefore, this consumptive use analysis should not be applicable to this transfer and the full volume of the right should be transferred.

If you have any questions regarding this information, please contact our office. Thank you and have a great day.

Sincerely,

Daren Nelson, Hydrologist

Attachments: FSA Documentation (Warkentin: 2000)
Allen & Brockway (1983): Appendix E (Mountain Home)

cc: Jay Friedly
James Bledsoe

CHARLES E.
BROCKWAY,
PH.D., P.E.

CHARLES G.
BROCKWAY,
PH.D., P.E.

2016 NORTH
WASHINGTON
STREET • SUITE 4

TWIN FALLS,
IDAHO 83301

208•736•8543

FAX: 736•8506

FSA-578 (02-01-91)

REPORT OF ACREAGE

PROGRAM YEAR 2000

FARM NUMBER: 446

FARM SUMMARY

DATE: 01-26-2005

Operator Name and Address ID
 JOHN W WARKENTIN 3080
 1915 ZUNI TRL
 DALHART, TX 79022-5224

Original: _____
 Revision: _____
 Cropland: 461.7
 Farmland: 462.0

NOTE: The following statements are made in accordance with the Privacy Act of 1974 (5 USC 552a). The Agricultural Adjustment Act of 1938, as amended, and the Agricultural Act of 1949, as amended, authorized the collection of the following data. The data will be used to determine eligibility for assistance. Furnishing the data is voluntary, however, without it assistance cannot be provided. The data may be furnished to any agency responsible for enforcing the provisions of the Acts. Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate, or any other aspect of this collection of information, including suggestions for reducing this burden, to the Department of Agriculture, Clearance Officer, Ag Box 7630, Washington, D.C. 20250; and to the Office of Management and Budget, Paperwork Reduction Project (OMB No. 0560-0004), Washington, D.C. 20503. RETURN THIS COMPLETED FORM TO YOUR FSA COUNTY OFFICE.

The following producer shares are identical for every field and crop:

Producer Name	ID	Share
JOHN W WARKENTIN	3080	1.0000

Crop	Reported	Determined
ALFAL	462.0	

OPERATOR'S CERTIFICATION: I certify to the best of my knowledge and belief that the acreage of crops and land uses listed herein are true and correct, and that all required crops and land uses have been reported for the farm as applicable. The signing of this form gives FSA representatives authorization to enter and inspect crops and land uses on the above identified land.

Operator's Signature

Date

This program or activity will be conducted on a nondiscriminatory basis without regard to race, color, religion, national origin, sex, age, marital status, or disability.

FSA-578(02-01-91)

REPORT OF ACREAGE

PROGRAM YEAR 2000

FARM NUMBER: 446

FARM AND TRACT DETAIL LISTING

DATE: 01-26-2005

Operator Name and Address ID

Original: _____

JOHN W MARKENTIN 3080
1916 ZUNI TRL
DALHART, TX 79022-5224

Revision: _____

Cropland: 461.7

Farmland: 462.0

Tract Number	Field Num ID	Irr Prc	Crop	Var/ Type	Int Use	Land Use	Reported Acreage	Determined Acreage	O/ M	Crop Stat	Prod Share	Prod ID
578	1	Ir	ALFAL		Hay		156.80			I		DEF
	2	Ir	ALFAL		Hay		58.80			I		DEF
	3	Ir	ALFAL		Hay		85.00			I		DEF
	4	Ir	ALFAL		Hay		129.70			I		DEF
	5	Ir	ALFAL		Hay		31.70			I		DEF
		Crop		Wirr		Irr						
		ALFAL		462.0								
Photo Number/Legal Description: L21.N21 R5E T4S SEC 19,30												
Cropland:		461.7	Reported:	462.0	Difference:	.3	Reported D.B.S.R.A:					.0

Mountain Home Consumptive Use from Allen and Brockway 83

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

	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
ETr									
MEAN ETr	2.23	4.61	6.09	7.90	8.24	6.70	5.08	3.64	1362.
STDV ETr	0.32	0.46	0.50	0.51	0.34	0.38	0.40	0.40	41.
Alfalfa Hay									
MEAN CU		2.25	5.62	6.98	6.79	5.12	3.48	1.33	966.
MEAN IR		1.73	5.02	6.30	6.55	4.93	3.26	0.99	879.
STDEV CU		0.23	0.46	0.45	0.28	0.29	0.27	0.14	30.
STDEV IR		0.55	0.79	0.86	0.48	0.54	0.45	0.42	55.
Alfalfa Seed									
MEAN CU		2.87	5.46	6.98	6.18	3.14	1.65	0.63	823.
MEAN IR		2.33	4.87	6.30	5.95	2.97	1.46	0.30	738.
STDEV CU		0.29	0.45	0.45	0.25	0.18	0.13	0.07	27.
STDEV IR		0.61	0.77	0.86	0.46	0.43	0.33	0.36	52.
Dry Beans									
MEAN CU			1.83	3.56	7.45	3.89			516.
MEAN IR			1.43	3.09	7.24	3.74			477.
STDEV CU			0.15	0.23	0.30	0.22			18.
STDEV IR			0.41	0.54	0.46	0.42			29.
Field Corn									
MEAN CU			1.83	3.44	7.41	6.18	3.80	1.01	727.
MEAN IR			1.38	2.92	7.17	5.98	3.59	0.69	667.
STDEV CU			0.15	0.22	0.30	0.35	0.30	0.11	23.
STDEV IR			0.45	0.58	0.50	0.59	0.47	0.38	39.
Silage Corn									
MEAN CU			1.83	3.44	7.41	6.18	3.80		696.
MEAN IR			1.38	2.92	7.17	5.98	3.59		646.
STDEV CU			0.15	0.22	0.30	0.35	0.30		23.
STDEV IR			0.45	0.58	0.50	0.59	0.47		38.
Sweet Corn									
MEAN CU			1.83	3.44	7.32	5.89			570.
MEAN IR			1.38	2.92	7.08	5.69			527.
STDEV CU			0.15	0.22	0.30	0.33			21.
STDEV IR			0.45	0.58	0.49	0.57			33.
Potatoes									
MEAN CU		1.38	2.39	6.11	6.85	4.99	2.50		741.
MEAN IR		1.02	2.04	5.63	6.67	4.85	2.34		689.
STDEV CU		0.14	0.20	0.39	0.28	0.28	0.20		24.
STDEV IR		0.37	0.41	0.67	0.40	0.45	0.32		39.
Sugar Beets									
MEAN CU		1.38	1.84	3.91	7.98	6.56	4.36	2.34	870.
MEAN IR		0.90	1.38	3.37	7.73	6.35	4.13	1.99	792.
STDEV CU		0.14	0.15	0.25	0.33	0.37	0.34	0.25	25.
STDEV IR		0.46	0.46	0.62	0.52	0.62	0.51	0.51	48.
Spring Grain									
MEAN CU		1.46	4.77	7.89	6.31	1.22			662.
MEAN IR		1.03	4.29	7.27	6.11	1.09			604.
STDEV CU		0.15	0.39	0.51	0.26	0.07			25.
STDEV IR		0.42	0.66	0.86	0.42	0.30			43.
Winter Grain									
MEAN CU	1.11	4.32	6.09	7.90	5.82	1.10			804.
MEAN IR	0.64	3.76	5.52	7.23	5.61	0.97			722.
STDEV CU	0.16	0.44	0.50	0.51	0.24	0.06			32.
STDEV IR	0.37	0.73	0.80	0.90	0.42	0.31			53.
Pasture									
MEAN CU		2.44	4.69	6.08	6.35	5.16	3.91	2.80	962.
MEAN IR		1.93	4.16	5.47	6.12	4.97	3.69	2.44	880.
STDEV CU		0.25	0.39	0.39	0.26	0.29	0.31	0.30	28.
STDEV IR		0.55	0.69	0.77	0.45	0.53	0.48	0.55	52.
Orchard									
MEAN CU		1.94	3.80	6.46	7.01	5.70	4.22	2.31	962.
MEAN IR		1.44	3.29	5.83	6.77	5.50	4.00	1.96	880.
STDEV CU		0.19	0.31	0.42	0.29	0.32	0.33	0.25	28.
STDEV IR		0.50	0.61	0.80	0.48	0.56	0.50	0.50	51.
Vegetables									
MEAN CU			1.90	4.38	6.44	5.30	3.37		656.
MEAN IR			1.55	3.96	6.26	5.16	3.21		617.
STDEV CU			0.16	0.28	0.26	0.30	0.26		22.
STDEV IR			0.38	0.54	0.38	0.46	0.38		32.

End of Data Set