



State of Utah

DEPARTMENT OF NATURAL RESOURCES DIVISION OF WATER RIGHTS

Norman H. Bangertter
Governor
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Executive Director
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State Engineer

1636 West North Temple, Suite 220
Salt Lake City, Utah 84116-3156
801-538-7240

March 8, 1990

Mrs. Echo L. Pettit
857 North 1800 West
Salt Lake City, UT 84116

Dear Mrs. Pettit:

Re: Lower Jordan Dist. Sys.
Account 28-83

Enclosed is an estimate I made at your request of the water which would be required to irrigate your property. I based this estimate on standard water use figures which we use for the Salt Lake area and on standard efficiency for a sprinkler irrigation system. I also assumed that about 20% of your property would be taken up by buildings and driveways. This is just an estimate, an in-depth study would be required to determine the specific water requirements of your property. I hope this information will be helpful to you.

If you have any questions concerning it, please contact me at 538-7380.

Sincerely,

Lee H. Sim, P. E.
Directing Engineer for
Adjudication/Distribution

LHS:bd

Encl. (1)

ESTIMATE OF WATER USE. - FOR MRS. ECHO PETTIT.

ASSUME 1 ACRE LOT WITH 20% TAKEN BY BUILDINGS AND DRIVEWAYS. AREA IRRIGATED = .80 ACRES.

ASSUME CROP IS ALFALFA.

CONSUMPTIVE USE REQUIREMENTS FOR ALFALFA IN THE SALT LAKE AREA (BASED ON MODIFIED BLANEY CRIDPLE FORMULA).

	<u>MAY</u>	<u>JUNE</u>	<u>JULY</u>	<u>AUGUST</u>	<u>SEPT.</u>	<u>OCT.</u>	<u>TOTAL</u>
ACRE FT. OF WATER PER ACRE	.27	.44	.69	.55	.32	.10	2.37
ASSUME 70% EFFICIENCY FOR SPRINKLERS	.38	.63	.98	.78	.46	.14	3.37
TOTAL ACRE FEET REQUIRED FOR .80 ACRE	.30	.50	.78	.62	.37	.11	2.68
CONVERSION TO CUBIC FEET OF WATER	13,068	21,780	33,977	27,007	16,117	4,792	116,741

CITY WATER RATES ARE \$6.45 FOR FIRST 1000 CUBIC FEET OF WATER AND \$0.43 PER 100 CUBIC FEET OVER THE MINIMUM. ASSUME INSIDE HOME USE ACCOUNTS FOR THE FIRST 1000 CUBIC FEET, SO ALL OUTSIDE WATERING WOULD COST \$0.43 / 1000 CUBIC FEET.

	<u>MAY</u>	<u>JUNE</u>	<u>JULY</u>	<u>AUGUST</u>	<u>SEPT.</u>	<u>OCT.</u>	<u>TOTAL</u>
ESTIMATED ANNUAL WATER BILL FOR OUTSIDE WATERING	\$56.19	\$93.65	\$146.10	\$116.13	\$69.30	\$20.61	<u><u>\$501.98</u></u>