

Dean J. Miller (ISB #1968)  
McDEVITT & MILLER LLP  
420 West Bannock Street  
P.O. Box 2564-83701  
Boise, ID 83702  
Tel: 208.343.7500  
Fax: 208.336.6912  
[joe@mcdevitt-miller.com](mailto:joe@mcdevitt-miller.com)

*Attorneys for Applicant*

RECEIVED  
FEB 10 PM 2:19  
IDAHO PUBLIC UTILITIES COMMISSION

BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION

IN THE MATTER OF THE APPLICATION  
OF UNITED WATER IDAHO INC. FOR  
AUTHORITY TO INCREASE ITS RATES  
AND CHARGES FOR WATER SERVICE IN  
THE STATE OF IDAHO

**Case No. UWI-W-06-02**

DIRECT TESTIMONY OF FRANK GRADILONE III

1 Q. Please state your name and business address.

2 A. Frank Gradilone III, Pleasant Valley Analytics (PVA), 9 Crestfield Road, Boonton,  
3 New Jersey 07005.

4 Q. Please state your educational and professional background.

5 A. I hold Master Degrees in Business Administration and in City and Regional  
6 Planning from Rutgers, the State University of New Jersey. As an undergraduate, I  
7 majored in environmental studies and political science, and received a BA from the  
8 State University of New York at Stony Brook.

9 While a graduate student in the City and Regional Planning program at  
10 Rutgers University, I was a Research Associate at the Center for Urban Policy  
11 Research where I was involved in a number of research projects for local  
12 government agencies and organizations, and for the U.S. Department of Housing  
13 and Urban Development. My responsibilities included survey research, computer  
14 based quantitative analyses, and fiscal impact analysis. I am a contributing author to  
15 the 1980, Center for Urban Policy Research publication entitled, **The Adaptive**  
16 **Reuse Handbook**.

17 I have been a Licensed Professional Planner in the State of New Jersey since  
18 June of 1981. I was a member of the Vernon Township (NJ) Environmental  
19 Commission, and served as chairperson of that body from 1993 through 1995.

20 I have authored and presented a number of technical papers at national and  
21 regional conferences in the field. These papers and presentations include: "A  
22 Perspective on Outdoor Water Conservation Programs at United Water", jointly  
23 with R. Henning, United Water New Jersey and M. Cahoon, United Water Idaho, at

1           **Conserv '99**, "A Water Conservation Program for the Spring Valley Water  
2           Company", **Proceedings of Conserv '93**, Las Vegas, NV, 1993; "Seasonal Rates-  
3           the Pros and Cons: A Case Study", a paper presented at the American Society of  
4           Civil Engineers, Water Resources and Planning & Management '93 Conference, in  
5           Seattle, Washington, May 1993; **Automatic Meter Reading for the Water**  
6           **Industry**, co-authored with Donald L. Schlenger, American Water Works  
7           Association Research Foundation, Denver, Colorado, 1992; "Some Questions on  
8           Cost and Benefits of Rate Regulation," co-authored with Drs. Michael Crew and  
9           Donald L. Schlenger, published in **NAWC Water**, Summer 1986; "Water  
10          Conservation: A Case Study," a paper presented at the **Water for the 21st Century**  
11          conference in Dallas, Texas, 1984; "Impact of Summer/Winter Differential Rate  
12          Structure," a paper presented at the **ASCE, Urban Water 1984 Conference** in  
13          Baltimore, Maryland; and the "AWWA Survey of Remote Metering Practices," a  
14          paper presented jointly with Donald L. Schlenger at the **1984 AWWA Annual**  
15          **Conference** in Dallas, Texas.

16        Q.     Please describe your employment experience.

17        A.     I was employed by United Water Resources (UWR), and its predecessor companies,  
18          from August 1979 through August 2005.

19                From 1979 to 1983, I was a Special Projects Researcher in the Research and  
20          Development Division of the Hackensack Water Company (now known as United  
21          Water New Jersey). My responsibilities included research design and quantitative  
22          analysis, system operation analysis, and survey research for the Company and its

1 subsidiary, Spring Valley Water Company (now known as United Water New  
2 York).

3 From 1983 through 1987, I was Manager of Demand Forecasting. My  
4 responsibilities included demographic and economic forecasting, capital projects  
5 planning, liaison with government agencies and regulatory bodies, and management  
6 of research personnel. I also provided testimony before the New York State  
7 Department of Environmental Conservation on the need and timing for a proposed  
8 reservoir and water filtration plant project for the United Water New York system,  
9 known as the Ambrey Project.

10 In 1988 I transferred to United Water Resources as Manager-Resources  
11 Planning in the Regulatory Department for United Water Resources. In this  
12 capacity, I was responsible for water demand, demographic and economic forecasts  
13 for United Water's operating units.

14 With respect to my involvement in water demand forecasting, to date, I have  
15 conducted basic research to determine the appropriate forecasting methods. I have  
16 created forecasting databases, and I continued to provide long-range forecasts for  
17 both United Water New York and United Water New Jersey. I produced short-run  
18 water consumption and revenue forecasts for United Water Idaho in its last three  
19 rate cases (UWI-W-97-6, UWI-W-00-1, and UW-04-04). I have also provided  
20 short-run water consumption and revenue forecasts for a number of other United  
21 Water operations including: United Water New York in its last two rate cases (NYS  
22 PSC Case 92-W-0645 and Case 94-W-0486); United Water New Jersey (NJ BPU  
23 Case WR-90080792J); United Water Toms River (NJ BPU Case WR-95050219);

1 United Water New Rochelle (NYS PSC. Case 96-W-1168 and Case 99-W-0948),  
2 United Water Florida (FPSC Case 960451-WS), United Water Delaware (DPSC.  
3 Case 96-164), United Water Pennsylvania (PPUC. Docket No. R-00973947), and  
4 United Water Arkansas (APSC Case 960451-WS).

5 In 2001 I took over the management of United Water's LeakGuard program.  
6 LeakGuard, which has been offered in the United Water Idaho service area, provides  
7 coverage for the repair or replacement of the customer owned portion of the water  
8 service line connecting that customer's home to the water system. In addition to my  
9 responsibilities here, I continued to provide the short run revenue forecasts for  
10 United Water New Jersey and have had a continuing liaison with the United Water  
11 M&S Rate Department on the revenue side of rate cases.

12 I resigned my position at UWR in 2005 to pursue alternate employment  
13 opportunities as a consultant to the water industry. In this capacity I have been  
14 retained by United Water Idaho to provide the revenue analysis for this regulatory  
15 proceeding.

16 Q. Could you describe your responsibilities in connection with this rate filing?

17 A. The purpose of my testimony is to present an assessment of revenues for metered  
18 water sales, private fire protection service revenues, and other revenues for a base  
19 year covering the twelve month period ended October 31, 2005 for United Water  
20 Idaho ("United Water" or "Company"), and to assess revenues that would be  
21 realized on a pro forma basis for a test year period defined as May 31, 2005 through  
22 April 30, 2006.

23 Q. How did you prepare these projections?

1 A. Separate assessments of metered water consumption and revenues were made for  
2 each customer sector in the system; residential, commercial, and public authority.  
3 Revenues for private fire protection services and other revenues were also analyzed.  
4 This analysis, and supporting tables and figures detailing this assessment, is  
5 contained in Exhibit 1, Schedules 1 through 4.

6 Q. What was the level of metered water sales for the base year in this case based on the  
7 Company's financial records?

8 A. Base year metered water sales revenue for the twelve-month period ended October  
9 31, 2005 under existing tariff schedules totaled \$29,399,223. Private fire protection  
10 services for the base year were \$527,417. Other revenue sources, including  
11 miscellaneous revenues from customer fees and charges, rents, and unbilled  
12 revenues totaled \$317,732 for the base year. Overall as shown in Exhibit 1,  
13 Schedule 1, Page 1 of 2, Column 1, total revenue per the income statement for the  
14 Company for the base year was \$30,244,372.

15 Q. Was it necessary to adjust the base year revenues as shown on the income statement  
16 of United Water Idaho?

17 A. Yes. Unbilled revenues of \$173,650 were deducted from the revenue stream since  
18 once total billed consumption for the base year is assessed, all water used is priced  
19 and assumed to be billed, and collected, during the pro forma test period. In  
20 addition the amortization of revenues for the Carriage Hills system as stipulated in  
21 IPUC Order No. 29625 was added to the revenue stream. The amount of this  
22 amortization was set at \$5,628 in revenues per year for a 5 year period starting in  
23 2005.

- 1 Q. Did you obtain a bill analysis for the base year period?
- 2 A. Yes. Overall, the level of revenue in the bill analysis for billed services to the  
3 residential, commercial and public sectors in the base year was \$47,141 more than  
4 the books, or in percentage terms only 0.16%, as shown in Exhibit 1, Schedule 1,  
5 Page 1 of 2, Column 4. Accordingly the bill determinants as per the bill analysis  
6 were used as the basis for the analysis of metered sales in the United Water Idaho  
7 system in the base year.
- 8 Q. Did you have to make any adjustments to revenues as per the bill analysis to  
9 normalize revenues for the test period?
- 10 A. Yes. These adjustments fell into three areas. First was a weather normalization, to  
11 correct for the impact of deviations in weather conditions from normal that affected  
12 consumption in the base year. Second, was an adjustment to account for underlying  
13 changes in the trend of water use per customer that have been precipitated by  
14 community growth patterns, customer behavior changes and pricing. Third, were  
15 adjustments to account for anticipated growth in the system through April 2006, to  
16 ensure that pro forma revenues are in synch with the capital additions through the  
17 end of the test year in this rate proceeding.
- 18 Q. How did you proceed with the weather normalization and the change in usage  
19 patterns due to the additions of new system areas and the change in irrigation water  
20 regulations?
- 21 A. To assess the impact of these factors on demand during the base year a detailed  
22 analysis of the usage trends in the residential, commercial and public sectors in the  
23 system was conducted. These analyses, which involved the use of multiple

1 regression modeling of historical consumption patterns versus weather data, the  
2 price of water and additions to the system are detailed in Exhibit 1, Schedules 2  
3 through 4 accompanying my testimony. As developed in this analysis a weather  
4 normalizing adjustment of \$909,512 was indicated for the base year. A \$9,517  
5 adjustment was indicated for the trend factor.

6 Q. Could you discuss the adjustments that were made to account for anticipated growth  
7 through April 2006?

8 A. Yes. First, there were adjustments for anticipated growth in the number of  
9 customers in the United system through April 2006. During the base year 2,278  
10 residential customers were added to United system. An additional 1,013 customer  
11 are expected to be added to the system through April 2006. For the commercial  
12 sector 84 customers were added during the base year; and an addition 52  
13 commercial customers are anticipated through April 2006. Based on existing rates  
14 this represents \$171,645 in additional revenues.

15 Q. United Water Idaho received rate relief in August and September of 2005, how  
16 did you assess the impact of these rate changes on pro forma revenue?

17 A. To assess the impact of these rate changes the bill determinants associated with  
18 total adjusted test year were priced at the rates currently in effect in the United  
19 Water Idaho service area. Pricing these bill determinants at current rates yields an  
20 additional \$1,794,644 in metered sales revenue. Total pro forma metered sales  
21 revenues for the United Water Idaho for the 12 month period ending April 2006 are  
22 therefore \$32,331,682.

1 Q. Could you please discuss your assessment of private fire service revenues for the  
2 base year?

3 A. United provides private fire protection services to about 1,430 customers through  
4 separate service lines and hydrants. Base year revenues for these services based on  
5 data in the bill analysis were \$523,723. Due to growth in the number of private fire  
6 services anticipated through April 2006 an additional \$10,066 in revenues were  
7 added to the total to derive normalized base year private fire revenues of \$533,789  
8 the base year (Exhibit 6, Schedule 1, Page 2 of 2, Column 5). Pricing these services  
9 under the current rate schedule yield test year fire protection revenues of \$568,417.

10 Q. Could you please discuss your assessment of the proper level of Other Revenues  
11 that should be considered on a pro forma basis for the base year?

12 A. Looking ahead the Company can be reasonably expected to receive revenues from  
13 three additional sources—bulk water sales through hydrants, rents of water meters  
14 to construction sites, and miscellaneous customer service charge revenues  
15 (reconnection charges, bad check fees, etc.).

16 Customer service charges for returned checks and reconnection fees  
17 amounted to \$46,131 in the base year. The fee for returned checks was increased  
18 from \$15 to \$20 per item in August 2005 as per IPUC Order No. 29838. Base year  
19 customer service fee revenue was adjusted upwards by \$1,397 to account for this  
20 increase. Based on the average rate of returned checks and reconnections per  
21 customer during the base year, customer service fee revenue was increased another  
22 \$629 to account for growth through the end of the test year.

1           The Company received \$12,095 in revenues from construction meter rents  
2           and \$85,856 from bulk water sales. Construction meter rents were also increased  
3           under Order 29838, from \$20 to \$25 per permit. Under the current rate structure  
4           construction meter rents would have totaled \$14,775 during the base year, so these  
5           revenues were adjusted upwards by \$2,680. For the pro forma period no adjustment  
6           was made since the rental of construction meters is tied to the rate of growth in the  
7           service area and no change in the underlying growth rate is anticipated (hence it is  
8           expected that the same number of construction meters would be rented during the  
9           pro forma period).

10           Bulk water sales are billed under the basic United Water meter service tariff,  
11           that is, fixed service charges based on meter size and commodity charges based on  
12           usage. Metered service rates were increased twice during the base year. Once under  
13           IPUC Order 29838, on August 2, 2005 and next under IPUC Order No.29871, on  
14           September 28, 2005. Assuming all bulk water sales had been billed under the  
15           current tariff as per Order 29871, an additional \$5,010 in revenues would have been  
16           realized in the base year. Other Revenues as adjusted for the test year therefore  
17           amounted to \$159,428.

18    Q.    Based on your analysis what conclusions do you draw for adjusted pro forma  
19           revenues for the base year?

20    A.    Pro forma metered water sales, fire service and other revenues under the existing  
21           tariff schedule for the twelve month test year period ended April 30, 2006 total  
22           \$33,059,527 (as shown in Exhibit 1, Schedule 1, Page 2 of 2, Column 7);  
23           \$2,815,155 more than booked during the base year.

- 1 Q. How does the Company propose to change its tariffs to reflect the change in rates  
2 proposed in this rate case?
- 3 A. The Company proposes to increase rates to meet its revenue requirements on an  
4 across the board basis. Based on a revenue requirement of \$38,981,217 fixed  
5 service charges, metered use charges and private fire service rates would need to  
6 be increase 17.91%.
- 7 Q. Have you developed a rate proof to show that the proposed tariffs will generate the  
8 revenues needed to meet the revenue requirement?
- 9 A. Yes. The rate proof for metered sales in the residential, commercial and public  
10 sectors is shown in Exhibit 1, Schedule 4 Page 11 of 11. The rate proof for private  
11 fire protection services is shown in Exhibit 1, Schedule 3 Page 37 of 37. The  
12 proposed tariff structure generates \$38,980,844 in revenues; a difference of (\$373)  
13 with respect to the revenue requirement.
- 14 Q. Have you prepared any other schedules for this Application for Rate Increase?
- 15 A. Yes. I also prepared Exhibit 2, which shows the existing tariffs and proposed tariffs  
16 for this case.
- 17 Q. Does this conclude your testimony?
- 18 A. Yes it does.

**UNITED WATER IDAHO**  
**SUMMARY OF DERIVATION OF BASE YEAR OPERATING REVENUE**  
**FOR THE TWELVE MONTHS ENDED OCTOBER 31, 2005**

LINE NO.	ACCOUNT	ACCOUNT TITLE	(1) Revenue Per Books for 12 Months Ended 10/31/05 [UWID Income Statement]	(2) Eliminations & Additions to Revenues [See notes]	(3) Revenue Per Books less Eliminations & Additions [ (1) + (2) ]	(4) DIFFERENCE BILL ANALYSIS TO BOOKS		(6) Revenue Per Bill Analysis for 12 Months Ended 10/31/05 [Ex1 Sch4 Ppg]	(7) Base Year Revenue for 12 Months Ended 10/31/05 [Col (6)]
						Amount [ (6) - (3) ]	Percent [ (4) / (3) ]		
<b>TARIFFED SERVICES</b>									
<b>METERED WATER SALES:</b>									
1.	461100	Residential	\$ 20,412,651		\$ 20,412,651	\$ 19,090	0.09%	\$ 20,431,741	\$ 20,431,741
2.	461200	Commercial	\$ 8,843,492		\$ 8,843,492	\$ 29,696	0.34%	\$ 8,873,188	\$ 8,873,188
3.	461400	Public Authority	\$ 143,080		\$ 143,080	(\$ 1,645)	-1.15%	\$ 141,435	\$ 141,435
4.		<b>Total Metered Sales</b>	\$ 29,399,223	\$ 0	\$ 29,399,223	\$ 47,141	0.16%	\$ 29,446,364	\$ 29,446,364
<b>FIRE PROTECTION:</b>									
5.	462000	Private Fire Protection	\$ 527,417		\$ 527,417	(\$ 3,694)	-0.70%	\$ 523,723	\$ 523,723
6.		<b>Total Tariffed Services</b>	\$ 29,926,640	\$ 0	\$ 29,926,640	\$ 43,447	0.15%	\$ 29,970,087	\$ 29,970,087
<b>OTHER REVENUE</b>									
7.	471000	Customer Fees Revenue	\$ 46,131		\$ 46,131	\$ 2	0.00%	\$ 46,133	\$ 46,133
8.	472000	Rents-Construction Meters	\$ 12,095		\$ 12,095	\$ 0	0.00%	\$ 12,095	\$ 12,095
9.	471000	Bulk Hydrant Sales	\$ 85,856		\$ 85,856	(\$ 285)	-0.33%	\$ 85,571	\$ 85,856
10.	474900	Unbilled Revenue	\$ 173,650	(173,650) [A]	\$ 0	\$ 0	0.00%	\$ 0	\$ 0
11.	475200	Carriage Hill	\$ 0	5,628 [B]	\$ 5,628	\$ 0	0.00%	\$ 5,628	\$ 5,628
12.		<b>Total Other Revenue</b>	\$ 317,732	(\$ 168,022)	\$ 149,710	(\$ 283)	(\$ 0)	\$ 149,427	\$ 149,712
13.		<b>TOTAL REVENUE</b>	\$ 30,244,372	(\$ 168,022)	\$ 30,076,350	\$ 43,164	0.14%	\$ 30,119,514	\$ 30,119,799

NOTES:  
[A] Elimination of unbilled revenue estimate since all consumption is assumed to be billed on a pro forma basis  
[B] Imputation of revenues from Carriage Hill

Idaho Public Utilities Commission  
Office of the Secretary  
RECEIVED

FEB 10 2006

Boise, Idaho

# UNITED WATER IDAHO

## NORMALIZING ADJUSTMENTS TO OPERATING REVENUE UNDER P ESENT RATES & TOTAL REVENUES UNDER PROPOSED RATES FOR THE BASE YEAR ENDED OCTOBER 31, 2005 & THE TEST YEAR ENDED APRIL 30, 2006

LINE NO.	ACCOUNT TITLE	(2) ADJUSTMENTS TO REVENUE				(3) Water Use Trend Adjustments	(4) Change Thru 4/31/06	(5) Adjusted Test Year of Rate Changes During Base Year	(7) Test Year Revenue for 12 Months Ended 4/30/06	(8) REVENUE AT PROPOSED RATES	
		(1) Base Year Revenue for 12 Months Ended 10/31/05	(2) Weather Normalizing Adjustments	(3) Water Use Trend Adjustments	(4) Change Thru 4/31/06					(5) Adjusted Test Year of Rate Changes During Base Year	(6) Revenues for Test Year
<b>TARIFFED SERVICES</b>											
<b>METERED WATER SALES:</b>											
1.	Residential	\$ 20,431,741	\$ 672,651	(\$ 51,299)	\$ 140,736	##	\$ 1,140,384	\$ 22,334,214	\$ 26,342,283	\$ 4,008,069	17.95%
2.	Commercial	\$ 8,873,188	\$ 217,652	\$ 60,767	\$ 30,615	##	\$ 643,778	\$ 9,825,999	\$ 11,590,498	\$ 1,764,499	17.96%
3.	Public Authority	\$ 141,435	\$ 19,209	\$ 49	\$ 293	##	\$ 10,482	\$ 171,468	\$ 202,258	\$ 30,789	17.96%
4.	<b>Total Metered Sales</b>	<b>\$ 29,446,364</b>	<b>\$ 909,512</b>	<b>\$ 9,517</b>	<b>\$ 171,645</b>	<b>##</b>	<b>\$ 1,794,644</b>	<b>\$ 32,331,682</b>	<b>\$ 36,135,039</b>	<b>\$ 5,803,357</b>	<b>17.95%</b>
<b>FIRE PROTECTION:</b>											
5.	Private Fire Protection	\$ 523,723			\$ 10,066	##	\$ 34,628	\$ 568,417	\$ 670,058	\$ 101,641	17.88%
6.	<b>Total Tariffed Services</b>	<b>\$ 29,970,087</b>	<b>\$ 909,512</b>	<b>\$ 9,517</b>	<b>\$ 181,711</b>	<b>##</b>	<b>\$ 1,829,272</b>	<b>\$ 32,900,099</b>	<b>\$ 38,805,097</b>	<b>\$ 5,904,998</b>	<b>17.95%</b>
<b>OTHER REVENUE</b>											
7.	Customer Fees Revenue	\$ 46,133			\$ 629	##	\$ 1,397	\$ 48,159	\$ 48,159	\$ 0	0.00%
8.	Rentis-Construction Meters	\$ 12,095				##	\$ 2,680	\$ 14,775	\$ 14,775	\$ 0	0.00%
7.	Bulk Hydrant Sales	\$ 85,856				##	\$ 5,010	\$ 90,866	\$ 107,185	\$ 16,319	17.96%
9.	Unbilled Revenue	\$ 0			\$ 0	##	\$ 0	\$ 0	\$ 0	\$ 0	0.00%
10.	Carriage Hill	\$ 5,628				##	\$ 0	\$ 5,628	\$ 5,628	\$ 0	0.00%
11.	<b>Total Other Revenue</b>	<b>\$ 149,712</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 629</b>	<b>##</b>	<b>\$ 9,087</b>	<b>\$ 159,428</b>	<b>\$ 175,746</b>	<b>\$ 16,319</b>	<b>10.24%</b>
12.	<b>Total Revenue</b>	<b>\$ 30,119,799</b>	<b>\$ 909,512</b>	<b>\$ 9,517</b>	<b>\$ 182,339</b>	<b>##</b>	<b>\$ 1,838,359</b>	<b>\$ 33,059,527</b>	<b>\$ 38,980,844</b>	<b>\$ 5,921,317</b>	<b>17.91%</b>
										<b>REVENUE REQUIREMENT (\$ 373)</b>	
										<b>PERCENT DIFFERENCE REVENUE REQUIREMENT 1's RATE PROOF 0.00%</b>	

RECEIVED  
MAY 10 10 12:19  
IDAHO PUBLIC UTILITIES COMMISSION

NOTES: [A] Annualization of metered service rate increases during base year  
 [B] Annualization of fire services rate increases during base year  
 [C] Annualization of miscellaneous service fees increases during base year

RECEIVED  
FEB 10 2:19 PM  
OFFICE OF THE  
UTILITY COMMISSIONER

# REPORT ON WATER SERVICE REVENUES FOR

## UNITED WATER IDAHO

### FOR THE TEST YEAR

May 1, 2005 through April 30, 2006

## INTRODUCTION

This report assesses historical water consumption use patterns for United Water Idaho (United Water or Company), and derives: (1) billed water consumption and revenues; (2) fire protection service revenues; and (3) other miscellaneous revenues, for the **Test Year** defined as the period from May 31, 2005 through April 30, 2006. The assessment of revenues for this forward looking period was based on the 12-month period November 1, 2004 through October 31, 2005, which is referred to as the **Base Year** herein.

## BASE YEAR & TEST YEAR REVENUE:

Total revenues booked during the base year totaled \$30,244,372 (Exhibit 1, Schedule 1, Page 1 of 2), which are broken down into three categories: Metered Water Sales, Private Fire Protection services and Other Revenue.

Total revenue booked during the base year for Metered Water Sales in the United Water Idaho system amounted to \$29,399,223 (Exhibit 1, Schedule 1, Page 1 of 2). Revenues as per the determinants in the bill analysis for the base year amounted to \$29,446,364; only \$47,141 or 0.16% more than the book total (Exhibit

1, Schedule 1, Page 1 of 2, Column 6). The bill analysis determinants were thus established as the basis for the analysis (Exhibit 1, Schedule 1, Page 1 of 2, Column 7). [A complete set of bill analysis reports were obtained for the base year from Untied Water Idaho's billing system. The data from these reports are summarized in Exhibit 1, Schedule 4. Pages 1 to 9 of the Schedule provide detailed tables showing the derivation of the bill determinants for metered sales for the base year, as billed and as re-priced under the current tariff.]

Fire protection revenue as per the books amounted to \$527,417 (Exhibit 1, Schedule 1, Page 1 of 2, Column 1). Revenues as per the determinants (Exhibit 1, Schedule 1, Page 1 of 2, Column 6) in the bill analysis were slightly lower at \$523,723. The bill determinants as per the bill analysis were used moving forward (Exhibit 1, Schedule 1, Page 1 of 2, Column 7).

Other Revenues, which include customer service fees, bulk water sales, and unbilled revenue totaled \$317,732. After eliminating unbilled revenue and adding imputed revenue for Carriage Hill, total base year revenues were \$149,712 from these sources. Thus the starting point for the analysis of total base year revenue was \$30,119,799 as shown in Exhibit 1, Schedule 1, Page 1 of 2, Column 7.

Four adjustments were made to base year revenues: weather normalization, base trend adjustment, growth through April 2006, and full pricing of the resulting bill determinants under the current rate structure. These adjustments (which are summarized in Exhibit 1, Schedule 1, Page 2 of 2) result in net metered sales revenue of \$32,331,682 for the United Water system for the test year. Private fire revenues for the test year total \$568,417. Other revenues total \$159,428. Therefore total revenue under current rates for the test year were assessed herein to be \$33,059,527 (Exhibit 1, Schedule 2, Page 2 of 2), an increase of just over \$2.8 million versus revenue booked in the base year. The adjustments that result in this increase are discussed in detail below. The report also contains the calculation of the proposed rate structure to meet the revenue requirement of \$38,981,217, and a proof that these rates will generate the revenue required.

## **REVENUE ANALYSIS:**

For this assessment, the historical record for the period January 1986 through November 2005 was analyzed. The data, which came from the Company's billing system and other records, included: monthly-billed consumption and the number of customers served by class for each of the three sectors in the United Water Idaho system—residential, commercial and public; fire service counts by service size and type; and, customer service fees and other miscellaneous revenue sources.

Linear regression models were developed to assess residential, commercial and public sector water consumption patterns. Trending analysis was employed to project fire protection services and other revenues. These were combined to produce the total billed water consumption and revenue estimates for the base year and the pro forma period.

Before reporting the results of these analyses, the following section will describe the linear regression modeling technique, and why it was used in the analysis.

### **LINEAR REGRESSION MODELING**

Multiple linear regression analysis is a statistical data modeling technique that is used to describe in mathematical terms the relationships between variables. In this case a regression model was developed to assess the relationship between the amount of water consumed by customers in each sector, and a number of factors that are known to affect water use. The result of a regression analysis is an equation that defines the relationship between the variable the analyst wishes to predict (in this case, water consumption) and other variables that are correlated in a systematic way to that variable (in this case, weather conditions, seasonal patterns, water price, and

the addition of new customers to the system). These correlated variables are also known as explanatory variables.

A multiple linear regression equation is expressed in general form as:

$$Y = a + bX + cZ + \dots + nN$$

An example of a simple equation that could be used to predict water consumption as explained by the number of customers and the average daily temperature in the system area would be expressed in the form:

$$\text{Consumption} = a + b * \text{number of customers} + c * \text{average temperature}$$

The regression analysis provides values for "a", which is a constant (a fixed number), and "b" and "c", which are known as coefficients (there is one coefficient generated for each variable that is correlated to the variable that is being modeled). Coefficients can be positive or negative depending upon the relationship between the variable one is predicting and the explanatory variables. To use this equation to predict water consumption for any month, the number of customers to be served in the month is multiplied by the coefficient "b", and the temperature in the month is multiplied by "c" and then this result is added to the value for the constant "a". For example, if the actual regression equation was:

$$\text{Consumption (CCF)} = 70,000 + 20 * \text{number of customers} + 50 * \text{average temperature}$$

Then consumption for a month in a system that had 50,000 customers and where the average temperature was 70 degrees, would be predicted to be 1,713,500 CCF [i.e.,  $70,000 + (20 * 50,000) + (50 * 70) = 70,000 + 1,000,000 + 3,500$ ].

The first step in regression analysis is the creation of a database of historical data that accurately reflects the phenomenon the analyst would like to model. In the process of developing a regression model database, the analyst may use the data in its raw form (for example, the number of customers served), may transform it (for example, take the log of the variable), or may find that it is necessary to add extra variables (referred to as dummy variables) to take into account events or patterns in the time series that are known to have affected the data, but that are not readily

quantifiable (such as a recession, or, changes in non-weather related water use patterns). The data included in the database used in the analysis of billed consumption are described below.

**Variables Included in Modeling Database:** A primary determinant of water demand is the number of customers served. Hence the first variable included in the database was the number of customers served in United Water's service area. Next water use per customer variables were created by dividing the amount of water use by the number of customers served. For the residential and commercial sectors these factors were created using the data as recorded on a monthly basis from United Water Idaho's billing system. For the public sector it was decided to calculate an average customer count number based on the number of customers in service during the summer period, rather than use the actual monthly numbers recorded. A large portion of the customers in the public sector are seasonal, and over the years varying numbers of these customers canceled and restored service each year. As result the number of customers in the winter period are all over the map, some years barely a quarter of the summer count, and in others almost identical to the summer count. Basing the customer count on the summer numbers created a consistent base to work from, and resulted in a more stable analysis.

Weather conditions have been shown to effect water consumption patterns in numerous studies of water demand behavior. Based on the underlying climatic regime in an area, and the nature of the customer base, a number of weather related variables have been found to be correlated with water consumption; these include: average temperature, cooling degree days, number of days over 90 degrees Fahrenheit, total rainfall, number of days with rainfall, and the amount of rain per rainfall event. These weather data for the official U.S. Weather Service station for Boise, Idaho (Station CXUS56 KBOI 010933) was obtained for this analysis.

Substantial changes in the underlying characteristics of the customer base and customer water use patterns also affect water use patterns. Since 1980 a key factor that has been effecting water use in the United Water Idaho service area, and indeed across the nation, was the passage of Federal Standards that mandated lower water

use for all water using fixtures in households. These standards, affecting toilets, faucets and showerheads, have resulted in a long run decrease in the amount of water used per customer across the U.S. The customers in United Water's service area have also been subject to this trend. In addition, one other factor has resulted in a more pronounced downward pressure on use per customer in the residential sector; the passage of regulations in the mid-1990s that required all new construction to use alternate lawn water supplies, if such supply was available. Customers that must use available irrigation water for lawn watering clearly do not use as much water during the summer months as customers that rely on United Water Idaho's supply.

Another key factor effecting water use is the price of the service. United Water Idaho has made significant changes to the structure, and overall price of its tariffs, and these changes have had an impact on water use in the service area. The major structural change was the implementation of summer/winter pricing in 1993. Summer/winter pricing has proven to be an effective tool to manage peak period sales in numerous water systems, and have proven to be effective in the United Water Idaho system as well. Since 1986 the Company has also received a number of rate increases that has seen the average customer bill increase by over 135% on an inflation adjusted basis. These price changes have also had an impact on customer usage during the historical period of record.

Two pricing variables were created both assuming a typical customer with a  $\frac{3}{4}$  meter and fixed amount of water for each tariff structure in effect over the period (Exhibit 1, Schedule 3, Page 1 of 37). The first variable was an estimated "Annual Price" which assumed 200 CCF per year for water use. For use under the rate structures that include minimum charges that were in effect prior to 1993 100 CCF was included under the minimum and the remaining 100 CCF was priced at the single commodity rate in the tariff. For use under the rate structures with the summer/winter component, the price included the fixed service charge for a  $\frac{3}{4}$ " meter plus pricing of 200 CCF of use on a pro-rated basis using a  $\frac{1}{2}$  month convention for each rate changeover. (That is, for January through April, and November through December, use was priced wholly at the winter rate; June through September were

priced wholly at the summer rate; and May and October were priced half at the winter rate and half at the summer rate). The second variable was a "Marginal Price" that also assumed 200 CCF per year, but pricing all use at the highest marginal rate (for the tariffs in effect prior to 1993 this was the single commodity rate in the tariff, and for the tariffs in effect after 1993 this was the summer rate); the assumption being that customers ultimately modified behavior based on the highest price signal received during a year.

Note however, that the pricing variables do not correspond to a typical bill, since there is no typical bill for the full range of residential, commercial and public customers in the United Water Idaho service area. Rather the variables constructed represent the relative change in rates that customers experienced since 1986. Based on marginal cost pricing theory each customer would have reacted to these price changes individually; some would have not changed their behavior at all, some would have changed their behavior dramatically. By capturing the relative change in rates in these variables, regression modeling is able to assign a value for the aggregate change in the behavior of all customers in the service area due to the change in rates over time.

Finally, the changing seasons and economic activity patterns also need to be accounted for. For example, in the summer months, warmer temperatures and drier conditions in general, result in higher water use due to increased lawn watering, outdoor activities and business uses—for example, air conditioning make-up water and evaporative cooling systems. (Specific weather conditions in a month will either suppress or enhance the basic pattern, hence monthly weather data is included in the analysis to help develop a better predictive model of water demand behavior.)

The specific months included in the database to measure these pattern effects were determined by an indexing procedure. The indices were developed using a medial averaging methodology. Arithmetic averages are sensitive to outliers; that is, extreme data points either on the high or low end. The medial average is the arithmetic average of a data set, excluding the high and low values in it. Using a medial average is a systematic way to remove extremes from a data set, thus yielding

more stable results. The monthly pattern index developed for each sector is shown in Exhibit 1, Schedule 3, Page 2 of 37.

**Model Verification** Regression analysis provides the analyst with measures of how good the model is at explaining the variable the analyst is trying to predict, and defines in statistical terms how accurate the model is.

The first step in verifying the validity of a regression model is to determine the goodness-of-fit of the equation as defined by the statistics generated in the process. The overall goodness of fit is represented by a statistic called R-squared. R-squared is a measure of the total variance explained by the regression equation. If there were no relationship between the explanatory variables and the predicted variable, then R-squared would be 0%; if there were a perfect relationship between the variables, then R-squared would be 100%. In general, higher r-squares are associated with better predictive ability, although a high R-squared is no guarantee of absolute predictive ability.

In any regression analysis there remains a danger that the R-squared value may reflect nothing more than spurious correlation. For this reason, in addition to determining the "goodness-of-fit", as measured by the R-squared statistic, it is necessary to test the logic and believability of the regression equation both as to the size and the direction of any apparent causality, and to verify the accuracy of the model by comparing actual consumption in past periods against the estimates generated by the model.

The second step in the verification process is therefore to determine if the equation makes intuitive sense. For example, a coefficient representing the number of days over 90 degrees Fahrenheit should be positive, confirming the intuitive notion that as the temperature increases, so to does water consumption. Likewise, the number of days with precipitation, as logically expected, should be negatively correlated with water demand.

The final step in the verification process is using the model to estimate consumption over the same time period as the original database. The model, while

showing variances in each year, on an average basis for the entire base period should yield low absolute and percentage variances.

The regression modeling was performed on a Compaq computer using the Microsoft Excel 2000 Version of the software package. A number of iterations and combinations of weather variables were tried; the results presented here represent the best-fit models for each sector.

## **METERED SALES CONSUMPTION ANALYSIS**

***Residential Sector Consumption Analysis:*** Exploratory data analysis revealed that weather conditions, as expected, affected water use in the United Water Idaho service territory. The residential sector also exhibited a strong seasonal pattern, with consumption in the summer months being up to four times as high as the winter months. Therefore, regression models were developed that took into account the impact of weather conditions and the change in the seasons.

Given the large difference in the demand patterns between the summer and winter seasons, and the fact that weather variables have a negligible impact on water use patterns in the winter (and that therefore, weather fluctuations are not highly correlated with water use in the winter) it was decided to assess water consumption separately for the winter and summer periods. Based on an analysis of water use patterns over the course of the year, the months of January through April were established as the winter/base period, while May through December was established as the summer/peak period (Exhibit 1, Schedule 3, Page 2 of 37). The evident shifting forward in timing of the peaks and valleys of the water use pattern is the result of the lag in billing customers every two months. For example, this results in including months such as April in the winter/base period, even though intuitively one would think it should be included in the summer/peak period. And, vice versa November is in the summer/peak period rather than the winter/base period.

**WINTER PERIOD ANALYSIS:** The number of residential customers served by month in United Water's service area is shown in Exhibit 1, Schedule 3, Page 3 of 37. As shown on this table, the number of residential customers has been exhibiting a steady upward trend, but that the trend was disturbed on three occasions due to recoding of customers and acquisitions of new system areas.

In early 1989 apartment buildings in the service area were reclassified as commercial customers resulting in a loss of 897 "residential" customers in the dataset, resulting in "negative" growth in the sector for that year. In the 1996-97 period about 1,000 customers in Garden City, Warm Springs Mesa, Redwood Creek, Island Woods and Banbury were added to the system, bumping up the growth for that year. The recoding of customers in 1989 and the addition of customers in the 1996-97 period did not seem to appreciably affect the amount of water used per customer; use per customers continued to decrease at about the same rate as it had been since the early 1990s, owing to the introduction of water saving plumbing fixture standards at the Federal level and other local factors.

In 1999, South County, Barber and Raintree were added. The acquisition of these service areas added 4,800 customers to the system, representing a large one-time increase of over 9% in the residential customer base, and more importantly induced a further decrease in the trend in the amount of water used per customer. The addition of this block of customers put downward pressure on the use per customer trend for two reasons. One, alternate irrigation water was readily available and used extensively in these areas, and two, in the case of South County, water rates were much lower than United's rates, and these lower rates were increased to the United water tariff over a 5 year phase-in period. Hence, the customers experienced a substantial increase in water bills over this period, and reacted accordingly and reduced water use.

In the end it was found that for the winter period, a regression of residential water use per customer versus time, a variable representing the marginal price of water, and a dummy variable to account for the addition of South County in 1999

and the phase-in of United Water rates, resulted in the best fit, even though the R-squared for the equation representing residential water use for the winter season was a relatively low 27% (Exhibit 1, Schedule 3, Page 4 of 37, and shown graphically in Exhibit 1, Schedule 3, Page 5 of 37).

Mitigating against the low R-squared was the fit of the equation to actual results. As shown in Exhibit 1, Schedule 3, Page 6 of 37, the regression estimates for winter water use were on average within 0.01% of the actual, and the highest individual year variance was only 6.5%. Based on this analysis, winter consumption for the test was adjusted upwards by 47,851 CCF. Actual consumption in the base year was 1,829,627 CCF; the regression estimate was 1,877,478 CCF.

**SUMMER PERIOD ANALYSIS:** For the summer period, average monthly temperature, total monthly rainfall, the marginal price of water and dummy variables to account for the addition of South County to the service area and the monthly pattern of use over the summer months, proved to be the best combination of variables to predict summer water use per customer. The statistics for the regression analyses for the residential sector are summarized in Exhibit 1, Schedule 3, Page 7 of 37. The R-squared for the equation for peak use per customer was quite good — 91.8% — particularly given the complexity of the phenomena being measured. The variability from year-to-year for summer use is a bit higher than the winter model owing to the volatility of use during the summer as shown in Exhibit 1, Schedule 3, Page 8 of 37, however on average the regression estimates differed from actual results by only 1.33%.

**NORMALIZING ADJUSTMENTS:** The next step in the analysis was to normalize metered sales revenues to account for the weather conditions during the summer/peak period during the base year, and the projected change in the number of customers through the end of the test year.

The weather normalization was accomplished by recomputing the regression results for the summer/peak period using the long run medial average of the weather

conditions for the period 1986 to 2005 for the months May through December, rather than the actual weather during the period. This provides an estimate of what water sales would have been if weather conditions had been “normal”, rather than being cooler and wetter as they actual were. In order to provide a better match between the weather conditions that influenced customers during the bi-month billing cycle used by United Water Idaho, a new weather variable was created that took the two month lag in billing into effect. This was accomplished by using a standard pro ration technique for a bi-monthly cycle where the weather in any given month was calculated to be ¼ of the actual weather (i.e., temperature, rainfall, etc.) for two months prior, ½ of the actual for the month immediately prior and ¼ of the current month. The actual, and lagged, temperature and rainfall dataset is shown in Exhibit 1, Schedule 3, Page 9. The lag, resulting from bi-monthly billing, is clearly evident on these graphs. Comparing the lagged actual weather conditions for the summer 2005 period versus the lagged normalized conditions shows that in the first three months of the summer period (May, June and July) weather conditions were generally cooler and wetter than normal, as indicated by the bolding in the table below. In August and September the temperature was at or above normal, but

### **Actual vs. Normalized Weather Conditions Summer 2005**

<b>PARAMETER</b>	<b>MAY</b>	<b>JUN</b>	<b>JUL</b>	<b>AUG</b>	<b>SEP</b>
Temperature (Degrees)	0.2	<b>-0.6</b>	<b>-0.6</b>	1.3	1.6
Rainfall (Inches)	<b>0.58</b>	<b>1.31</b>	<b>0.71</b>	-0.08	-0.18
Days with Precipitation	<b>0</b>	<b>3</b>	<b>2</b>	-1	-1
Cooling Degrees Days	<b>-8</b>	<b>-28</b>	<b>-11</b>	47	46

rainfall totals were very close to the norm, which for these two months were only 0.32 and 0.27 inches respectively. Based on these conditions the weather adjustment was expected to be positive, as indeed it was. The total weather normalizing adjustment as shown in Exhibit 1, Schedule 3, Page 8 of 37, amounts to 431,426 CCF, or, 4.2% higher than actual use. Total normalized peak/summer use in the base

year was therefore calculated to be 10,748,285 CCF versus actual use of 10,316,859 CCF.

To calculate the dollar value of the base/winter and peak/summer variances, total normalized use for the base year was then allocated to the months in the base year based on the long run average index of billings in the residential sector as shown in Exhibit 1, Schedule 3, Page 2 of 37. These calculations are summarized in Exhibit 1, Schedule 3, Page 10 of 37 in the column headed "Indexed Use".

The next step in the analysis was to derive the revenue impact of these variances. This was accomplished by pricing total actual use, versus the adjusted base year totals based on current rates. For these calculations an effective monthly rate was calculated assuming normal billing lags and the pro ration of bills that occur over the course of a year. The derivation of the *Effective Rates* is shown in Exhibit 1, Schedule 3, Page 11 of 37.

As shown in Exhibit 1, Schedule, Page 10 of 37 the trend and weather normalization adjustments were (47,011) CCF and 526,289 CCF respectively. The total adjustment in dollar terms as shown in Exhibit 1, Schedule 3, Page 12 of 37 amounted to \$621,353, with (\$51,299) being the trend adjustment during the winter/base period, and \$672,651 being the weather normalization adjustment during the peak/summer period.

TEST YEAR GROWTH ADJUSTMENTS: For the six months following the end of the base year (November 2005 through April 2006) the number of customers added to the system is projected to total 1,031. That is, growth in this six month period would be the same as experienced during the 6 month period immediately prior, which corresponds to the last 6 months of the base year. To account for the impact of this anticipated growth through April 2006, these customers were priced on a month by month basis. As shown in Exhibit 1, Schedule 3, Page 12 of 37 an adjustment of an additional \$94,902 was made to pro forma revenues to account for metered sales. Given United Water's bi-monthly billing cycle it would also be expected that the customers added to the system during the 6 month period from November 2005 through April 2006 would be billed 3 times on average (i.e.,  $\frac{1}{2}$  of

the 6 bills normally rendered to customers). These customers would therefore be expected to generate an additional 3,039 bills. It was assumed that the customers added to the system (and hence the bills generated) would be in proportion to the existing mix of customer by meter size as shown in Exhibit 12, Schedule 3, Page 13 of 37. As shown in Exhibit 1, Schedule 4, Page 10 of 11, these added bills would produce \$45,834 in new fixed service charges at current rates. Therefore the total test year adjustment for the residential sector amounts to \$140,736 (Exhibit 1, Schedule 1, Page 2 of 2, Column 4). Total adjusted test year revenue for the residential sector was thus evaluated to be \$21,193,830, or \$762,089 higher than booked.

**Commercial Sector Consumption Analysis:** During the late 1980's and early 1990's Micron Technology was United Water Idaho's largest single customer (Exhibit 1, Schedule 3, Page 14 of 37). Indeed, in 1989, and again in the 1994-1996 period, Micron accounted for over 3% of total water sales. Beginning in 1996 Micron Technologies embarked on a major efficiency and water reuse program, and has experienced a changed business environment, and as a result water sales to Micron have dropped precipitously. Micron no longer is the single largest user in the system. Indeed in the base year its demand was less than 20% of its peak demand of nearly 605,000 CCF in 1995-96. During the base year Micron consumption amounted to only 118,873 CCF. While Micron would seem to no longer require a separate analysis, in order to make comparisons between the prior case and the two prior cases, and leaving open the possibility that Micron's usage pattern may yet change again, it was decided to continue to back out Micron's use from the commercial sector's consumption history before the regression analysis proceeded. (The consumption for Micron was added back into the commercial sector, later in the analysis.)

The assessment of the commercial sector's consumption per customer for the winter period (defined as January through March), showed that a regression model of total monthly consumption per customer during versus time and the addition of South

County proved to be the best model (Exhibit 1, Schedule 3, Page 15 of 37 and graphically in Exhibit 1, Schedule 3, Page 16 of 37). While the overall trend in water use per customer is down, as shown in Exhibit 1, Schedule 3, Page 17 of 37, for the base year the analysis indicates an upward trend adjustment of 27,081 CCF.

For the summer period consumption per customer was regressed against the time, average monthly temperature, total rainfall, price, the addition of South County, and monthly pattern variables to account for seasonal economic activity for the months of May through December (Exhibit 1, Schedule 3, Page 18 of 37). The R-squared for this equation was just over 91.4%. The average annual variance was a little over 11,000 CCF, only 0.22% (Exhibit 1, Schedule 3, Page 19 of 37).

**NORMALIZING ADJUSTMENTS:** The next step in the analysis was to normalize metered sales revenues for the weather conditions during the base year. The commercial sector was also effected by the cooler and wetter weather conditions that prevailed during the summer of 2005, and hence an upwards normalizing adjustment of 215,285 CCF was made as shown in Exhibit 1, Schedule 3, 19 of 37.

Total adjusted base year consumption was therefore assessed to be 6,691,204 CCF versus actual consumption of 6,648,838 CCF (Exhibit 1, Schedule 3, Page 20 of 37). For the test year commercial consumption was projected to total 6,712,571 CCF. To enable a direct comparison to the pattern of use in the base year and test year, adjusted consumption totals were allocated by month using the same indexing technique used in the residential analysis as shown in Exhibit 1, Schedule 3, Page 10 of 37. At this point Micron was added back into the analysis. Given Micron's volatility, it was decided to assume that for the normalized base year and pro form year that the amount of use for Micron would be set at the same level as recorded during the base year, that is, 118,873 CCF. Total commercial sector water sales were therefore assessed to be 6,810,077 CCF for the normalized base year, and 6,831,444 CCF for the test year (Exhibit 1, Schedule 3, Page 21 of 37). In revenue terms these levels of use translate into a total base year adjustment of \$278,418; \$60,676 of

which was the trend adjustment and \$217,652 being the weather adjustment (Exhibit 1, Schedule 3, Page 22 of 37).

**GROWTH ADJUSTMENTS:** For the test year an additional \$256,653 in billed revenues are projected for the commercial sector. During the base year 84 new commercial customers were added to the system. An additional 52 are projected to be added by April 2006. Assuming these customers are billed 3 times on average over the six month period following the base year, an additional 157 bills would be rendered (Exhibit 1, Schedule 3, Page 13 of 37). It was also assumed that these additional customers would be added to the system in the same proportion with respect to the size of the meter as customers in the existing system. Additional fixed service charges therefore totaled \$3,962 (Exhibit 1, Schedule 4, Page 10 of 11).

Adjusted test year revenues for the commercial sector at prevailing rates were therefore evaluated to be \$9,182,222. (Exhibit 1, Schedule 1, Page 2 of 2).

***Public Sector Consumption Analysis:*** The analysis of the public sector paralleled the analysis of the residential and commercial sectors.

The winter period for the public sector was defined as January through April. To assess public use during the winter period a simple trend of the use per customer during the winter months was calculated (Exhibit 1, Schedule 3, Page 23 of 37). This yielded a 45 CCF trend adjustment for the base year (Exhibit 1, Schedule 3, Page 24 of 37).

For the summer period, a regression equation that incorporated the number of customers, total rainfall, and monthly pattern variables for the months of May through November, were included in the model (Exhibit 1, Schedule 3, Page 25 of 37). The R-squared for the public sector model was also quite good at 64%. The average normalized variance for the model was only 1%. Following the experience of the residential and commercial sectors the weather adjustment for the public sector was also positive at 16,216 CCF (Exhibit 1, Schedule 3, Page 26 of 37). The total adjustment to base year revenues as shown in Exhibit 1, Schedule 3, Page 27 of 37

were therefore \$19,259 (consisting of a \$49 trend adjustment, and a \$19,209 weather normalization adjustment).

No change in the number of public sector customers occurred during the base year, and no changes in the number of public customers, and hence customer service fees, are expected through April 2006. However, the underlying growth trends and weather normalization resulted in a billed water use adjustment of \$293, yielding total adjusted test year revenues of \$160,987 for the public sector (Exhibit 1, Schedule 1, Page 2 of 2).

## **P**PRIVATE FIRE PROTECTION SERVICES REVENUE

Private Fire Protection revenues at current rates collected during the base year based on the bill determinants totaled \$523,723 as shown in Exhibit 1, Schedule 3, Page 28 of 37. Pricing these bill determinants under the current rate schedule yields total revenues of \$557,819 (Exhibit 1, Schedule 3, Page 29 of 37). Due to growth in the number of private fire services during the year and anticipated through April 2006 an additional \$10,066 in revenues were added to the total to derive total private fire revenues of \$567,884 for the test year (Exhibit 1, Schedule 3, Page 30 of 37).

## **O**OTHER REVENUES

The Company receives revenues from a number of customer service related charges (including customer service fees, rents for construction meters, and bulk water sales) as shown in Exhibit 1, Schedule 1, Page 1 of 2. During the base year these revenues totaled \$144,082, or less than 0.50% of total revenues. In addition, \$173,650 in unbilled revenues was recorded on the books during the base year.

The first adjustment to other revenues was to eliminate unbilled revenues, since the analysis for the base year assumes that all fixed service charges and consumption for all customers were billed and collected.

Customer service fees for returned checks and reconnection fees totaled \$46,133 during the base year (Exhibit 1, Schedule 3, Page 31 of 37). The returned check fee was increased from \$15 per item to \$20 per item in August 2005. Assuming all returned checks during the base year were charged at the new tariff rate, an additional \$1,397 in customer service revenue would have been collected (Exhibit 1, Schedule 3, Page 32 of 37). Next, assuming that customers added to the system incur return check fees and request meter reconnections at the same rate as the existing customer base, another \$629 in customer service revenue are projected for the test year (Exhibit 1, Schedule 3, Page 33 of 37).

Rents for temporary construction meters totaled \$12,095 during the base year (Exhibit 1, Schedule 3, Page 34 of 37). The tariffed rate for this service was also increased in August of 2005; from \$20 to \$25. Assuming all rentals were billed at the \$25 rate rentals would have totaled \$14,775 in the base year. No adjustment was made for the test year since the level of construction activity is expected to be about the same as during the base year.

Bulk water sales through hydrants generated \$85,856 in revenue during the base year (Exhibit 1, Schedule 3, Page 35 of 37). These services are billed under the general metered sales rate structure for United Water Idaho (i.e., a fixed charge based on meter size, and then commodity charges based on usage). United Water rates were increased during the base year. Pricing the bulk hydrant sales bill determinant for the base year under the current rate structure would have generated an additional \$5,010 in revenue.

Other Revenues for the test year as adjusted total \$159,428 (Exhibit 1, Schedule 1, Page 2 of 2).

## **ADJUSTMENTS DUE TO RATE CHANGES**

United Water Idaho tariffed rates were increased twice during the base year. Once under IPUC Order 29838, on August 2, 2005, and next under IPUC Order No. 29871, on September 28, 2005. In order to evaluate the total revenues that would be generated for the test year, the bill determinants, as adjusted, for metered sales, fire protection and other revenues were priced at the rates currently in effect, that is those that were effective as per Order No. 29871.

Total adjusted pro forma metered sales revenue as billed as shown in Exhibit 1, Schedule 1, Page 2 of 2, Column 5 were \$30,537,038. Metered water sales for the test year priced at current rates total \$32,331,682, that is, pricing the bill determinants for the test year as adjusted yielded an additional \$1,794,644 in revenue as shown in Exhibit 1, Schedule 4 page 10 of 11. Fire protection revenue for the test year are projected to be \$44,695 higher if these services are billed at current rates (Exhibit 1, Schedule 3, Page 30 of 37), for a total of \$567,884. And, in the Other Revenue category, pricing the anticipated bulk rate sales at current rates yields an additional \$9,087 in revenue (Exhibit 1, Schedule 3, Page 35 of 37), boosting Other Revenues to a total of \$159,428.

In total, therefore, test year revenues for United Water Idaho for this rate proceeding amounts to \$33,059,527 as shown in Exhibit 1, Schedule 1, Page 2 of 2, Column 7.

## **REVENUE SUMMARY & PROPOSED RATE SCHEDULE**

The base year in this case has been established as November 1, 2004 through October 31, 2005. Total pro forma revenues for United Water Idaho for the test year (May 31, 2005 through April 30, 2006) after considering anticipated growth through April 2006, were assessed at \$33,059,527 (Exhibit 1, Schedule 1, Page 2 of 2). Based on this filing the Company is asking for an increase in revenues of \$5,921,690, for a total revenue requirement of \$38,981,217, or an overall increase of 17.91%. The

Company proposes to increase rates to meet its revenue requirements on an across the board basis.

In order to generate the revenue requirement tariff rates for metered water use and private fire protection services would have to be increased by 17.95% (this is slightly higher than the overall increase to compensate for the categories of other revenues—Customer Service Fees and Construction Meter Rentals—that will not be affected by the tariff change.) The derivation of the proposed rate schedule is shown in Exhibit 1, Schedule 3, Page of 36 of 37. The rate proof for the residential, commercial and public sectors for the United Water Idaho service area is shown in Exhibit 1, Schedule 4, Page 11 of 11. And finally, the proof of fire rates is shown in Exhibit 1, Schedule 3, Page 37 of 37. Total revenues generated by the proposed tariffs are \$38,980,844, \$373 less than the revenue requirement. (It was not possible to reduce the difference to a lesser number due to rounding fixed services charges to the nearest penny.) The proposed tariff schedule is included as Exhibit 2, Schedule 2 of the filing.

# UNITED WATER IDAHO

## Relative Water Price for Typical Customer

EFFECTIVE DATE OF TARIFF	Minimum for First 1,000 CF	All Water Use Over 100 CF	MARGINAL CUSTOMER PRICE *	ESTIMATED CUSTOMER PRICE **
January 7, 1983	\$ 15.68	\$ 0.5096	\$ 67	\$ 67
January 2, 1986	\$ 17.41	\$ 0.5658	\$ 74	\$ 74
August 15, 1987	\$ 16.71	\$ 0.5430	\$ 71	\$ 71
November 9, 1990	\$ 16.71	\$ 0.6380	\$ 81	\$ 81
August 13, 1994	\$ 16.71	\$ 0.8370	\$ 184	\$ 184
<b>Fixed Service Charge for 3/4" Meter</b>				
			<b>Summer Rate first 3CCF</b>	<b>Summer Rate per 100 CF Over 3 CCF</b>
July 25, 1994	\$ 12.00	\$ 0.8090	\$ 214	\$ 214
October 28, 1996	\$ 12.43	\$ 0.8383	\$ 222	\$ 180
January 6, 1998	\$ 13.51	\$ 0.9113	\$ 241	\$ 241
September 5, 2000	\$ 14.57	\$ 0.9825	\$ 260	\$ 260
August 2, 2005	\$ 14.60	\$ 1.0865	\$ 286	\$ 286
September 28, 2005	\$ 14.60	\$ 1.0912	\$ 287	\$ 260

**NOTE:** Prices based on a customer with 3/4" meter and assuming 200 CCF of water use

\* Marginal price assumes all water priced at highest rate; i.e., the highest price a customer would see during a year  
 For rate structures with Minimum price = Minimum + Rate \* 100  
 For Summer/Winter rate structure price = Fixed + Summer Rate \* 200

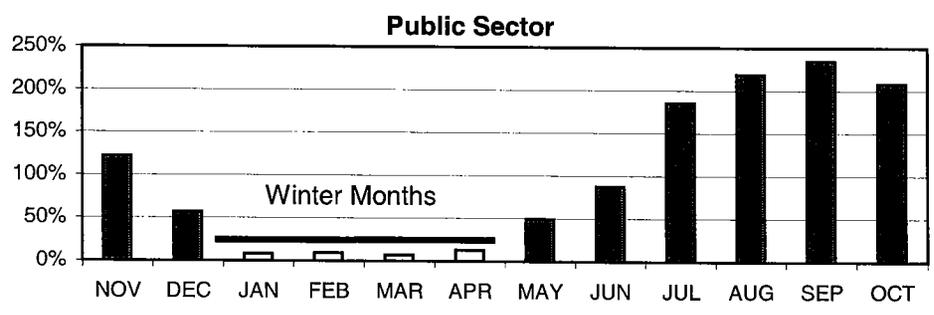
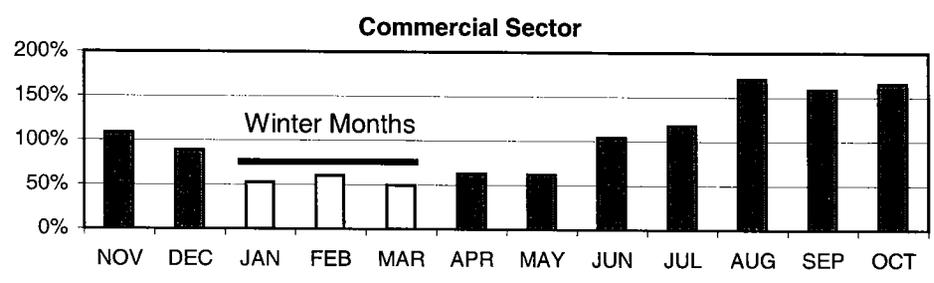
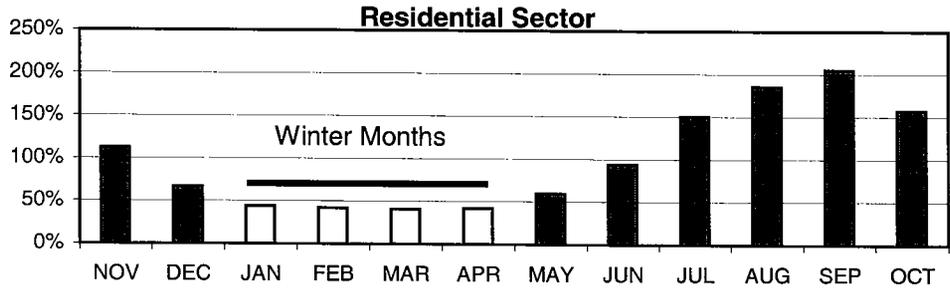
\*\* Estimated price assumes pro ration of price for summer and winter periods based on 1/2 month convention  
 For rate structure with Minimum price = Minimum + Rate \* 100  
 For Summer/Winter rate structure price = Fixed + Summer Rate \* 83 + Winter Rate \* 117

RECEIVED  
 JUL 15 1994  
 IDAHO WATER UTILITIES COMMISSION  
 JULY 10 PM 2:19

# UNITED WATER IDAHO

## Index of Use by Month

BOLD = SEASONAL MONTHS	Residential Sector	Commercial Sector	Public Sector
November	<b>112%</b>	<b>108%</b>	<b>122%</b>
December	<b>66%</b>	<b>89%</b>	<b>57%</b>
January	44%	53%	8%
February	42%	60%	9%
March	41%	50%	7%
April	42%	<b>63%</b>	13%
May	<b>60%</b>	<b>62%</b>	<b>49%</b>
June	<b>94%</b>	<b>104%</b>	<b>88%</b>
July	<b>150%</b>	<b>118%</b>	<b>185%</b>
August	<b>185%</b>	<b>170%</b>	<b>219%</b>
September	<b>205%</b>	<b>159%</b>	<b>234%</b>
October	<b>157%</b>	<b>165%</b>	<b>208%</b>



# UNITED WATER IDAHO

## Residential Sector Customer Count

November to October	Customer Count	Change in Customers	Significant Events
86-87	37,168	704	
87-88	37,918	799	
88-89	38,156	(24)	<Multi-family to Commercial
89-90	39,134	1,429	
90-91	40,530	1,293	
91-92	41,940	1,528	
92-93	43,355	1,377	
93-94	44,950	1,758	
94-95	46,376	1,091	
95-96	47,437	1,042	
96-97	49,015	2,018	<Addition of Garden City +
97-98	50,463	953	
98-99	55,140	5,551	<Addition of South County +
99-00	58,583	3,216	
00-01	60,668	1,758	
01-02	62,217	1,173	
02-03	63,644	1,981	
03-04	65,709	2,116	
04-05	67,886	2,278	
Thru 4/06	<b>68,899</b>	<b>1,013</b>	

# UNITED WATER IDAHO

## Residential Sector: Winter Use Regression Analysis

SUMMARY OUTPUT	
Regression Statistics	
Multiple R	52.00%
R Square	27.04%
Adjusted R Square	24.16%
Standard Error	0.77
Observations	80

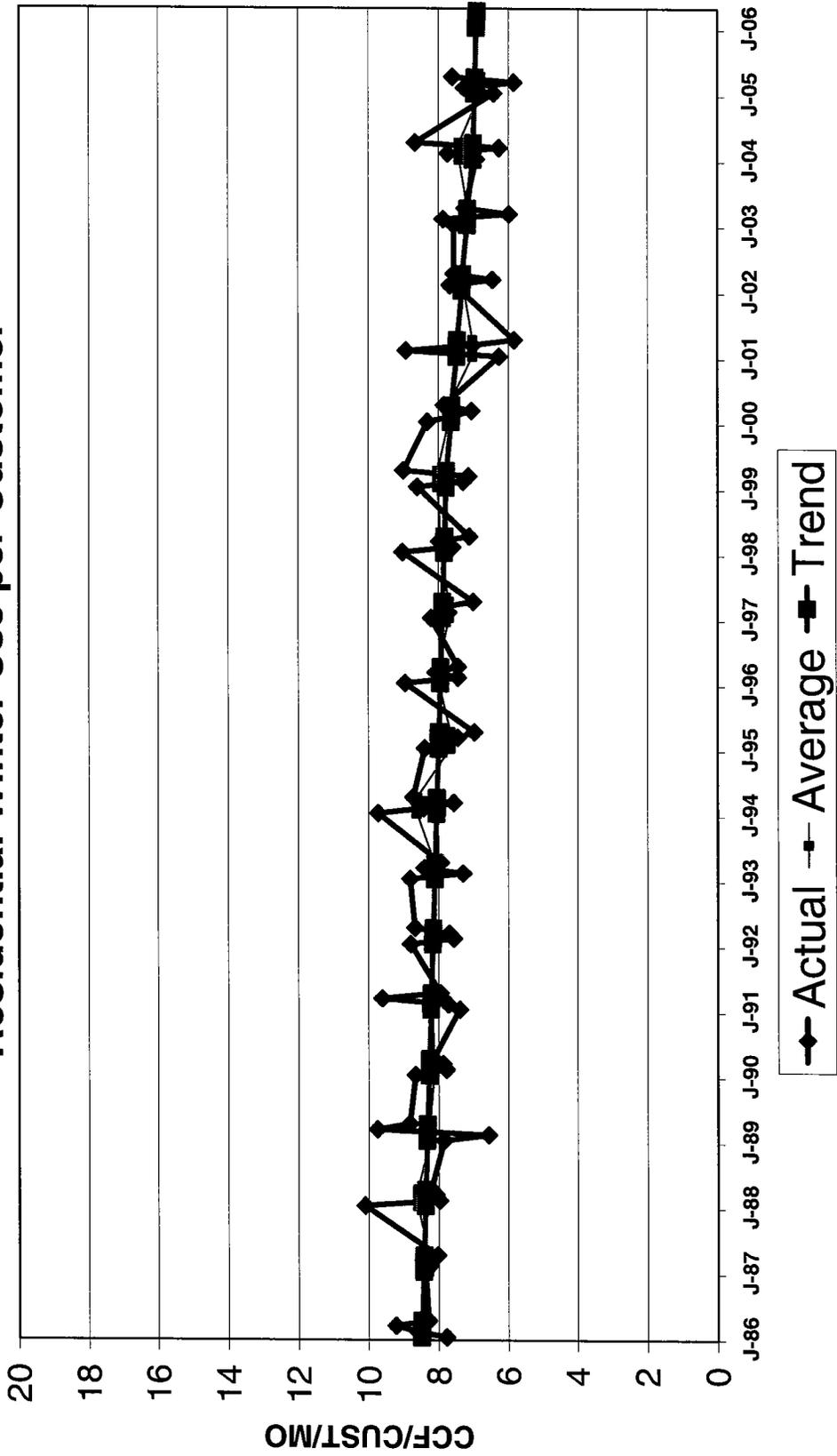
  

ANOVA					
	df	SS	MS	F	Significance F
Regression	3.00	16.61	5.54	9.39	0.00
Residual	76.00	44.84	0.59		
Total	79.00	61.45			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
<b>Constant</b>	13.12045	5.07	2.59	0.01	3.02	23.22
<b>Time</b>	-0.00015	0.00	-0.91	0.37	0.00	0.00
<b>Price</b>	-0.00001	0.00	0.00	1.00	-0.01	0.01
<b>So. County</b>	-0.49106	0.45	-1.10	0.27	-1.38	0.40

# Residential Winter Use per Customer



# UNITED WATER IDAHO

## Residential Winter Water Use

Jan to Apr in a Nov- Oct Base Year in CCF	Actual Winter Use	Actual Winter Use per Customer	Regression Estimate of Winter Use per Customer	Regression Estimate of Winter Use	Difference Actual vs. Regression Estimate	Percent Difference Actual vs. Regression Estimate
86	1,226,795	33.9	33.9	1,227,502	708	0.06%
87	1,220,960	33.1	33.7	1,243,088	22,129	1.81%
88	1,292,162	34.3	33.5	1,259,615	-32,547	-2.52%
89	1,252,034	33.0	33.3	1,263,864	11,829	0.94%
90	1,258,753	32.5	33.1	1,281,917	23,164	1.84%
91	1,315,048	32.7	32.8	1,322,042	6,994	0.53%
92	1,361,409	32.7	32.6	1,356,783	-4,626	-0.34%
93	1,396,327	32.4	32.4	1,395,124	-1,203	-0.09%
94	1,534,547	34.4	32.2	1,434,921	-99,626	-6.49%
95	1,410,792	30.6	32.0	1,474,173	63,380	4.49%
96	1,504,738	31.9	31.8	1,497,804	-6,935	-0.46%
97	1,491,633	30.8	31.5	1,528,739	37,106	2.49%
98	1,594,286	31.7	31.3	1,574,045	-20,241	-1.27%
99	1,776,903	32.1	31.1	1,723,959	-52,944	-2.98%
00	1,795,188	30.8	30.5	1,777,088	-18,100	-1.01%
01	1,693,637	28.1	29.9	1,804,320	110,683	6.54%
02	1,801,779	29.1	29.3	1,815,888	14,108	0.78%
03	1,810,030	28.7	28.7	1,811,447	1,417	0.08%
04	1,934,831	29.6	28.1	1,834,403	-100,428	-5.19%
05	1,829,627	27.1	27.9	1,877,478	47,851	2.62%
<b>AVERAGE</b>	<b>1,525,074</b>	<b>31.5</b>	<b>31.5</b>	<b>1,525,210</b>	<b>136</b>	<b>0.01%</b>

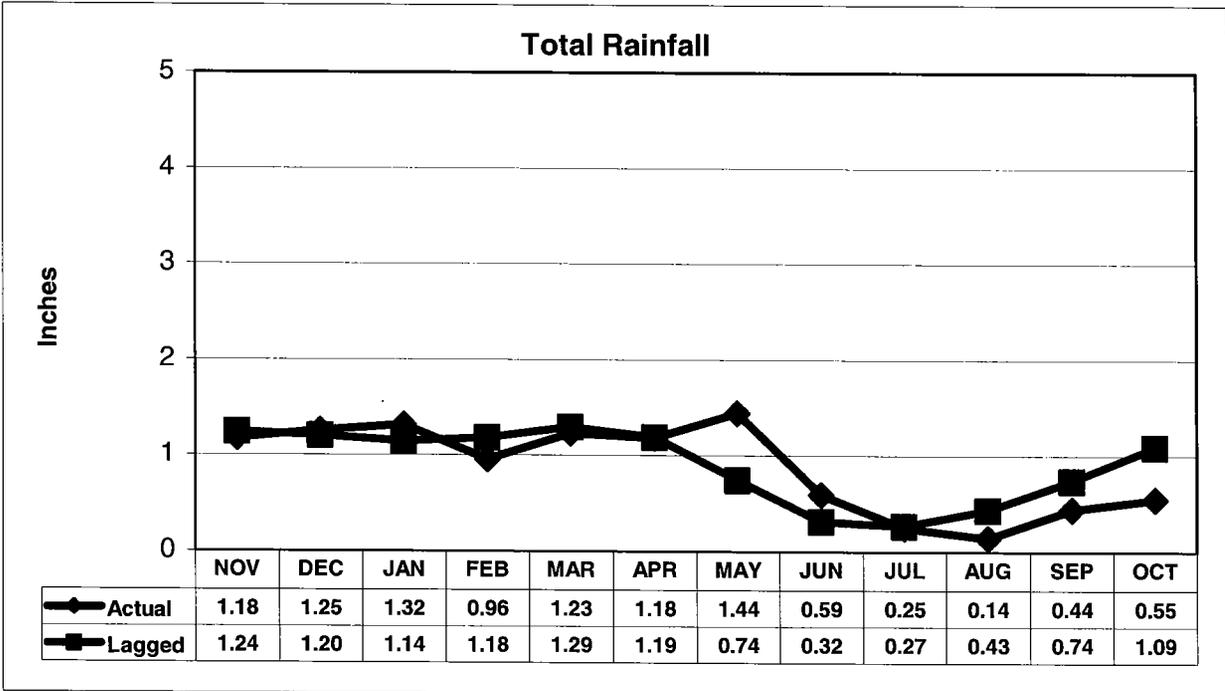
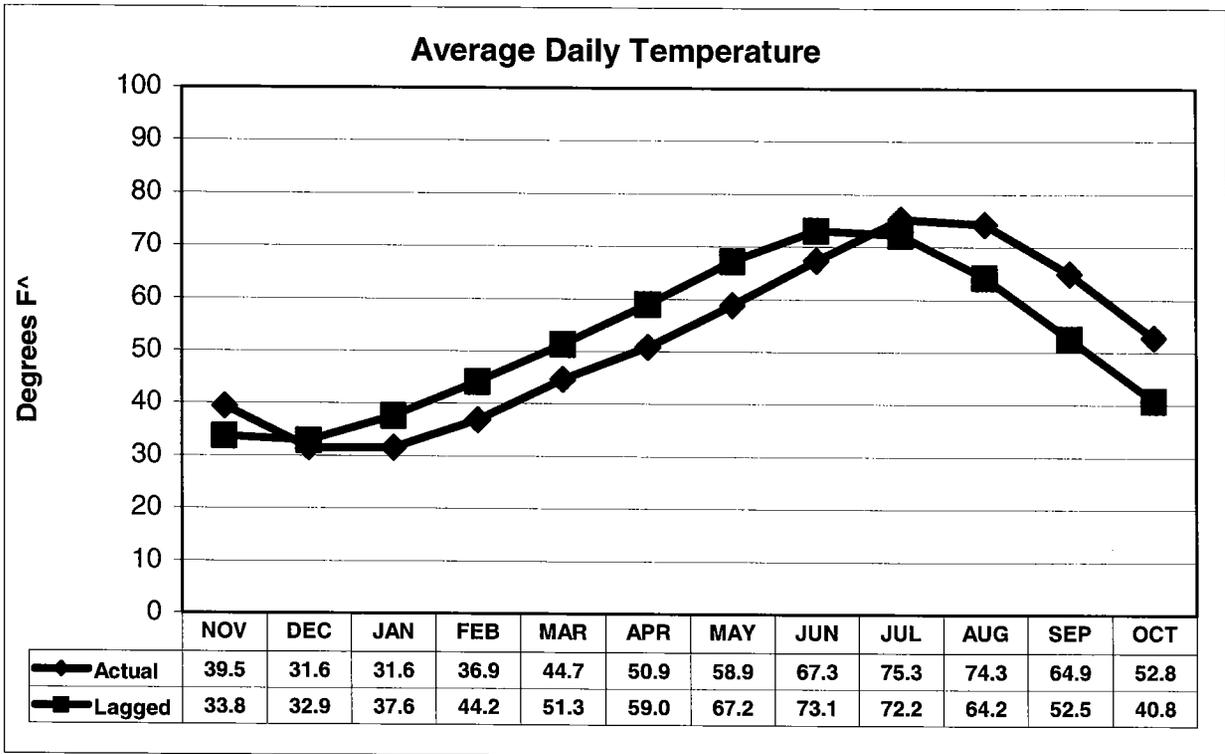
# UNITED WATER IDAHO

## Residential Sector: Summer Use Regression Analysis

SUMMARY OUTPUT						
<i>Regression Statistics</i>						
Multiple R	95.82%					
R Square	91.82%					
Adjusted R Square	91.21%					
Standard Error	3.01					
Observations	159					
<i>ANOVA</i>						
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>	
Regression	11.00	14,945.62	1,358.69	150.08	0.00	
Residual	147.00	1,330.80	9.05			
Total	158.00	16,276.42				
	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
<b>Constant</b>	3.27102	5.46	0.60	0.55	-7.52	14.06
<b>Price</b>	-0.01402	0.00	-3.85	0.00	-0.02	-0.01
<b>So County</b>	-3.28817	0.89	-3.70	0.00	-5.04	-1.53
<b>Avg Temp</b>	0.35280	0.13	2.76	0.01	0.10	0.61
<b>Rainfall</b>	-3.23806	0.59	-5.48	0.00	-4.41	-2.07
<b>May</b>	-3.01239	1.69	-1.78	0.08	-6.35	0.33
<b>Jun</b>	0.24499	2.54	0.10	0.92	-4.76	5.25
<b>Jul</b>	6.39894	3.44	1.86	0.06	-0.39	13.19
<b>Aug</b>	9.12229	4.09	2.23	0.03	1.05	17.20
<b>Sep</b>	13.18324	3.98	3.31	0.00	5.32	21.05
<b>Oct</b>	7.41690	3.04	2.44	0.02	1.41	13.43
<b>Nov</b>	4.40028	1.73	2.54	0.01	0.97	7.83

## UNITED WATER IDAHO Residential Summer Water Use

May to Dec in a Nov-Oct Base Year in CCF	Actual Summer Use		Regression Estimate of Summer Use per Customer	Difference Actual vs. Regression Estimate		Percent Difference Actual vs. Regression Estimate	Normalized Regression Estimate of Summer Use per Customer	Difference Actual vs. Normalized Regression Estimate		Percent Difference Actual vs. Normalized Regression Estimate
	Actual Summer Use per Customer	Actual Summer Use		Regression Estimate of Summer Use	Regression Estimate of Summer Use			Normalized Regression Estimate of Summer Use	Normalized Regression Estimate of Summer Use	
86-87	7,748,902	207.1	210.3	7,863,678	114,776	1.46%	205.6	7,687,279	-61,623	-0.80%
87-88	8,524,312	223.4	210.6	8,036,965	-487,347	-6.06%	205.8	7,855,121	-669,191	-7.85%
88-89	7,941,671	207.6	205.1	7,843,073	-98,599	-1.26%	205.8	7,875,268	-66,403	-0.84%
89-90	7,402,357	187.5	196.8	7,761,642	359,285	4.63%	205.8	8,117,174	714,817	9.66%
90-91	7,744,820	189.8	202.8	8,272,063	527,243	6.37%	204.7	8,350,215	605,396	7.82%
91-92	8,922,455	211.3	209.1	8,834,814	-87,641	-0.99%	204.7	8,651,996	-270,459	-3.03%
92-93	7,777,089	178.2	186.4	8,134,964	357,875	4.40%	201.8	8,806,516	1,029,427	13.24%
93-94	9,362,462	206.6	201.5	9,129,040	-233,422	-2.56%	191.9	8,692,099	-670,362	-7.16%
94-95	8,460,811	181.6	177.4	8,272,455	-188,355	-2.28%	189.8	8,846,419	385,608	4.56%
95-96	8,922,375	187.1	186.4	8,891,186	-31,189	-0.35%	189.7	9,047,507	125,132	1.40%
96-97	8,958,198	181.1	183.3	9,073,809	115,611	1.27%	188.9	9,346,172	387,974	4.33%
97-98	8,628,645	170.3	177.7	9,003,783	375,138	4.17%	187.8	9,514,040	885,395	10.26%
98-99	10,994,176	198.2	190.9	10,583,224	-410,953	-3.88%	186.7	10,357,531	-636,645	-5.79%
99-00	11,427,861	193.7	192.9	11,371,748	-56,113	-0.49%	182.2	10,749,749	-678,112	-5.93%
00-01	10,583,103	173.4	181.1	11,049,229	466,126	4.22%	175.4	10,696,122	113,019	1.07%
01-02	11,245,376	180.1	184.0	11,485,556	240,180	2.09%	170.1	10,620,575	-624,800	-5.56%
02-03	10,947,056	170.8	178.4	11,435,256	488,200	4.27%	164.9	10,569,120	-377,936	-3.45%
03-04	11,015,225	166.8	172.3	11,379,755	364,530	3.20%	159.6	10,549,063	-466,162	-4.23%
04-05	10,316,859	150.9	158.8	10,858,526	541,667	4.99%	157.2	10,748,285	431,426	4.18%
<b>AVERAGE</b>	<b>9,311,776</b>	<b>187.7</b>	<b>189.8</b>	<b>9,435,830</b>	<b>124,053</b>	<b>1.33%</b>	<b>188.3</b>	<b>9,320,013</b>	<b>8,237</b>	<b>0.09%</b>



# UNITED WATER IDAHO

## Residential Sector Use by Month

IN CCF	Actual Base Year Use	NORMALIZED BASE YEAR		TEST YEAR	
		Normalized Use	Indexed Use	Normalized Use	Indexed Use
11.04	1,085,563	1,129,030	1,181,599		
12.04	695,277	481,819	699,047		
1.05	431,841	467,818	463,995		
2.05	489,120	468,695	443,464		
3.05	394,540	469,997	431,792		
4.05	514,126	470,969	443,365		
5.05	548,884	492,238	627,290	492,238	631,024
6.05	813,494	924,644	990,364	924,644	996,260
7.05	1,208,374	1,645,633	1,580,262	1,645,633	1,589,670
8.05	1,994,528	2,049,579	1,950,472	2,049,579	1,962,084
9.05	2,226,826	2,325,123	2,158,003	2,325,123	2,170,850
10.05	1,743,912	1,700,220	1,656,111	1,700,220	1,665,970
11.05				1,139,948	1,188,633
12.05				471,857	703,209
1.06				486,524	466,757
2.06				487,447	446,104
3.06				488,399	434,362
4.06				489,318	446,004
<b>WINTER</b>	<b>1,829,627</b>	<b>1,877,478</b>	<b>1,782,615</b>	<b>1,951,688</b>	<b>1,793,228</b>
<b>SUMMER</b>	<b>10,316,859</b>	<b>10,748,285</b>	<b>10,843,148</b>	<b>10,749,242</b>	<b>10,907,701</b>
<b>TOTAL</b>	<b>12,146,486</b>	<b>12,625,763</b>	<b>12,625,763</b>	<b>12,700,929</b>	<b>12,700,929</b>
<b>CHANGE: BASE</b>		<b>vs. NORMALIZED YEAR</b>		<b>vs. TEST YEAR</b>	
WINTER			-47,011		-36,399
SUMMER			526,289		590,842
TOTAL					

# UNITED WATER IDAHO

## Calculation of Effective Rate

Month	Actual Rate	Effective Rate *
JAN	\$1.0912	1.0912
FEB	\$1.0912	1.0912
MAR	\$1.0912	1.0912
APR	\$1.0912	1.0912
MAY	\$1.3641	1.1594
JUN	\$1.3641	1.2959
JUL	\$1.3641	1.3641
AUG	\$1.3641	1.3641
SEP	\$1.3641	1.3641
OCT	\$1.0912	1.2959
NOV	\$1.0912	1.1594
DEC	\$1.0912	1.0912

NOTE: \*  $\text{RATE in MO} = \text{RATE in MO-2/4} + \text{RATE in MO-1/2} + \text{RATE in MO/4}$





# UNITED WATER IDAHO

## Micron Technology's Water Sales

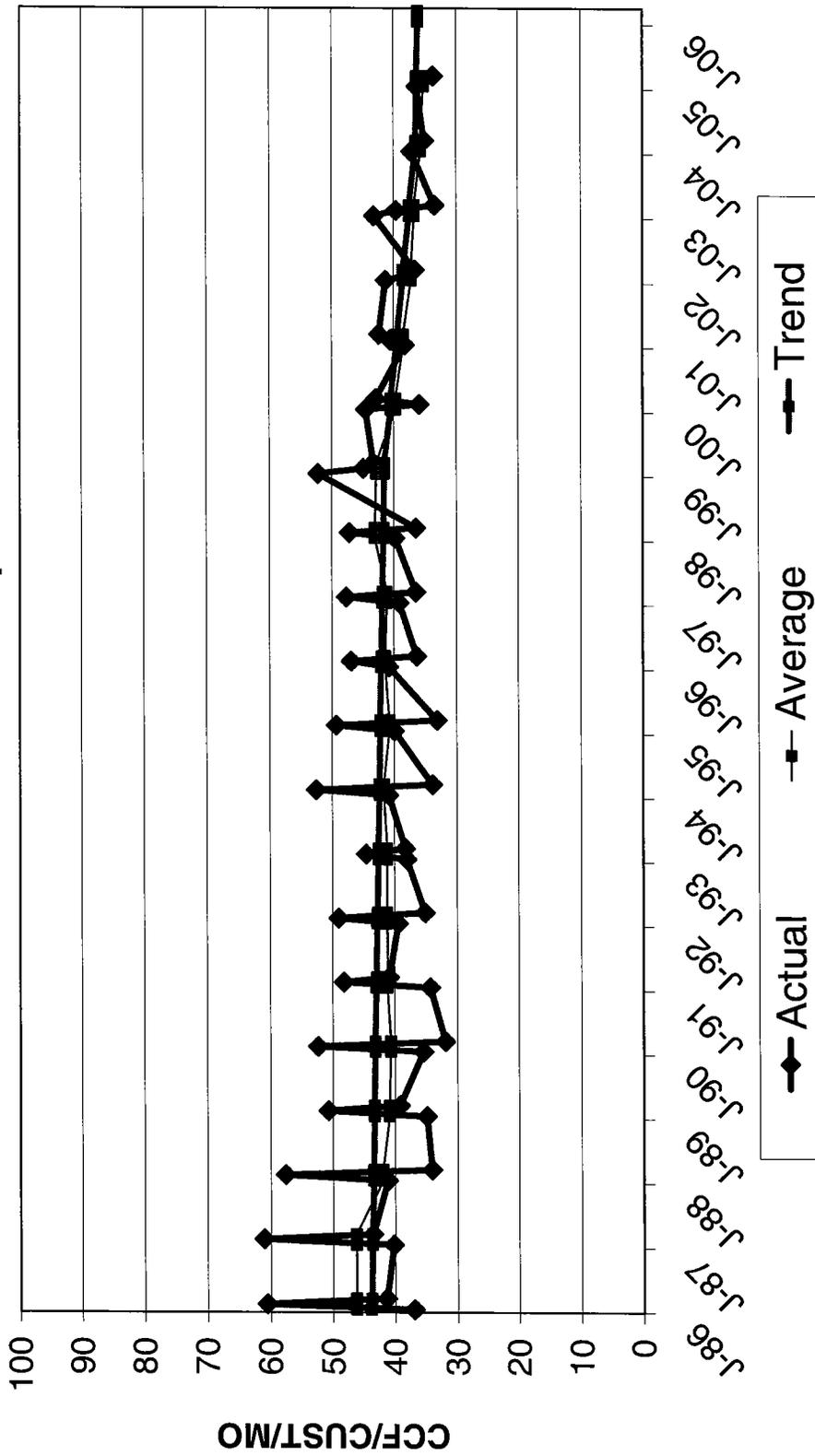
Period from November to October	Water Sales to Micron in CCF
<b>86-87</b>	62,770
<b>87-88</b>	187,552
<b>88-89</b>	278,669
<b>89-90</b>	459,817
<b>90-91</b>	354,951
<b>91-92</b>	146,196
<b>92-93</b>	76,674
<b>93-94</b>	149,279
<b>94-95</b>	329,952
<b>95-96</b>	<b>602,975</b>
<b>96-97</b>	587,362
<b>97-98</b>	379,138
<b>98-99</b>	296,477
<b>99-10</b>	349,378
<b>00-01</b>	408,678
<b>01-02</b>	195,278
<b>02-03</b>	143,377
<b>03-04</b>	90,660
<b>04-05</b>	<b>BASE YEAR &gt;</b> 118,873

# UNITED WATER IDAHO

## Commercial Sector: Winter Use Regression Analysis

SUMMARY OUTPUT						
<b>Regression Statistics</b>						
Multiple R	34.5%					
R Square	11.9%					
Adjusted R Square	8.8%					
Standard Error	6.45					
Observations	60					
<b>ANOVA</b>						
	df	SS	MS	F	Significance F	
Regression	2.00	319.60	159.80	3.85	0.03	
Residual	57.00	2,368.50	41.55			
Total	59.00	2,688.10				
<b>Coefficients</b>						
<b>Constant</b>	58.7391	21.31	2.76	0.01	16.07	101.40
<b>Time</b>	-0.0005	0.00	-0.76	0.45	0.00	0.00
<b>So Cnty</b>	-4.1664	3.81	-1.09	0.28	-11.79	3.46

### Commercial Sector: Winter Use per Customer



# UNITED WATER IDAHO

## Commercial Winter Water Use

Jan to Mar in a Nov-Oct Base Year in CCF	Actual Winter Use	Actual Winter Use per Customer	Regression Estimate of Winter Use per Customer	Regression Estimate of Winter Use	Difference Actual vs. Regression Estimate	Percent Difference Actual vs. Regression Estimate
<b>86</b>	512,919	46.2	43.8	486,516	-26,403	-5.15%
<b>87</b>	554,852	48.2	43.6	502,473	-52,379	-9.44%
<b>88</b>	543,389	44.2	43.4	532,928	-10,461	-1.93%
<b>89</b>	582,563	41.5	43.3	604,862	22,299	3.83%
<b>90</b>	638,041	39.8	43.1	690,536	52,495	8.23%
<b>91</b>	686,222	41.1	42.9	717,547	31,325	4.56%
<b>92</b>	698,287	41.1	42.7	725,845	27,558	3.95%
<b>93</b>	702,727	40.2	42.6	743,800	41,073	5.84%
<b>94</b>	781,008	42.4	42.4	780,204	-804	-0.10%
<b>95</b>	782,731	40.8	42.2	810,880	28,149	3.60%
<b>96</b>	812,340	41.4	42.1	826,009	13,669	1.68%
<b>97</b>	826,600	41.1	41.9	842,574	15,973	1.93%
<b>98</b>	835,228	41.1	41.7	846,675	11,447	1.37%
<b>99</b>	1,013,245	46.8	41.5	898,936	-114,310	-11.28%
<b>00</b>	905,906	41.1	40.5	892,746	-13,160	-1.45%
<b>01</b>	895,155	40.4	39.5	875,938	-19,217	-2.15%
<b>02</b>	874,060	38.6	38.5	872,227	-1,832	-0.21%
<b>03</b>	917,328	38.8	37.5	887,834	-29,494	-3.22%
<b>04</b>	857,621	36.1	36.5	867,140	9,519	1.11%
<b>05</b>	850,499	35.2	36.3	877,579	27,081	3.18%
<b>AVERAGE</b>	<b>763,536</b>	<b>41.3</b>	<b>41.3</b>	<b>764,163</b>	<b>626</b>	<b>0.08%</b>

# UNITED WATER IDAHO

## Commercial Sector: Summer Use Regression Analysis

SUMMARY OUTPUT						
<i>Regression Statistics</i>						
Multiple R	95.61%					
R Square	91.42%					
Adjusted R Square	90.61%					
Standard Error	9.02					
Observations	152					
ANOVA						
	df	SS	MS	F	Significance F	
Regression	13.00	119,471	9,190	113	0.00	
Residual	138.00	11,217	81			
Total	151.00	130,688				
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
<b>Constant</b>	38.8779	58.58	0.66	0.51	-76.94	154.70
<b>SO CNTY</b>	-3.5013	4.68	-0.75	0.46	-12.76	5.76
<b>PRICE</b>	-0.0018	0.03	-0.05	0.96	-0.07	0.07
<b>TEMP</b>	0.2389	0.11	2.13	0.03	0.02	0.46
<b>RAIN</b>	-0.3549	1.07	-0.33	0.74	-2.46	1.75
<b>TIME</b>	-0.0001	0.00	-0.04	0.96	0.00	0.00
<b>MAY</b>	-2.7099	3.29	-0.82	0.41	-9.22	3.80
<b>JUNE</b>	24.3470	3.57	6.82	0.00	17.29	31.40
<b>JULY</b>	33.0890	4.12	8.03	0.00	24.95	41.23
<b>AUGUST</b>	69.1021	4.12	16.79	0.00	60.97	77.24
<b>SEPTEMBER</b>	64.3874	3.70	17.39	0.00	57.07	71.71
<b>OCTOBER</b>	69.5491	3.28	21.20	0.00	63.06	76.03
<b>NOVEMBER</b>	32.3743	3.33	9.73	0.00	25.79	38.95
<b>DECEMBER</b>	17.5215	3.70	4.74	0.00	10.21	24.84

# UNITED WATER IDAHO

## Commercial Summer Water Use

Apr to Dec in a Nov-Oct Base Year in CCF	Actual Summer Use	Regression Estimate of Summer Use			Difference Actual vs. Regression Estimate			Percent Difference Actual vs. Regression Estimate		
		Regression Estimate of Summer Use	Difference Actual vs. Regression Estimate	Percent Difference Actual vs. Regression Estimate	Normalized Regression Estimate	Difference Actual vs. Normalized Regression Estimate	Percent Difference Actual vs. Normalized Regression Estimate			
<b>88-89</b>	3,985,088	3,882,820	-102,268	-2.63%	3,899,761	-85,328	-2.14%			
<b>89-90</b>	4,124,674	4,191,670	66,996	1.60%	4,203,215	78,542	1.90%			
<b>90-91</b>	4,367,313	4,100,368	-266,945	-6.51%	4,254,906	-112,407	-2.57%			
<b>91-92</b>	4,659,673	4,525,251	-134,422	-2.97%	4,423,314	-236,358	-5.07%			
<b>92-93</b>	4,169,586	4,513,869	344,283	7.63%	4,573,110	403,524	9.68%			
<b>93-94</b>	4,880,644	4,802,535	-78,109	-1.63%	4,807,414	-73,230	-1.50%			
<b>94-95</b>	4,728,226	4,925,404	197,178	4.00%	4,982,172	253,946	5.37%			
<b>95-96</b>	4,953,365	5,081,853	128,489	2.53%	5,100,867	147,502	2.98%			
<b>96-97</b>	4,968,277	5,141,974	173,697	3.38%	5,154,329	186,052	3.74%			
<b>97-98</b>	5,136,696	5,237,006	100,310	1.92%	5,250,348	113,652	2.21%			
<b>98-99</b>	5,821,785	5,512,073	-309,712	-5.62%	5,529,630	-292,155	-5.02%			
<b>99-00</b>	5,923,795	5,622,423	-301,373	-5.36%	5,614,454	-309,341	-5.22%			
<b>00-01</b>	5,765,238	5,619,575	-145,664	-2.59%	5,628,953	-136,285	-2.36%			
<b>01-02</b>	5,738,749	5,684,882	-53,866	-0.95%	5,687,572	-51,177	-0.89%			
<b>02-03</b>	5,596,885	5,763,447	166,562	2.89%	5,734,884	137,999	2.47%			
<b>03-04</b>	5,914,834	5,738,148	-176,686	-3.08%	5,737,396	-177,438	-3.00%			
<b>04-05</b>	5,598,340	5,800,363	202,023	3.48%	5,813,625	215,285	3.85%			
<b>AVERAGE</b>	<b>5,078,422</b>	<b>5,067,274</b>	<b>-11,147</b>	<b>-0.22%</b>	<b>5,082,115</b>	<b>3,693</b>	<b>0.07%</b>			

# UNITED WATER IDAHO

## Commercial Sector Use by Month

	BASE YEAR				NORMALIZED BASE YEAR				TEST YEAR			
	Actual Base Year Use per Books in CCF	Actual Base Year Use for Micron in CCF	Total Base Year Use less Micron in CCF	Normalized Base Year Use in CCF	Indexed Base Year Use in CCF	Base Year Use for Micron in CCF	Total Base Year with Micron in CCF	Test Year Use in CCF	Indexed Test Year Use in CCF	Test Year Use for Micron in CCF	Total Test Year Use in CCF	
11.04	562,817	0	562,817	616,695	604,056	0	604,056					
12.04	443,996	14,120	429,876	475,354	494,454	14,120	508,574					
1.05	292,525	0	292,525	292,517	293,303	0	293,303					
2.05	304,959	18,491	286,469	292,462	336,089	18,491	354,580					
3.05	271,505	0	271,505	292,500	276,795	0	276,795					
4.05	329,492	14,275	315,216	338,912	350,056	14,275	364,331					
5.05	380,936	0	380,936	330,921	344,863	0	344,863					
6.05	502,206	15,128	487,078	565,862	579,047	15,128	594,175					
7.05	597,743	0	597,743	655,943	656,090	0	656,090					
8.05	974,105	30,124	943,981	961,530	950,284	30,124	980,408					
9.05	996,633	0	996,633	921,219	884,989	0	884,989					
10.05	910,793	26,734	884,059	947,189	921,179	26,734	947,913					
11.05												
12.05												
1.06												
2.06												
3.06												
4.06												
<b>WINTER USE</b>	<b>868,989</b>	<b>18,491</b>	<b>850,499</b>	<b>877,579</b>	<b>906,187</b>	<b>18,491</b>	<b>924,677</b>	<b>885,464</b>	<b>909,080</b>	<b>18,491</b>	<b>927,571</b>	
<b>SUMMER USE</b>	<b>5,698,722</b>	<b>100,382</b>	<b>5,598,340</b>	<b>5,813,625</b>	<b>5,785,017</b>	<b>100,382</b>	<b>5,885,400</b>	<b>5,827,107</b>	<b>5,803,491</b>	<b>100,382</b>	<b>5,903,873</b>	
<b>TOTAL USE</b>	<b>6,567,711</b>	<b>118,873</b>	<b>6,448,838</b>	<b>6,691,204</b>	<b>6,691,204</b>	<b>118,873</b>	<b>6,810,077</b>	<b>6,712,571</b>	<b>6,712,571</b>	<b>118,873</b>	<b>6,831,444</b>	

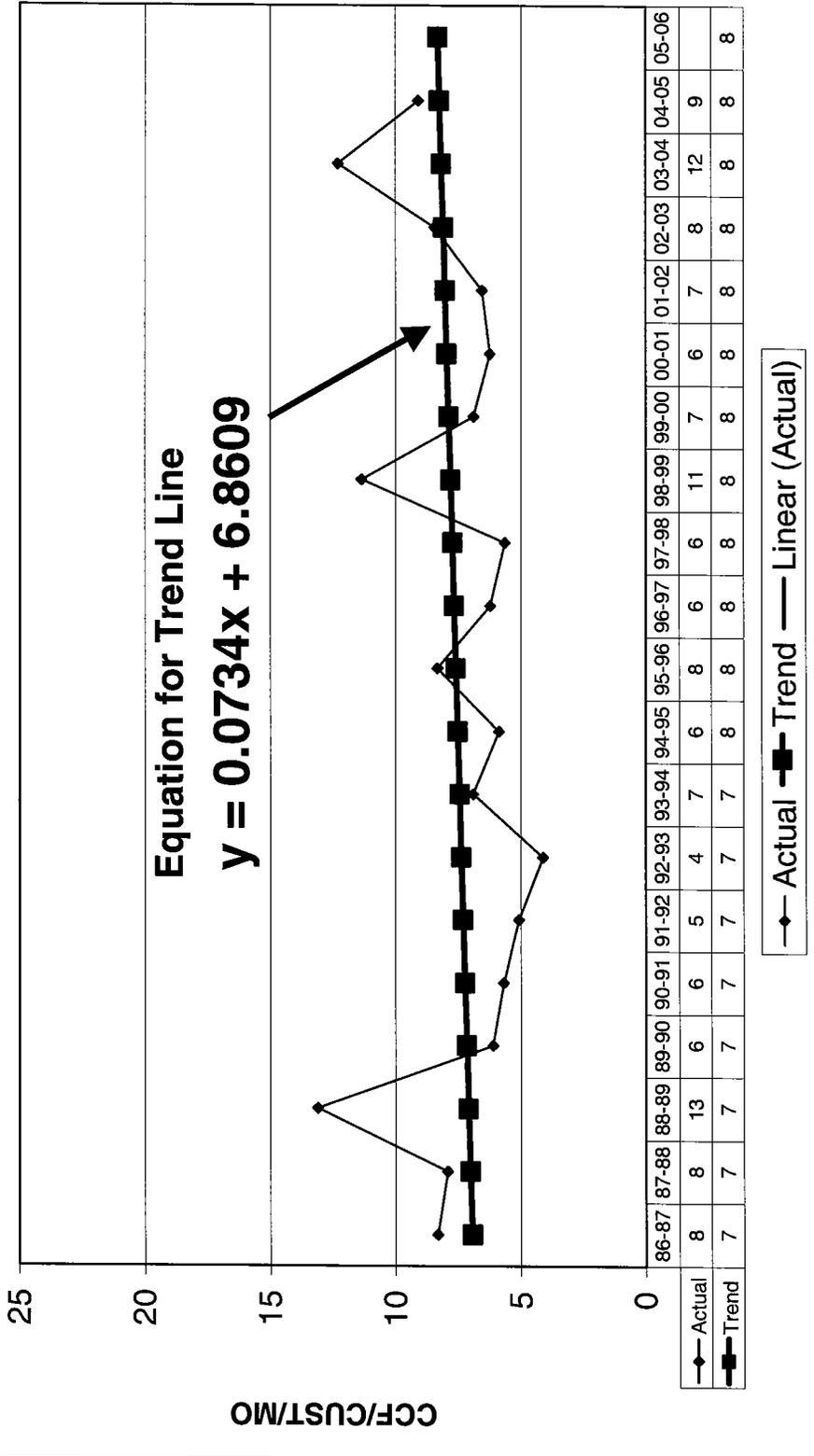
# UNITED WATER IDAHO

## Commercial Sector Use

IN CCF	Actual Base Year Use	NORMALIZED BASE YEAR		TEST YEAR	
		Normalized Use	Indexed Use	Normalized Use	Indexed Use
11.04	562,817	616,695	604,056		
12.04	443,996	489,474	508,574		
1.05	292,525	292,617	293,303		
2.05	304,959	310,953	354,580		
3.05	271,505	292,500	276,795		
4.05	329,492	353,187	364,331		
5.05	380,936	330,921	344,863	330,921	345,964
6.05	502,206	580,990	594,175	580,990	596,024
7.05	597,743	655,943	656,090	655,943	658,185
8.05	974,105	991,654	980,408	991,654	983,443
9.05	996,633	921,219	884,989	921,219	887,815
10.05	910,793	973,923	947,913	973,923	950,855
11.05				622,648	605,985
12.05				492,313	510,153
1.06				295,054	294,239
2.06				313,569	355,653
3.06				295,331	277,679
4.06				357,878	365,449
<b>WINTER USE</b>	<b>868,989</b>	<b>896,070</b>	<b>924,677</b>	<b>903,955</b>	<b>927,571</b>
<b>SUMMER USE</b>	<b>5,698,722</b>	<b>5,914,007</b>	<b>5,885,400</b>	<b>5,927,489</b>	<b>5,903,873</b>
<b>TOTAL USE</b>	<b>6,567,711</b>	<b>6,810,077</b>	<b>6,810,077</b>	<b>6,831,444</b>	<b>6,831,444</b>
<b>CHANGE: BASE</b>		<b>vs. NORMALIZED YEAR</b>		<b>vs. TEST YEAR</b>	
WINTER			55,688		58,582
SUMMER			186,678		205,151
TOTAL			242,366		263,733



# Public Winter Use per Customer



# UNITED WATER IDAHO

## Public Sector Use

IN CCF	Actual Base Year Use	NORMALIZED BASE YEAR		TEST YEAR	
		Normalized Use	Indexed Use	Normalized Use	Indexed Use
11.04	11,670	12,414	12,414		
12.04	2,712	5,732	5,732		
1.05	1,055	1,025	1,025		
2.05	733	1,025	1,025		
3.05	1,242	1,025	1,025		
4.05	1,484	1,025	1,025		
5.05	5,511	5,588	5,588	5,588	5,588
6.05	4,423	9,352	9,352	9,352	9,352
7.05	17,640	18,785	18,785	18,785	18,785
8.05	14,932	20,227	20,227	20,227	20,227
9.05	30,544	21,984	21,984	21,984	21,984
10.05	9,937	19,502	19,502	19,502	19,502
11.05				12,340	12,340
12.05				5,658	5,658
1.06				1,034	1,034
2.06				1,034	1,034
3.06				1,034	1,034
4.06				1,034	1,034
<b>WINTER USE</b>	<b>3,030</b>	<b>3,075</b>	<b>3,075</b>	<b>3,103</b>	<b>3,103</b>
<b>SUMMER USE</b>	<b>98,852</b>	<b>114,609</b>	<b>114,609</b>	<b>114,470</b>	<b>114,470</b>
<b>TOTAL USE</b>	<b>101,882</b>	<b>117,684</b>	<b>117,684</b>	<b>117,572</b>	<b>117,572</b>
<b>CHANGE: BASE</b>		<b>vs.NORMALIZED YEAR</b>		<b>vs.TEST YEAR</b>	
WINTER			45		72
SUMMER			15,757		15,618
TOTAL					15,690

# UNITED WATER IDAHO

## Public Sector: Summer Water Use Regression Analysis

SUMMARY OUTPUT						
Regression Statistics						
Multiple R	80.0%					
R Square	64.0%					
Adjusted R Square	61.2%					
Standard Error	5,224					
Observations	127					
ANOVA						
	df	SS	MS	F	Significance F	
Regression	9	5,670,463,898	630,051,544	23	0	
Residual	117	3,192,630,964	27,287,444			
Total	126	8,863,094,862				
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
<b>CONSTANT</b>	831.247	5,150	0.16	0.87	-9,368	11,031
<b>CUSTOMERS</b>	73.950	40	1.85	0.07	-5	153
<b>RAIN</b>	-3980.720	1,158	-3.44	0.00	-6,273	-1,688
<b>MAY</b>	729.774	1,893	0.39	0.70	-3,020	4,479
<b>JUN</b>	4075.483	1,898	2.15	0.03	316	7,835
<b>JUL</b>	11733.296	1,899	6.18	0.00	7,973	15,494
<b>AUG</b>	11480.430	2,065	5.56	0.00	7,390	15,570
<b>SEP</b>	13039.843	2,119	6.15	0.00	8,842	17,237
<b>OCT</b>	11214.967	2,036	5.51	0.00	7,183	15,247
<b>NOV</b>	5275.570	1,921	2.75	0.01	1,471	9,080

# UNITED WATER IDAHO

## Public Summer Water Use

Jan to Apr in a Nov-Oct Base Year in CCF	Actual Summer Use	Regression Estimate of Summer Use		Difference Actual vs. Regression Estimate		Percent Difference Actual vs. Regression Estimate	
		Regression Estimate of Summer Use	Difference Actual vs. Regression Estimate	Regression Estimate	Percent Difference Actual vs. Regression Estimate	Normalized Regression Estimate	Difference Actual vs. Normalized Estimate
<b>90-91</b>	77,563	83,649	6,086	7.28%	95,244	17,681	22.80%
<b>91-92</b>	89,904	99,807	9,904	9.92%	97,758	7,855	8.74%
<b>92-93</b>	111,474	103,052	-8,422	-8.17%	99,829	-11,645	-10.45%
<b>93-94</b>	93,094	92,802	-292	-0.31%	100,864	7,770	8.35%
<b>94-95</b>	110,484	111,665	1,181	1.06%	101,456	-9,028	-8.17%
<b>95-96</b>	99,536	95,064	-4,471	-4.70%	101,604	2,068	2.08%
<b>96-97</b>	102,710	100,002	-2,708	-2.71%	102,491	-219	-0.21%
<b>97-98</b>	101,910	94,416	-7,494	-7.94%	102,787	877	0.86%
<b>98-99</b>	78,546	89,163	10,618	11.91%	103,674	25,129	31.99%
<b>99-00</b>	126,880	120,955	-5,924	-4.90%	113,731	-13,148	-10.36%
<b>00-01</b>	122,144	123,896	1,752	1.41%	117,429	-4,715	-3.86%
<b>01-02</b>	112,978	117,231	4,253	3.63%	114,027	1,049	0.93%
<b>02-03</b>	141,212	123,250	-17,962	-14.57%	114,175	-27,037	-19.15%
<b>03-04</b>	113,014	118,145	5,131	4.34%	114,175	1,161	1.03%
<b>04-05</b>	111,060	115,260	4,200	3.64%	114,027	2,967	2.67%
<b>05-06</b>	97,368	104,775	7,407	7.07%	113,584	16,216	16.65%
<b>AVERAGE</b>	<b>105,617</b>	<b>105,821</b>	<b>204</b>	<b>0.19%</b>	<b>106,678</b>	<b>1,061</b>	<b>1.00%</b>



**UNITED WATER IDAHO**  
**Private Fire Protection Revenue in Base Year as Billed**

Service Size / Type	Bi-Monthly Rates	Number of Services	Bills Rendered	Revenue
<b>PRIVATE FIRE SERVICE LINES</b>				
3"	\$ 23.66	266	1,346	\$ 31,836
	\$ 25.48		206	\$ 5,245
4"	\$ 25.56	400	48	\$ 1,215
	\$ 35.86		1,999	\$ 71,667
	\$ 38.62		307	\$ 11,847
6"	\$ 38.74	456	93	\$ 3,619
	\$ 89.06		2,270	\$ 202,210
	\$ 95.90		343	\$ 32,890
8"	\$ 96.24	122	114	\$ 10,977
	\$ 146.34		598	\$ 87,548
	\$ 157.58		96	\$ 15,154
10"	\$ 158.12	11	38	\$ 6,080
	\$ 228.22		56	\$ 12,815
	\$ 245.76		9	\$ 2,198
12"	\$ 246.60	5	3	\$ 689
	\$ 341.86		26	\$ 8,818
	\$ 368.14		3	\$ 1,235
	\$ 369.38		1	\$ 207
<b>TOTAL</b>		<b>1,260</b>	<b>7,556</b>	<b>\$ 506,249</b>
<b>PRIVATE HYDRANTS</b>				
Hydrants	\$ 14.32	170	849	\$ 12,156
	\$ 15.42		129	\$ 1,996
	\$ 15.48		41	\$ 637
<b>TOTAL</b>		<b>170</b>	<b>1,019</b>	<b>\$ 14,789</b>
<b>OTHER</b>		<b>Annual Rate</b>		
Ada County Highway *	\$ 2,150.75	1		\$ 2,151
<b>TOTAL FIRE SERVICES</b>		<b>1,431</b>	<b>8,575</b>	<b>\$ 523,189</b>
			<b>BILL ANALYSIS</b>	<b>\$ 523,725</b>
			<b>DIFFERENCE</b>	<b>(\$ 536)</b>
			<b>BOOKS</b>	<b>\$ 527,417</b>
			<b>DIFFERENCE</b>	<b>(\$ 4,228)</b>
NOTE: * Access to hydrants for street cleaning by Ada County DPW				

**UNITED WATER IDAHO**  
**Private Fire Protection Revenue in Base Year at Current Rates**

Service Size / Type	Bi-Monthly Rates	Number of Services	Bills Rendered	Revenue
<b>PRIVATE FIRE SERVICE LINES</b>				
3"	\$ 25.56	266	1,599	\$ 40,868
4"	\$ 38.74	400	2,399	\$ 92,925
6"	\$ 96.24	456	2,728	\$ 262,497
8"	\$ 158.12	122	733	\$ 115,881
10"	\$ 246.60	11	68	\$ 16,742
12"	\$ 369.38	5	30	\$ 10,974
<b>TOTAL</b>		<b>1,260</b>	<b>7,556</b>	<b>\$ 539,886</b>
<b>PRIVATE HYDRANTS</b>				
Hydrants	\$ 15.48	170	1,019	\$ 15,782
<b>TOTAL</b>		<b>170</b>	<b>1,019</b>	<b>\$ 15,782</b>
<b>OTHER</b>		<b>Annual Rate</b>		
Ada County Highway *	\$ 2,150.75	1		\$ 2,151
<b>TOTAL FIRE SERVICES</b>		<b>1,431</b>	<b>8,575</b>	<b>\$ 557,819</b>
<b>REVENUE AT PREVAILING RATES</b>				<b>\$ 523,189</b>
<b>INCREASE</b>				<b>\$ 34,630</b>

**UNITED WATER IDAHO**  
**Private Fire Protection Revenue for the Test Year**

Service Size / Type	Bi-Monthly Rates	Number of Services	Bills Rendered	Revenue
<b>PRIVATE FIRE SERVICE LINES</b>				
3"	\$ 25.56	271	1,629	\$ 41,635
4"	\$ 38.74	407	2,441	\$ 94,552
6"	\$ 96.24	466	2,788	\$ 268,271
8"	\$ 158.12	124	745	\$ 117,779
10"	\$ 246.60	11	68	\$ 16,742
12"	\$ 369.38	5	30	\$ 10,974
<b>TOTAL</b>		<b>1,284</b>	<b>7,700</b>	<b>\$ 549,952</b>
<b>PRIVATE HYDRANTS</b>				
Hydrants	\$ 15.48	170	1,019	\$ 15,782
<b>TOTAL</b>		<b>170</b>	<b>1,019</b>	<b>\$ 15,782</b>
<b>OTHER</b>				
	Annual Rate			
Ada County Highway *	\$ 2,150.75	1		\$ 2,151
<b>TOTAL FIRE SERVICES</b>		<b>1,455</b>	<b>8,719</b>	<b>\$ 567,884</b>
<b>REVENUE AT PREVAILING RATES</b>				<b>\$ 557,819</b>
<b>INCREASE</b>				<b>\$ 10,066</b>

**UNITED WATER IDAHO**  
**Customer Service Fees in Base Year as Billed**

<b>Returned Checks</b>						
	<b>Under Prior Tariff</b>		<b>Under Current Tariff</b>		<b>Total Checks</b>	<b>Total Revenue</b>
	<b>Number of Checks</b>	<b>Revenue @ \$15 per Check</b>	<b>Number of Checks</b>	<b>Revenue @ \$20 per Check</b>		
Nov-04	32	\$480	0	\$0	32	\$480
Dec-04	51	\$765	0	\$0	51	\$765
Jan-05	40	\$600	0	\$0	40	\$600
Feb-05	28	\$420	0	\$0	28	\$420
Mar-05	32	\$480	0	\$0	32	\$480
Apr-05	27	\$405	0	\$0	27	\$405
May-05	32	\$480	0	\$0	32	\$480
Jun-05	28	\$420	0	\$0	28	\$420
Jul-05	19	\$285	0	\$0	19	\$285
Aug-05	10	\$150	26	\$520	36	\$696
Sep-05	0	\$0	38	\$760	38	\$798
Oct-05	0	\$0	34	\$680	34	\$714
<b>TOTAL</b>	<b>299</b>	<b>\$4,485</b>	<b>98</b>	<b>\$1,960</b>	<b>397</b>	<b>\$6,543</b>
<b>Reconnections</b>						
	<b>Reconnections</b>		<b>Field Visits</b>			
	<b>Number of Incidents</b>	<b>Fee Revenue</b>	<b>Number of Incidents</b>	<b>Fee Revenue</b>		
<b>TOTAL</b>	<b>1360</b>	<b>\$31,520</b>	<b>538</b>	<b>\$8,070</b>	<b>\$39,590</b>	
<b>TOTAL BASE YEAR REVENUE AS PER BILL DETERMINANTS \$46,133</b> <b>TOTAL BASE YEAR REVENUE AS PER BOOKS \$46,131</b> <b>DIFFERENCE \$2</b>						

# UNITED WATER IDAHO

## Customer Service Fees in Base Year Under Current Rates

<b>Returned Checks</b>			
	Under Current Tariff		Total Revenue
	Number of Checks	Revenue @ \$20 per Check	
Nov-04	32	\$640	\$640
Dec-04	51	\$1,020	\$1,020
Jan-05	40	\$800	\$800
Feb-05	28	\$560	\$560
Mar-05	32	\$640	\$640
Apr-05	27	\$540	\$540
May-05	32	\$640	\$640
Jun-05	28	\$560	\$560
Jul-05	19	\$380	\$380
Aug-05	36	\$720	\$720
Sep-05	38	\$760	\$760
Oct-05	34	\$680	\$680
<b>TOTAL</b>	<b>397</b>	<b>\$7,940</b>	<b>\$7,940</b>

<b>Reconnections</b>			
	Reconnections		Field Visits
	Number of Incidents	Fee Revenue	
<b>TOTAL</b>	<b>1360</b>	<b>\$31,520</b>	<b>538</b> Number of Incidents Fee Revenue <b>\$8,070</b>

	<b>TOTAL BASE YEAR REVENUE AT CURRENT RATES</b> \$47,530 <b>TOTAL BASE YEAR REVENUE AS BILLED</b> \$46,133 <b>INCREASE</b> \$1,397
--	--

**UNITED WATER IDAHO**  
**Customer Service Fees in Test Year**

<b>Returned Checks</b>			
	<b>Under Current Tariff</b>		<b>Total Revenue</b>
	Number of Checks	Revenue @ \$15 per Check	
May-05	32	\$640	\$640
Jun-05	28	\$560	\$560
Jul-05	19	\$380	\$380
Aug-05	36	\$720	\$720
Sep-05	38	\$760	\$760
Oct-05	34	\$680	\$680
Nov-05	35	\$700	\$700
Dec-05	35	\$700	\$700
Jan-06	35	\$700	\$700
Feb-06	36	\$720	\$720
Mar-06	36	\$720	\$720
Apr-06	36	\$720	\$720
<b>TOTAL</b>	<b>400</b>	<b>\$8,000</b>	<b>\$8,000</b>

<b>Reconnections</b>			
	<b>Reconnections</b>	<b>Field Visits</b>	
	Number of Incidents	Number of Incidents	Fee Revenue
<b>TOTAL</b>	<b>1,380</b>	<b>545</b>	<b>\$8,175</b>

	<b>\$40,159</b>
<b>TOTAL BASE YEAR REVENUE AT CURRENT RATES</b>	<b>\$48,159</b>
<b>TOTAL TEST YEAR REVENUE AT CURRENT RATES INCREASE</b>	<b>\$47,530</b>
	<b>\$629</b>

# UNITED WATER IDAHO

## Construction Meter Rentals

Date	Monthly Rentals	PREVAILING RATES		CURRENT RATES
		\$20 Permits	\$25 Permits	\$25 per Permit
November-04	60	60	0	60
December-04	38	38	0	38
January-05	53	53	0	53
February-05	36	36	0	36
March-05	40	40	0	40
April-05	48	48	0	48
May-05	43	43	0	43
June-05	54	54	0	54
July-05	44	44	0	44
August-05	55	55	0	55
September-05	56	56	0	56
October-05	64	9	55	64
<b>Total Rentals</b>	<b>591</b>	<b>536</b>	<b>55</b>	<b>591</b>
<b>Tariffed Rates</b>		\$ 20.00	\$ 25.00	\$ 25.00
<b>Subtotal Revenue</b>		\$ 10,720	\$ 1,375	\$ 14,775
<b>Total Rental Charge</b>			<b>\$ 12,095</b>	<b>\$ 14,775</b>
		BOOK REVENUE	\$ 12,095	
		DIFFERENCE	\$ 0	
<b>TOTAL REVENUE DURING BASE YEAR</b>				<b>\$ 12,095</b>
<b>ANNUALIZED INCREASE DUE TO TARIFF CHANGES IN BASE YEAR</b>				<b>\$ 2,680</b>

# UNITED WATER IDAHO

## Bulk Hydrant Meter Sales

MONTH	CUSTOMER CHARGES			COMMODITY CHARGES			
	3/4" Rental	3" Rental	Total CCFs	Summer CCFs	Summer Revenue	Winter CCFs	Winter Revenue
November-04	13	47	3,554	0	\$ 0	3,554	\$ 3,492
December-04	15	23	581	0	\$ 0	581	\$ 571
January-05	13	40	1,931	0	\$ 0	1,931	\$ 1,897
February-05	16	20	1,748	0	\$ 0	1,748	\$ 1,718
March-05	13	27	1,392	0	\$ 0	1,392	\$ 1,368
April-05	17	31	2,039	0	\$ 0	2,039	\$ 2,003
May-05	8	35	2,863	430	\$ 528	1,906	\$ 1,872
June-05	14	40	4,685	1,923	\$ 2,361	400	\$ 393
July-05	8	36	8,036	3,607	\$ 4,429	0	\$ 0
August-05	15	40	14,228	6,386	\$ 7,842	0	\$ 0
September-05	15	41	18,380	8,249	\$ 10,131	0	\$ 0
October-05	14	50	15,184	6,004	\$ 7,373	1,808	\$ 1,776
<b>TOTALS</b>	<b>161</b>	<b>430</b>	<b>74,621</b>	<b>26,598</b>	<b>\$ 32,665</b>	<b>15,358</b>	<b>\$ 15,089</b>
<b>PRIOR RATE</b>	<b>\$ 14.57</b>	<b>\$ 82.49</b>		<b>\$ 1.2281</b>			
<b>SUBTOTAL REVENUE</b>	<b>\$ 2,346</b>	<b>\$ 35,471</b>			<b>\$ 32,665</b>		<b>\$ 14,825</b>
<b>TOTAL REVENUE</b>		<b>\$ 37,816</b>					<b>\$ 47,754</b>
<b>GRAND TOTAL BASE YEAR REVENUE AS BILLED \$ 85,571</b>							
<b>BASE YEAR REVENUE AS PER BOOKS \$ 85,856</b>							
<b>DIFFERENCE (\$ 286)</b>							
<b>PREVAILING RATE</b>	<b>\$ 14.60</b>	<b>\$ 82.50</b>			<b>\$ 1.3641</b>		<b>\$ 1.0912</b>
<b>SUBTOTAL REVENUE</b>	<b>\$ 2,351</b>	<b>\$ 35,475</b>			<b>\$ 36,282</b>		<b>\$ 16,758</b>
<b>TOTAL REVENUE</b>		<b>\$ 37,826</b>					<b>\$ 53,041</b>
<b>GRAND TOTAL BASE YEAR REVENUE AT CURRENT RATES \$ 90,867</b>							
<b>INCREASE IN REVENUE DUE TO RATE CHANGE DURING BASE YEAR \$ 5,010</b>							
<b>PROPOSED RATE</b>	<b>\$ 17.22</b>	<b>\$ 97.32</b>			<b>\$ 1.6090</b>		<b>\$ 1.2872</b>
<b>SUBTOTAL REVENUE</b>	<b>\$ 2,772</b>	<b>\$ 41,848</b>			<b>\$ 42,796</b>		<b>\$ 19,769</b>
<b>TOTAL REVENUE</b>		<b>\$ 44,620</b>					<b>\$ 62,565</b>
<b>GRAND TOTAL TEST YEAR REVENUE AT PROPOSED RATES \$ 107,185</b>							
<b>INCREASE IN REVENUE DUE TO PROPOSED RATE CHANGE \$ 16,318</b>							

# UNITED WATER IDAHO

## Existing & Final Tariffs

	EXISTING CHARGE	UNROUNDED CHARGE	PROPOSED CHARGE	PERCENT CHANGE
<b>METERED SERVICE TARIFFS</b>				
<b>Fixed Service Charges</b>				
METER SIZE	Bi-Monthly		Bi-Monthly	
5/8"	\$ 14.60	17.22289	\$ 17.22	17.95%
3/4"	\$ 14.60	17.22289	\$ 17.22	17.95%
1"	\$ 19.20	22.64928	\$ 22.65	17.97%
1 1/4"	\$ 31.10	36.68712	\$ 36.69	17.97%
1 1/2"	\$ 31.10	36.68712	\$ 36.69	17.97%
2"	\$ 44.90	52.96629	\$ 52.97	17.97%
3"	\$ 82.50	97.32113	\$ 97.32	17.96%
4"	\$ 131.30	154.88805	\$ 154.89	17.97%
6"	\$ 252.70	298.09756	\$ 298.10	17.97%
8"	\$ 381.20	449.68258	\$ 449.68	17.96%
10"	\$ 532.90	628.63549	\$ 628.64	17.97%
Flat Rate Service	\$ 58.40	62.05800	\$ 62.06	6.27%
<b>Commodity Rates (CCF)</b>				
WINTER PERIOD	\$1.0912	1.2872341	\$1.2872	17.96%
SUMMER PERIOD <CCF	\$1.0912		\$1.2872	
SUMMER PERIOD >CCF	\$1.3641	1.6090426	\$1.6090	17.95%
<b>Commodity Rates (KG)</b>				
WINTER PERIOD	\$1.4587	1.7207815	\$1.7208	17.97%
SUMMER PERIOD <CCF	\$1.4587		\$1.7208	
SUMMER PERIOD >CCF	\$1.8235	2.1509769	\$2.1510	17.96%
<b>PRIVATE FIRE PROTECTION TARIFFS</b>				
<b>Fixed Service Charges</b>				
METER SIZE	Monthly		Monthly	
3"	\$ 12.78	15.07593	\$ 15.07	17.92%
4"	\$ 19.37	22.84982	\$ 22.85	17.97%
6"	\$ 48.12	56.76476	\$ 56.76	17.96%
8"	\$ 79.06	93.26313	\$ 93.26	17.96%
10"	\$ 123.30	145.45085	\$ 145.45	17.96%
12"	\$ 184.69	217.86956	\$ 217.87	17.97%
Private Hydrant	\$ 7.74	9.13049	\$ 9.13	17.96%
Sprinkler Rate	\$ 193.66	228.45102	\$ 228.45	17.96%

**UNITED WATER IDAHO**  
**Private Fire Protection Revenue at Proposed Rates**

Service Size / Type	Bi-Monthly Rates	Number of Services	Bills Rendered	Revenue
<b>PRIVATE FIRE SERVICE LINES</b>				
3"	\$ 30.14	271	1,629	\$ 49,095
4"	\$ 45.70	407	2,441	\$ 111,539
6"	\$ 113.52	466	2,788	\$ 316,439
8"	\$ 186.52	124	745	\$ 138,933
10"	\$ 290.90	11	68	\$ 19,750
12"	\$ 435.74	5	30	\$ 12,945
<b>TOTAL</b>		<b>1,284</b>	<b>7,700</b>	<b>\$ 648,701</b>
<b>PRIVATE HYDRANTS</b>				
Hydrants	\$ 18.26	170	1,019	\$ 18,616
<b>TOTAL</b>		<b>170</b>	<b>1,019</b>	<b>\$ 18,616</b>
<b>OTHER</b>		<b>Annual Rate</b>		
Ada County Highway *	\$ 2,741.40	1		\$ 2,741
<b>TOTAL FIRE SERVICES</b>		<b>1,455</b>	<b>8,719</b>	<b>\$ 670,058</b>
<b>REVENUE AT PROPOSED RATES</b>				<b>\$ 567,884</b>
<b>INCREASE</b>				<b>\$ 102,174</b>

# UNITED WATER IDAHO

## Bill Analysis for Base Year Priced at Prevailing Rates

RECEIVED  
SEP 10 2 19

MAIN SYSTEM (Water 18)	RESIDENTIAL		COMMERCIAL		PUBLIC AUTHORITY		TOTAL ALL SECTORS	
	Bills Rendered	Fixed Revenue	Bills Rendered	Fixed Revenue	Bills Rendered	Fixed Revenue	Total Bills Rendered	Total Fixed Revenue
<b>FIXED CHARGES</b>								
Meter 5/8"	70,778	\$ 1,031,238	2,556	\$ 37,243	8	\$ 119	73,343	\$ 1,068,601
Size 3/4"	10,561	\$ 154,190	389	\$ 5,683	2	\$ 26	10,952	\$ 159,899
1"	234,018	\$ 3,409,641	10,422	\$ 151,843	29	\$ 421	244,469	\$ 3,561,906
1 1/2"	36,597	\$ 534,322	1,675	\$ 24,453	23	\$ 343	38,296	\$ 559,118
2"	27,674	\$ 531,060	11,889	\$ 228,153	124	\$ 2,373	39,687	\$ 761,587
3"	4,096	\$ 78,647	2,000	\$ 38,392	22	\$ 425	6,118	\$ 117,464
4"	829	\$ 25,755	7,624	\$ 236,731	85	\$ 2,631	8,538	\$ 265,116
6"	154	\$ 4,775	1,252	\$ 38,932	17	\$ 517	1,422	\$ 44,224
8"	463	\$ 20,770	6,767	\$ 303,711	185	\$ 8,283	7,415	\$ 332,765
Flat Rate Service	86	\$ 3,841	1,139	\$ 51,123	38	\$ 1,705	1,262	\$ 56,669
	16	\$ 1,346	570	\$ 47,026	3	\$ 249	589	\$ 48,621
	4	\$ 348	91	\$ 7,523	0	\$ 38	96	\$ 7,909
	0	\$ 0	178	\$ 23,341	0	\$ 0	178	\$ 23,341
	0	\$ 0	28	\$ 3,635	0	\$ 0	28	\$ 3,635
	0	\$ 0	11	\$ 2,795	0	\$ 0	11	\$ 2,795
	0	\$ 0	2	\$ 490	0	\$ 0	2	\$ 490
	0	\$ 0	6	\$ 2,288	0	\$ 0	6	\$ 2,288
	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
	233	12,651					233	12,651
	29	1,713					29	1,713
<b>Subtotal Fixed Charges</b>	<b>385,539</b>	<b>\$ 5,810,296</b>	<b>46,588</b>	<b>\$ 1,203,364</b>	<b>536</b>	<b>\$ 17,130</b>	<b>432,673</b>	<b>\$ 7,030,790</b>
<b>USE CHARGES</b>								
Unit Cost for Water								
Winter Rate 00	3,631,354	3,567,805	2,477,506	2,434,150	18,937	18,606	6,127,797	6,020,560
Summer Rate 00	4,946,689	6,075,029	2,419,004	2,970,779	52,864	64,922	7,418,557	9,110,730
Winter Rate 8/05	0	0	4	5	0	0	4	5
Summer Rate <3CCF 8/05	187,535	203,757	23,310	25,326	281	305	211,126	229,388
Winter Rate 8/05	2,751,740	3,737,138	1,556,629	2,114,058	29,800	40,471	4,338,169	5,891,667
Summer Rate 9/05	1,358	1,482	582	635	0	0	1,940	2,117
Winter Rate <3CCF 9/05	722	788	1,818	1,984	0	0	2,540	2,772
Summer Rate 9/05	0	0	0	0	0	0	0	0
<b>Subtotal Use Charges</b>	<b>11,519,398</b>	<b>\$ 13,585,999</b>	<b>6,478,853</b>	<b>7,546,936</b>	<b>101,882</b>	<b>\$ 124,305</b>	<b>18,100,133</b>	<b>\$ 21,257,239</b>
<b>TOTAL SECTOR REVENUE</b>		<b>\$ 19,396,295</b>	<b>\$ 8,750,300</b>	<b>\$ 141,435</b>				<b>\$ 28,288,030</b>

# UNITED WATER IDAHO

## Bill Analysis for Base Year Priced at Current Rates

MAIN SYSTEM (Water 18)		RESIDENTIAL		COMMERCIAL		PUBLIC AUTHORITY		TOTAL ALL SECTORS	
	Bi-monthly Charge	Bills Rendered	Fixed Revenue	Bills Rendered	Fixed Revenue	Bills Rendered	Fixed Revenue	Total Bills Rendered	Total Fixed Revenue
<b>FIXED CHARGES</b>									
Meter 5/8"	\$ 14.60	70,778	\$ 1,033,361	2,556	\$ 37,320	8	\$ 120	73,343	\$ 1,070,801
	\$ 14.60	10,561	\$ 154,190	389	\$ 5,683	2	\$ 26	10,952	\$ 159,899
Size 3/4"	\$ 14.60	234,018	\$ 3,416,662	10,422	\$ 152,156	29	\$ 422	244,469	\$ 3,569,240
	\$ 14.60	36,597	\$ 534,322	1,675	\$ 24,453	23	\$ 343	38,296	\$ 559,118
1"	\$ 19.20	27,674	\$ 531,337	11,889	\$ 228,272	124	\$ 2,374	39,687	\$ 761,984
	\$ 19.20	4,096	\$ 78,647	2,000	\$ 38,392	22	\$ 425	6,118	\$ 117,464
1 1/2"	\$ 31.10	829	\$ 25,796	7,624	\$ 237,112	85	\$ 2,635	8,538	\$ 265,543
	\$ 31.10	154	\$ 4,775	1,252	\$ 38,932	17	\$ 517	1,422	\$ 44,224
2"	\$ 44.90	463	\$ 20,780	6,767	\$ 303,847	185	\$ 8,287	7,415	\$ 332,913
	\$ 44.90	86	\$ 3,841	1,139	\$ 51,123	38	\$ 1,705	1,262	\$ 56,669
3"	\$ 82.50	16	\$ 1,346	570	\$ 47,032	3	\$ 249	589	\$ 48,627
	\$ 82.50	4	\$ 348	91	\$ 7,523	0	\$ 38	96	\$ 7,909
4"	\$ 131.30	0	\$ 0	178	\$ 23,345	0	\$ 0	178	\$ 23,345
	\$ 131.30	0	\$ 0	28	\$ 3,635	0	\$ 0	28	\$ 3,635
6"	\$ 252.70	0	\$ 0	11	\$ 2,796	0	\$ 0	11	\$ 2,796
	\$ 252.70	0	\$ 0	2	\$ 490	0	\$ 0	2	\$ 490
8"	\$ 381.20	0	\$ 0	6	\$ 2,288	0	\$ 0	6	\$ 2,288
	\$ 381.20	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Flat Rate Service	\$ 58.20	233	13,562	0	\$ 0	0	\$ 0	233	13,562
	\$ 58.20	29	1,713	0	\$ 0	0	\$ 0	29	1,713
<b>Subtotal Fixed Charges</b>		<b>385,539</b>	<b>\$ 5,820,679</b>	<b>46,598</b>	<b>\$ 1,204,399</b>	<b>536</b>	<b>\$ 17,140</b>	<b>432,673</b>	<b>\$ 7,042,218</b>
<b>USE CHARGES</b>									
	Unit Cost for Water	Billed Use	Use Revenue	Billed Use	Use Revenue	Billed Use	Use Revenue	Total Billed Use	Total Use Revenue
Winter Rate 00	\$1.0912	3,631,354	3,962,533	2,477,506	2,703,454	18,937	20,664	6,127,797	6,686,652
Summer Rate 00	\$1.3641	4,946,689	6,747,778	2,419,004	3,299,764	52,864	72,112	7,418,557	10,119,664
Winter Rate 8/05	\$1.0912	0	0	4	5	0	0	4	5
Summer Rate <3CCF 8/05	\$1.0912	187,535	204,638	23,310	25,436	281	307	211,126	230,381
Winter Rate 8/05	\$1.3641	2,751,740	3,753,649	1,556,629	2,123,397	29,800	40,650	4,338,169	5,917,696
Summer Rate 9/05	\$1.0912	1,358	1,482	582	635	0	0	1,940	2,117
Winter Rate <3CCF 9/05	\$1.0912	722	788	1,818	1,984	0	0	2,540	2,772
Summer Rate 9/05	\$1.3641	0	0	0	0	0	0	0	0
<b>Subtotal Use Charges</b>		<b>11,519,398</b>	<b>\$ 14,670,868</b>	<b>6,478,853</b>	<b>\$ 8,154,675</b>	<b>101,882</b>	<b>\$ 133,733</b>	<b>18,100,133</b>	<b>\$ 22,959,276</b>
<b>TOTAL SECTOR REVENUE</b>			<b>\$ 20,491,547</b>		<b>\$ 9,359,074</b>		<b>\$ 150,873</b>		<b>\$ 30,001,494</b>

# UNITED WATER IDAHO

## Bill Analysis for Base Year Priced at Prevailing Rates

MAIN SYSTEM (Water 09)		RESIDENTIAL		COMMERCIAL		PUBLIC AUTHORITY		TOTAL ALL SECTORS	
		Bills Rendered	Fixed Revenue	Bills Rendered	Fixed Revenue	Bills Rendered	Fixed Revenue	Total Bills Rendered	Total Fixed Revenue
<b>FIXED CHARGES</b>	Bi-monthly Charge								
	Meter 5/8"	\$ 14.57	0	\$ 0	0	\$ 0	0	\$ 0	0
	Size 3/4"	\$ 14.60	0	\$ 0	0	\$ 0	0	\$ 0	0
	1"	\$ 14.57	4,220	\$ 61,493	0	\$ 0	0	\$ 61,493	4,220
	1 1/2"	\$ 14.60	715	\$ 10,435	0	\$ 0	0	\$ 10,435	715
	2"	\$ 19.19	5	\$ 98	5	\$ 98	0	\$ 195	10
	3"	\$ 19.20	1	\$ 17	1	\$ 17	0	\$ 34	2
	4"	\$ 31.05	5	\$ 159	0	\$ 0	0	\$ 159	5
	6"	\$ 31.10	1	\$ 28	0	\$ 0	0	\$ 28	1
	8"	\$ 44.88	0	\$ 0	0	\$ 0	0	\$ 0	0
	Flat Rate Service	\$ 44.90	0	\$ 0	0	\$ 0	0	\$ 0	0
		\$ 82.49	0	\$ 0	0	\$ 0	0	\$ 0	0
		\$ 82.50	0	\$ 0	0	\$ 0	0	\$ 0	0
		\$ 131.28	0	\$ 0	0	\$ 0	0	\$ 0	0
	\$ 131.30	0	\$ 0	0	\$ 0	0	\$ 0	0	
	\$ 252.63	0	\$ 0	0	\$ 0	0	\$ 0	0	
	\$ 252.70	0	\$ 0	0	\$ 0	0	\$ 0	0	
	\$ 381.20	0	\$ 0	0	\$ 0	0	\$ 0	0	
	\$ 381.20	0	\$ 0	0	\$ 0	0	\$ 0	0	
	\$ 58.40	0	\$ 0	0	\$ 0	0	\$ 0	0	
<b>Subtotal Fixed Charges</b>		4,947	\$ 72,229	6	\$ 115	0	\$ 0	4,953	\$ 72,344
<b>USE CHARGES</b>		Unit Cost for Water	Billed Use	Use Revenue	Billed Use	Use Revenue	Billed Use	Use Revenue	Total Billed Use
	Winter Rate 00	\$ 0.9825	50,331	49,450	15	15	0	0	50,346
	Summer Rate 00	\$ 1.2281	25,226	30,980	2	2	0	0	25,228
	Winter Rate 8/05	\$ 1.0865	0	0	0	0	0	0	0
	Summer Rate <3CCF 8/05	\$ 1.0865	2,159	2,346	7	7	0	0	2,166
	Winter Rate 8/05	\$ 1.3581	14,063	19,099	2	2	0	0	14,065
	Summer Rate 9/05	\$ 1.0912	18	20	0	0	0	0	18
	Winter Rate <3CCF 9/05	\$ 1.0912	0	0	0	0	0	0	0
	Summer Rate 9/05	\$ 1.3641	0	0	0	0	0	0	0
<b>Subtotal Use Charges</b>			91,797	\$ 101,895	25	\$ 26	0	\$ 0	91,822
<b>TOTAL SECTOR REVENUE</b>				\$ 174,124		\$ 141		\$ 0	\$ 174,265

# UNITED WATER IDAHO

## Bill Analysis for Base Year Priced at Current Rates

MAIN SYSTEM (Water 09)		RESIDENTIAL		COMMERCIAL		PUBLIC AUTHORITY		TOTAL ALL SECTORS	
	Bi-monthly Charge	Bills Rendered	Fixed Revenue	Bills Rendered	Fixed Revenue	Bills Rendered	Fixed Revenue	Total Bills Rendered	Total Fixed Revenue
<b>FIXED CHARGES</b>									
Meter 5/8"	\$ 14.60	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Size 3/4"	\$ 14.60	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
	\$ 14.60	4,220	\$ 61,619	0	\$ 0	0	\$ 0	4,220	\$ 61,619
1"	\$ 14.60	715	\$ 10,435	0	\$ 0	0	\$ 0	715	\$ 10,435
	\$ 19.20	5	\$ 98	5	\$ 98	0	\$ 0	10	\$ 195
1 1/2"	\$ 19.20	1	\$ 17	1	\$ 17	0	\$ 0	2	\$ 34
	\$ 31.10	5	\$ 159	0	\$ 0	0	\$ 0	5	\$ 159
2"	\$ 31.10	1	\$ 28	0	\$ 0	0	\$ 0	1	\$ 28
	\$ 44.90	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
3"	\$ 44.90	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
	\$ 82.50	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
4"	\$ 82.50	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
	\$ 131.30	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
6"	\$ 131.30	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
	\$ 252.70	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
8"	\$ 252.70	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
	\$ 381.20	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
	\$ 381.20	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Flat Rate Service	\$ 58.40	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Subtotal Fixed Charges		4,947	\$ 72,356	6	\$ 115	0	\$ 0	4,953	\$ 72,471
	Unit Cost for Water	Billed Use	Use Revenue	Billed Use	Use Revenue	Billed Use	Use Revenue	Total Billed Use	Total Use Revenue
<b>USE CHARGES</b>									
Winter Rate 00	\$1.0912	50,331	54,921	15	16	0	0	50,346	54,938
Summer Rate 00	\$1.3641	25,226	34,411	2	2	0	0	25,228	34,413
Winter Rate 8/05	\$1.0912	0	0	0	0	0	0	0	0
Summer Rate <CCF 8/05	\$1.0912	2,159	2,356	7	7	0	0	2,166	2,363
Winter Rate 8/05	\$1.3641	14,063	19,183	2	2	0	0	14,065	19,186
Summer Rate 9/05	\$1.0912	18	20	0	0	0	0	18	20
Summer Rate <CCF 9/05	\$1.0912	0	0	0	0	0	0	0	0
Summer Rate 9/05	\$1.3641	0	0	0	0	0	0	0	0
Subtotal Use Charges		91,797	\$ 110,891	25	\$ 28	0	\$ 0	91,822	\$ 110,919
<b>TOTAL SECTOR REVENUE</b>			<b>\$ 183,247</b>		<b>\$ 143</b>		<b>\$ 0</b>		<b>\$ 183,390</b>

# UNITED WATER IDAHO

## Bill Analysis for Base Year Priced at Prevailing Rates

MAIN SYSTEM (Water SC)		RESIDENTIAL		COMMERCIAL		PUBLIC AUTHORITY		TOTAL ALL SECTORS	
	Bi-monthly Charge	Bills Rendered	Fixed Revenue	Bills Rendered	Fixed Revenue	Bills Rendered	Fixed Revenue	Total Bills Rendered	Total Fixed Revenue
<b>FIXED CHARGES</b>									
Meter 5/8"	\$ 11.66	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
	\$ 14.57	259	\$ 3,770	5	\$ 74	0	\$ 0	264	\$ 3,844
	\$ 14.60	57	\$ 834	1	\$ 14	0	\$ 0	58	\$ 848
Size 3/4"	\$ 11.66	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
	\$ 14.57	8,516	\$ 124,081	93	\$ 1,361	0	\$ 0	8,610	\$ 125,441
	\$ 14.60	1,767	\$ 25,802	14	\$ 209	0	\$ 0	1,782	\$ 26,011
1"	\$ 13.43	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
	\$ 19.19	3,136	\$ 60,188	122	\$ 2,334	0	\$ 0	3,258	\$ 62,522
	\$ 19.20	659	\$ 12,646	22	\$ 423	0	\$ 0	681	\$ 13,069
1 1/2"	\$ 20.00	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
	\$ 31.05	0	\$ 0	74	\$ 2,309	0	\$ 0	74	\$ 2,309
	\$ 31.10	0	\$ 0	12	\$ 374	0	\$ 0	12	\$ 374
2"	\$ 35.90	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
	\$ 44.88	3	\$ 151	123	\$ 5,542	0	\$ 0	127	\$ 5,693
	\$ 44.90	0	\$ 15	21	\$ 954	0	\$ 0	22	\$ 969
3"	\$ 65.99	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
	\$ 82.49	0	\$ 0	11	\$ 870	0	\$ 0	11	\$ 870
	\$ 82.50	0	\$ 0	1	\$ 120	0	\$ 0	1	\$ 120
4"	\$ 105.02	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
	\$ 131.28	0	\$ 0	21	\$ 2,752	0	\$ 0	21	\$ 2,752
	\$ 131.30	0	\$ 0	3	\$ 399	0	\$ 0	3	\$ 399
6"	\$ 252.63	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
	\$ 252.70	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
8"	\$ 381.20	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
	\$ 381.20	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Flat Rate Service									
Subtotal Fixed Charges		14,398	\$ 227,487	525	\$ 17,736	0	\$ 0	14,923	\$ 245,223
<b>USE CHARGES</b>									
	Unit Cost for Water	Billed Use	Use Revenue	Billed Use	Use Revenue	Billed Use	Use Revenue	Total Billed Use	Total Use Revenue
Winter Rate 00	\$ 0.9825	172,783	169,759	29,423	28,908	0	0	202,206	198,667
Summer Rate 00	\$ 1.2281	194,250	238,558	34,676	42,586	0	0	228,926	281,144
Winter Rate 8/05	\$ 1.0865	0	0	0	0	0	0	0	0
Summer Rate <CCF 8/05	\$ 1.0865	10,852	11,791	274	298	0	0	11,126	12,088
Winter Rate 8/05	\$ 1.3581	157,233	213,538	24,460	33,219	0	0	181,693	246,757
Summer Rate 9/05	\$ 1.0912	0	0	0	0	0	0	0	0
Winter Rate <CCF 9/05	\$ 1.0912	173	189	0	0	0	0	173	189
Summer Rate 9/05	\$ 1.3641	0	0	0	0	0	0	0	0
Subtotal Use Charges		535,291	\$ 633,835	88,833	\$ 105,011	0	\$ 0	624,124	\$ 738,846
<b>TOTAL SECTOR REVENUE</b>			<b>\$ 861,322</b>		<b>\$ 122,747</b>		<b>\$ 0</b>		<b>\$ 984,069</b>

# UNITED WATER IDAHO

## Bill Analysis for Base Year Priced at Current Rates

MAIN SYSTEM (Water SC)		RESIDENTIAL		COMMERCIAL		PUBLIC AUTHORITY		TOTAL ALL SECTORS	
		Bills Rendered	Fixed Revenue	Bills Rendered	Fixed Revenue	Bills Rendered	Fixed Revenue	Total Bills Rendered	Total Fixed Revenue
<b>FIXED CHARGES</b>									
Meter 5/8"	\$ 14.60	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Size 3/4"	\$ 14.60	259	\$ 3,778	5	\$ 74	0	\$ 0	264	\$ 3,852
1"	\$ 14.60	57	\$ 834	1	\$ 14	0	\$ 0	58	\$ 848
1 1/2"	\$ 14.60	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
2"	\$ 14.60	8,516	\$ 124,336	93	\$ 1,364	0	\$ 0	8,610	\$ 125,700
3"	\$ 14.60	1,767	\$ 25,802	14	\$ 209	0	\$ 0	1,782	\$ 26,011
4"	\$ 19.20	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
5"	\$ 19.20	3,136	\$ 60,219	122	\$ 2,336	0	\$ 0	3,258	\$ 62,555
6"	\$ 19.20	659	\$ 12,646	22	\$ 423	0	\$ 0	681	\$ 13,069
8"	\$ 31.10	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Flat Rate Service	\$ 31.10	0	\$ 0	74	\$ 2,313	0	\$ 0	74	\$ 2,313
Subtotal Fixed Charges	\$ 31.10	0	\$ 0	12	\$ 374	0	\$ 0	12	\$ 374
3"	\$ 44.90	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
4"	\$ 44.90	3	\$ 151	123	\$ 5,545	0	\$ 0	127	\$ 5,696
5"	\$ 44.90	0	\$ 15	21	\$ 954	0	\$ 0	22	\$ 969
6"	\$ 82.50	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
7"	\$ 82.50	0	\$ 0	11	\$ 871	0	\$ 0	11	\$ 871
8"	\$ 82.50	0	\$ 0	1	\$ 120	0	\$ 0	1	\$ 120
Flat Rate Service	\$ 131.30	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Subtotal Fixed Charges	\$ 131.30	0	\$ 0	21	\$ 2,753	0	\$ 0	21	\$ 2,753
6"	\$ 131.30	0	\$ 0	3	\$ 399	0	\$ 0	3	\$ 399
7"	\$ 252.70	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
8"	\$ 252.70	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Flat Rate Service	\$ 381.20	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Subtotal Fixed Charges	\$ 381.20	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Flat Rate Service	\$ 0.00	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Subtotal Fixed Charges	\$ 0.00	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
<b>Subtotal</b>		<b>14,398</b>	<b>\$ 227,781</b>	<b>525</b>	<b>\$ 17,747</b>	<b>0</b>	<b>\$ 0</b>	<b>14,923</b>	<b>\$ 245,528</b>
<b>USE CHARGES</b>		<b>Unit Cost for Water</b>		<b>Billed Use</b>	<b>Use Revenue</b>	<b>Billed Use</b>	<b>Use Revenue</b>	<b>Total Billed Use</b>	<b>Total Use Revenue</b>
Winter Rate 00	\$1.0912	172,783	188,541	29,423	32,106	0	0	202,206	220,647
Summer Rate 00	\$1.3641	194,250	264,976	34,676	47,302	0	0	228,926	312,278
Winter Rate 8/05	\$1.0912	0	0	0	0	0	0	0	0
Summer Rate <CCF 8/05	\$1.0912	10,852	11,842	274	299	0	0	11,126	12,141
Winter Rate 9/05	\$1.3641	157,233	214,482	24,460	33,366	0	0	181,693	247,847
Summer Rate <CCF 9/05	\$1.0912	0	0	0	0	0	0	0	0
Winter Rate 9/05	\$1.0912	173	189	0	0	0	0	173	189
Summer Rate 9/05	\$1.3641	0	0	0	0	0	0	0	0
Subtotal Use Charges		<b>535,291</b>	<b>\$ 680,029</b>	<b>88,833</b>	<b>\$ 113,073</b>	<b>0</b>	<b>\$ 0</b>	<b>624,124</b>	<b>\$ 793,102</b>
<b>TOTAL SECTOR REVENUE</b>			<b>\$ 907,810</b>		<b>\$ 130,820</b>		<b>\$ 0</b>		<b>\$ 1,038,630</b>

# UNITED WATER IDAHO

## Bill Analysis for Base Year Priced at Prevailing Rates

MAIN SYSTEM		RESIDENTIAL		COMMERCIAL		PUBLIC AUTHORITY		TOTAL ALL SECTORS	
		Bills Rendered	Fixed Revenue	Bills Rendered	Fixed Revenue	Bills Rendered	Fixed Revenue	Total Bills Rendered	Total Fixed Revenue
<b>FIXED CHARGES</b>									
Meter 5/8"	\$ 14.57	71,037	\$ 1,035,008	2,561	\$ 37,317	8	\$ 119	73,606	\$ 1,072,445
Size 3/4"	\$ 14.60	10,618	\$ 155,024	390	\$ 5,697	2	\$ 26	11,010	\$ 160,747
1"	\$ 14.57	246,755	\$ 3,595,215	10,515	\$ 153,204	29	\$ 421	257,299	\$ 3,748,840
1 1/2"	\$ 14.60	39,079	\$ 570,559	1,689	\$ 24,662	23	\$ 343	40,792	\$ 595,564
	\$ 19.19	30,815	\$ 591,346	12,016	\$ 230,586	124	\$ 2,373	42,955	\$ 824,304
	\$ 19.20	4,756	\$ 91,310	2,023	\$ 38,832	22	\$ 425	6,800	\$ 130,567
	\$ 31.05	835	\$ 25,914	7,699	\$ 239,040	85	\$ 2,631	8,618	\$ 267,585
	\$ 31.10	154	\$ 4,803	1,264	\$ 39,306	17	\$ 517	1,435	\$ 44,626
	\$ 44.88	466	\$ 20,921	6,891	\$ 309,254	185	\$ 8,283	7,541	\$ 338,459
	\$ 44.90	86	\$ 3,856	1,160	\$ 52,077	38	\$ 1,705	1,284	\$ 57,638
	\$ 82.49	16	\$ 1,346	581	\$ 47,897	3	\$ 249	600	\$ 49,492
	\$ 82.50	4	\$ 348	93	\$ 7,643	0	\$ 38	97	\$ 8,029
	\$ 131.28	0	\$ 0	199	\$ 26,094	0	\$ 0	199	\$ 26,094
	\$ 131.30	0	\$ 0	31	\$ 4,034	0	\$ 0	31	\$ 4,034
	\$ 252.63	0	\$ 0	11	\$ 2,795	0	\$ 0	11	\$ 2,795
	\$ 252.70	0	\$ 0	2	\$ 490	0	\$ 0	2	\$ 490
	\$ 381.20	0	\$ 0	6	\$ 2,288	0	\$ 0	6	\$ 2,288
	\$ 381.20	0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Flat Rate Service	\$ 54.29	233	\$ 12,651	0	\$ 0	0	\$ 0	233	\$ 12,651
	\$ 58.20	29	\$ 1,713	0	\$ 0	0	\$ 0	29	\$ 1,713
<b>Subtotal Fixed Charges</b>		<b>404,884</b>	<b>\$ 6,110,012</b>	<b>47,129</b>	<b>\$ 1,221,215</b>	<b>536</b>	<b>\$ 17,130</b>	<b>452,548</b>	<b>\$ 7,348,357</b>
<b>USE CHARGES</b>		<b>Unit Cost for Water</b>	<b>Use Revenue</b>	<b>Billed Use</b>	<b>Use Revenue</b>	<b>Billed Use</b>	<b>Use Revenue</b>	<b>Total Billed Use</b>	<b>Total Use Revenue</b>
Winter Rate 00	\$ 0.9825	3,854,468	3,787,015	2,506,944	2,463,072	18,937	18,606	6,380,349	6,268,693
Summer Rate 00	\$ 1.2281	5,166,165	6,344,567	2,453,682	3,013,367	52,864	64,922	7,672,711	9,422,856
Winter Rate 8/05	\$ 1.0865	0	0	4	5	0	0	4	5
Summer Rate <CCF 8/05	\$ 1.0865	200,546	217,893	23,591	25,631	281	305	224,418	243,830
Winter Rate 8/05	\$ 1.3581	2,923,036	3,969,775	1,581,091	2,147,279	29,800	40,471	4,533,927	6,157,526
Summer Rate 9/05	\$ 1.0912	1,376	1,501	582	635	0	0	1,958	2,137
Winter Rate <CCF 9/05	\$ 1.0912	895	977	1,818	1,984	0	0	2,713	2,960
Summer Rate 9/05	\$ 1.3641	0	0	0	0	0	0	0	0
<b>Subtotal Use Charges</b>		<b>12,146,486</b>	<b>\$ 14,321,729</b>	<b>6,567,711</b>	<b>\$ 7,651,973</b>	<b>101,882</b>	<b>\$ 124,305</b>	<b>18,816,079</b>	<b>\$ 22,098,006</b>
<b>TOTAL SECTOR REVENUE</b>			<b>\$ 20,431,741</b>		<b>\$ 8,873,188</b>		<b>\$ 141,435</b>		<b>\$ 29,446,364</b>

# UNITED WATER IDAHO

## Bill Analysis for Base Year Priced at Current Rates

MAIN SYSTEM		RESIDENTIAL		COMMERCIAL		PUBLIC AUTHORITY		TOTAL ALL SECTORS	
		Bills Rendered	Fixed Revenue	Bills Rendered	Fixed Revenue	Bills Rendered	Fixed Revenue	Total Bills Rendered	Total Fixed Revenue
FIXED CHARGES	Meter 5/8"	\$ 14.60	\$ 1,037,139	2,561	\$ 37,394	8	\$ 120	73,606	\$ 1,074,653
	Size 3/4"	\$ 14.60	\$ 155,024	390	\$ 5,697	2	\$ 26	11,010	\$ 160,747
	1"	\$ 14.60	\$ 3,602,617	10,515	\$ 153,519	29	\$ 422	257,299	\$ 3,756,559
	1 1/2"	\$ 19.20	\$ 570,559	1,689	\$ 24,662	23	\$ 343	40,792	\$ 595,564
	2"	\$ 19.20	\$ 591,654	12,016	\$ 230,706	124	\$ 2,374	42,955	\$ 824,734
	3"	\$ 31.10	\$ 91,310	2,023	\$ 38,832	22	\$ 425	6,800	\$ 130,567
	4"	\$ 31.10	\$ 25,955	7,699	\$ 239,425	85	\$ 2,635	8,618	\$ 268,015
	5"	\$ 44.90	\$ 4,803	1,264	\$ 39,306	17	\$ 517	1,435	\$ 44,626
	6"	\$ 44.90	\$ 20,931	6,891	\$ 309,392	185	\$ 6,287	7,541	\$ 338,609
	7"	\$ 82.50	\$ 3,856	1,160	\$ 52,077	38	\$ 1,705	1,284	\$ 57,638
	8"	\$ 82.50	\$ 1,346	581	\$ 47,902	3	\$ 249	600	\$ 49,498
	Flat Rate Service	\$ 131.30	\$ 348	93	\$ 7,643	0	\$ 38	97	\$ 8,029
		\$ 252.70	\$ 0	199	\$ 26,098	0	\$ 0	199	\$ 26,098
		\$ 252.70	\$ 0	31	\$ 4,034	0	\$ 0	31	\$ 4,034
	\$ 381.20	\$ 0	11	\$ 2,796	0	\$ 0	11	\$ 2,796	
	\$ 381.20	\$ 0	2	\$ 490	0	\$ 0	2	\$ 490	
	\$ 58.20	\$ 13,562	0	\$ 2,288	0	\$ 0	6	\$ 2,288	
	\$ 58.20	\$ 1,713	0	\$ 0	0	\$ 0	0	\$ 0	
		233	\$ 13,562	0	\$ 0	0	233	\$ 13,562	
		29	1,713	0	\$ 0	0	29	1,713	
		404,884	\$ 6,120,817	47,129	\$ 1,222,261	536	\$ 17,140	452,548	\$ 7,360,218
	Unit Cost for Water								
USE CHARGES	Winter Rate 00	\$1.0912	4,205,995	2,506,944	2,735,577	18,937	20,664	6,380,349	6,962,237
	Summer Rate 00	\$1.3641	7,047,166	2,453,682	3,347,068	52,864	72,112	7,672,711	10,466,345
	Winter Rate 8/05	\$1.0912	0	4	5	0	0	4	5
	Summer Rate <SCCF 8/05	\$1.0912	200,546	218,836	23,591	25,742	281	224,418	244,885
	Winter Rate 8/05	\$1.3641	2,923,036	3,987,313	1,581,091	2,156,766	29,800	40,650	6,184,729
	Summer Rate 9/05	\$1.0912	1,376	1,501	582	635	0	0	2,137
	Winter Rate <SCCF 9/05	\$1.0912	895	977	1,818	1,984	0	0	2,960
		0	0	0	0	0	0	0	
		12,146,486	\$ 15,461,788	6,567,711	\$ 8,267,776	101,882	\$ 133,733	18,816,079	\$ 23,863,297
			\$ 21,582,605		\$ 9,490,037		\$ 150,873		\$ 31,223,515
TOTAL SECTOR REVENUE									

# UNITED WATER IDAHO

## Bill Analysis for Base Year Priced at Current Rates

MAIN SYSTEM (Water 09)		RESIDENTIAL		COMMERCIAL		PUBLIC AUTHORITY		TOTAL ALL SECTORS	
	Bi-monthly Charge	Bills Rendered	Fixed Revenue	Bills Rendered	Fixed Revenue	Bills Rendered	Fixed Revenue	Total Bills Rendered	Total Fixed Revenue
<b>FIXED CHARGES</b>									
Meter 5/8"	\$ 14.60	81,655	\$ 1,192,164	2,951	\$ 43,091	10	\$ 145	84,616	\$ 1,235,400
Size 3/4"	\$ 14.60	285,834	\$ 4,173,176	12,204	\$ 178,182	52	\$ 765	298,091	\$ 4,352,123
1"	\$ 19.20	35,571	\$ 682,964	14,038	\$ 269,538	146	\$ 2,799	49,755	\$ 955,301
1 1/2"	\$ 31.10	989	\$ 30,758	8,962	\$ 278,731	101	\$ 3,152	10,053	\$ 312,641
2"	\$ 44.90	552	\$ 24,787	8,051	\$ 361,469	223	\$ 9,992	8,825	\$ 396,247
3"	\$ 82.50	21	\$ 1,694	673	\$ 55,545	3	\$ 287	697	\$ 57,526
4"	\$ 131.30	0	\$ 0	229	\$ 30,132	0	\$ 0	229	\$ 30,132
6"	\$ 252.70	0	\$ 0	13	\$ 3,286	0	\$ 0	13	\$ 3,286
8"	\$ 381.20	0	\$ 0	6	\$ 2,288	0	\$ 0	6	\$ 2,288
Flat Rate Service	\$ 58.20	262	15,275	0	0	0	0	233	15,275
<b>Subtotal Fixed Charges</b>		<b>404,884</b>	<b>\$ 6,120,817</b>	<b>47,129</b>	<b>\$ 1,222,261</b>	<b>536</b>	<b>\$ 17,140</b>	<b>452,519</b>	<b>\$ 7,360,218</b>
<b>USE CHARGES</b>	<b>Unit Cost for Water</b>	<b>Billed Use</b>	<b>Use Revenue</b>	<b>Billed Use</b>	<b>Use Revenue</b>	<b>Billed Use</b>	<b>Use Revenue</b>	<b>Total Billed Use</b>	<b>Total Use Revenue</b>
Winter Rate 9/05	1.0912	3,855,844	4,207,497	2,507,530	2,736,217	18,937	20,664	6,383,066	6,964,378
Summer Rate <CCF 9/05	1.0912	201,441	219,812	25,409	27,726	281	307	227,131	247,845
Summer Rate 9/05	1.3641	8,089,201	11,034,479	4,034,773	5,503,833	82,664	112,762	12,206,638	16,651,074
<b>Subtotal Use Charges</b>		<b>12,146,486</b>	<b>\$ 15,461,788</b>	<b>6,567,711</b>	<b>\$ 8,267,776</b>	<b>101,882</b>	<b>\$ 133,733</b>	<b>18,816,834</b>	<b>\$ 23,863,297</b>
<b>TOTAL SECTOR REVENUE</b>			<b>\$ 21,582,605</b>		<b>\$ 9,490,037</b>		<b>\$ 150,873</b>		<b>\$ 31,223,515</b>
<b>WINTER USE</b>		3,855,844	46.5%	2,507,530	61.8%	18,937	22.8%	6,383,066	51.3%
<b>SUMMER USE</b>		8,290,642	68.3%	4,060,181	61.8%	82,945	81.4%	12,433,768	66.1%
<b>TOTAL USE</b>		12,146,486		6,567,711		101,882		18,816,834	
<b>SUMMER BILLED @ &lt; 3 CCF</b>		201,441	2.4%	25,409	0.6%	281	0.3%	227,131	1.8%
<b>SUMMER BILLED @ &gt; 3 CCF</b>		8,089,201	97.6%	4,034,773	99.4%	82,664	99.7%	12,206,638	98.2%
<b>TOTAL SUMMER USE</b>		8,290,642		4,060,181		82,945		12,433,768	

# UNITED WATER IDAHO

## Bill Analysis for Test Year Priced at Current Rates

	RESIDENTIAL		COMMERCIAL		PUBLIC AUTHORITY		TOTAL ALL SECTORS	
	Bills Rendered	Fixed Revenue	Bills Rendered	Fixed Revenue	Bills Rendered	Fixed Revenue	Total Bills Rendered	Total Fixed Revenue
<b>FIXED CHARGES</b>								
Meter 5/8" Size 3/4"	82,269	\$ 1,201,128	2,960	\$ 43,223	10	\$ 145	85,239	\$ 1,244,496
1"	287,981	4,204,522	12,245	178,780	52	765	300,279	4,384,068
1 1/2"	35,838	688,091	14,086	270,459	146	2,799	50,070	961,349
2"	996	30,976	8,992	279,664	101	3,152	10,090	313,792
3"	556	24,966	8,078	362,681	223	9,992	8,856	397,639
4"	21	1,694	675	55,710	3	287	699	57,691
6"	0	0	229	30,132	0	0	229	30,132
8"	0	0	13	3,286	0	0	13	3,286
Flat Rate Service	0	0	6	2,288	0	0	6	2,288
Subtotal Fixed Charges	407,661	\$ 6,166,651	47,286	\$ 1,226,222	536	\$ 17,140	455,744	\$ 7,410,014
<b>USE CHARGES</b>								
Unit Cost for Water								
Winter Rate 9/05	4,031,849	4,399,554	2,608,223	2,846,092	21,853	23,846	6,661,925	7,269,493
Summer Rate -SCCF 9/05	210,636	229,846	26,429	28,839	324	354	237,389	259,039
Summer Rate 9/05	8,458,444	11,538,163	4,196,793	5,724,845	95,395	130,128	12,750,631	17,393,136
Subtotal Use Charges	12,700,929	\$ 16,167,563	6,831,444	\$ 8,599,777	117,572	\$ 154,328	19,649,946	\$ 24,921,668
<b>TOTAL SECTOR REVENUE</b>		\$ 22,334,214		\$ 9,825,999		\$ 171,468		\$ 32,331,682
<b>DIFFERENCE Base Year vs THRU APRIL 2006</b>								
FIXED SERVICE CHARGES	554,443	\$ 45,834	263,733	\$ 3,962	15,690	\$ 0		\$ 49,796
WATER USE CHARGES		\$ 705,775		\$ 332,001		\$ 20,595		\$ 1,058,371
<b>TOTAL REVENUE</b>		\$ 751,609		\$ 335,963		\$ 20,595		\$ 1,108,167

# UNITED WATER IDAHO

## Bill Analysis for Test Year Priced at Proposed Rates

	RESIDENTIAL		COMMERCIAL		PUBLIC AUTHORITY		TOTAL ALL SECTORS	
	Bills Rendered	Fixed Revenue	Bills Rendered	Fixed Revenue	Bills Rendered	Fixed Revenue	Total Bills Rendered	Total Fixed Revenue
<b>FIXED CHARGES</b>								
Meter 5/8"	82,269	\$ 1,416,673	2,960	\$ 50,979	10	\$ 171	85,239	\$ 1,467,823
Size 3/4"	287,981	4,959,032	12,245	210,863	52	903	300,279	5,170,798
1"	35,838	811,732	14,086	319,057	146	3,302	50,070	1,134,091
1 1/2"	996	36,543	8,992	329,932	101	3,718	10,090	370,194
2"	556	29,454	8,078	427,866	223	11,788	8,856	469,108
3"	21	1,998	675	65,718	3	339	699	68,054
4"	0	0	229	35,545	0	0	229	35,545
6"	0	0	13	3,876	0	0	13	3,876
8"	0	0	6	2,699	0	0	6	2,699
Flat Rate Service	262	16,288	0	0	0	0	262	16,288
<b>Subtotal Fixed Charges</b>	<b>407,661</b>	<b>\$ 7,271,719</b>	<b>47,286</b>	<b>\$ 1,446,535</b>	<b>536</b>	<b>\$ 20,221</b>	<b>455,744</b>	<b>\$ 8,738,475</b>
<b>USE \ CHARGES</b>								
Winter Rate 9/05	4,031,849	5,189,796	2,608,223	3,357,304	21,853	28,130	6,661,925	8,575,230
Summer Rate <CCF 9/05	210,636	271,131	26,429	34,019	324	417	237,389	305,567
Summer Rate 9/05	8,458,444	13,609,636	4,196,793	6,752,640	95,395	153,490	12,750,631	20,515,766
<b>Subtotal Use Charges</b>	<b>12,700,929</b>	<b>\$ 19,070,563</b>	<b>6,831,444</b>	<b>\$ 10,143,963</b>	<b>117,572</b>	<b>\$ 182,037</b>	<b>19,649,946</b>	<b>\$ 29,396,563</b>
<b>TOTAL SECTOR REVENUE</b>		<b>\$ 26,342,283</b>		<b>\$ 11,590,498</b>		<b>\$ 202,258</b>		<b>\$ 38,135,039</b>
<b>DIFFERENCE BASE YEAR vs THRU APRIL 2006</b>								
<b>REVENUE IN BASE YEAR</b>		<b>\$ 22,334,214</b>		<b>\$ 9,825,999</b>		<b>\$ 171,468</b>		<b>\$ 32,331,682</b>
<b>REVENUE INCREASE THRU APRIL 2006</b>		<b>\$ 4,008,069</b>		<b>\$ 1,764,499</b>		<b>\$ 30,789</b>		<b>\$ 5,803,357</b>

RECEIVED  
2005  
JUL 10 PM 2:19  
UTILITIES COMMISSION

**SCHEDULE NO. 1  
GENERAL METERED SERVICE**

Availability:

To all metered customers not served under a separate schedule.

Customer Charges:

<u>Meter Size</u>	<u>Bi-Monthly Per Meter Charge</u>
5/8"	\$ 14.60
3/4"	14.60
1"	19.20
1-1/4" and 1-1/2"	31.10
2" or multiple meters of equivalent capacity	44.90
3" or multiple meters of equivalent capacity	82.50
4" or multiple meters of equivalent capacity	131.30
6" or multiple meters of equivalent capacity	252.70
8" or multiple meters of equivalent capacity	381.20
10" or multiple meters of equivalent capacity	532.90

Volume Charge:

	<u>Winter Rates</u>	<u>Summer Rates</u>
For all water used less than 3CCF (100 cubic Feet) (CCF)(1 CCF=748 gallons):	\$1.0912	\$1.0912
For all water used greater than 3CCF	\$1.0912	\$1.3641

Conditions of Contract:

The customer shall pay the total of the customer charge plus the volume charge. The volume charge is based on all metered water for the billing period. Consumption is expressed in hundred cubic foot units or thousand gallon units as determined by the meter installed by the Company. The customer charge will be prorated whenever the customer has not been a customer for the entire billing period.

Summer Period:

The summer rate will apply to water consumed between May 1 and September 30. Meter readings straddling these dates will be prorated.

UNITED  
Issued Per IPUC Order No. 29871  
Effective – September 28, 2005

Issued by UNITED WATER IDAHO INC.  
Gregory P. Wyatt, Vice President  
8248 West Victory Road, Boise, Idaho

**SCHEDULE NO. 1B**  
**FLAT RATE SERVICE**

Availability:

To non-metered residential customers pursuant to Residential or Multi-Family Housing Non-Contiguous Water Systems Agreement Paragraph 11(a) addressing flat rate systems.

Customer Charges:

Based on United Water Idaho residential consumption for the year ending June 1998 of 208.75 ccf, the average residential bill, assuming a ¾" meter and 65%/35% summer/winter split, is \$350.43. Billed bi-monthly, equals \$58.40.

Bi-monthly Charge:                      \$58.40

Conditions of Contract:

The bi-monthly charge will be prorated whenever the customer has not been a customer for the entire billing period. The Company or the customer may convert to metered service pursuant to Subparagraphs (b) or (c) of Paragraph 11 as follows:

- (b) If Company should determine that a flat rate customer is using water in excess of the average residential customer, the Company will provide a meter setting and meter. Customer will then pay Company's metered tariff rates as approved by the IPUC, which rates may be amended from time to time.
  
- (c) If a customer prefers to pay Company's approved metered tariff rates, the customer shall pay the installation and material costs associated with the installation of a meter setting.

---

UNITED  
Issued Per IPUC Order No. 29871  
Effective – September 28, 2005

---

Issued by UNITED WATER IDAHO INC.  
Gregory P. Wyatt, Vice President  
8248 West Victory Road, Boise, Idaho

Exhibit 2  
F. Gradilone  
Schedule 1  
Page 2 of 5



**SCHEDULE NO. 3**  
**PRIVATE FIRE SPRINKLER AND SERVICE**

Availability:

To all customers who have sprinkler systems and/or inside hose connections for fire fighting purposes.

Rate:

For service through a separate line for fire fighting purposes.

For 3" service or smaller, per month	\$ 12.78
For 4" service per month	19.37
For 6" service per month	48.12
For 8" service per month	79.06
For 10" service per month	123.30
For 12" service per month	184.69

Miscellaneous:

Provided that if the installation of a private fire service shall require an extension of the existing mains of the company, the cost of such extension shall be borne by the customer.

All private fire services shall be equipped with sealed gate valves or thermal automatic openings.

Meters may be placed on fire services by the utility at any time; however, metered rates will not apply unless improper use of water is disclosed, and if such be the case, usage will be billed to the consumer under Rate Schedule No. 1.

---

UNITED  
Issued Per IPUC Order No. 29871  
Effective – September 28, 2005

---

Issued by UNITED WATER IDAHO INC.  
Gregory P. Wyatt, Vice President  
8248 West Victory Road, Boise, Idaho

Exhibit 2  
F. Gradilone  
Schedule 1  
Page 4 of 5

**SCHEDULE NO. 4**  
**PRIVATE FIRE HYDRANT SERVICE**

Availability:

To all customers having private fire hydrant installations.

Rate:

For fire hydrants installed and maintained by the customer at customer's expense:

Each fire hydrant, per month	\$7.74
------------------------------	--------

Miscellaneous:

Service pipe from the fitting on the company water main to the fire hydrant is to be installed and maintained by the customer.

---

UNITED  
Issued Per IPUC Order No. 29871  
Effective – September 28, 2005

Issued by UNITED WATER IDAHO INC.  
Gregory P. Wyatt, Vice President  
8248 West Victory Road, Boise, Idaho

Exhibit 2  
F. Gradilone  
Schedule 1  
Page 5 of 5

RECEIVED  
SEP 10 PM 2:19  
UTILITIES COMMISSION

**UNITED WATER IDAHO INC.**

**SCHEDULE NO. 1  
GENERAL METERED SERVICE**

Availability:

To all metered customers not served under a separate schedule.

Customer Charges:

<u>Meter Size</u>	<u>Bi-Monthly Per Meter Charge</u>
5/8"	\$ 17.22
3/4"	17.22
1"	22.65
1-1/4" and 1-1/2"	36.69
2" or multiple meters of equivalent capacity	52.97
3" or multiple meters of equivalent capacity	97.32
4" or multiple meters of equivalent capacity	154.89
6" or multiple meters of equivalent capacity	298.10
8" or multiple meters of equivalent capacity	449.68
10" or multiple meters of equivalent capacity	628.64

Volume Charge:

	<u>Winter Rates</u>	<u>Summer Rates</u>
For all water used less than 3CCF (100 cubic Feet) (CCF)(1 CCF=748 gallons):	\$1.2872	\$1.2872
For all water used greater than 3CCF	\$1.2873	\$1.6090

Conditions of Contract:

The customer shall pay the total of the customer charge plus the volume charge. The volume charge is based on all metered water for the billing period. Consumption is expressed in hundred cubic foot units or thousand gallon units as determined by the meter installed by the Company. The customer charge will be prorated whenever the customer has not been a customer for the entire billing period.

Summer Period:

The summer rate will apply to water consumed between May 1 and September 30. Meter readings straddling these dates will be prorated.

UNITED  
Issued Per IPUC Order No.  
Effective –

Issued by UNITED WATER IDAHO INC.  
Gregory P. Wyatt, Vice President  
8248 West Victory Road, Boise, Idaho

**UNITED WATER IDAHO INC.**

---

**SCHEDULE NO. 1B**  
**FLAT RATE SERVICE**

**Availability:**

To non-metered residential customers pursuant to Residential or Multi-Family Housing Non-Contiguous Water Systems Agreement Paragraph 11(a) addressing flat rate systems.

**Customer Charges:**

Based on United Water Idaho residential consumption for the year ending October 2005 of 186ccf, the average residential bill, assuming a ¾" meter and 55% / 45% summer/winter split, is \$ 374.76. Billed bi-monthly, equals \$ 62.46.

**Bi-monthly Charge:**                      \$ 62.46

**Conditions of Contract:**

The bi-monthly charge will be prorated whenever the customer has not been a customer for the entire billing period. The Company or the customer may convert to metered service pursuant to Subparagraphs (b) or (c) of Paragraph 11 as follows:

- (b) If Company should determine that a flat rate customer is using water in excess of the average residential customer, the Company will provide a meter setting and meter. Customer will then pay Company's metered tariff rates as approved by the IPUC, which rates may be amended from time to time.
- (c) If a customer prefers to pay Company's approved metered tariff rates, the customer shall pay the installation and material costs associated with the installation of a meter setting.

---

UNITED  
Issued Per IPUC Order No.  
Effective –

Issued by UNITED WATER IDAHO INC.  
Gregory P. Wyatt, Vice President  
8248 West Victory Road, Boise, Idaho



**UNITED WATER IDAHO INC.**

---

**SCHEDULE NO. 3**  
**PRIVATE FIRE SPRINKLER AND SERVICE**

Availability:

To all customers who have sprinkler systems and/or inside hose connections for fire fighting purposes.

Rate:

For service through a separate line for fire fighting purposes.

For 3" service or smaller, per month	\$ 15.07
For 4" service per month	22.85
For 6" service per month	56.76
For 8" service per month	93.26
For 10" service per month	145.45
For 12" service per month	217.87

Miscellaneous:

Provided that if the installation of a private fire service shall require an extension of the existing mains of the company, the cost of such extension shall be borne by the customer.

All private fire services shall be equipped with sealed gate valves or thermal automatic openings.

Meters may be placed on fire services by the utility at any time; however, metered rates will not apply unless improper use of water is disclosed, and if such be the case, usage will be billed to the consumer under Rate Schedule No. 1.

---

UNITED  
Issued Per IPUC Order No.  
Effective –

Issued by UNITED WATER IDAHO INC.  
Gregory P. Wyatt, Vice President  
8248 West Victory Road, Boise, Idaho

Sheet No. 5  
Replacing all Previous Sheets

**UNITED WATER IDAHO INC.**

---

**SCHEDULE NO. 4  
PRIVATE FIRE HYDRANT SERVICE**

**Availability:**

To all customers having private fire hydrant installations.

**Rate:**

For fire hydrants installed and maintained by the customer at customer's expense:

Each fire hydrant, per month	\$ 9.13
------------------------------	---------

**Miscellaneous:**

Service pipe from the fitting on the company water main to the fire hydrant is to be installed and maintained by the customer.

---

UNITED  
Issued Per IPUC Order No.  
Effective –

Issued by UNITED WATER IDAHO INC.  
Gregory P. Wyatt, Vice President  
8248 West Victory Road, Boise, Idaho

Exhibit 2  
F. Gradilone  
Schedule 2  
Page 5 of 5