



WHY DOES IT TAKE LONGER TO COOK THINGS IN BOILING WATER IN WOODMOOR?

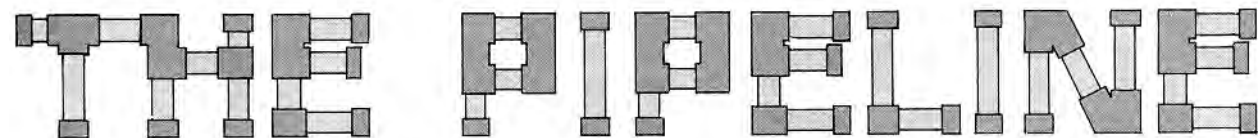
The temperature at which water boils depends on the atmospheric pressure. Atmospheric pressure depends on the weight of the air *above* any location. At sea level, the weight of the atmosphere “pushes down” with a pressure of 14.7 psi and water boils at 212° F (100° C). Go up into the mountains, however, and you are now above part of the atmosphere, so there is less air above you to make pressure. The lower the pressure, the lower the temperature at which water boils. The temperature at which water boils goes down about 2° F (1° C) for each 1,000 feet of elevation. If you are camping in the mountains at 10,000 feet, water would boil at only 201° F (94° C). At this lower temperature, it will take longer to cook things.

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FIRST QUARTER

2003

WHAT'S GOING ON AT THE WOODMOOR WATER AND SANITATION DISTRICT?

This year has been one where the realities of living in a semi-arid region came into sharp focus as a multi-state drought continued. Many Colorado cities that depend upon surface water impounded in reservoirs from the spring snow melt had to go on water restrictions to stretch their available water supplies and watering and other outdoor water uses were restricted. This did not happen in the Woodmoor Water and Sanitation District (WWS) because our water comes from 14 wells that pump water from the Dawson, Denver and Arapahoe aquifers that underlie Woodmoor. These aquifers are collectively known as the Denver Basin, and are a non-renewable source of water and are currently our only supply of water. These aquifers also constitute the water supply for other developing areas such as Bent Tree, Gleneagle, Kings Deer and Monument.

Supply and conservation are the two parts of the equation that must be balanced to obtain a reliable water supply for WWS customers. Both parts of the equation will be discussed in this newsletter, first the supply side and then the conservation side.

THE SUPPLY SIDE

The Staff and Board of Directors of WWS have developed a long-range plan and undertaken a number of projects this year that will insure the availability and quality of water for the District's residents for many years into the future. These three projects are interrelated and are currently under way and will be discussed in turn. They are the Monument Creek Exchange system, the South Filter Plant expansion and Lake Woodmoor.

MONUMENT CREEK EXCHANGE SYSTEM

Because wastewater from WWS that passes through the Tri-Lakes Wastewater Plant is derived from aquifers and is released as surface water into Monument Creek, the WWS has exchange water rights and can divert a legally defined amount of water from Monument Creek. The exchange system is intended to divert water from the Creek during high flow periods from the spring snow melt and heavy rain falls and store it in Lake Woodmoor for use as irrigation water in the summer for the golf course and school athletic fields. This will relieve demand on the District's potable water supply. Later, the possibility also exists for treating the diverted water stored in Lake Woodmoor for potable use also. In any case, the use of exchange water for irrigation will extend the life of the aquifers. The exchange system pipelines are scheduled to be completed in January, 2003.

LAKE WOODMOOR

With the acquisition of Lake Woodmoor, WWS now has a storage facility so that water can be diverted from Monument Creek and stored for peak irrigation season needs. Considerable work has been done to stabilize the shoreline on the north side of the Lake to protect resident's property. In addition, the lake level is being drawn down prior to building a pump gallery that will house all the necessary pumps, valves and the control system necessary to transfer water into and out of the Lake. Initially this stored water is intended for use as nonpotable irrigation water for the golf course and school athletic fields when completed in the Spring of 2003.

THE SOUTH FILTER PLANT

A new water treatment plant is being built at Leggins Way. This plant will have the capability to process and purify 4 million gallons of water daily. Generally, the water obtained from the various Denver Basin aquifers is of good quality and requires only minimal treatment. As needed, the water produced is filtered and chlorinated. In addition, if the water has a high iron or manganese content, it is treated with potassium permanganate to remove these minerals and the PH is adjusted with caustic soda to control corrosion.

This expanded capacity will handle any additional wells that may be added to supply water to the system and can also treat water from Lake Woodmoor to augment the supply of potable water if needed in the future. The facility should be up and running by June 2003. In addition, the landscaping at this facility will include xeriscaping and drought resistant plants that have much lower water requirements as examples of what our residents might want to consider as new or replacement landscaping.

TRI-LAKES WASTE WATER TREATMENT PLANT

Enclosed is a copy of an informational brochure on the Tri-Lakes Wastewater Plant. The plant is a joint, cooperative effort between Palmer Lake, Monument and Woodmoor. This award winning plant treats the wastewater from all three communities. The treated wastewater effluent that is discharged into Monument Creek consistently falls well below the maximum State permitted contaminate limits. The continued efficient and cost effective operation of this plant has allowed the WWSD to leave the sewer rate unchanged for 2003.

THE CONSERVATION SIDE

Because the aquifers that supply our water are considered non-renewable, conservation is very important and to that end, a new, tiered water rate schedule has been developed to encourage conservation and which will hopefully result in a 10 percent decrease in use. This new rate schedule is shown on the next page. The Directors and Staff have made changes that will impact both large and small volume residential users. These rates become effective December 16, 2002 and will be reflected on your January, 2003 billing.

First of all, the Snow Bird and Vacation Rate Policy has been changed. You will no longer have to inform WW&SD that your residence is vacant or that you will be on vacation for an extended period of time. Instead, any month that your water usage falls below 500 gallons, you will be billed a \$4.86 service charge plus water used plus one half of the sewer rate. For example: if only 200 gallons are metered for a month, the charge would now be \$ 16.00 versus the old \$ 22.50 charge, a decrease of \$6.50.

If you were to use exactly 6000 gallons of water in a month, your new combined sewer and water bill would be \$46.74 versus the current \$45.00, an increase of \$1.74. On the other hand, if your monthly usage were only 5000 gallons, your new combined bill would be \$43.24 versus the current \$45.00, a decrease of \$1.76.

It is estimated that between 50-60 % of the water used annually by our residents is for the irrigation of lawns and landscaping. If you are wondering how much water you might use for watering, average your water use in December, January and February with that used in June, July and August. The difference in average water use between these two periods will represent that used primarily for irrigation.

Some suggested indoor water conservation tips that you may find useful are listed on the next page. Additional information can be found at the Woodmoor Water and Sanitation District web site at WWW.Woodmoorwater.com.

MUCH MORE DETAILED INFORMATION ON INDOOR AND OUTDOOR WATER SAVING TIPS CAN BE FOUND AT WWW.h2ouse.org and WWW.Woodmoorwater.com
*In addition, the Woodmoor Water and Sanitation District office has copies of water conservation information and xeriscape suggestions.
Just drop by at 1845 Woodmoor Drive and pick up a copy if you wish.*

INDOOR WATER CONSERVATION TIPS

Conservation is important even in the wintertime when irrigation requirements are low. Conservation can have a significant impact on the overall system costs and availability of water. A slow drip from one of your faucets could waste 10-15 gallons of water a day. By fixing the leak you can save several thousand gallons of water a year. The following list of tips may give you some ideas of areas where your family might be able to conserve water indoors.

1. Check faucets for leaks/dripping and repair.
2. Check toilets for running after flushing and repair.
3. Install water saving showerheads or flow restrictors.
4. Consider taking showers instead of baths.
5. Consider installing low flow toilets that use 1.6 gallons per flush.
6. Use your dishwasher only for full loads.
7. Do not let water run while trimming and cleaning vegetables.
8. Use your washing machine only for full loads.

2003 RESIDENTIAL WATER AND SEWER RATE SCHEDULE

The WWSD Residential rates for 2003 are as follows:

Sewer: \$20.88 (Monthly flat fee)

Water: \$4.86 (Monthly Service Charge)

Total: \$25.74 plus water used as listed below:

Use up to 6,000 gallons per month -----	\$25.74 plus an extra \$3.50/1000 gal.
Use of 6,001 to 12,000 gallons per month -----	\$46.74 plus an extra \$4.75/1000gal.
Use 12,001 to 20,000 gallons per month -----	\$75.24 plus an extra \$5.50/1000gal.
Use 20,001 to 35,000 gallons per month -----	\$119.24 plus an extra \$7.00/1000 gal.
Use 35,001 to 50,000 gallons per month -----	\$224.24 plus an extra \$8.00/1000 gal.
Use 50,001 to 100,000 gallons per month -----	\$344.24 plus an extra \$9.00/1000 gal.
Use 100,001 to 200,000 gallons per month -----	\$794.24 plus an extra \$10.00/1000 gal.
Use 200,001 to 500,000 gallons per month -----	\$1794.24 plus an extra \$11.00/1000 gal.
Use more than 500,001 gallons per month -----	\$5094.24 plus an extra \$12.00/1000 gal.

Note: For residents that use 500 gallons or less per month, the fee will be the \$4.86 water service charge plus water used plus \$10.44 (one half the monthly sewer fee).

YOUR WW&SD STAFF & DIRECTORS

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