

WARREN COUNTY WATER DISTRICT  
WATER SHORTAGE RESPONSE PLAN

(Based on Kentucky Water Shortage Response Plan – Revised 6/88)

The KY Natural Resources and Environmental Protection Cabinet has established a Drought Notification System based on weather monitoring data, water resource scientists and federal, state, and local agencies. Two levels of water shortage conditions have been identified.

1. **Water Shortage Watch**

The Cabinet will announce a Water Shortage Watch when water supply data indicate the potential for water shortages. Local governments and water utility managers are responsible for determining the need for local response and for making preparations for water shortages. The Cabinet must be kept informed of all shortages and actions taken in response to the shortage so the lifting of such measures can be accomplished.

Specific measures WCWD shall take when the Kentucky Division of Water issues a Water Shortage Watch are:

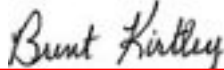
- a) Monitor water supplies daily. Refer to Section 2 “Evaluating Vulnerability to Water Shortages” to determine how much water the community has available and how much will be needed.
- b) Notify the Judge Executive if conditions indicate an inability of the treatment plant to supply the needs of the customers so the appropriate water shortage phase can be activated according to the severity of the conditions.
- c) Keep the Cabinet informed of all actions taken.

2. **Water Shortage Warning**

The Cabinet will announce a Water Shortage Warning when one or more water supply systems in an area have entered the emergency phase of a water shortage. Local governments and water utility managers should have already adopted water shortage response plans in their areas, and most systems should be in some phase of response to the shortage.

Specific measures WCWD shall take when the Kentucky Division of Water issues a Water Shortage Warning are:

- a) Continue to monitor raw water supplies and system demand daily.
- b) Notify the Judge Executive if conditions indicate an inability of the treatment plant to supply the needs of the customers so an appropriate water shortage phase can be activated according to the severity of the conditions.
- c) Keep the Cabinet informed of all actions taken.

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Should water supply data and/or system demand data indicate an inability to supply customers at current operational levels WCWD shall notify the Judge Executive, who shall issue a water shortage notification to the public based on the severity of the situation. Notifications in order of severity are:

1. **Advisory Phase**
  - Issue water shortage advisory
  - Set conservation goals and prepare for decreasing supply
  - Inform the public about the potential problem
  - Request voluntary conservation (Except only 5-15% reduction in demand)
  
2. **Alert Phase**
  - Issue water shortage alert
  - Set more stringent conservation goals
  - Restrict Class 3, non-essential, water uses to odd/even schedule
  - Request voluntary conservation for all water use
  - Inform the public about the problem
  - Monitor compliance with the restrictions on Class 3 use and enforce when necessary
  
3. **Emergency Phase**
  - Issue water shortage emergency declaration
  - Set more stringent conservation goals
  - Ban all Class 3 and restrict all Class 2 water uses
  - Inform the public
  - Enact conservation pricing
  - Monitor all drought-related activities, especially compliance with the bans. Enforce as necessary
  
4. **Rationing Phase**
  - Begin mandatory allocations of water
  - Immediately reduce usage by 25 percent
  - Ban Class 3 uses, restrict Class 2 and Class 1 water uses
  - Inform the public
  - Enact Conservation pricing
  - Set new conservation goals and monitor all shortage-related activities, especially compliance with the allocations. Enforce as necessary



## Evaluating Vulnerability to Water Shortages

Three conditions exist which can create water shortage:

1. **Inadequate raw water supply**

- Big Barren River is controlled by the flood control dam at Barren River Lake operated by the Army Corps of Engineers.

2. **Increasing demand exceeding treatment capacity**

- Bowling Green Municipal Utilities owns and operates the Water Treatment Plant which supplies water on a contractual basis to Warren County Water District.
- BGMU has a Water Shortage Supply Plan similar to Warren County Water District.

3. **Increased demand exceeding distribution system capacity from BGMU**

WCWD purchases treated water from BGMU and may implement various phases of the Water Shortage Response Plan if there are problems with the water transmission system supplying water to the distribution system.

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EXAMPLES OF PRESS RELEASES

**Advisory Phase**

Warren County, KY – Due to the recent abnormally dry weather conditions and little indication of significant rainfall in the foreseeable future, residents of Warren County should begin conserving water. For the month(s) of \_\_\_\_\_, Warren County received only \_\_\_\_\_ percent of normal rainfall for the comparable period. The 30-day outlook from the National Weather Service calls for more abnormally dry weather.

The State of Kentucky has declared a local water shortage ADVISORY. At this time, there is an immediate need to begin voluntary conservation measures.

According to officials at the Kentucky Division of Water, consumers can cut water use by as much as 15% with very little difficulty or discomfort by using voluntary water conservation practices.

All non-essential uses of water should be minimized, such as watering lawns, washing cars, and hosing off pavement.

If everyone cooperates, the water usage in Warren County can be cut significantly. If you have questions or suggestions, please contact \_\_\_\_\_ at (270) 526-4656.

**Alert Phase**

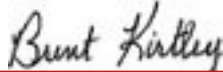
Warren County, KY – A water shortage ALERT has been declared for the Warren County Water District service area.

(Describe the supply situation, given unrestricted water demand.)

Under the ALERT, and in order to ensure adequate supplies for necessary uses, citizens are urged to practice conservation in all use of water. Non-essential water use is restricted according to the following schedule:

1. Outside use for addresses ending in an odd number shall be limited to Tuesdays, Thursdays and Saturdays.
2. Outside use for addresses ending in an even number shall be limited to Wednesdays, Fridays and Sundays.

Non-essential use includes ornamental watering, filling of swimming pools, washing of motor vehicles, driveway or pavement washing, refilling of air conditioning cooling towers, and the serving of water in restaurants except by request.

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Conservation of all water uses, accompanied by these restrictions, can reduce water use by 15 – 30 percent. Warren County Water District customers can extend limited water supplies, avoiding further restrictions, by observing these bans and conserving water at all times.

(Project results of compliance)

If everyone cooperates, the water usage in Warren County can be cut significantly. If you have questions or suggestions, please contact \_\_\_\_\_ at (270) 526-4656.

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## Definitions of Classes of Water Uses

### Class 1 (Essential uses)

- Water necessary to sustain human life and pets, and to maintain minimum standards of hygiene and sanitation
- Patient care and rehabilitation
- Water hauling sales for domestic use where not reasonably available elsewhere
- Firefighting
- Health and public protection purposes as approved by health officials and municipal governing body

### Class 2 (Socially and Economically Important uses of Water)

- Personal, in-house water use including kitchen, bathroom and laundry
- Water hauling sales for non-domestic use when other sources are not reasonably available elsewhere
- Commercial car and truck washes
- Laundromats
- Restaurants, clubs, and eating places
- Schools, churches, motels/hotels and similar establishments
- Minimal watering of vegetable gardens
- Minimal watering of trees where necessary for their survival
- Agricultural irrigation of the production of food and fiber or the maintenance of livestock
- Watering by public gardens of community significance where necessary to preserve specimens
- Watering by commercial nurseries where necessary to maintain stock
- Watering where necessary to establish or maintain revegetation or landscape plantings required pursuant to law or regulation
- Watering of woody plants where necessary to preserve them
- Minimal water of golf course greens
- Operation of municipal swimming pools and residential pools that serve more than 25 dwelling units
- Air conditioning refilling for startup at the beginning of the cooling season
- Makeup of water during the cooling season
- Refilling of AC's specifically approved by health officials and the municipal governing body, where the system has been drained for health protection or repair services

### Class 3 (Non-essential Uses)

- Use of fire hydrants other than Class 1 & 2 uses, including use of sprinkler caps, testing fire apparatus, and fire department drills
- Flushing of sewers and hydrants except as needed to ensure public health and safety as approved by health officials and the municipal governing body
- Serving water in restaurants, clubs, or eating places except by customer request
- Failure to repair a controllable leak
- Increasing water levels in scenic and recreational ponds and lakes, except as necessary to support fish and wildlife
- Filling fountains, reflecting pools and artificial waterfalls

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- Watering of annual or non-woody plants, lawns, parks, golf course fairways, playing fields and other recreational areas
- Washing down buildings or structures for purposes other than immediate fire protection
- Flushing gutters or permitting water to run or accumulate in any gutter or street
- Expanding nursery facilities, placing new irrigated agricultural land in production, or planting of landscaping except when required by a site design review process
- Use of water for dirt control or compaction
- Watering of lawns, parks, golf course fairways, playing fields and other recreational areas
- Washing sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surface areas
- Recreational uses other than those specified as Class 2
- Non-commercial washing of motor and other vehicles
- Refilling air conditioning cooling towers after draining

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COMMONWEALTH OF KENTUCKY  
COUNTY OF WARREN

WARREN FISCAL COURT

RESOLUTION NO. 99-30WC

**RESOLUTION PROVIDING FOR WATER  
SHORTAGE RESPONSE**

(A.) The purpose of this Resolution is to provide for the declaration of official phases of water supply shortage situations and the implementation of voluntary and mandatory water conservation measures throughout the City of Bowling Green and Warren County in the event a shortage is declared.

(B.) Whenever the General Manager or the acting General Manager of Bowling Green Municipal Utilities and the Manager or the acting Manager of the Warren County Water District, the public purveyors of potable water in the City of Bowling Green and Warren County, find that a potential shortage of the supply of treated water exists or will exist, upon written certification thereof to the Mayor of the City of Bowling Green and the Judge Executive of Warren County, the Mayor and the Judge Executive may publicly declare a "Water Shortage Advisory". In addition to the declaration, the Mayor and the Judge Executive shall call upon all customers of Bowling Green Municipal Utilities and the Warren County Water District to employ voluntary water conservation and to eliminate the waste of all treated water.

(C.) Whenever the General Manager or the acting General Manager of Bowling Green Municipal Utilities and the Manager or the acting Manager of the Warren County Water District, the public purveyors of potable water in Bowling Green and Warren County

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County, find that a condition exists where they will not be able to meet the expected needs of their customers, upon written certification thereof to the Mayor of the City of Bowling Green and the Judge Executive of Warren County, the Mayor and the Judge Executive may publicly declare a "Water Shortage Alert". In addition to the declaration, the Mayor and the Judge Executive may call upon all customers of Bowling Green Municipal Utilities and Warren County Water District to employ voluntary water conservation, and to eliminate the waste of all treated water and to use treated water outside of buildings (such usage to include, but not limited to, car washing, driveway washing, filling of swimming pools; use and filling of fountains and watering of lawns, bushes and trees) only in accordance with the following schedule:

- (1) Outside use for addresses ending in an odd number shall be limited to Tuesdays, Thursdays and Saturdays; and
- (2) Outside use for addresses ending in an even number shall be limited to Wednesdays, Fridays and Sundays.

(D.) Whenever the General Manager or the acting General Manager of Bowling Green Municipal Utilities and the Manager or acting Manager of the Warren County Water District, the public purveyors of potable water in Bowling Green and Warren County, find that Bowling Green Municipal Utilities and Warren County Water District are unable to meet the expected needs of their customers and that such a condition will exist for some period of time in the future, and upon written certification thereof to the

Mayor of the City of Bowling Green and the Judge Executive of Warren County,

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Mayor and the Judge Executive may publicly declare a "Water Shortage Emergency". In addition to the declaration, the Mayor and Judge Executive may call upon all customers of Bowling Green Municipal Utilities and Warren County Water District to employ voluntary water conservation, and to eliminate the waste of all treated water, to eliminate the use of water outside of buildings, and to use water only as necessary to maintain minimum standards of hygiene and sanitation, and to provide for essential health and public protection purposes.

(E.) Whenever the Mayor and Judge Executive have declared a "Water Shortage Alert" or "Water Shortage Emergency" pursuant to Subsections (C.) or (D.) of this section, they or Bowling Green Municipal Utilities and Warren County Water District may promulgate such administrative regulations governing all water usage in Bowling Green and Warren County by all customers of Bowling Green Municipal Utilities and the Warren County Water District as may, in the discretion of the Mayor and Judge Executive, appear necessary to protect the health and public safety of the residents in Bowling Green and Warren County in a manner consistent with the terms of this section.

(F.) The declaration of a water shortage advisory, water shortage alert or water shortage emergency shall continue until the General Manager or the acting General Manager of Bowling Green Municipal Utilities and the Manager or the acting Manager of the Warren County Water District find that the conditions calling for the declaration no longer exist, and upon written certification thereof to the Mayor of the City of Bowling Green and Judge Executive of Warren County, the Mayor and the Judge Executive may

KEN BOWLING PUBLIC SERVICE COMMISSION
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publicly declare the condition no longer existing.

(G.) In the event there is a water supply shortage in the service area of either Bowling Green Municipal Utilities or Warren County Water District, but not both, then the appropriate member of management of the utility experiencing the shortage shall only make the certifications referred to above to the public official who appoints the members of its governing body and that public official may act alone as provided above.

(H.) Any person who violates the provisions of Subsection (C.) of this section shall be subject to a fine not to exceed two hundred fifty dollars (\$250.00). Any person who violates the provisions of Subsection (D.) of this section shall be subject to a fine not to exceed two hundred fifty dollars (\$250.00) and up to ninety (90) days imprisonment. Each day in violation of the terms of Subsections (C.) or (D.) of this section shall constitute a separate offense.

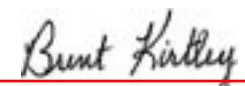
Passed this 6 day of August, 1999.

  
MICHAEL O. BUCHANON  
WARREN COUNTY JUDGE EXECUTIVE

Passed by a vote of 7 to 0

ATTESTED BY:

  
MARIE SMITH  
WARREN FISCAL COURT CLERK

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ORDINANCE NO. BG99 - 37

ORDINANCE AMENDING CODE OF ORDINANCES

ORDINANCE CREATING NEW SECTION OF  
CHAPTER 23 (WATER AND SEWER) RELATED TO  
WATER SHORTAGE RESPONSE

WHEREAS, the Bowling Green Municipal Utilities and the Warren County Water District have recommended that the City Commission and Warren County adopt a water shortage response program to provide for the declaration of official phases of water supply shortage situations and the implementation of voluntary and mandatory water conservation measures throughout the City of Bowling Green and Warren County in the event a shortage is declared; and

WHEREAS, the Board of Commissioners hereby determines that it is in the best interests of the City to adopt such a program.

NOW, THEREFORE, BE IT ORDAINED by the City of Bowling Green, Kentucky, as follows:

1. A new subsection of Chapter 23 (Water and Sewer) is created to read as follows:

23-2.28 Water Shortage Response.

a. Whenever the General Manager or the acting General Manager of Bowling Green Municipal Utilities (BGMU) and the Manager or the acting Manager of the Warren County Water District, the public purveyors of potable water in the City of Bowling Green and Warren County, find that a potential shortage of the supply of treated water exists or will exist, upon written certification thereof to the Mayor of the City of Bowling Green and the Judge Executive of Warren County,

the Mayor and the Judge Executive may publicly declare a "Water Shortage Advisory." In addition to the declaration, the Mayor and the Judge Executive shall call upon all customers of BGMU and the Warren County Water District to employ voluntary conservation and to

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 PURSUANT TO 807 KAR 5:011 SECTION 9 (1)

(Ordinance No. BG99 - 37)

eliminate the waste of all treated water.

- b. Whenever the General Manager or the acting General Manager of BGMU and the Manager or the acting Manager of the Warren County Water District, the public purveyors of potable water in the City and Warren County, find that a condition exists where they will not be able to meet the expected needs of their customers, upon written certification thereof to the Mayor and the Judge Executive of Warren County, the Mayor and Judge Executive may publicly declare a "Water Shortage Alert." In addition to the declaration, the Mayor and Judge Executive may call upon all customers of BGMU and the Warren County Water District to employ voluntary water conservation and to eliminate the waste of all treated water and to use treated water outside of buildings (such usage to include, but not limited to, car washing, driveway washing, filling of swimming pools, use and filling of fountains and watering of lawns, bushes and trees) only in accordance with the following schedule:

- (1) Outside use for addresses ending in an odd number shall be limited to Tuesdays, Thursdays and Saturdays; and
- (2) Outside use for addresses ending in an even number shall be limited to Wednesdays, Fridays and Sundays.

- c. Whenever the General Manager or the acting General Manager of BGMU and the Manager or the acting Manager of the Warren County Water District find that BGMU and the Water District are unable to meet the expected needs of their customers and that such a condition will exist for some period of time in the future, and upon written certification thereof to the Mayor and Judge Executive of Warren County, the Mayor and Judge Executive may publicly declare a "Water Shortage Emergency." In addition to the declaration, the Mayor and Judge Executive may call

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(Ordinance No. BG99 - 37)

upon all customers of BGMU and the Water District to employ voluntary water conservation and to eliminate the waste of all treated water, to eliminate the use of water outside of buildings and to use water only as necessary to maintain minimum standards of hygiene and sanitation and to provide for essential health and public protection purposes.

- d. Whenever the Mayor and Judge Executive have declared a "Water Shortage Alert" or "Water Shortage Emergency" pursuant to paragraph b and c of this subsection, they or BGMU and the Warren County Water District may promulgate such administrative regulations governing all water usage in Bowling Green and Warren County by all customers of BGMU and the Water District as may, in the discretion of the Mayor and Judge Executive appear necessary to protect the health and public safety of the residents in Bowling Green and Warren County in a manner consistent with the terms of this subsection.
- e. The declaration of a water shortage advisory, water shortage alert or water shortage emergency shall continue until the General Manager or the acting General Manager of BGMU and the Manager or the acting Manager of the Warren County Water District find that the conditions calling for the declaration no longer exist and upon written certification thereof to the Mayor and Judge Executive, the Mayor and Judge Executive may publicly declare the condition no longer existing.
- f. In the event there is a water supply shortage in the service area of either BGMU or Warren County Water District, but not both, then the appropriate member of management of the utility experiencing the shortage shall only make the certifications referred to above to the public official who appoints the members of its governing body and that public official may act alone as provided above.

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DAVID M,  
WILL H.

(Ordinance No. BG99 - 37)

g. Any person who violates the provisions of paragraph b of this subsection shall be subject to a fine not to exceed two hundred fifty dollars (\$250.00). Any person who violates the provisions of paragraph c of this subsection shall be subject to a fine not to exceed two hundred fifty dollars (\$250.00) and up to ninety (90) days imprisonment. Each day in violation of the terms of paragraph b and c of this subsection shall constitute a separate offense.

2. The provisions of this Ordinance are hereby declared to be severable and, if any section, phrase or provision shall, for any reason, be declared invalid, such declaration of invalidity shall not affect the validity of the remainder of this Ordinance.

3. All prior Municipal Orders or Ordinances or parts of any Municipal Order or Ordinance in conflict herewith are hereby repealed.

4. This Ordinance is adopted pursuant to KRS 83A.060 in that it was introduced on August 9, 1999, and given final reading on August 10, 1999, and said Ordinance shall be in full force and effect upon signature, recordation and publication in summary pursuant to KRS Chapter 424.

ADOPTED: August 10, 1999

APPROVED: Ellon J. Renaud  
Mayor, Chairman of Board of Commissioners

ATTEST: Janita Taylor Leigh, (cmc)  
City Clerk

SPONSORED BY: Kirby L. Ramsey, Acting City Manager, 08/06/99, 3:05 p

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<b>7 ASHFLE BRANCH</b>	
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<b>PURSUANT TO 807 KAR 5:011 SECTION 9 (1)</b>	