

HARDIN COUNTY WATER DISTRICT NO. 1

409 WEST LINCOLN TRAIL BOULEVARD

P.O. BOX 489

RADCLIFF, KENTUCKY 40160

W A T E R S H O R T A G E R E S P O N S E P L A N

Revised: July 20, 1988

Approved by Kentucky Public Service Commission
by order dated July 18, 1988

PUBLIC SERVICE COMMISSION
OF KENTUCKY
EFFECTIVE

JUL 26 1988

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

BY: *George H. Miller*
PUBLIC SERVICE COMMISSION MANAGER

1. **PURPOSE:** To enforce water conservation measures and to allow for equitable and fair distribution of available water during water shortage situations.
2. **APPLICABILITY:** The provisions of this plan shall apply to all customers (retail and wholesale) of Hardin County Water District No. 1. When implemented, this plan becomes Hardin County Water District No. 1 Water Shortage Response Regulation.
3. **DETERMINATION OF WATER SHORTAGE:** Water supply and usage will be monitored on a continuous basis. Projected demand will be calculated at the beginning of each month. This calculation will be done according to the format shown at Appendix 1. A water shortage may occur in stages, gradually, due to decreasing supplies caused by lack of rainfall or it may occur rapidly due to mechanical failures, contamination or other unforeseen or unavoidable reasons. Official declaration of water shortage stages and implementation of the measures authorized to curtail water use will be approved by the Board of Commissioners of Hardin County Water District No. 1 based on information provided, and recommendations made, by the General Superintendent. In accordance with State Division of Water recommendations, any water shortage declaration imposed due to decreased raw water supplies should remain in effect until thirty (30) days after water supplies have returned to normal level. A final determination as to terminating a water shortage declaration will be made by the Board of Commissioners, Hardin County Water District No. 1.

4. **WATER SHORTAGE CRITERIA, CONSERVATION AND CURTAILMENT MEASURES:**

A. **Advisory Stage:**

1. **Criteria:** The amount of treated water available is at least 5% and not more than 10% below projected demand*, and/or there are periods of low water pressure in one or more areas of the distribution system due to low water supply, or the State Division of Water has issued a Water Shortage Watch which includes the areas from which the District draws water.

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2. **Conservation and Curtailment Measures:**

- a. Declare a Water Shortage by.
- b. Provide notice to all local news media (Appendix 2).
- c. Request voluntary conservation by all metered customers.
- d. Reduce water normally provided to wholesale customers by the same percentage as the shortage being realized.

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B. Alert Stage:

1. Criteria: The amount of treated water available is at least 10% and not more than 15% below projected demand*, and/or there is consistent low pressure in one or more areas of the distribution system due to low water supply.

2. Conservation and Curtailment Measures:

- a. Declare Water Shortage Alert.
- b. Provide notice to all local news media (Appendix 3).
- c. Prohibit all Class 3 uses which are defined as:

Decorative fountains, reflecting pools, artificial waterfalls, and any other decorative uses of water.

Watering of gardens, lawns, parks, golf courses (except greens), playing fields and other recreation areas.

Filling of public, private, commercial, or residential swimming and wading pools.

Filling of ponds.

Personal washing of motor vehicles, boats and trailers, driveways, etc.

Serving water in restaurants, clubs, or eating places unless specifically requested by the customer.

Enforcement of water use restrictions are explained in paragraph 8, Enforcement.

- d. A 25% Excess Usage Fee may be levied on all water used in excess of 500 gallons per billing cycle by each retail customer when and if Hardin County Water District No. 1 determines that the desired 15% conservation has not been realized. ~~and~~ when such a fee is imposed, it will be effective at the beginning of each customer's billing cycle. Fees will remain in effect through the end of the billing cycle in which the fee is discontinued.

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- e. Reduce water normally provided to wholesale customers by the same percentage as the shortage being realized.

C. Emergency Stage:

1. Criteria: The amount of treated water available is at least 15% and not more than 20% below projected demand*, or there are periods of no pressure in one or more areas of the distribution system due to low water supply.
2. Conservation and Curtailment Measures:
 - a. Declare Water Shortage Emergency.
 - b. Provide notice to all local news media (Appendix 4).
 - c. Prohibit all Class 3 and Class 2 uses of water. These Class 2 uses of water are defined as:

Watering by landscape nurseries.

Agricultural irrigation.

Watering of golf course greens.

Commercial car and truck washes.

Enforcement of water use restrictions are explained in paragraph 8, Enforcement.
 - d. A 50% Excess Usage Fee may be levied on all water used in excess of 2,000 gallons per billing cycle by each retail customer when and if Hardin County Water District No. 1 determines that the desired 20% conservation has not been realized. If and when such a fee is imposed, it will be effective at the beginning of each customer's billing cycle. Fees will remain in effect through the end of the billing cycle in which the fee is discontinued.
 - e. Reduce water normally provided to wholesale customers the same percentage as the shortage being realized.

D. Rationing Stage:

1. Criteria: Treated water available is greater than 20% below projected demand*, and in the opinion of the Hardin County Water District No. 1 Board of Commissioners requires mandatory rationing to insure adequate water is available to maintain public health and sanitation and provide fire protection service.

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2. Conservation and Curtailment Measures:

- a. Declare Water Shortage Rationing.
- b. Provide notice to all local news media (Appendix 5).
- c. Provide Rationing Stage Notice (see Appendix 5) to local media informing customers that rationing is in effect, that some interruptions of service may occur and that a fee is still in effect.
- d. Implement service interruptions to portions of system in accordance with approved published schedule. This schedule will be developed by Water District officials based upon the various and specific conditions associated with the emergency at hand. The schedule will be provided to all local media, and will be made available by telephone and at the District office.
- e. Continue to prohibit all Class 3 and Class 2 uses of water. Water may be used only for Class 1 Essential Uses which include:

Essential Domestic Use - Water necessary to sustain human life and the lives of domestic pets and livestock and to maintain minimum standards of hygiene and sanitation.

Health Care Facilities - patient care and rehabilitation.

Public Use - Firefighting; health and public protection purposes.

* - Projected Demand will be calculated using the format shown at Appendix 1.

5. EXCESS USAGE FEES:

- A. All funds received from Excess Usage Fees shall be placed in a separate account which may be used only for these purposes, and subject to approval by the Public Service Commission:
 - 1. To offset loss of revenue from ~~depressed~~ water sales.
 - 2. To offset increased operating expenses directly attributable to the water shortage.

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3. To develop additional water sources, improve existing sources of water supply, or to help alleviate the water shortage problem.

B. Such funds shall be subject to general refund, if ordered by the Public Service Commission.

6. WHOLESALE CUSTOMERS:

Excess Usage Fees shall not apply to any wholesale customer that has adopted and is currently enforcing a water shortage response plan that is substantially similar to Hardin County Water District No. 1's plan. In addition, when Hardin County Water District No. 1 declares a certain stage of the plan, then the wholesale customer must simultaneously declare the same stage.

7. REQUEST FOR EXEMPTION:

A. Exemption to water use Restrictions: If compliance with the conservation and curtailment measures authorized herein would cause a consumer to bear extraordinary hardship, that individual or entity may apply to the Water District for an exemption. For these purposes, "extraordinary hardship" shall be defined as a condition which may threaten health and safety, or which may cause property or economic losses, each of which must be shown to be substantially more severe than the sacrifices borne by other users in the District. If found by the Water District that extraordinary hardship exists, then an exemption may be granted and a written waiver for that customer may be issued. Water service will be continued until the District's decision is announced. Any person aggrieved by the decision of the Water District may file a complaint with the Public Service Commission.

B. Exemption to Excess Usage Fees: All Excess Usage Fees that are imposed must be paid. No exemptions from payment will be allowed.

8. ENFORCEMENT of Water Use Restrictions on use of water during declared water shortage stages.

Any person who violates the provisions of this regulation, who fails to carry out the duties and responsibilities imposed by this regulation, or who impedes or interferes with any action undertaken or ordered pursuant to this regulation shall be subject to the following:

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- A. A written notice of the violation of any water use restriction imposed pursuant to these regulations shall be affixed to the property where the violation occurred and mailed to the customer of record and to any person known to the Water District who is responsible for the violation or its correction. Said notice shall describe the violation and order that it be corrected immediately or within such specified time as the Water District determines is reasonable under the circumstances. If said violation is not corrected, then the Water District may terminate the customer's water service subject to the following:
1. The customer shall have the opportunity to appeal the termination by requesting a hearing scheduled before Water District officials.
 2. If such a hearing is requested, the customer shall be given full opportunity to be heard before termination is ordered.
 3. Water District officials shall make findings of fact and order whether service should continue or be terminated.
- B. The reconnect fee as shown in the current Public Service Commission tariff shall be paid for the reconnection of any water service terminated pursuant to subsection 8.A.
- C. Enforcement will be applied in addition to, and separately from, Excess Usage Fees described in earlier sections.

9. LIABILITY:

- A. Hardin County Water District No. 1 will not be liable for any loss, cost, danger, injury or expense that may be sustained by reasons of partial or complete curtailment or interruption of water service.
- B. When the causes of the curtailment or interruption cease, the Water District shall restore appropriate service to all customers as soon as possible in the reverse order of the curtailments or interruptions in so far as is practicable.

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10. SEVERABILITY: If any provision in these regulations is declared unconstitutional, or the application thereof to any person or circumstance is held invalid, the constitutionality of the remainder of the regulation and its applicability to other persons and circumstances shall not be affected thereby.

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11. EFFECTIVE DATE:

- A. This regulation was approved by the Hardin County Water District No. 1, Board of Commissioners on June 15, 1988 and recorded in the Minutes of Meeting of the same date.

B. This Regulation shall be effective immediately upon approval by the Public Service Commission.

12. EFFECTIVE PERIOD: This regulation will remain in effect until terminated by Hardin County Water District No. 1.

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Appendix 1

HARDIN COUNTY WATER DISTRICT NO. 1
PROJECTED DEMAND WORKSHEET FOR _____

(Month)

(Year)

The information below would be used to estimate projected demand for one (1) month.

Calculations will be done at the beginning of each month.

Average use in _____ for the past 5 years: _____ gpd
 (Last Month)

Average use in _____ for 2 years ago: _____ gpd
 (Last Month)

Average use in _____ for 1 year ago: _____ gpd
 (Last Month)

Average use in _____ for current year: _____ gpd
 (Last Month)

Average use in _____ for the past 5 years: _____ gpd
 (This Month)

Average use in _____ for 2 years ago: _____ gpd
 (This Month)

Average use in _____ for 1 year ago: _____ gpd
 (This Month)

Usage Notes: _____

Weather Notes: _____

Average projected use for _____ PUBLIC SERVICE COMMISSION
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Without conservation measures: _____ JUL 26 1988 _____ gpd

With advisory conservation measures
 (5% to 10% reduction) _____ PURSUANT TO 807 KAR 5.011,
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With alert conservation measures
 (More than 10% to 15% reduction) _____ BY: *George Kelle*
 PUBLIC SERVICE COMMISSION MANAGER _____ gpd

With emergency conservation measures
 (More than 15% to 20% reduction) _____ gpd

With rationing conservation measures
 (More than 20% reduction) _____ gpd

Appendix 2

HARDIN COUNTY WATER DISTRICT NO. 1
PRESS RELEASE
ADVISORY STAGE

Hardin County, Kentucky - Due to the recent abnormally dry weather conditions and with little indication of significant rainfall in the foreseeable future, customers of Hardin County Water District No. 1 should begin conserving water according to the General Superintendent. For the month of _____, the National Weather Service reported that this area (Region # _____) received _____% of normal rainfall. The 30-day outlook calls for _____.

A local water shortage ADVISORY has been declared by the Board of Commissioners of Hardin County Water District No. 1. At this time, there is an immediate need to begin voluntary conservation measures. All business and commercial establishments are being requested to develop in-house conservation plans.

The amount of treated water available is 5% to 10% below (projected demand*), and/or there are periods of low water pressure in one or more areas of the distribution system due to low water supply, or the State Division of Water has issued a Water Shortage Watch for our area.

According to Kentucky Division of Water, Water Shortage Department, consumers can cut water use by as much as 15% with very little difficulty or discomfort by using voluntary water conservation measures.

All non-essential uses of water should be minimized.

Specific Conservation Tips include:

1. Check toilet for leaks and have leaks repaired.
2. Do not use toilet as ashtray or wastebasket.
3. Put plastic bottles in toilet tank.
4. Take shorter showers.
5. Install water saving shower heads or low restrictors.
6. Take baths.
7. Turn off water after wetting toothbrush.
8. Rinse razor in sink instead of letting water run.
9. Check faucets and pipes for leaks and have repaired.
10. Use automatic dishwasher for full loads only.
11. Wash full loads of clothes on full.
12. If dishes are hand-washed, do not let water run to rinse them, fill the sink.
13. Don't let the faucet run to fill the refrigerator.
14. Keep a bottle of water in the refrigerator.
15. Water the lawn only when it needs it. Water it at night and deep soak. Don't water the gutters, sidewalks, driveways, etc. Don't water on windy days.

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16. Place a layer of mulch around trees and plants.
17. Use a broom to clean driveways and sidewalks, not a hose.
18. Do not run the hose when washing vehicles.
19. Do not let children play with the hoses and sprinklers.

If everyone cooperates, Hardin County Water District No. 1 and its customers can cut usage significantly, and have the water necessary to sustain normal, day-to-day needs.

If there are any questions or suggestions, they can be mailed to Hardin County Water District No. 1, P.O. Box 489, Radcliff, Kentucky 40160, or can be placed by phone at (502) 351-3222.

The entire staff of Hardin County Water District No. 1 appreciates the efforts of all individuals to help in this situation.

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SECTION 9.11)

BY: *James H. Hille*
PUBLIC SERVICE COMMISSION MANAGER

Appendix 3

HARDIN COUNTY WATER DISTRICT NO. 1
PRESS RELEASE
ALERT STAGE

Hardin County, Kentucky - A water shortage ALERT has been declared for the Hardin County Water District No. 1 water district.

The amount of treated water available is more than 10% to 15% below (projected demand*), and/or there is consistent low pressure in one or more areas of the distribution system due to low water supply.

? The West Point Wells are currently running _____ and Pirtle Springs is currently holding at an average of _____ feet daily which is _____ percent below normal.

Under the ALERT, and in order to ensure adequate supplies for necessary uses, Hardin County Water District No. 1 customers are urged to practice conservation in all use of water. Class 3 Non-essential water use is prohibited. The Hardin County Water District No. 1 Water Shortage Response Plan Class 3 Non-essential use states as follows:

CLASS 3 USES OF WATER:

1. Decorative fountains, reflecting pools, artificial waterfalls, and any other decorative uses of water.
2. Watering of gardens, lawns, parks, golf courses (except greens), playing fields and other recreation areas.
3. Filling of public, private, commercial, or residential swimming and wading pools.
4. Personal washing of motor vehicles, boats and trailers, driveways, etc.
5. Serving water in restaurants, clubs, or eating places unless specifically requested by the customer.
6. Filling of ponds.

Conservation of all water uses, accompanied by these restrictions, can reduce water use by 15 to 30 percent. The Hardin County Water District No. 1 users can prolong limited water supplies, avoiding further restrictions, by observing these prohibitions and conserving water at all times.

If everyone cooperates, Hardin County Water District No. 1 and its customers can cut usage significantly.

If there are any questions or suggestions, they can be mailed to Hardin County Water District No. 1, P.O. Box 489, Radcliff, Kentucky 40160, or can be placed by phone at (502) 351-3222.

The entire staff of Hardin County Water District No. 1 appreciates the efforts of all individuals to help in this situation.

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Appendix 4

HARDIN COUNTY WATER DISTRICT NO. 1
PRESS RELEASE
EMERGENCY STAGE

This press release is to be written according to the terms of the emergency stage in the water shortage response plan.

The amount of treated water available is more than 15% to 20% below (projected demand*), or there are periods of no pressure in one or more areas of the distribution system due to low water supply and mandatory restrictions on the use of water are necessary to insure equitable distribution of available supplies.

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BY: George A. Miller
PUBLIC SERVICE COMMISSION MANAGER

Appendix 5

**HARDIN COUNTY WATER DISTRICT NO. 1
PRESS RELEASE
RATIONING STAGE**

This press release is to be written according to the terms of the rationing stage in the water shortage response plan.

Treated water available is more than 20% or more below (projected demand*), and requires mandatory rationing to insure adequate water is available to maintain public health and sanitation and provide fire protection service.

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**PURSUANT TO 907 KAR 5:011,
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BY: *George Keller*
PUBLIC SERVICE COMMISSION MANAGER

Attachment 1 to Appendix 1

(Extracted from Kentucky Water Shortage Response Plan)

Sample Worksheet for Projecting Demand

This sample shows examples of information which would be used to estimate projected demand for one month. The month is June and calculations would have been done at the beginning of that month.

Average use in May for the past 5 years:	<u>150,000</u>	gpd (gallons per day)
Average use in May 2 years ago:	<u>115,000</u>	gpd
Average use in May 1 year ago:	<u>200,000</u>	gpd
Average use in May this year:	<u>225,000</u>	gpd
Average use in June for the past 5 years:	<u>200,000</u>	gpd
Average use in June 2 years ago:	<u>250,000</u>	gpd
Average use in June 1 year ago:	<u>250,000</u>	gpd

Use Notes: Construction of a housing development in May, 2 years ago, increased use by 25,000 gpd. A similar development was constructed last fall, so another 25,000 increase makes sense.

Weather notes: There were many showers in June of last year. This year, May was dry. June is expected to be dry as well. Temperatures are expected to be similar; above normal.

Therefore, average projected use for June:

Without conservation measures:

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225,000 to 300,000 gpd
or 215,000 gpd
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With voluntary conservation measures

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(goal of 10 percent reduction):

217,500 to 270,000 gpd

With more extensive conservation

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(goal of 20 percent reduction):

220,000 to 240,000 gpd
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