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COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION

PUBLIC SERVICE  
COMMISSION

In the Matter of:

TARIFF FILING OF HARRISON COUNTY ) CASE NO. 2014-00357  
WATER ASSOCIATION TO REVISE CERTAIN )  
NON-RECURRING CHARGES AND )  
TARIFF LANGUAGE )

**RESPONSE TO COMMISSION STAFF'S FIRST REQUEST  
FOR INFORMATION  
TO HARRISON COUNTY WATER ASSOCIATION, INC**

Respectfully submitted,

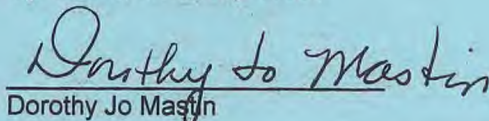


Dorothy Jo Mastin  
Attorney at Law  
Harrison County Water Association, Inc.

**CERTIFICATE OF MAILING**

I hereby certify that an Original and the required eight (8) copies of this Response to Commission Staff's First Request For Information to Harrison County Water Association, Inc. has been hand delivered to Kentucky Public Service Commission, 211 Sower Avenue, Frankfort, KY 40602 and a copy to the Attorney General's Office of Rate Intervention, 1024 Capital Center Drive, Suite 200, Frankfort, Kentucky 40601-8204 by regular U.S. mail, postage prepaid on this the 2nd day of December, 2014.

Dorothy Jo Mastin  
Attorney of Record  
Harrison County Water Association, Inc.  
113 N. Main Street, Suite 2  
Cynthiana, Kentucky 41031

  
Dorothy Jo Mastin

COMMONWEALTH OF KENTUCKY  
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In the Matter of:

TARIFF FILING OF HARRISON COUNTY ) CASE NO. 2014-00357  
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**RESPONSE TO COMMISSION STAFF'S FIRST REQUEST  
FOR INFORMATION  
TO HARRISON COUNTY WATER ASSOCIATION, INC**

Comes now, Harrison County Water Association, Inc., by and through counsel and submits as follows:

**QUESTION #1**

**Answer:**

Copy of minutes of meetings where increase of water rates and increase of non-recurring charges were discussed (See Exhibit #1).

**QUESTION #2**

**Answer:**

Copy of minutes where non-recurring charges were discussed and Board of Directors approved Resolution to increase cost of non-recurring charges in minutes (See Exhibit #2).

**QUESTION #3**

**Answer:**

Harrison County Water currently employs three (3) men who are responsible for the field labor in collection of past due accounts (Field Collection Charge), Re-connection Charge, Cut Lock Fee, Meter Test Fee (Customer Request).

The three men are:	Gordy - Salary	\$16.39 per hour
	Wilson - Salary	\$15.75 per hour
	Buck - Salary	<u>\$18.58 per hour</u>
	TOTAL	\$50.66 Divided by 3

These hourly salaries were averaged to arrive at \$16.91 per hour for labor costs on any particular field work.

Harrison County Water currently employs two (2) office personnel for clerical duties.

The two clerical employees are:

Diana - Salary	\$20.48 per hour
Cindy - Salary	<u>\$15.74 per hour</u>
TOTAL	\$36.58 Divided by 2

These hourly salaries were averaged for clerical duties to come up with \$18.29 per hour for office work, or \$0.30 per minute.

(See Exhibit #3).

#### **QUESTION #4 JUSTIFICATION FOR MILEAGE**

**Answer:**

From water office to Antioch (village) and Ky 527 is 15.5 miles

From water office through Antioch to end of line is 21.8 miles

From water office to Kelat (village) via US 27 is 13 miles

From water office to Snake Lick Road through Kelat (village) is 16.1 miles

From water office to Boyd – end of Snake Lick Road - is 19.2 miles

We calculated an average of 10 miles to a call and 10 miles back to water office for a 20 mile round trip average.

We have over 700 miles of water lines in the ground in Harrison County, a county that contains 197,120 acres, more than 308 square miles. This also includes water lines in the ground in Bourbon, Nicholas, and Scott counties, which also incur non-recurring charges. ((See Exhibit #4a)Soil Survey - United States Department of Agriculture, Issued April 1968)

For fuel expense, we used the Internal Revenue Code allowance chart which allows a reimbursement charge of \$0.56/mile, however, we currently charge \$0.55/mile. (See Exhibit #4).

**QUESTION #5 WEAR ON VEHICLE USE EXPENSE**

**Answer:**

Harrison County Water has three (3) service trucks (2010 Ford, F-150, 2010 Ford, F-150, and 2006 Ford, F-150) which are used every day to maintain lines, collect past due charges, install and reinstall water meters and lock out and re-connect customers, etc. The Association must maintain these vehicles with tires, oil, insurance, license tags, mechanical maintenance, etc. These vehicles also depreciate quickly which means the Association is continuously replacing and repairing vehicles because they must be safe and reliable for our employees to operate.

It is the position of the Water Association manager that \$8.00 is a minimum charge for maintenance and depreciation of these vehicles.

**QUESTION #6 LOCKOUT AND MILEAGE**

**Answer:**

a) Number of lockouts per month determined in the following manner:

There were no lockouts in January 2014 due to weather.

February	35 lockouts
March	47 lockouts
April	34 lockouts
May	22 lockouts
June	40 lockouts
July	65 lockouts

TOTAL 243 meters locked out

The six month average from February through July equals an average of 41 meters locked out per month.

b) The mileage per meter was estimated at 40 miles, calculated by averaging 10 miles to the lockout location, 10 miles back to the office, then 10 miles back to the lockout location to unlock each meter and another 10 miles back to the office for a total of 40 miles. Each trip requires a minimum of 25 minutes to and from the lockout (depending on terrain and road). This totals one hour and 40 minutes for each occurrence.

**QUESTION #7 METER TEST FEE (CUSTOMER REQUEST)**

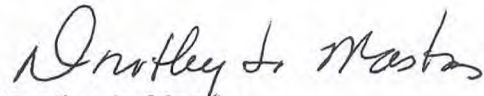
**Answer:**

a) Meters are tested by Dyer Meter Service of Corinth, Kentucky.

b) As we contract with Dyer for testing the meter, it can take several days. The meter is pulled by Harrison County Water and a replacement meter is installed. Dyer is then notified to pick up the questioned meter.

- c) Meter testing can take several days, as the testing is performed by the outside company as identified above in Item #7a. Harrison County Water removes the questioned meter and installs a replacement meter and returns the pulled meter to the water office. This requires approximately one (1) hour average.
- d) Dyer Meter Service, of Corinth, Kentucky, charges \$14.00 to test a meter with the associated labor and mileage costs in addition to the meter test charge (see worksheet).

Respectfully submitted,



Dorothy Jo Masfin  
Attorney at Law  
Harrison County Water Association, Inc.

Cc: Attorney General  
Commonwealth of Kentucky  
Frankfort, Kentucky

COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

TARIFF FILING OF HARRISON COUNTY ) CASE NO. 2014-00357  
WATER ASSOCIATION TO REVISE CERTAIN )  
NON-RECURRING CHARGES AND )  
TARIFF LANGUAGE )


**AFFIDAVIT IN RESPONSE**  
**TO COMMISSION STAFF'S FIRST REQUEST**  
**FOR INFORMATION**  
**TO HARRISON COUNTY WATER ASSOCIATION**

Comes now Affiant, Danny Northcutt, Manager, for Harrison County Water Association, Inc. and states as follows:

Each Response to the Commissions Staff's Request for Information has either been prepared by me or been supervised by me.

Each Response is true and accurate to the best of my knowledge, information and belief formed after a reasonable inquiry.

Further Affiant sayeth naught.

  
\_\_\_\_\_  
Danny Northcutt  
Manager  
Harrison County Water  
Association, Inc.

STATE OF KENTUCKY

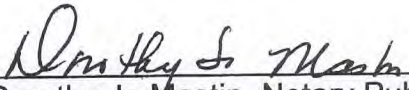
COUNTY OF HARRISON

Sworn and subscribed to before me by Danny Northcutt on this the 1st day of December, 2014.

My commission expires: February 3, 2017

(SEAL) #481784



  
Dorothy Jo Mastin, Notary Public

# INDEX

1. Minutes
  - May 11, 2014
  - June 18, 2014
  - July 16, 2014
  - August 20, 2014
  - September 17, 2014
2. Resolution approving proposed rate revision.
3. Non-recurring Charge Cost Justification
  - Labor Expense
4. Non-recurring Charge Cost Justification
  - Transportation Expense - Fuel Cost
5. Non-recurring Charge Cost Justification
  - Wear on Vehicle
6. Non-recurring Charge Cost Justification
  - Transportation Expense
    - a. Field Collection, Cut Lock and Meter Test Fees
    - b. Reconnect Fee
7. Non-recurring Charge Cost Justification
  - Customer Request Meter Test Fee
    - a. Entity which tests meters
    - b. Estimated time
    - c. Associated costs
    - d. Cost inclusion or exclusion justification



# Harrison County Water Association

P.O. Box 215  
2167 U.S. 27 South  
Cynthiana, Kentucky 41031

May 21, 2014

The Harrison County Water Association met in regular session at the Water Association office at US 27 South on Wednesday, May 21, 2014. The meeting was called to order 7:30 P.M. by Pres. Toadvine. Members of the Board present included:

	William R. Toadvine	President	
	J. Frank Marsh	Vice President	
	Patty Hanna	Secretary	
	Lewis Furnish	Treasurer	
	Russell Gray	Member	
	Paul Wilson	Member	
	Gary Carter	Member	
Others Present:	Danny D. Northcutt	Manager	
	Jo Mastin	Attorney	
	Mark Askin	Engineer	Absent
	Charles Bruner	CPA	
	Mark Patrick	Asst. Manager	Absent
	Andrew Esarey	Engineer	

The minutes of the previous meeting were approved on a motion by Carter and seconded by Gray. Motion carried.

The financial report for the month of April 2014 was approved on a motion by Furnish and seconded by Marsh. Motion carried.

Strand Engineering- report attached.

Tony Harover-report attached.

Jo Mastin-reported on Eula Howard property taxes. Rate increase or pass thru paper work in progress. If it is determined that the City of Cynthiana will increase wholesale water cost to Harrison County Water Association, Inc. Then we will implement passthrough paperwork rather than general rate revision. A possible increase of non-recurring charges was discussed but no action taken.

Pres. Toadvine advised we received money from Robinson account.

Pres. Toadvine asked Northcutt if we had been contacted about a fee on water bills for 911. Northcutt advised has not been notified.

Motion by Hanna seconded by Wilson to pay Strand bills. Motion carried.

In# 0104515 \$763.87 In#0104516 \$2235.00 In#104517 \$4634.00

Motion by Wilson, seconded by Carter to approve leak adjustments. Motion carried.

Northcutt advised paper work in progress for payments by credit card. Northcutt advised new computers purchased for Diana and Cindy.

Toadvine asked if we want to raise cap on IRA from \$2500.00 to \$2750.00 and over 50 from \$2500 to \$3250. Motion by Carter, seconded by Gray. Motion carried.

Marsh advised we need to move on Centerville project.

Hanna made motion to adjourn. Seconded by Marsh. Motion carried.

Submitted by :



Patty Hanna  
Secretary  
Harrison County Water Association

# Harrison County Water Association

P.O. Box 215  
2167 U.S. 27 South  
Cynthiana, Kentucky 41031

June 18, 2014

The Harrison County Water Association met in regular session at the Water Association office at US 27 South on Wednesday June 18, 2014. The meeting was call to order 7:30 P.M. by Pres. Toadvine. Members of the Board present included:

William R. Toadvine	President
J. Frank Marsh	Vice President
Patty Hanna	Secretary
Lewis Furnish	Treasurer
Russell Gray	Member
Paul Wilson	Member
Gary Carter	Member

Others Present:

Danny D. Northcutt	Manager	
Jo Mastin	Attorney	
Mark Askin	Engineer	Absent
Charles Brunker	CPA	
Mark Patrick	Asst. Manager	Absent

The minutes of the previous meeting were approved on a motion by Wilson and seconded by Gray. Motion carried.

The financial report for the month of May 2014 was approved on a motion by Hanna and seconded by Marsh. Motion carried.

Mark Askin-report attached

Charles Brunker-report attached.

Jo Mastin--2013 tax bills will be sold between 9:00 - 9:30 AM on Howard property on August 6, 2014 @ County Clerks office. Discussion on raising rate for non-recurring charges. Motion made by Furnish, seconded by Wilson to determine loss we are incurring in non-recurring charges. Motion carried.

Pres. Toadvine advised we may be in line for rate increase by City of Cynthiana. Twenty two cents this year and twenty two cents next year. Maximum 2.85 in 2015.

Motion by Carter seconded by Furnish to pay Strand bills.  
In# 105078 @ \$2515.00 In# 0105079 @ \$1054.00

Motion by Marsh seconde by Wilson to approve leak adjustments. Motion carried.

Motion by Furnish seconded by Carter to pay Ky Association of Counties invoice #K140187 @ \$22780.89 for general liability insurance. Motion carried.

Motion by Marsh seconded by Carter to pay Ky Association of Counties invoice #W140146 @ \$8652.60 for Workmans Compensation insurance. Motion carried.

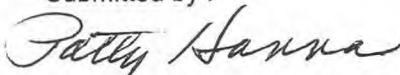
Danny Northcutt- talked to the Neil Group. They are to get back to us this week. All paperwork is in and could be up and running within next month or two.

Mark Patrick asked about uniform allowance. Pres. Toadvine advised we will receive clothing allowance annually. Motion by Furnish and seconded by Gray to renew \$200.00 clothing allowance for 2014. Motion carried.

Motion by Marsh seconded by Gray to purchase flushing meter . Motion carried.

Hanna made motion to adjourn. Seconded by Marsh. Motion carried.

Submitted by :



Patty Hanna  
Secretary  
Harrison County Water Association

# Harrison County Water Association

P.O. Box 215  
2167 U.S. 27 South  
Cynthiana, Kentucky 41031

July 16, 2014

The Harrison County Water Association met in regular session at the Water Association office at US 27 South on Tuesday July 16, 2014. The meeting was called to order 7:30 P.M. by Pres. Toadvine. Members of the Board present included:

	William R. Toadvine	President	
	J. Frank Marsh	Vice President	
	Patty Hanna	Secretary	
	Lewis Furnish	Treasurer	
	Russell Gray	Member	
	Paul Wilson	Member	
	Gary Carter	Member	
Others Present:	Danny D. Northcutt	Manager	
	Jo Mastin	Attorney	
	Mark Askin	Engineer	Absent
	Charles Brunker	CPA	
	Mark Patrick	Asst. Manager	t

The minutes of the previous meeting were approved on a motion by Carter and seconded by marsh. Motion carried.

The financial report for the month of June 2014 was approved on a motion by Hanna and seconded by Wilson. Motion carried.

Jo Mastin--Presented contracts between DOT and HCWA for Millersburg by pass. She advised the only change we are a water association not a water district and should be changed.

Eula Howard property-11 years of taxes due. Estimate \$15,000. taxes due. Danny talked to her and she advised she lost property in bankruptcy, She would talk to her attorney and get back with Danny. He has not heard from her. Jo to talk with Master Commissioner and locate bankruptcy trustee.

Motion by Marsh and seconded by Gray to have Lewis Furnish, treasurer HCWA to register with Harrison Co. Clerk office to purchase 2013 taxes in the amount of \$817.11 for Eula Howard property. Motion carried.

Motion by Wilson seconded by Marsh to make application with Public Service for general rate increase and change tariff. Motion carried.

Motion by Wilson, seconded by Marsh to charge tariff and make application for a general rate increase and calculation of loss we are absorbing because of non-recurring charges. Motion carried.

Danny Northcutt- Russell Cave project signed and sealed.

Mark Patrick-reported on flush meter. Price approximately \$1100.00. Board approved purchase last meeting.

HCWA now taking credit cards for payments. Ky American has officially taken over Millersburg water supply.

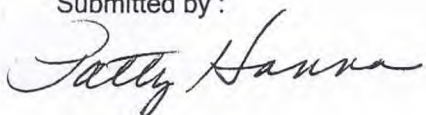
Motion by Furnish seconded by Gray to approve leak adjustments. Motion carried.

Switzer and Lair tanks have been cleaned. Lair in bad condition and needs to be sand blasted and painted. No immediate action taken.

Motion by Wilson seconded by Furnish to nominate Marsh as voting delegate at KY Rural Water Association meeting.

Marsh made motion to adjourn. Seconded by Hanna. Motion carried.

Submitted by :



Patty Hanna  
Secretary  
Harrison County Water Association

# Harrison County Water Association

P.O. Box 215  
2167 U.S. 27 South  
Cynthiana, Kentucky 41031

August 20, 2014

The Harrison County Water Association met in regular session at the Water Association office at US 27 South on Wednesday August 20, 2014. The meeting was call to order 7:30 P.M. by Pres. Toadvine. Members of the Board present included:

William R. Toadvine	President
J. Frank Marsh	Vice President
Patty Hanna	Secretary
Lewis Furnish	Treasurer
Russell Gray	Member
Paul Wilson	Member
Gary Carter	Member

Others Present:	Danny D. Northcutt	Manager
	Jo Mastin	Attorney
	Mark Askin	Engineer Absent
	Charles Brunner	CPA
	Mark Patrick	Asst. Manager

The minutes of the previous meeting were approved on a motion by Carter and seconded by Marsh. Motion carried.

The financial report for the month of July 2014 was approved on a motion by Wilson and seconded by Gray. Motion carried.

Mark Askin-report attached.

Jo Mastin -Provided information on Eula Howard property. There are two foreclosure suits pending. She is to contact Master Commission John Lair. There is also a mortgage not released. Mastin is to talk to Kentucky Rural Water Association regarding general rate increase. The following Resolution was submitted:

The following resolution on this matter was proposed by President, William Toadvine. "Be it resolved that Harrison County Water Association, Inc. will seek an increase of rates on non-recurring charges as soon as possible from the PSC." Resolution approved on Motion by Patty Adams, seconded by Lewis Furnish, to accept resolution as presented. Motion carried.

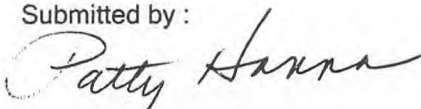
Danny Northcutt- Reported on Millersburg oncession to Paris Water system. We will pay Ky American @ rate of \$3.25 oer 1000 gallons.

Motion by Carter seconded by Hanna to approve leak adjustment. Motion carried.

Motion by Marsh seconded by Carter to pay Strand Engineers Inc. Motion carried.  
In # 1015709 @\$400.00      In# 105710 @ \$786.00

Marsh made motion to adjourn. Seconded by Hanna. Motion carried.

Submitted by :



Patty Hanna  
Secretary  
Harrison County Water Association

# Harrison County Water Association

P.O. Box 215  
2167 U.S. 27 South  
Cynthiana, Kentucky 41031

September 17, 2014

The Harrison County Water Association met in regular session at the Water Association office at US 27 South on Wednesday September 17, 2014. The meeting was call to order 7:30 P.M. by Pres. Toadvine. Members of the Board present included:

William R. Toadvine	President
J. Frank Marsh	Vice President
Patty Hanna	Secretary
Lewis Furnish	Treasurer Absent
Russell Gray	Member
Paul Wilson	Member
Gary Carter	Member

Others Present:

Danny D. Northcutt	Manager
Jo Mastin	Attorney
Andrew Esarey	Engineer
Charles Brunner	CPA
Mark Patrick	Asst. Manager

The minutes of the previous meeting were approved on a motion by Carter and seconded by Gray. Motion carried.

The financial report for the month of August 2014 was approved on a motion by Marsh and seconded by Wilson. Motion carried.

Andrew Esarey-report attached.

Jo Mastin reported that PSC tariff division had tentatively approved non-recurring charge increase effective November 1, 2014 subject to public notice in local newspaper.

KRWA requesting \$2400.00 to recalculate charges. Motion by Marsh , seconded by Gray to have KRWA prepare proposal to present to Public Service Commission for rate increase. Motion carried. Advised she talked with Bradley Vaughn regarding Eula Howard property. Vaughn to meet with Ed Culbertson. She to will meet with Vaughn tomorrow about mortgage release in order to move forward.

Danny Northcutt- received call from Scotty McCauley requesting HCWA to do all billing and collecting for sewer system on Northside of Cynthiana. No action taken.

Motion by Hanna seconded by Marsh to approve leak adjustments. Motion carried.

Motion by Carter seconded by Gray to pay Strand Engineers Inc. Motion carried.

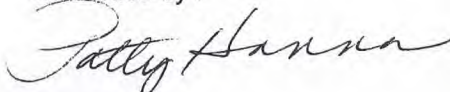
In # 0106892 @\$2800.00	In# 0106893 @ \$1298.00
In#106894 @ \$6205.82	In#0106895 @ \$7104.22

Motion by Hanna seconded by Marsh to have Ardery tank inspected and put cathodic protection in tank. Motion carried.

Tony Harover- report attached.

Hanna made motion to adjourn. Seconded by Gray. Motion carried.

Submitted by :



Patty Hanna  
Secretary  
Harrison County Water Association



# Harrison County Water Association

P.O. Box 215  
2167 U.S. 27 South  
Cynthiana, Kentucky 41031

August 20, 2014

The Harrison County Water Association met in regular session at the Water Association office at US 27 South on Wednesday August 20, 2014. The meeting was call to order 7:30 P.M. by Pres. Toadvine. Members of the Board present included:

William R. Toadvine	President
J. Frank Marsh	Vice President
Patty Hanna	Secretary
Lewis Furnish	Treasurer
Russell Gray	Member
Paul Wilson	Member
Gary Carter	Member

Others Present:

Danny D. Northcutt	Manager
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The financial report for the month of July 2014 was approved on a motion by Wilson and seconded by Gray. Motion carried.

Mark Askin-report attached.

Jo Mastin -Provided information on Eula Howard property. There are two foreclosure suits pending. She is to contact Master Commission John Lair. There is also a mortgage not released. Mastin is to talk to Kentucky Rural Water Association regarding general rate increase. The following Resolution was submitted:

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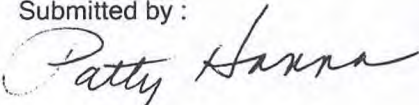
Danny Northcutt- Reported on Millersburg oncession to Paris Water system. We will pay Ky American @ rate of \$3.25 oer 1000 gallons.

Motion by Carter seconded by Hanna to approve leak adjustment. Motion carried.

Motion by Marsh seconded by Carter to pay Strand Engineers Inc. Motion carried.  
In # 1015709 @\$400.00 In# 105710 @ \$786.00

Marsh made motion to adjourn. Seconded by Hanna. Motion carried.

Submitted by :



Patty Hanna  
Secretary  
Harrison County Water Association

**NON-RECURRING CHARGE COST JUSTIFICATION**

Type of Charge \_\_\_\_\_ LABOR \_\_\_\_\_

1. Field Expense:

A. Materials (Itemize)

_____	\$ _____
_____	\$ _____
_____	\$ _____

B. Labor (Time and Wage)

Gordy - Salary	\$16.39 per hour
Wilson - Salary	\$15.75 per hour
Buck - Salary	<u>\$18.58 per hour</u>

TOTAL                      \$50.66 Divided by 3

Hourly Salaries Averaged                      \$16.91 per hour

Labor costs on any particular field work.

**Total Field Expense**                      \$ \_\_\_\_\_

2. Clerical and Office Expense

A. Supplies    \$ \_\_\_\_\_

Clerical employees:

Diana - Salary	\$20.48 per hour
Cindy - Salary	<u>\$15.74 per hour</u>
TOTAL	\$36.58 Divided by 2

Hourly Salaries Averaged                      \$18.29 per hour

Clerical costs for office work.

3. Miscellaneous Expense

A. Transportation    \$ \_\_\_\_\_

B. Other (Itemize) \$ \_\_\_\_\_

**Total Miscellaneous Expense** \$ \_\_\_\_\_

**Total Non-recurring Charge Expense** \$ \_\_\_\_\_



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## Standard Mileage Rates

The following table summarizes the *optional* standard mileage rates for employees individuals, or other taxpayers to use in computing the deductible costs of operating for business, charitable, medical, or moving expense purposes.

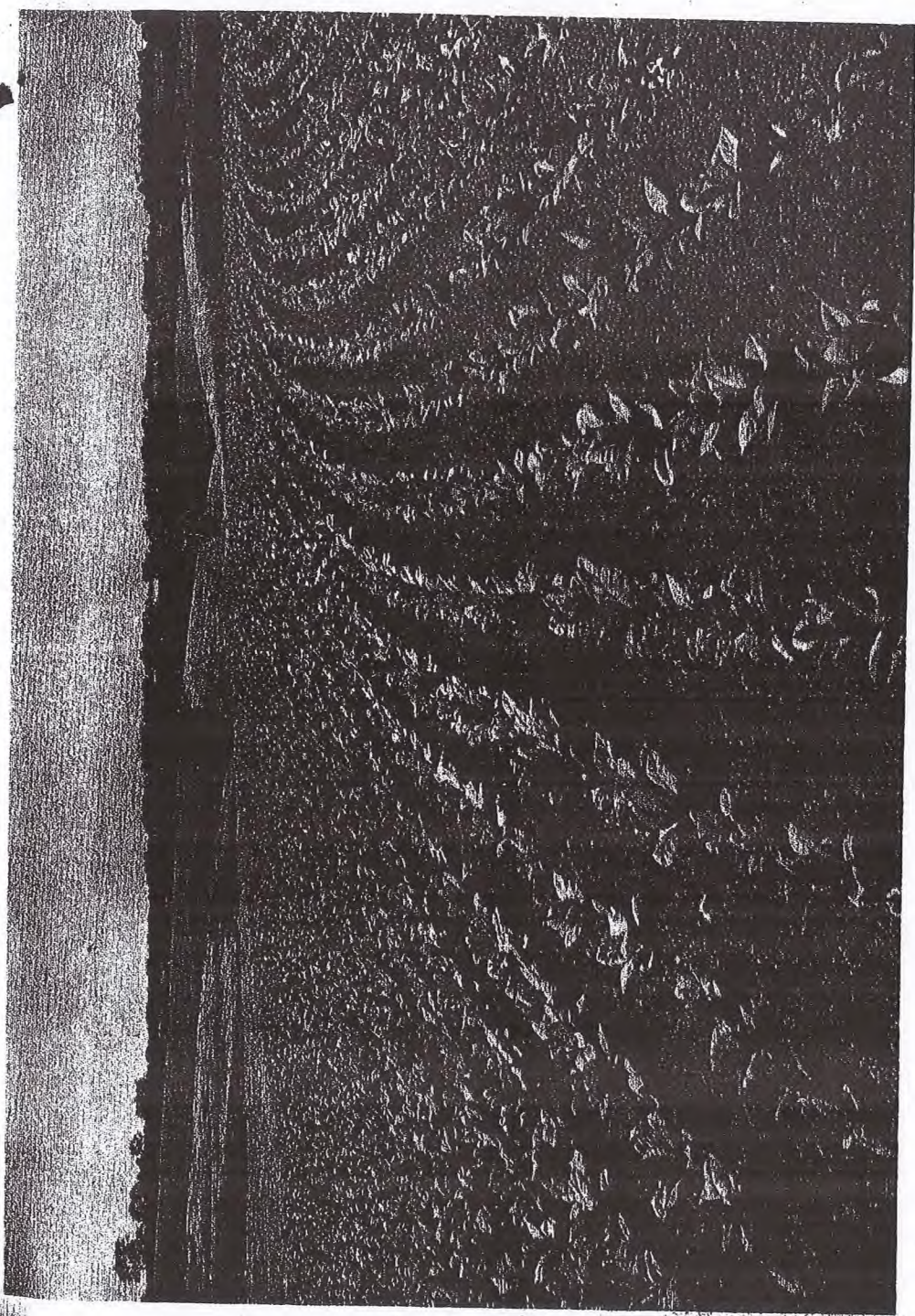
*For the three periods beginning August 25, 2005 and ending December 31, 2006, this table for providing donated services to charity for relief related to Hurricane Katrina, and the amount excluded from income by those reimbursed for such use.*

<b>Applicable Period</b>	<b>Rates (in cents per mile)</b>	
<b>2014</b>	Business	56
	Charitable	14
	Medical and moving	23.5
<b>2013</b>	Business	56.5
	Charitable	14
	Medical and moving	24
<b>2012</b>	Business	55.5
	Charitable	14
	Medical and moving	23
<b>July 1 - December 31, 2011</b>	Business	55.5
	Charitable	14
	Medical and moving	23.5
<b>January 1 - June 30, 2011</b>	Business	51
	Charitable	14
	Medical and moving	19
<b>2010</b>	Business	50
	Charitable	14
	Medical and moving	16.5
<b>2009</b>	Business	55
	Charitable	14
	Medical and moving	24
<b>July 1 - December 31, 2008</b>	Business	58.5
	Charitable	14
	Medical and moving	27

Issued April 1968

# SOIL SURVEY

## Harrison County, Kentucky



UNITED STATES DEPARTMENT OF AGRICULTURE

Soil Conservation Service

In cooperation with

KENTUCKY AGRICULTURAL EXPERIMENT STATION

# SOIL SURVEY OF HARRISON COUNTY, KENTUCKY

BY HUBERT B. ODOR, BILLY C. WEISENBERGER, ROBERT L. BLEVINS, AND JOHN L. TAYLOR,  
SOIL CONSERVATION SERVICE

UNITED STATES DEPARTMENT OF AGRICULTURE IN COOPERATION WITH  
KENTUCKY AGRICULTURAL EXPERIMENT STATION

**H**ARRISON COUNTY, in the northern part of Kentucky (fig. 1), has a land area of 308 square miles, or 197,120 acres. According to the 1960 census, the population of the county was 13,704 and that of Cynthiana, the county seat, was 5,641.

This county is undulating to hilly. Its soils generally are of limestone origin and are fertile. Elevations range from about 540 feet to about 1,000 feet above sea level.

Agriculture is diversified in Harrison County. The growing of tobacco and the raising of livestock are the principal enterprises. In 1959, the total value of farm products, including livestock, sold in the county was about \$8 million. About half of that amount was from the sale of crops, mainly tobacco, and most of the rest was from the sale of livestock, chiefly beef cattle. Dairy cattle, hogs, and sheep also contribute to the economy of the county.

## How This Survey Was Made

Soil scientists made this survey to learn what kinds of soils are in Harrison County, where they are located, and how they can be used.

They went into the county knowing they likely would find many soils they had already seen, and perhaps some they had not. As they traveled over the county, they observed steepness, length, and shape of slopes; size and speed of streams; kinds of native plants or crops; kinds of rock; and many facts about the soils. They dug many holes to expose soil profiles. A profile is the sequence of natural layers, or horizons, in a soil; it extends from the surface down into the material that has not been changed much by leaching or by roots of plants.

The soil scientists made comparisons among the profiles they studied, and they compared these profiles with those in counties nearby and in places more distant. They classified and named the soils according to nationwide, uniform procedures. To use this survey efficiently, it is necessary to know the kinds of groupings most used in a local soil classification.

Soils that have profiles almost alike make up a soil series. Except for different texture in the surface layer, all the soils of one series have major horizons that are similar in thickness, arrangement, and other important characteristics. Each soil series is named for a town or other geographic feature near the place where a soil of that series was first observed and mapped. Cynthiana and Faywood, for example, are the names of two soil series. All the soils in the United States having the same series name are essentially alike in those characteristics that go with their behavior in the natural, untouched landscape. Soils of one series can differ somewhat in texture of the surface soil and in slope, stoniness, or some other characteristic that affects use of the soils by man.

Many soil series contain soils that differ in texture of their surface layer. According to such differences in texture, separations called soil types are made. Within a series, all the soils having a surface layer of the same texture belong to one soil type. Faywood silt loam and Faywood silty clay loam are two soil types in the Faywood series. The difference in texture of their surface layer is apparent from their names.

Some types vary so much in slope, degree of erosion, number and size of stones, or some other feature affecting their use, that practical suggestions about their management could not be made if they were shown on the soil map as one unit. Such soil types are divided into phases. The name of a soil phase indicates a feature that affects management. For example, Faywood silty clay loam, 2 to 6 percent slopes, eroded, is one of several phases of Faywood silty clay loam, a soil type that ranges from nearly level to strongly sloping.

After a guide for classifying and naming the soils had been worked out, the soil scientists drew the boundaries of the individual soils on aerial photographs. These photographs show woodland, buildings, field borders, trees, and other details that greatly help in drawing boundaries accurately. The soil map in the back of this survey was prepared from the aerial photographs.

The areas shown on a soil map are called mapping units. On most maps detailed enough to be useful in

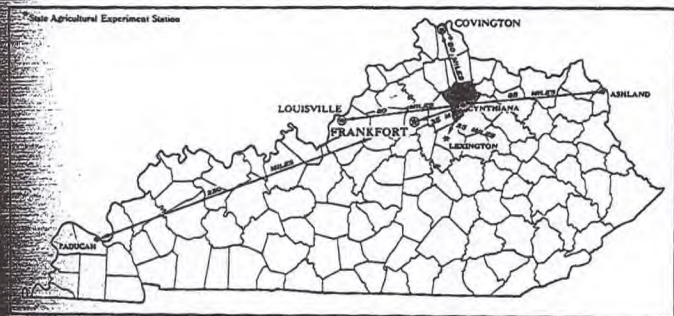


Figure 1.—Location of Harrison County in Kentucky.

**NON-RECURRING CHARGE COST JUSTIFICATION**

Type of Charge \_\_\_\_\_ Field Collection Charges \_\_\_\_\_

1. Field Expense:

A.	Materials (Itemize)		\$	
	_____			
	_____			
B.	Labor (Time and Wage)			
	<u>16.91 hr avg/60 min= .28 X 40</u>	\$		11.20
	<b>Total Field Expense</b>	<b>\$</b>		<b>11.20</b>

2. Clerical and Office Expense

A.	Supplies (paper & postage)	\$		.99
B.	Labor (avg salary - 15 min to send notice)	\$		2.00
	<b>Total Clerical and Office Expense</b>	<b>\$</b>		<b>2.99</b>

3. Miscellaneous Expense

A.	Transportation (vehicle depreciation)	\$		8.00
B.	Other (Itemize) Fuel @.55/mi X 20 mi (Avg trip 20 mi or \$11.00)	\$		11.00
	<b>Total Miscellaneous Expense</b>	<b>\$</b>		<b>19.00</b>

	<b>Total Non-recurring Charge Expense</b>	<b>\$</b>		<b>33.19</b>
	<b>Requesting</b>	<b>\$</b>		<b>30.00</b>
	<b>+ If lock cut must be replaced @ \$ _____</b>			

## NON-RECURRING CHARGE COST JUSTIFICATION

Type of Charge                     Cut Lock Fee                    

1. Field Expense:

A.	Materials (Itemize)		\$
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B.	Labor (Time and Wage)		
	<u>16.91 hr avg/60 min= .28 X 60</u>	\$	16.91
	<b>Total Field Expense</b>	<b>\$</b>	<b>16.91</b>

2. Clerical and Office Expense

A.	Supplies (paper & postage)	\$	
B.	Labor (avg salary - 15 min to send notice)	\$	
	<b>Total Clerical and Office Expense</b>	<b>\$</b>	

3. Miscellaneous Expense

A.	Transportation (vehicle depreciation)	\$	8.00
B.	Other (Itemize) Fuel @.55/mi X 20 mi (Avg trip 20 mi or \$11.00)	\$	11.00
C.	New Lock	\$	15.00
	<b>Total Miscellaneous Expense</b>	<b>\$</b>	<b>34.00</b>

	<b>Total Non-recurring Charge Expense</b>	<b>\$</b>	<b><u>50.91</u></b>
	<b>Requesting</b>	<b>\$</b>	<b>36.00</b>



## NON-RECURRING CHARGE COST JUSTIFICATION

Type of Charge Re-connection Charge

1. Field Expense:

A. Materials (Itemize)

	\$
	\$
	\$

B. Labor (Time and Wage)

<u>16.91 hr avg/60 min= .28 X 100 min avg</u>	\$ 28.00
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<b>Total Field Expense</b>	<b>\$ 28.00</b>
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2. Clerical and Office Expense

A. Supplies (paper & postage)	\$
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B. Labor (avg salary - 15 min to send notice)	\$
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<b>Total Clerical and Office Expense</b>	<b>\$</b>
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3. Miscellaneous Expense

A. Transportation (Vehicle Depreciation)	\$ 8.00
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B. Other (Itemize) Fuel @.55/mi X 40 mi (Avg trip 20 mi or \$11.00)	\$ 22.00
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<b>Total Miscellaneous Expense</b>	<b>\$ 30.00</b>
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<b>Total Non-recurring Charge Expense</b>	<b>\$ 58.00</b>
<b>Requesting</b>	<b>\$ 50.00</b>

+ If lock cut must be replaced @ \$15.00

## NON-RECURRING CHARGE COST JUSTIFICATION

Type of Charge \_\_\_\_\_ Meter Test at Customer Request \_\_\_\_\_

1. Field Expense:

A.	Materials (Itemize)		\$
	<u>New Meter (\$15.00 if defective)</u>		
B.	Labor (Time and Wage)		
	<u>16.91 hr avg/60 min= .28 X 60</u>	\$	16.91
	<b>Total Field Expense</b>	\$	<b>16.91</b>

2. Clerical and Office Expense

A.	Supplies (paper & postage)	\$	
B.	Labor (avg salary - 15 min to send notice)	\$	
	<b>Total Clerical and Office Expense</b>	\$	

3. Miscellaneous Expense

A.	Transportation (vehicle depreciation)	\$	8.00
B.	Other (Itemize) Fuel @.55/mi X 20 mi (Avg trip 20 mi or \$11.00)	\$	11.00
C.	Meter Test (Dykes)	\$	14.00
	<b>Total Miscellaneous Expense</b>	\$	<b>19.00</b>

	<b>Total Non-recurring Charge Expense</b>	\$	<b>35.91</b>
	<b>Requesting</b>	\$	<b>36.00</b>