

# Kansas Water Plan, Clean Drinking Water Fee provide help to 406 systems in FY08

**K**ansas Rural Water Association has provided technical assistance to public water systems through a contract funded through the Kansas Water Plan since 1992. In several recent years, the Kansas Department of Health and Environment (KDHE) provided supplemental funding to the contract. In FY08, technical assistance was funded as an expenditure of the Clean Drinking Water Fee.

Why all that history? Well, KRWA operates numerous other contracts. Funding for those is either through National Rural Water Association or a contract that allows KDHE to use federal set-asides from the drinking water revolving loan

In FY08, the contract enabled KRWA to provide assistance to 406 individual public water systems. These consisted of 242 different cities and 164 rural water systems. The Kansas Water Office also assigned 97 water conservation plans to KRWA.

program. This article summarizes the work from July 1, 2007 to June 30, 2008. A summary booklet was provided to all members of the Kansas Water Authority and mailed to each Basin Advisory Committee member. The report is also posted on the KRWA Web site; the system contacts are 'searchable'. This paper copy will reach water system representatives who may not have Internet access.

### What services were provided?

In FY08, the contract enabled KRWA to provide assistance to 406 individual public water systems. These consisted of 242 different cities and 164 rural water systems. The Kansas Water Office also assigned 97 water conservation plans to KRWA. Since 2003, 110 plans have been approved, 30 have been revised and submitted back to systems and 30 plans are in development.

## Systems assisted through FY '08 Kansas Water Plan Contract

Allen RWD 11	Cherokee RWD 8	City of Bird City	City of Chicopee	City of Denison	City of Frankfort
Allen RWD 2	City of Abilene	City of Blue Mound	City of Cimarron	City of DeSoto	City of Fredonia
Anderson Cons. RWD 1	City of Agra	City of Bonner Springs	City of Circleville	City of Dodge City	City of Galena
Anderson RWD 3	City of Almena	City of Brewster	City of Claflin	City of Dorrance	City of Galesburg
Anderson RWD 4	City of Altamont	City of Bronson	City of Clay Center	City of Downs	City of Gardner
Atchison Cons. RWD 5	City of Altoona	City of Brookville	City of Coffeyville	City of Durham	City of Gaylord
Barber RWD 2	City of Arcadia	City of Buffalo	City of Colby	City of Edgerton	City of Girard
Bourbon Cons. RWD 2	City of Arlington	City of Bunker Hill	City of Coldwater	City of Edna	City of Glade
Brown RWD 1	City of Arma	City of Burlingame	City of Columbus	City of Elbing	City of Goodland
Brown RWD 2	City of Ashland	City of Burlington	City of Corning	City of Elgin	City of Gorham
Butler RWD 2	City of Atchison	City of Burns	City of Cottonwood Falls	City of Elk City	City of Gorham
Butler RWD 4	City of Atlanta	City of Burr Oak	City of Courtland	City of Ellinwood	City of Gove
Butler RWD 5	City of Attica	City of Carbondale	City of Cuba	City of Ellinwood	City of Grainfield
Butler RWD 7	City of Barnard	City of Cawker City	City of Cullison	City of Elwood	City of Green
Chautauqua RWD 4	City of Barnes	City of Centralia	City of Cunningham	City of Enterprise	City of Greensburg
Cherokee RWD 1	City of Baxter Springs	City of Chanute	City of Damar	City of Erie	City of Grinnell
Cherokee RWD 2	City of Belleville	City of Chapman	City of De Soto	City of Esbon	City of Hamilton
Cherokee RWD 3	City of Beloit	City of Chautauqua	City of Dearing	City of Eudora	City of Hanover
Cherokee RWD 4	City of Bennington	City of Cherokee	City of Delia	City of Everest	City of Harper
Cherokee RWD 5	City of Bentley	City of Cherryvale	City of Delphos	City of Fontana	City of Hartford
Cherokee RWD 7	City of Bern	City of Chetopa	City of Delphose	City of Fort Scott	City of Herington

## Systems assisted through FY '08 Kansas Water Plan Contract

City of Herndon	City of Medicine Lodge	City of Sabetha	Dickinson RWD 1	Leavenworth RWD 10	Riley RWD 1
City of Hesston	City of Milford	City of Satanta	Dickinson RWD 2	Leavenworth Water Dept.	Rooks RWD 2
City of Hiawatha	City of Morrill	City of Scammon	Doniphan RWD 3	Linn RWD 1	Rooks RWD 3
City of Highland	City of Moscow	City of Scandia	Doniphan RWD 5	Linn RWD 2	Rush RWD 1
City of Hill City	City of Mound City	City of Sedan	Doniphan RWD 6	Linn RWD 3	Russell RWD 1
City of Holton	City of Mulberry	City of Seneca	Douglas RWD 1	Lyon RWD 4	Russell RWD 3
City of Holyrood	City of Natoma	City of Severy	Douglas RWD 4	Lyon RWD 5	Russell RWD 4
City of Horton	City of Neodesha	City of Sharon Springs	Douglas RWD 5	Marion County Imp. Dist. 2	Salina RWD 8
City of Howard	City of New Strawn	City of Solomon	Douglas RWD 6	Marion RWD 1	Saline RWD 2
City of Hoxie	City of Norton	City of Speed	Elk RWD 2	Marshall RWD 3	Saline RWD 3
City of Humboldt	City of Nortonville	City of St. Francis	Ellis Cons. RWD 1	Metropolitan Topeka Air.	Saline RWD 8
City of Hunter	City of Oakley	City of St. George	Ellis RWD 3	Miami RWD 1	Shawnee Cons. RWD 1
City of Independence	City of Oberlin	City of St. John	Ellsworth RWD 1	Miami RWD 3	Shawnee Cons. RWD 2
City of Iola	City of Ogden	City of St. Paul	Finney RWD 1	Miami RWD 4	Shawnee Cons. RWD 3
City of Jennings	City of Olathe	City of Stockton	Franklin RWD 3	Mitchell RWD 2	Shawnee Cons. RWD 4
City of Jewell	City of Olpe	City of Summerfield	Franklin RWD 4	Mitchell RWD 3	Shawnee RWD 8
City of Kensington	City of Onaga	City of Tescott	Franklin RWD 5	Montgomery RWD 6	Smith RWD 1
City of Kiowa	City of Oneida	City of Tonganoxie	Franklin RWD 6	Montgomery RWD 7	Southwind Dev. Corp.
City of Kirwin	City of Osawatomie	City of Towanda	Franklin RWD 7	Montgomery RWD 8	Suburban Water Co.
City of La Cygne	City of Osborne	City of Tribune	Geary RWD 2	Montgomery RWD 9	Sundowner West
City of Lancaster	City of Oswego	City of Troy	Greenwood RWD 1	Montgomery RWD 10	Trego RWD 1
City of Lane	City of Otis	City of Turon	Greenwood RWD 2	Montgomery RWD 12	USD 228 Central Heights
City of Lecompton	City of Ottawa	City of Ulysses	Hamilton RWD 1	Montgomery RWD 14	Wabaunsee RWD 2
City of Lenora	City of Ozawkie	City of Utica	Harper RWD 5	Morris RWD 1	Washington RWD 1
City of Leon	City of Palco	City of Valley Falls	Harvey RWD 1	Nemaha RWD 1	Washington RWD 2
City of Leoti	City of Paola	City of Victoria	Hays Suburban Estates	Nemaha RWD 3	Water One
City of Lewis	City of Park	City of Virgil	Iowa Tribe	Nemaha RWD 4	Wilson RWD 10
City of Liberal	City of Park City	City of WaKeeney	Jackson RWD 3	Neosho Cons. RWD 1	Wilson RWD 11
City of Lindsborg	City of Parker	City of Wakefield	Jefferson RWD 1	Neosho Cons. RWD 4	Wilson RWD 12
City of Little River	City of Parsons	City of Waldo	Jefferson RWD 3	Neosho RWD 6	Wilson RWD 5
City of Logan	City of Paxico	City of Walnut	Jefferson RWD 7	Nicodemus Township	Wilson RWD 7
City of Long Island	City of Perry	City of Washington	Jefferson RWD 9	Osage RWD 3	Wilson RWD 8
City of Longton	City of Peru	City of Wathena	Jefferson RWD 10	Osage RWD 7	Wilson RWD 9
City of Louisburg	City of Phillipsburg	City of Weir	Jefferson RWD 11	Osage RWD 8	Woodson RWD 1
City of Lucas	City of Plains	City of Wetmore	Jefferson RWD 12	Osborne RWD 1A	
City of Luray	City of Plainville	City of Willis	Jefferson RWD 13	Osborne RWD 2	
City of Luray	City of Powhattan	City of Wilsey	Jewell RWD 1	Ottawa RWD 2	
City of Lyndon	City of Pratt	City of Wilson	Army Ammunition Plant	Perry State Park	
City of Lyons	City of Preston	City of Winchester	Kansas City BPU	Phillips RWD 1	
City of Madison	City of Protection	City of Woodston	Kaw Valley School	Pottawatomie RWD 2	
City of Manhattan	City of Quinter	City of Yates Center	Kickapoo Nation	Pottawatomie RWD 3	
City of Mankato	City of Randall	Clay Center BPU	Kingman RWD 1	Pottawatomie RWD 4	
City of Manter	City of Ransom	Coffey RWD 2	King's Camp	Public Wholesale 4	
City of Marquette	City of Reserve	Comanche RWD 1	Labette RWD 1	Public Wholesale 5	
City of Marysville	City of Richmond	Cowley RWD 3	Labette RWD 6	Public Wholesale 12	
City of Mayetta	City of Riely	Cowley RWD 6	Lansing Correctional Fac.	Public Wholesale 13	
City of McCune	City of Riley	Crawford Chicopee Corp.	Leavenworth RWD 1	Public Wholesale 19	
City of McDonald	City of Rose Hill	Crawford RWD 5	Leavenworth RWD 5	Public Wholesale 23	
City of McFarland	City of Rozel	Crawford RWD 6	Leavenworth RWD 6	Republic RWD 1	
City of McLouth	City of Russell	Crawford RWD 7	Leavenworth RWD 7	Republic RWD 2	

## Summary Report, Fiscal Year 08



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Check out the entire  
report online at:

[www.krwa.net/specialfocus/fy08.shtml](http://www.krwa.net/specialfocus/fy08.shtml)

TO: Kansas Water Authority, Basin Advisory Committees, State Agencies, Legislative Committees  
From: Kansas Rural Water Association, by Elmer Ronnebaum, General Manager

Subject: Summary Report, "Technical Assistance To Water Users: Public Water Supply Systems" FY 08

Date: August 8, 2008

This booklet is the 17th annual report by the Kansas Rural Water Association (KRWA) to summarize the assistance provided to public water systems utilizing funding through the Kansas Water Plan contract for technical assistance to public water systems. This program has been funded through the Kansas Water Plan since 1991 (FY 92). This program provides invaluable services to public water supply systems across Kansas.

This contract enabled KRWA to provide assistance to 406 individual public water systems in FY 08. These consisted of 242 different cities and 164 rural water districts or other systems. The goal of the contract was to provide approximately 3,200 of on-site assistance to public water systems. The contract provided 2,643 hours of on-site assistance and 3,726 hours of off-site (travel, phone and support). With time allocated to providing training, agency contacts, outreach and administrative time, the total time provided for this contract was 10,690 hours.

In FY 08, KRWA worked with 44 "Special Focus" projects are those identified with unaccounted for water loss of 30% or more or those systems reporting a negative water loss.

In FY 08 KRWA provided the following through this contract:

- Assistance to 242 different cities and 164 rural water systems or others; see pages 8 and 9. KRWA operates additional contracts with other agencies to provide additional services to systems across the state.
- Conducted 8 full water right reviews / reports under the South Central Kansas Water Resources Study agreement. Reports were completed for City of Mulvane, City of Geuda Springs, City of Augusta, City of Arkansas City, City of Burden, City of South Haven, City of Cambridge and Rural Water District No. 1, Sumner County.
- 65 water loss surveys, locating 354,254,400 gallons of loss on an annual basis. The cost of this production or purchase of water on an annual basis is \$888,549. Any leakage detected which is considered an emergency leak is reduced by 50% for reporting purposes.
- Worked with 44 "Special Focus" systems to reduce unaccounted for water loss of 30% or more or having negative loss.
- Kansas Water Office assigned 96 systems for development or updating of their Water Conservation Plans to comply with the 2007 Guidelines.

Expenditures under this contract totaled \$330,780. Funding was provided in the amount of \$329,949.

KRWA appreciates the opportunity to provide services to public water systems through this contract.



Reducing unaccounted for water loss is a major focus of the contract. The Kansas Water Office identifies all the systems having an unaccounted for water loss of 30 percent or greater for assistance by KRWA. In 2008, the Water Office also identified those systems having a negative water loss. In FY 08, KRWA worked with 44 “Special Focus” systems on water loss

In addition, KRWA staff addressed water loss in scores of other systems in the period. KRWA conducted 65 water loss surveys, locating 354,254,400 gallons of loss on an annual basis. The cost of this production or purchase of water on an annual basis is \$888,549. Any leakage detected which is considered an emergency situation is reduced by 50 percent for reporting purposes. See the chart for the totals of water loss surveys since 1991.

Expenditures under the contract totaled \$333,780. Funding received for the contract totaled \$329,949.

KRWA has posted the entire report online at [www.krwa.net/specialfocus/f08.sthml](http://www.krwa.net/specialfocus/f08.sthml). The report is searchable by system or by basin. KRWA posts follow-up documentation of many tech assistance visits on the Web site at [www.krwa.net/ops/water.asp](http://www.krwa.net/ops/water.asp).

Public Water Suppliers with 30% or More Unaccounted For Water Loss					
System	Percent Unaccounted For Water Loss		System	Percent Unaccounted For Water Loss	
	2006	2005		2006	2005
City of Baxter Springs	33	20	Greenwood RWD 1	36	43
City of Bird City	42	25	Hamilton RWD 1	36	8
City of Chautauqua	--	--	Jefferson RWD 3	23	20
Cherokee RWD 1	32	58	City of Kensington	21	33
Cherokee RWD 7	12	26	City of Kirwin	16	33
Cowley RWD 7	33	33	Leavenworth RWD 2	33	--
Crawford RWD 5	29	40	City of Manter	48	24
City of De Soto	44	15	City of McDonald	42	10
Dickinson RWD 1	25	28	Montgomery RWD 9	--	--
Doniphan RWD 1	36	35	Neosho RWD 5	48	36
City of Dorrance	44	7	Osborne RWD 1A	60	50
City of Elgin	60	78	Republic RWD 1	26	31
City of Emmett	30	23	Republic RWD 2	10	30
City of Gaylord	37	5	City of Reserve	43	24
City of Glade	29	42	Saline RWD 8	37	18
City of Gove	31	24	City of White City	20	23

Public Water Suppliers with Less than 0% Unaccounted for Water Loss					
System	Percent Unaccounted for Water Loss		System	Percent Unaccounted for Water Loss	
	2006	2005		2006	2005
Butler Co. RWD 4	7	-9	City of Mayfield	0	3
Cowley RWD 8	-9	-4	McPherson RWD 3	-6	8
Geary RWD 1	-2	-1	City of Rose Hill	-1	2
Labette RWD 6	--	-9	City of Sedgwick	-25	-25
Marion Co. Imp. Dist. 2	-27	-15	City of Speed	-27	11
Marion RWD 2	-3	12	City of Waldo	-2	-12

Water Loss Surveys conducted, FY 92 - FY 08					
	<b>FY 92</b>	<b>FY 93</b>	<b>FY 94</b>	<b>FY 95</b>	
Number of Surveys	64	55	38	26	
GPM detected	530.25	285.25	457.5	137.5	
GPY detected	282,956,760	149,927,400	240,426,400	72,270,000	
\$ Cost Savings	\$280,981	\$270,011	\$340,610	\$92,176	
	<b>FY 96</b>	<b>FY 97</b>	<b>FY 98</b>	<b>FY 99</b>	
Number of Surveys	23	29	25	54	
GPM detected	268.25	238	151.75	632.75	
GPY detected	141,176,160	125,092,800	79,759,800	332,573,400	
\$ Cost Savings	\$180,985	\$192,555	\$150,771	\$572,037	
	<b>FY 00</b>	<b>FY 01</b>	<b>FY 02</b>	<b>FY 03</b>	
Number of Surveys	50	49	49	38	
GPM detected	393.25	448.75	454	275	
GPY detected	206,692,200	235,863,000	238,753,800	144,540,000	
\$ Cost Savings	\$339,137	\$607,989	\$423,858	\$225,522	
	<b>FY 04</b>	<b>FY 05</b>	<b>FY 06</b>	<b>FY 07</b>	
Number of Surveys	40	44	40	53	
GPM detected	246	256.5	261	463	
GPY detected	129,665,000	134,790,120	137,181,600	243,352,800	
\$ Cost Savings	\$421,953	\$278,814	\$253,846	\$650,564	
	<b>FY 08</b>	<b>Total 92 - 08</b>			
Number of Surveys	65	742			
GPM detected	674	6,173			
GPY detected	354,254,400	3,249,275,640			
\$ Cost Savings	\$888,549	\$6,170,358			

GPM = gallons per minute  
GPY = gallons per year