

# Storm Drainage

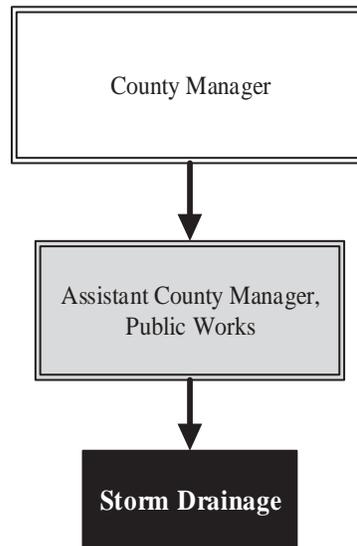
**Mission:** To enhance public safety and property values by minimizing property damage from flooding and erosion, protection of stormwater quality, enforcement of local regulations, and compliance with federal and state law.

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## Overview

The programs of Storm Drainage: Stream Maintenance, Flood Control, and Stormwater Management, prevent or minimize flood damage by shaping and clearing streambeds and managing drainage in the County's unincorporated areas. Staff reviews stormwater requirements for developments, provides planning and permitting services for capital improvement projects, and conducts and oversees long-term project planning of drainage enhancements in unincorporated Sedgwick County. Of particular note is the Division's continuing and successful effort to improve flow on Jester Creek. Storm Drainage jointly funds maintenance of the Wichita-Valley Center Flood Control Project with the City of Wichita.



## Strategic Goals:

- *Protect the County's infrastructure by keeping watercourses free from obstruction*
- *Protect the investment in the Wichita-Valley Center Flood Control Project by supporting an effective maintenance program*
- *Improve stormwater quality and the environment through an effective stormwater management program*

## Highlights

- Remediation of Dry Creek to prevent flooding and restore natural habitat
- Signed a Memorandum of Agreement with Kansas Department of Wildlife, Parks, and Tourism
- Cleaned out Spring Creek near Derby by removing trees and debris, improving water flow, and protecting property



# Accomplishments and Priorities

## Accomplishments

The Storm Drainage Division has provided joint funding with the City of Wichita to ensure upkeep and maintenance of the Wichita-Valley Center Flood Control project (the "Big Ditch") to annually meet Federal regulations. The Stream Maintenance Division has worked to improve water flow along several County streams, including Dry Creek, Jester Creek, and Cowskin Creek. This time-consuming process involves meeting with property owners to explain the project and gain permission to access private property if necessary. The Stream Maintenance crew is meticulous to leave property in the same or better condition than when it arrived. The Division has also successfully restored natural habitats in waterways to ensure the preservation of endangered species. The Storm Drainage Division has also reached an agreement with the Kansas Department of Wildlife, Parks, and Tourism (KDWPT) to streamline project approvals and reduce regulatory burdens on citizens and Sedgwick County as it relates to threatened and endangered species in the State. Sedgwick County is the only local unit of government in Kansas to reach such an agreement with KDWPT.

## Priorities

Storm Drainage continues to maintain operations with reduced resources; proactively clearing debris and vegetation from County maintained streams to reduce or eliminate impact on property owners and infrastructure; and ensuring environmental compliance through the timely acquisition of permits. In addition, a priority for Storm Drainage is to continue the levee certification process in the Wichita-Valley Center Flood Control Project. This certification of 100 miles of levees is required by the Federal Emergency Management Agency and keeps property owners from increased insurance rates.



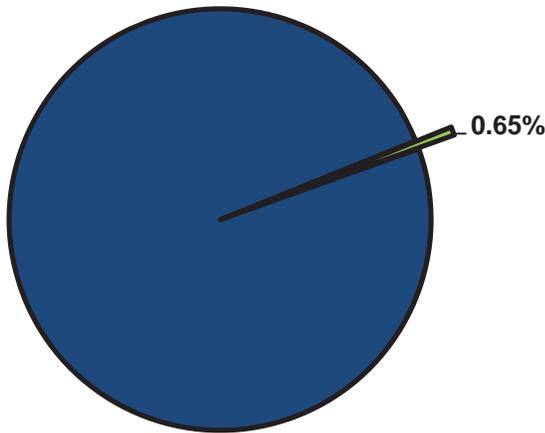
## Significant Budget Adjustments

Significant adjustments to Storm Drainage's 2018 budget include continued funding of the Wichita-Valley Center Flood Control Program for major maintenance and repairs in the 2018 Capital Improvement Program (\$500,000), an increase of \$235,000 in capital equipment to purchase a mid-size backhoe and a half-ton extended cab truck, \$108,638 for 2.0 FTE Equipment Operator III positions, \$100,000 for Stormwater Pump Station O&M Fees at 45th and Ridge Road, \$60,000 to fund a study for long-term funding solutions for flood control projects, and \$38,684 in increased fleet charges due to the new equipment.

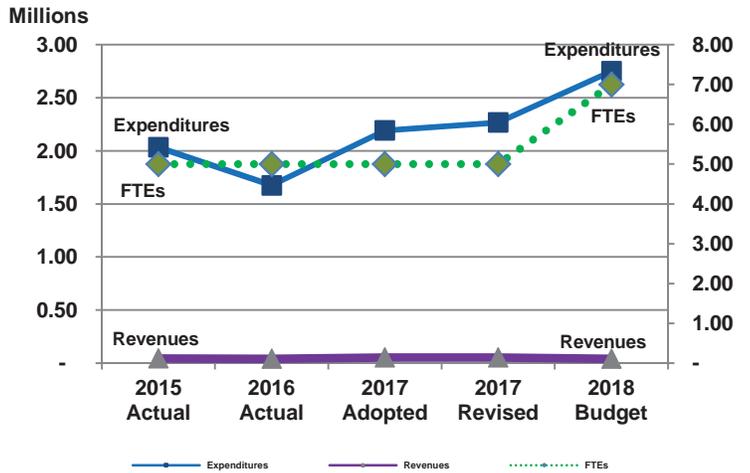


**Divisional Graphical Summary**

**Storm Drainage**  
Percent of Total County Operating Budget



**Expenditures, Program Revenue & FTEs**  
All Operating Funds



**Budget Summary by Category**

	2015 Actual	2016 Actual	2017 Adopted	2017 Revised	2018 Budget	Amount Chg '17 Rev.-'18	% Chg '17 Rev.-'18
<b>Expenditures</b>							
Personnel	384,771	373,439	412,384	415,201	527,719	112,518	27.10%
Contractual Services	1,144,537	1,298,628	1,277,674	1,347,378	1,483,802	136,424	10.13%
Debt Service	-	-	-	-	-	-	-
Commodities	3,449	2,389	2,444	2,444	2,450	6	0.25%
Capital Improvements	50	-	500,000	1,500	500,000	498,500	33233.33%
Capital Equipment	-	-	-	-	235,000	235,000	-
Interfund Transfers	500,000	-	-	500,000	-	(500,000)	-100.00%
<b>Total Expenditures</b>	<b>2,032,807</b>	<b>1,674,456</b>	<b>2,192,502</b>	<b>2,266,523</b>	<b>2,748,971</b>	<b>482,448</b>	<b>21.29%</b>
<b>Revenues</b>							
Tax Revenues	-	-	-	-	-	-	-
Licenses and Permits	-	-	-	-	-	-	-
Intergovernmental	-	-	-	-	-	-	-
Charges for Services	-	-	-	-	-	-	-
All Other Revenue	42,023	38,293	52,448	52,448	39,450	(12,998)	-24.78%
<b>Total Revenues</b>	<b>42,023</b>	<b>38,293</b>	<b>52,448</b>	<b>52,448</b>	<b>39,450</b>	<b>(12,998)</b>	<b>-24.78%</b>
<b>Full-Time Equivalent (FTEs)</b>							
Property Tax Funded	5.00	5.00	5.00	5.00	7.00	2.00	40.00%
Non-Property Tax Funded	-	-	-	-	-	-	-
<b>Total FTEs</b>	<b>5.00</b>	<b>5.00</b>	<b>5.00</b>	<b>5.00</b>	<b>7.00</b>	<b>2.00</b>	<b>40.00%</b>

**Budget Summary by Fund**

Fund	2015 Actual	2016 Actual	2017 Adopted	2017 Revised	2018 Budget	Amount Chg '17 Rev.-'18	% Chg '17 Rev.-'18
General Fund	2,032,807	1,674,456	2,192,502	2,266,523	2,748,971	482,448	21.29%
<b>Total Expenditures</b>	<b>2,032,807</b>	<b>1,674,456</b>	<b>2,192,502</b>	<b>2,266,523</b>	<b>2,748,971</b>	<b>482,448</b>	<b>21.29%</b>

**Significant Budget Adjustments from Prior Year Revised Budget**

	Expenditures	Revenues	FTEs
Increase in capital equipment to purchase a mid-sized backhoe and half-ton extended cab truck	235,000		
Addition of 2.0 FTE Equipment Operator III positions	108,638		2.00
Increase for Stormwater Pump Station O&M Fees	100,000		
Funding for study of long-term funding solutions for flood control projects	60,000		
Increase in fleet charges for new equipment	38,684		
<b>Total</b>	<b>542,322</b>	<b>-</b>	<b>2.00</b>

**Budget Summary by Program**

Program	Fund	2015 Actual	2016 Actual	2017 Adopted	2017 Revised	2018 Budget	% Chg '17 Rev.-'18	2018 FTEs
Stream Maintenance	110	474,329	479,937	488,251	485,339	881,846	81.70%	6.00
Flood Control	110	1,483,969	1,091,129	1,591,129	1,602,333	1,591,129	-0.70%	-
Stormwater Management	110	74,509	103,390	113,122	178,851	275,996	54.32%	1.00
<b>Total</b>		<b>2,032,807</b>	<b>1,674,456</b>	<b>2,192,502</b>	<b>2,266,523</b>	<b>2,748,971</b>	<b>21.29%</b>	<b>7.00</b>

**Personnel Summary By Fund**

Position Titles	Fund	Grade	Budgeted Compensation Comparison			FTE Comparison		
			2017 Adopted	2017 Revised	2018 Budget	2017 Adopted	2017 Revised	2018 Budget
Engineer	110	GRADE133	72,500	73,928	73,928	1.00	1.00	1.00
Crew Foreman	110	GRADE124	54,929	55,694	55,694	1.00	1.00	1.00
Crew Chief	110	GRADE122	47,143	49,727	49,727	1.00	1.00	1.00
Equipment Operator III	110	GRADE120	44,090	45,764	104,212	1.00	1.00	3.00
Equipment Operator III	110	FROZEN	48,965	49,107	49,107	1.00	1.00	1.00
<b>Subtotal</b>					<b>332,668</b>			
Add:								
Budgeted Personnel Savings					-			
Compensation Adjustments					13,809			
Overtime/On Call/Holiday Pay					7,349			
Benefits					173,893			
<b>Total Personnel Budget</b>					<b>527,719</b>	<b>5.00</b>	<b>5.00</b>	<b>7.00</b>

### • Stream Maintenance

The Stream Maintenance Division serves Sedgwick County citizens by correcting obstructions within watercourses, reshaping bank lines to ensure the normal course of flow following flood conditions, and inspecting streams and other watercourses during prolonged rain and flood conditions to ensure protection of life and property.

The Division's six-person staff performs the wide variety of work outlined above. They are assigned and use a variety of heavy equipment, principally bulldozers and tracked excavators, to accomplish their mission.

#### Fund(s): County General Fund 110

Expenditures	2015 Actual	2016 Actual	2017 Adopted	2017 Revised	2018 Budget	Amnt. Chg. '17 - '18	% Chg. '17 - '18
Personnel	292,813	289,294	307,490	310,307	419,938	109,631	35.3%
Contractual Services	178,067	188,254	178,317	172,588	224,458	51,870	30.1%
Debt Service	-	-	-	-	-	-	0.0%
Commodities	3,449	2,389	2,444	2,444	2,450	6	0.2%
Capital Improvements	-	-	-	-	-	-	0.0%
Capital Equipment	-	-	-	-	235,000	235,000	0.0%
Interfund Transfers	-	-	-	-	-	-	0.0%
<b>Total Expenditures</b>	<b>474,329</b>	<b>479,937</b>	<b>488,251</b>	<b>485,339</b>	<b>881,846</b>	<b>396,507</b>	<b>81.7%</b>
<b>Revenues</b>							
Taxes	-	-	-	-	-	-	0.0%
Intergovernmental	-	-	-	-	-	-	0.0%
Charges For Service	-	-	-	-	-	-	0.0%
All Other Revenue	28	-	-	-	-	-	0.0%
<b>Total Revenues</b>	<b>28</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>
<b>Full-Time Equivalents (FTEs)</b>	<b>4.00</b>	<b>4.00</b>	<b>4.00</b>	<b>4.00</b>	<b>6.00</b>	<b>2.00</b>	<b>50.0%</b>

### • Flood Control

The City-County Flood Control program inspects, operates, and maintains the Wichita-Valley Center Flood Control Project in accordance with standards established by the U.S. Army Corps of Engineers. This program is administered by the City of Wichita's Public Works Department and is funded equally by the City of Wichita and Sedgwick County.

The Wichita-Valley Center Flood Control Project includes 40.9 miles of channels, 97 miles of levees, and total area of 5,613 acres. Maintenance of the flood control project includes mowing, clearing draining structures, removing debris from bridges and other structures, grading levees and roadways, repairing erosion, stabilizing banks, and repairing fences and gates.

#### Fund(s): County General Fund 110

Expenditures	2015 Actual	2016 Actual	2017 Adopted	2017 Revised	2018 Budget	Amnt. Chg. '17 - '18	% Chg. '17 - '18
Personnel	-	-	-	-	-	-	0.0%
Contractual Services	983,969	1,091,129	1,091,129	1,102,333	1,091,129	(11,204)	-1.0%
Debt Service	-	-	-	-	-	-	0.0%
Commodities	-	-	-	-	-	-	0.0%
Capital Improvements	-	-	500,000	-	500,000	500,000	0.0%
Capital Equipment	-	-	-	-	-	-	0.0%
Interfund Transfers	500,000	-	-	500,000	-	(500,000)	-100.0%
<b>Total Expenditures</b>	<b>1,483,969</b>	<b>1,091,129</b>	<b>1,591,129</b>	<b>1,602,333</b>	<b>1,591,129</b>	<b>(11,204)</b>	<b>-0.7%</b>
<b>Revenues</b>							
Taxes	-	-	-	-	-	-	0.0%
Intergovernmental	-	-	-	-	-	-	0.0%
Charges For Service	-	-	-	-	-	-	0.0%
All Other Revenue	41,994	38,293	52,448	52,448	39,450	(12,998)	-24.8%
<b>Total Revenues</b>	<b>41,994</b>	<b>38,293</b>	<b>52,448</b>	<b>52,448</b>	<b>39,450</b>	<b>(12,998)</b>	<b>-24.8%</b>
<b>Full-Time Equivalents (FTEs)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>

**• Stormwater Management**

Stormwater Management provides citizens a single point of contact for drainage issues within the unincorporated areas of the County. Equally important is the capability to implement a comprehensive approach to stormwater planning and design. Established in 2001, the Division has been responsible for a series of drainage projects beginning in the 2001 capital improvement program. These drainage projects occupy a significant portion of the Division's time, as does the design of future projects. The Division has a wide variety of responsibilities that include implementation of Phase II of the National Pollutant Discharge Elimination System (NPDES), a federal mandate.

<b>Fund(s): County General Fund 110</b>							
<b>Expenditures</b>	<b>2015 Actual</b>	<b>2016 Actual</b>	<b>2017 Adopted</b>	<b>2017 Revised</b>	<b>2018 Budget</b>	<b>Amnt. Chg. '17 - '18</b>	<b>% Chg. '17 - '18</b>
Personnel	91,958	84,146	104,894	104,894	107,781	2,887	2.8%
Contractual Services	(17,498)	19,245	8,228	72,458	168,215	95,757	132.2%
Debt Service	-	-	-	-	-	-	0.0%
Commodities	-	-	-	-	-	-	0.0%
Capital Improvements	50	-	-	1,500	-	(1,500)	-100.0%
Capital Equipment	-	-	-	-	-	-	0.0%
Interfund Transfers	-	-	-	-	-	-	0.0%
<b>Total Expenditures</b>	<b>74,509</b>	<b>103,390</b>	<b>113,122</b>	<b>178,851</b>	<b>275,996</b>	<b>97,144</b>	<b>54.3%</b>
<b>Revenues</b>							
Taxes	-	-	-	-	-	-	0.0%
Intergovernmental	-	-	-	-	-	-	0.0%
Charges For Service	-	-	-	-	-	-	0.0%
All Other Revenue	-	-	-	-	-	-	0.0%
<b>Total Revenues</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>
<b>Full-Time Equivalents (FTEs)</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>-</b>	<b>0.0%</b>