



URBAN DRAINAGE AND FLOOD CONTROL DISTRICT

• • • 2017 ANNUAL REPORT • • •

*Protecting people, property and the environment through
preservation, mitigation and education since 1969.*

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CHERRY CREEK AT ARAPAHOE ROAD



SOUTH PLATTE RIVER, RIVER RUN

2017 – THE YEAR OF CHANGE

It is with great pride that I present to you the Flood Control District's first ever, Annual Report. We felt this report fitting to begin in 2017 as it reflects the theme that has carried throughout a successful and exciting year. The theme of "Change".

In 2017, we merged the Floodplain Management and Master Planning programs into a new Watershed Services group. We created a new Operations and Development group. We rebranded our Design, Construction, and Maintenance program as our Stream Services group and then re-aligned our staff to a watershed service approach. We created a new Development Services Enterprise to better guide the land development community toward lower maintenance stream improvement infrastructure. We also realized that our annual publication, the Flood Hazard News (FHN) had run its course. Created in 1971, the FHN served as our year in review, successfully capturing our progress and accomplishments. In 2017, we decided to replace the FHN with an Annual Report. This report aims to create a more condensed yet informative summary of each year.

Before you dive in, I would be remiss if I didn't add that the accomplishments over the past year and the work ahead both depend on the support and contributions of our Board of Directors, our local government partners, and our dedicated staff. I am immensely grateful to all who support and contribute to our success.

— **KEN MACKENZIE**, *Executive Director*

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Commissioner Lora Thomas — *Douglas County*
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GOVERNING BODY

- 20 Locally Appointed Elected Officials
- 2 Licensed Professional Engineers

AWARD WINNING 2017 PROJECT

LITTLE DRY CREEK AT WESTMINSTER STATION

*Colorado Association of Stormwater & Floodplain Managers Statewide Project of the Year
American Public Works Association Statewide Project of the Year*



PROJECT SNAPSHOT

- Cost **\$16.2 million** • Timeline **2005 to 2017**
- Lowered the 100-year floodplain by five feet
- Integrated 172 acre-feet of flood storage detention
- Relocated and restored 4,100 linear feet of Little Dry Creek
- Restored and created aquatic habitat and riparian corridor
- Planted over 450 trees and 26,000 square feet of shrubs and grasses
- Tunneled 800 feet of utility pipeline up to 108-inch in diameter under Federal Blvd.



WORK COMPLETED IN 2017

The map displays the Denver Flood Control District boundary in black. Within this boundary, numerous project locations are marked with colored pins: orange for Maintenance Eligibility Projects, green for Restoration Maintenance, and blue for Capital Construction. Major roads like I-70, I-470, and US-85 are shown. Geographical features include Clear Creek and a peak of 5251 ft. Surrounding areas like Boulder, Longmont, Aurora, and Littleton are also labeled.

FLOOD CONTROL DISTRICT...

- Covers 1,608 square miles
- Includes 7 counties and 35 incorporated cities and towns
- Focus 1,600 miles of major streams
- Serves 2.8 million people

LEGEND

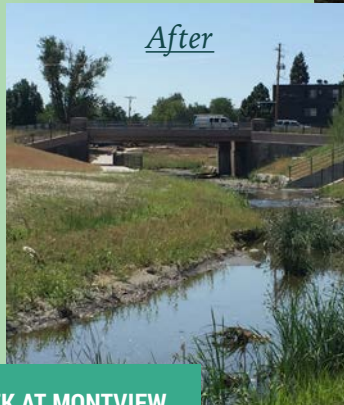
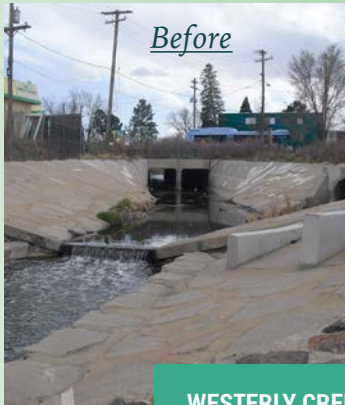
- Capital Construction* 13
- Restoration Maintenance* 21
- Maintenance Eligibility Projects* 83
- *Planning Studies & Floodplain Mapping* 5
- *District Boundary*



PINEY CREEK CALEY TO LIVERPOOL



BIG DRY CREEK AT THORN CREEK GOLF COURSE



WESTERLY CREEK AT MONTVIEW



DUTCH CREEK

CORE VALUES

- *Advocate* for public safety
- *Support* local governments
- *Use* public funds responsibly
- *Be stewards* of watersheds and streams
- *Advance* the practice



STAY CONNECTED WITH US

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EVERY YEAR BIG STORMS HAPPEN SOMEWHERE IN THE DENVER METRO AREA

Occasionally they cause significant damage and disruption to public services. On rare occasions, the flood impacts are far worse resulting in catastrophic property losses, destruction of public infrastructure, and fatalities.

Although flood warning services cannot prevent a flood, they reduce the consequences. People in harm's way will be warned well before serious flooding strikes through a close partnership with the National Weather Service and local emergency management offices.

2017 HIGHLIGHTS

- 219 support calls & 848 forecast products issued
- 14 million ALERT gage reports collected & archived
- New ALERT base station receiver in Westminster
- Two new ALERT gaging stations in Thornton



Real-time ALERT data, custom weather displays, flood forecasts, subscription services and other early flood detection tools can be found at: alert5.UDFCD.org and UDFCD.onerain.com.

41 DAYS WITH FLOOD POTENTIAL IN 2017

May	8, 9, 17-18, 26, 29	6
June	1, 2, 5, 6, 7, 11-12	7
July	8, 12, 13, 14, 15, 20, 21, 23, 25, 26, 27, 28, 29, 30	14
August	3, 5, 6, 7, 10, 12, 13, 14, 15, 16, 22, 30	12
September	11, 17	2

- Red dates are when automated rain gauges exceeded alarm thresholds.
- Blue dates indicate heavy rainfall only affected areas outside UDFCD's main area of concern such as the Hayman Burn Area in SW Douglas County and watersheds in northern Boulder County.
- Green dates are when a NWS flash flood watch was the highest threat level reached.
- Orange designates a flash flood warning.



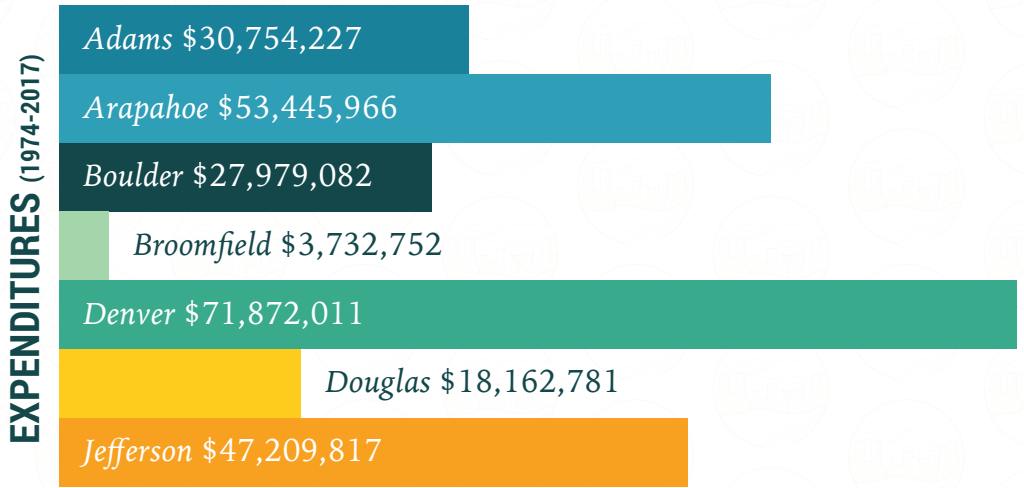
THE "1,000 YEAR" FOX HILL FLASH FLOOD OF 2017

Sometimes extreme rainfalls go relatively unnoticed. The storm that occurred on July 26, 2017 that struck a small area south of Parker in unincorporated Douglas County is a notable example.

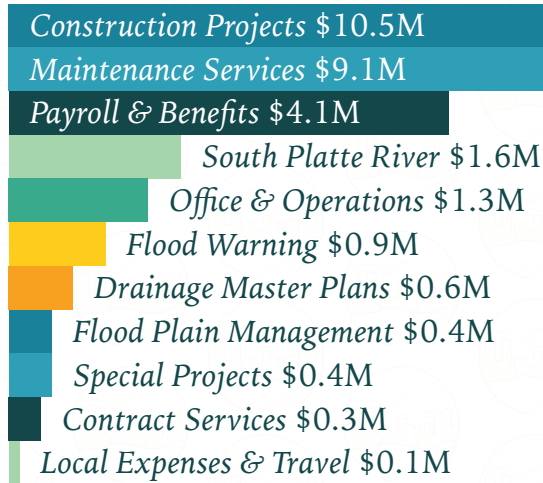
STORM DATE JULY 26 PHOTO DATE JULY 28

KENNEYS RUN, WEST FORK

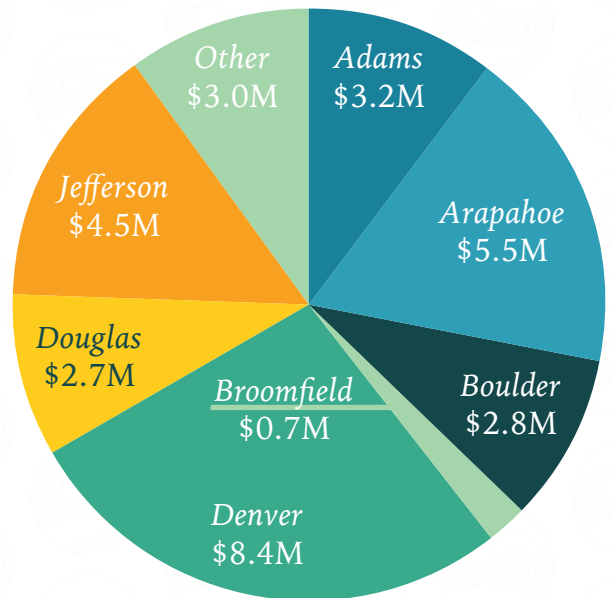
CAPITAL IMPROVEMENTS CONSTRUCTION FUND
Total Expenditures = \$253,156,637



2017 DISTRICT EXPENDITURES \$29.4M



COUNTY ASSESSMENT \$30.8M



2017 DISTRICT FINANCIAL INFORMATION

2017	
• Mill levy =	0.56
• Revenue =	30,796,221
• Expenditures =	29,381,951

SERVICE FOCUSED WORK STRUCTURE

<i>Watershed Services</i>	<i>Stream Services</i>	<i>Operations & Development Services</i>	<i>Flood Warning & Information Services</i>
 <p>MASTER PLANNING</p>	 <p>CAPITAL IMPROVEMENTS</p>	 <p>CRITERIA MANUAL ENGINEERING STANDARDS</p>	 <p>FLOOD WARNING SYSTEMS</p>
 <p>FLOODPLAIN PLANNING</p>	 <p>RESTORATION</p>	 <p>PERMIT ASSISTANCE</p>	 <p>RAIN & STREAM GAGE NETWORK</p>
 <p>DEVELOPMENT SERVICES</p>	 <p>STREAM MANAGEMENT</p>	 <p>RESEARCH</p>	 <p>EMERGENCY MANAGEMENT SUPPORT</p>

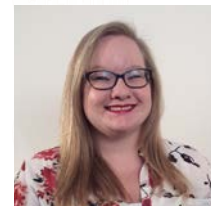
WELCOME NEW STAFF



Brooke Seymour started in March and has 11 years of experience, primarily with McLaughlin Water Engineers (Merrick & Company). Brooke is a graduate of Colorado State University.



Morgan Lynch returned to the District in March. She started as an intern with us while attending Colorado State University, worked a short time in Texas, then returned to work for CH2M.



Kelsey Mehan started working as a receptionist for the District in October. She has had 5+ years of Customer Service experience and is thrilled to be a part of the work that goes on at the District.