



LEVEES

Life Safety - Partnership

WHAT IS THE KC LEVEES PROGRAM?

More than 27,000 residents and 2,700 businesses and structures benefit from the reduced risk of potential flooding produced by approximately 32 miles of existing levees and floodwalls along the Kansas and Missouri Rivers in Kansas City, Kansas and Kansas City, Missouri. This system of levee units, which protects the safety and economic vitality of the Argentine, Armourdale and Central Industrial District (CID) levee units among others, will be further strengthened by improvements which began construction in 2019. This final \$529 million investment, scheduled to be completed in 2026, involves designing and building a number of improvements to the Kansas and Missouri Rivers levee and floodwall system.

WHAT IMPROVEMENTS WILL BE MADE?

The KC Levees Program is an opportunity for reducing flood risk in leveed areas protecting locally important, economically vibrant residential, business and municipal areas. It will use a broad range of risk-reduction strategies, including:

- Raising and extending levees and floodwalls;
- Improving seepage and stability performance; and
- Modifying or replacing pump stations and closures.



WHY ARE IMPROVEMENTS BEING MADE?

The KC Levees Program stems from a 1993 flood event during which water crested near the top of many local levees and floodwalls. This highlighted the need to improve our flood infrastructure and reduce risk throughout greater Kansas City. Levee improvements already have taken place in three of the seven local levee units: Fairfax-Jersey Creek, North Kansas City and East Bottoms (no improvements were deemed necessary for the Birmingham unit). Additional improvements will be constructed through 2026 in the Argentine, Armourdale and CID levee units. Local stakeholders and owners of these levees - the Kaw Valley Drainage District, the Unified Government of Wyandotte County and Kansas City, Kan. and the City of Kansas City, Mo. - worked with the U.S. Army Corps of Engineers (USACE) to identify potential solutions and funding sources. This collaboration ultimately led to the \$529 million in improvements that are funded to completion by Congress through the Bipartisan Budget Act of 2018.

HOW WILL THE REGION BENEFIT FROM THE KC LEVEES PROGRAM?

When completed in 2026, the KC Levees Program improvements will reduce the risk of flooding, improve the reliability and resiliency of the levee and floodwall system as well as:

- Improve deteriorated and aging infrastructure;
- Strengthen infrastructure performance during future floods; and
- Improve levee safety and flood awareness.

Levee systems reduce the chance of flooding, but they cannot eliminate all flood risk. That's why program benefits are maximized when local governments and stakeholders understand and act on their shared responsibility for flood-risk management by:

- Managing floodplain uses and choices to help limit flood-related damages;
- Putting in place effective safety, evacuation and continuity plans and processes; and
- Educating the public about steps they can take to reduce flood-related risks and impacts.

WHAT IS THE SCHEDULE FOR THE KC LEVEES PROGRAM?

Design Construction

USACE ESTIMATED PROJECT SCHEDULE								
	2019	2020	2021	2022	2023	2024	2025	2026
ARGENTINE								
Pump Station Replacements	Design	Design	Design	Design	Design			
Levee/Floodwall Raise	Design							
ARMOURDALE/CID								
Pump Station Repair - Armourdale		Design	Design	Design	Design			
Pump Station Repair - CID		Design	Design	Design	Design			
Levee/Floodwall Raise	Design							

WHAT IS THE REGIONAL CONTEXT FOR THE KC LEVEES PROGRAM?

The KC Levees Program is an ongoing, decades-long regional partnership between the U.S. Army Corps of Engineers and greater Kansas City communities. It spans seven levee units and consists of 60 miles of levees and floodwalls along both banks of the Missouri and Kansas Rivers. The total system protects 32 square miles of residential, industrial and commercial areas offering 100,000 jobs, 7,000 structures and \$25 billion in investments. Already completed levee improvements were done in collaboration with the City of Kansas City, Mo.; the Fairfax Drainage District; and the North Kansas City Levee District.



FOR MORE INFORMATION:



Scott Mensing, PE, KC Levees Program Manager

U.S. Army Corps of Engineers, Kansas City District
 601 E. 12th St. Kansas City, MO 64106
 Email: scott.p.mensing@usace.army.mil

<https://www.nwk.usace.army.mil/Mega-Projects/Kansas-City-Levees/>

KC LEVEES

KC Levees reflects a long-term community/intergovernmental partnership going back decades to reduce flood-related risk to local lives, businesses and quality of life. Construction through 2026 will improve 17 miles of levees along the Kansas and Missouri Rivers.

Local sponsors own, operate and maintain area levees, floodwalls and other infrastructure as part of this partnership. These sponsors include (alphabetically) the: Birmingham Drainage District; City of Kansas City, Mo; Fairfax Drainage District; Kaw Valley Drainage District; North Kansas City Levee District; and Unified Government of Wyandotte County and Kansas City, Kan. For its part, the federal government - through the U.S. Army Corps of Engineers - provides strategic oversight and funding directed by Congress. The Corps also provides technical and flood-fighting support when requested by the non-federal sponsor.

REMAINING PROJECT SUMMARY

TOTAL MILES OF PROJECT: 17
 FUNDED TO COMPLETION: \$529 MILLION
 TOTAL VALUE OF PROTECTION: \$9.5 BILLION

Population Within Leveed Area: 8,700
 Structures Within Leveed Area: 1,468
 Property Value: \$3.06B
 Length of Levee: 6.58 mi

IMPROVEMENTS

- Raise levees/floodwalls up to 4'
- Replace three stoplog gaps
- Replace two sandbag gaps
- Install 80 relief wells
- Improve seepage and stability
- Modify seven pump stations
- Eliminate two pump stations
- Relocate utilities
- Modify drainage structures

Population Within Leveed Area: 7,494
 Structures Within Leveed Area: 526
 Property Value: \$3.36B
 Length of Levee: 4.83 mi

IMPROVEMENTS

- Raise levees/floodwalls up to 4'
- Add 800' of floodwall
- Install 6 relief wells
- Modify/replace closure structures
- Eliminate two pump stations
- Relocate utilities
- Improve seepage and stability

Population Within Leveed Area: 10,700
 Structures Within Leveed Area: 723
 Property Value: \$3.05B
 Length of Levee: 5.48 mi

IMPROVEMENTS

- Raise levees/floodwall up to 4'
- Install 50 relief wells
- Improve seepage and stability
- Replace two closure structures
- Replace two pump stations
- Repair one pump station
- Relocate utilities
- Modify drainage structures

PROJECT PARTNERS



**KAW VALLEY
 DRAINAGE DISTRICT**



**CITY OF
 KANSAS CITY,
 MISSOURI**

KANSAS

MISSOURI

**CENTRAL
 INDUSTRIAL
 DISTRICT**

ARGENTINE

ARMOURDALE

LEGEND

- Area Behind Levee
 - Pump Station
 - RR Closure Structure
 - Levee/Floodwall
- 4000 ft

