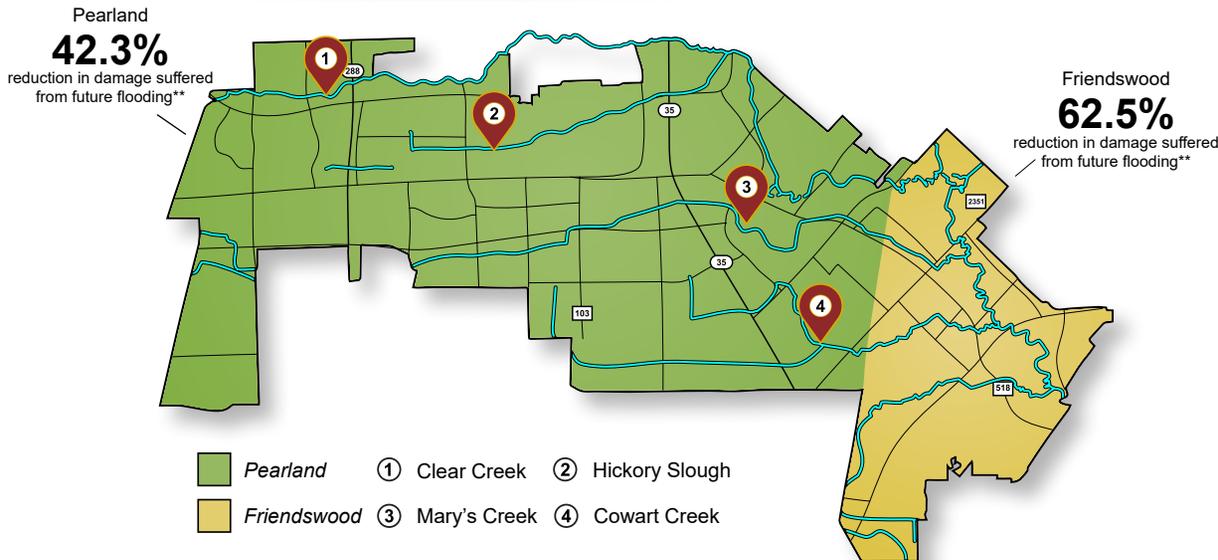




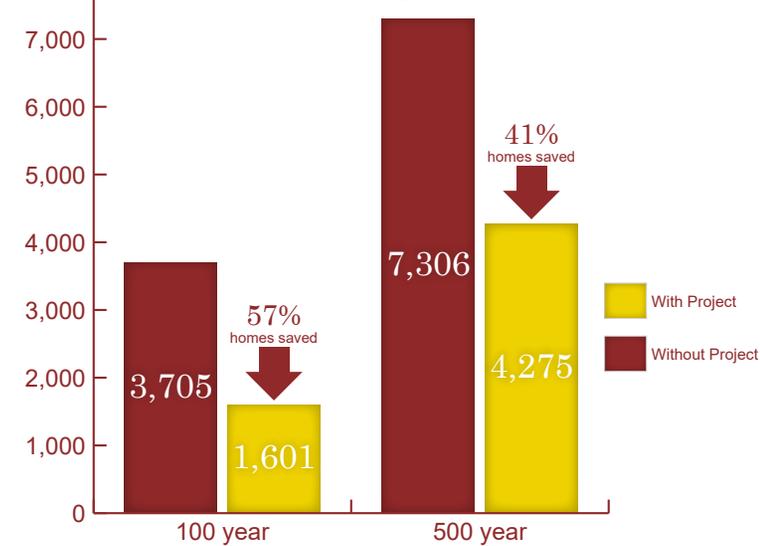
U.S. Army Corps of Engineers Clear Creek Watershed Project

Benefits at a Glance



**Source: U.S. Army Corps of Engineers Final General Reevaluation Report - October 2012

Structural Flooding Estimates



The Clear Creek Watershed encompasses portions of Harris, Galveston, Brazoria, and Fort Bend counties. Clear Creek flows from west to east along the southern portion of Harris County through Clear Lake and into Galveston Bay.

Clear Creek originates approximately 3 miles west of the West Side City of Pearland city limit and runs along the northern boundary of the City from the west side to the east of the city and ultimately to Clear Lake. Clear Creek, along with its tributaries such as Town Ditch, Hickory Slough, Mary's Creek, Cowart creek, serve to drain more than 90 percent area of the City.

History of CoP drainage criteria for development

- **July 11, 1983** – Ordinance 421 - Storm Sewer and Drainage Ditch design criteria
- **September 1997** – Ordinance 817 – Requires mitigation of increased runoff caused by development (detention)
- **September 2000** – Storm Drainage Design Criteria – required storm water storage facilities to offset downstream impact
- **June 2007** – Engineering Design Criteria Manual (EDCM) – Criteria refined to utilize the most up to date hydrologic and hydraulic methodologies such as ICPR, HEC RAS, HEC HMS. Minimum detention rate was specified as 0.65 ac-ft/ac.
- **October 2016** – Update to the EDCM – included the use of TSARP 24 hour rainfall for hydrologic calculation and replacement of intensity duration curve with an equation for estimating intensity for various storm events. Also, included storm water management requirements and practices.

CoP & Brazoria Drainage District No. 4 Regional Detention Floodplain Reduction Projects since 2003

Detention Pond capacity built for regional floodplain reduction of 860M gallons (2,635 Ac-Ft) with City of Pearland investing \$52.7M in these projects

1. Clear Creek - 71M gallon (218 Ac-Ft) capacity added with \$4.3M invested
2. Hickory Slough - 42M gallon (129 Ac-Ft) capacity added with \$2.6M invested
3. Mary's Creek - 371M gallon (1,139 Ac-Ft) capacity added with \$22.8MM invested
4. Cowart Creek - 376M gallon (1,154 Ac-Ft) capacity added with \$23M invested

Visit pearlandtx.gov/Clear-Creek
For more information
as it develops