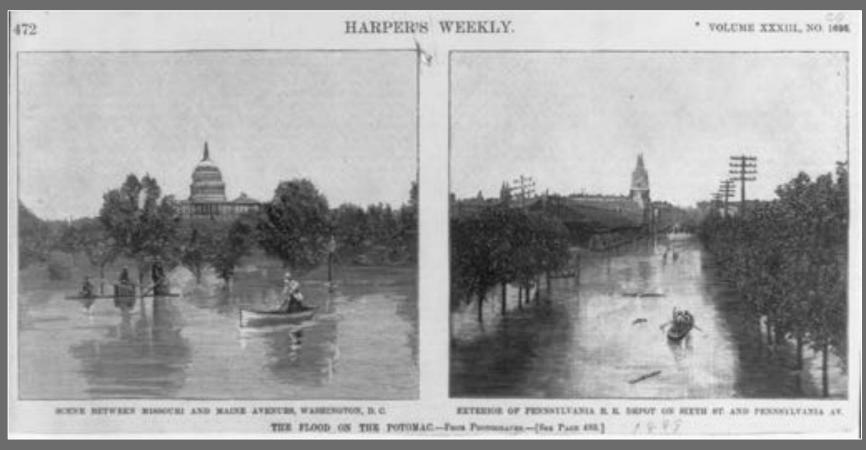
Devastating Floods are a Historic and Ongoing Problem for the National Mall



For example . . .



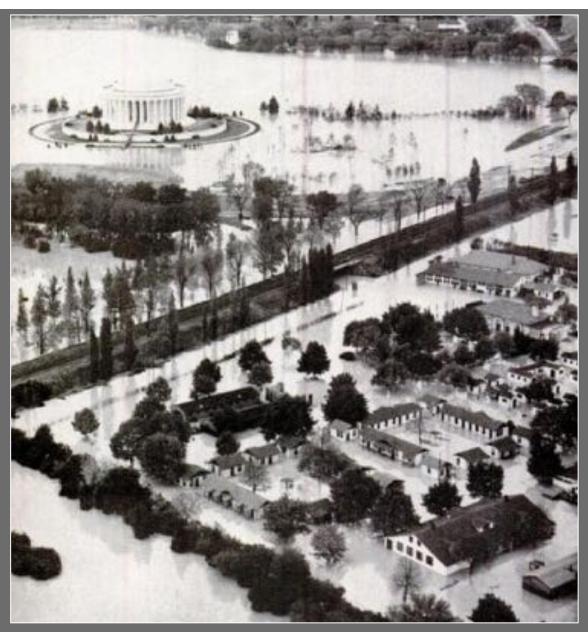


Photo courtesy Library of Congress



Photo courtesy Library of Congress

In fact, Washington has two separate flood threats: river flooding and stormwater flooding









Potomac River flooding has inundated, clockwise from upper left, Pennsylvania Avenue at 6th Street NW in 1889, the Navy Yard in 1936, East Potomac Park (before the Jefferson Memorial) in 1936, and Washington Harbour in Georgetown in 2010

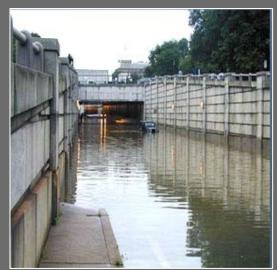


Image courtesy Arthur Cotton Moore

The stormwater flood of 2006, by contrast, was caused by runoff from heavy rains on higher ground into this lowest lying part of the city along Constitution Avenue.









This "interior" flooding caused millions of dollars in damage to, clockwise from upper left, federal office buildings, the Department of Justice, the basement theater in the National Archives, and the 12th Street tunnel under the Mall

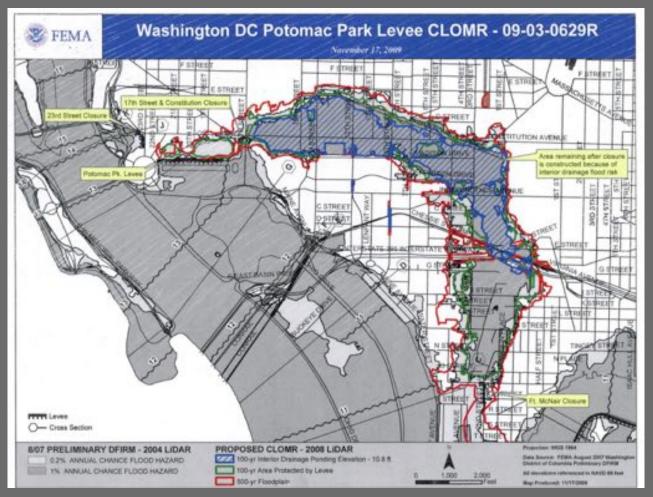
These flooding problems are the result of Washington's topography and changes made to rivers and streams over the years



This 1793 topographic map by Andrew Ellicott shows the site chosen for the nation's capital at the confluence of the Potomac and Anacostia (Eastern Branch) Rivers with a broad creek – Tiber Creek – wending its way along the Mall area from the Capitol to the Potomac



A satellite view of modern Washington superimposed on Ellicott's 1793 topographic map shows Tiber Creek (now covered by Constitution Avenue) and the original shorelines of the Potomac and Anacostia (outlined in black). The Lincoln and Jefferson Memorials, and other waterfront areas, are built on landfill created in the late 19th century by the Army Corps of Engineers.

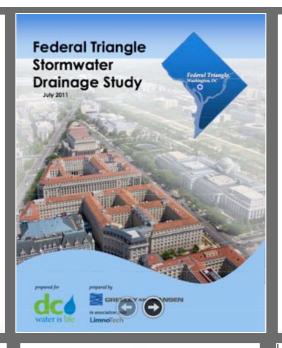


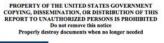
FEMA issued new flood maps for Washington after Hurricane Katrina in 2005, prompting DC and federal officials to address the Potomac River flooding of Downtown DC issue by constructing a levee at 17th Street and Constitution Avenue. This diagram illustrates that while the levee may prevent Potomac River flooding (the area outlined in red), it will not address the separate interior stormwater flooding problem. Even with the levee in place, the area hatched in blue will be subject to flooding such as the 2006 floods.



No government action has been taken to address the ongoing stormwater flooding threat by implementing the recommendations of the 2011 Federal Triangle Stormwater Drainage Study sponsored by DC Water and the National Capital Planning Commission. Lacking a plan, Metro officials use sandbags to protect the Metro system from stormwater flooding.









Flood Mitigation and Prevention

Draft Study

GSA FEDERAL TRIANGLE BUILDINGS WASHINGTON, DC

INTERNAL REVENUE SERVICE DEPARTMENT OF JUSTICE DEPARTMENT OF COMMERCE OLD POST OFFICE ANNEX

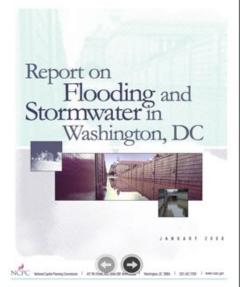
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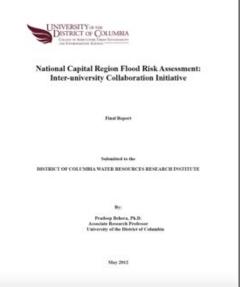
General Services Administration National Capital Region Washington, D.C.



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Washington's flood threats continue to be well documented in recent government and private studies but no comprehensive plan has been developed

The National Mall Coalition has proposed a way to implement the 2011 recommendations for a floodwater reservoir under the National Mall while also solving other Mall problems that will make the Mall more welcoming, lively, and resilient – the National Mall Underground.

We welcome your comments and collaboration in developing this project.

Visit http://www.nationalmallcoalition.org/innovation/resilience-to-ensure-the-future/