Regional Economy

BBVA

Economic Impact of Historic Flooding in Houston

Preliminary estimates as of June 1, 2015

- The economic impact of recent flooding could range between \$200 and \$550 million
- Our estimates consider damage to cars and housing as well as lost value-added
- Albeit significant, the impact will be lower than Hurricane Ike and Tropical Storm Allison

Severe rainfall following Memorial Day weekend left many parts of the Houston metropolitan area underwater, damaging property and public infrastructure. In the 24 hours between 10am on May 25th and 10am on May 26th, some parts of Southwest Houston got up to 11 inches of rain – equivalent to 13% of the annual rainfall in that area. Thousands of structures were damaged. Further information continues to be compiled by authorities. Nevertheless, human tragedy and loss of lives far outweighs economic costs.

Preliminary estimates suggest that the economic impact of the recent flooding in Houston could range between \$200 and \$550 million. These estimates consider the damage to housing, structures, and cars, as well as lost value added and tax revenues. Other conditions have the potential for further impact; for instance, the Brays Bayou in Southwest Houston also flooded, damaging the nearby Southwest Wastewater Plant for which the cost of repair is still unknown. Other municipal cleaning costs and infrastructure repairs should also be considered.¹ Although the estimated cost to the city is significant, it is low compared to the \$154 billion² impact of Hurricane Ike (2008), and the \$6.7 billion impact of Tropical Storm Allison (2001), both figures in current dollars.

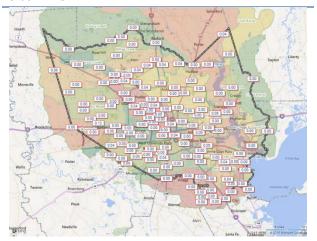
The damage outside of the greater Houston area was substantial as well. So far 70 counties (28% of total counties in Texas) have been declared as disaster areas. In the flood's aftermath, the Texas Department of Transportation (TxDOT) has been identified as an agency in need of funding to repair damaged highways and for other preventative measures across the state. Several roadways are still closed and the assessment of the damages continues.

Table 1. Economic impact of flooding in Houston (as of June 1, 2015, \$ million)		
Item	Lower bound	Upper bound
Housing	\$29	\$61
Vehicles	\$13	\$19
Value added	\$150	\$450
Sales tax revenues	\$3	\$8
Other	\$6	\$13
Total	\$200	\$550

¹ Information about material damages continues to change as new areas are assessed. As more information becomes available, and depending on weather conditions through next week, our figures are subject to change. ² goo.gl/A0kSS7

U.S. Economic Watch 06.01.2015

Chart 1 Rainfall for 1 day from 5/24/2015 10:35 AM to 5/25/2015 10:35 AM CDT

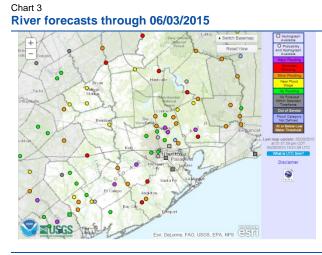


Source: Harris County Flood Warning System

Chart 2 Rainfall for 1 day from 5/25/2015 10:35 AM to 5/26/2015 10:35 AM CDT



Source: Harris County Flood Warning System



Source: National Weather Service



Source: National Weather Service

DISCLAIMER

This document was prepared by Banco Bilbao Vizcaya Argentaria's (BBVA) BBVA Research U.S. on behalf of itself and its affiliated companies (each BBVA Group Company) for distribution in the United States and the rest of the world and is provided for information purposes only. Within the US, BBVA operates primarily through its subsidiary Compass Bank. The information, opinions, estimates and forecasts contained herein refer to the specific date and are subject to changes without notice due to market fluctuations. The information, opinions, estimates and forecasts contained in this document have been gathered or obtained from public sources, believed to be correct by the Company concerning their accuracy, completeness, and/or correctness. This document is not an offer to sell or a solicitation to acquire or dispose of an interest in securities.

Chart 4 Houston/Galveston, TX Radar