Student Directions

Hurricane Harvey dropped record-breaking amounts of rainfall on August 25, 2017 in southeastern
Texas. This includes the greater Houston region.

This image shows the Southeastern United States.
Credit: U.S. Bureau of Labor Statistics
https://mynasadata.larc.nasa.gov/sites/default/files/inline-images/south_map.png

Note: Houston is the 4th largest city in the United States. Over a twenty-year span (1997 to 2016), this area added almost 1000 km² of impervious surfaces (such as concrete, asphalt, etc.) to the landscape. This is almost 187,000 football fields of pavement, concrete, and buildings. (Source: Rice University)

Review the map that shows changes in soil moisture before and after Hurricane Harvey in the greater Houston, Texas region.
This image shows soil moisture in south Texas on 27 August 2017. Credit: These data were collected by NASA's Soil Moisture Active Passive satellite using a radiometer. NASA Earth Observatory image by Joshua Stevens, using soil moisture data courtesy of JPL and the SMAP science team. Note: Soil moisture is expressed in volumetric terms, water by volume/volume of soil.???

https://mynasadata.larc.nasa.gov/sites/default/files/inline-images/1_xgfSgHLej33MN8upelOo-g.png

Teachers, these mini lessons/student activities are perfect "warm up" tasks that can be used as a hook, bell ringer, exit slip, etc. They take less than a class period to complete. Learn more on the "My NASA Data What are Mini Lessons?" page.

Teachers who are interested in receiving the answer key, please complete the Teacher Key Request and Verification Form. We verify that requestors are teachers prior to sending access to the answer keys as we’ve had many students try to pass as teachers to gain access.